Storm Water Pollution Prevention Plan For SWMUs and AOCs (Sites) and Storm Water Monitoring Plan


Gage Station E040


BMP Installation


Single Stage Sampler


Automated Single Stage Sampler

Prepared by: University of California, Los Alamos National Laboratory
Environmental Stewardship Division,
Water Quality and Hydrology Group (ENV-WQH)
SMWU Specific Permit Application Team, Los Alamos, New Mexico

March 2006

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Title: Storm Water Pollution Prevention Plan For SWMUS and AOCs (Sites) and Storm Water Monitoring Plan

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Submitted to: Environmental Protection Agency – Region 6, Dallas TX

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Date: March 29, 2006
Refer To: ENV-WQH: 06-055

Ms. Sonia Cantu
U.S. Environmental Protection Agency, Region 6
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

SUBJECT: ANNUAL STORM WATER POLLUTION PREVENTION PLAN FOR SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN, AND STORM WATER MONITORING PLAN

Dear Ms. Cantu:

The Department of Energy (DOE) and the University of California's (UC) are pleased to submit for your review and comment the Laboratory's Storm Water Pollution Prevention Plan for Solid Waste Management Units and Areas of Concern, and Storm Water Monitoring Plan (Plan). This combined Plan was prepared by the Laboratory's Water Quality and Hydrology Group (ENV-WQH) as a requirement of the Federal Facility Compliance Agreement (FFCA) Docket No. CWA-06-2005-1701, dated February 3, 2005, and the Administrative Order (AO) Docket No. CWA-06-2005-1734, dated March 22, 2005.

The annual modification of the Plan addresses monitoring storm water on a watershed scale and specifically covers Data Quality Objectives, sample methodology, quality control, and CY05 monitoring results. Additionally, the Plan addresses monitoring storm water on a site-specific scale and covers approaches used to identify and prioritize sites with the greatest potential for erosion. Also, the Plan includes criteria for evaluation of monitoring locations, CY05 monitoring results, data assessment, types of erosion control measures implemented, and inspection and maintenance schedules.

Copies of the Plan are being sent to the New Mexico Environment Department's (NMED) Surface Water Quality Bureau and the NMED/DOE Oversight Bureau for review and comment. We would appreciate your comments by May 1, 2006. After comments from all parties are received, a meeting will be scheduled to discuss issues and to arrive at a consensus approach. A final draft will then be prepared and submitted to EPA Region 6 and NMED.

Please contact Gene Turner of DOE at (505) 667-5794 or Steve Veenis of ENV-WQH at (505) 667-0013, if you have questions or need additional information regarding this Plan.

Sincerely,

Steven Rae
Group Leader
Water Quality & Hydrology Group

SR:SV/lm

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Los Alamos National Laboratory

Storm Water Pollution Prevention Plan For SWMUs and AOCs

And

Storm Water Monitoring Plan

Revision 1
March 31, 2006

A requirement of the

Los Alamos National Laboratory Federal Facility Compliance Agreement
Administrative Order Docket No. CWA-06-205-1701

and the

Administrative Order (AO) Docket No. CWA-06-2005-1734

and the

NPDES Storm Water Multi-Sector General Permit for Industrial Activities
(NPDES Permit Nos. NMR05A734 and NMR05A735)

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PREFACE

This Storm Water Pollution Prevention Plan (SWPPP) for Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) and Storm Water Monitoring Plan (SWMP) have been developed in accordance with regulations governing storm water discharge controls at Los Alamos National Laboratory (LANL). These regulations pursuant to the Clean Water Act, 33 U.S.C. Section 1251-1387 include: the 2005 Federal Facility Compliance Agreement (Administrative Order Docket No. CWA-06-2005-1701) (FFCA) entered into between the United States Environmental Protection Agency (EPA) and the United States Department of Energy (DOE); the Administrative Order (AO) (Docket No. CWA-06-2005-1734) entered into between EPA and the University of California (UC); and those established by EPA for the National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit (MSGP) for Industrial Activities (EPA 2000).

In accordance with facility activity, this SWPPP for SWMUs and AOCs (SWMU/SWPPP) complies with the industry specific permit requirements for Hazardous Waste Treatment Storage or Disposal, Section XI, subpart K, of the NPDES Storm Water MSGP for Industrial Activities (65 Federal Register 64746). The applicable storm water discharge permits are EPA MSGP Number NMR05A735 and NMR05A735 (EPA 2000). This SWMU/SWPPP, which includes the SWMP, is applicable to discharges of storm water associated with the identified LANL Sites during the period of the FFCA/AO, and as stated above, incorporates FFCA/AO requirements for SWMUs and AOCs (collectively referred to as Sites) and MSGP monitoring and reporting requirements for SWMUs. Conventional industrial facilities that are subject to the requirements of the MSGP are not addressed in this SWMU/SWPPP. The SWMP provides the detailed storm water runoff sampling plan for the current monitoring year.

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List of Acronyms

ACE	United States Army Corps of Engineers
AO	Administrative Order
AOC	Area Of Concern
BMP	Best Management Practice
CAP	[LANL] Construction Activities Permit [Program]
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CGP	Construction General Permit
COPC	Chemicals of Potential Concern
CWA	Clean Water Act
DMR	Discharge Monitoring Report
DOE	United States Department of Energy
DOE-OB	United States Department of Energy Oversight Bureau
DQO	Data Quality Objectives
EM&R	Emergency Management & Response
ENV	Environmental Stewardship Division
EPA	United States Environmental Protection Agency
ER	Environmental Restoration [Project]
ERDB	LANL ER database
FFCA	Federal Facility Compliance Agreement
FMST	facility management support team
FMU	Facility Management Unit
FR	Federal Register
HSWA	Hazardous and Solid Waste Amendments
HWB	[NMED] Hazardous Waste Bureau
L	liter
LANL, Laboratory	Los Alamos National Laboratory
LANS	Los Alamos National Security
LASO	Los Alamos Site Office
mL	milliliter
MSGP	Multi-Sector General Permit
NERP	National Environmental Research Park
NFA	no further action
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NNMCAB	Northern New Mexico Citizens' Advisory Board
NNSA	National Nuclear Security Administration
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl [compound]
pCi/L	picoCurie per liter
PE	polyethylene
PPWP	Pajarito Plateau Watershed Partnership
QAPP	Quality Assurance Project Plan
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RS	Remediation Services [Project]
SIC	Standard Industrial Codes
SMA	Site Monitoring Area
SOP	Standard Operating Procedure
SWAT	[Los Alamos] Surface Water Assessment Team
SWMP	Storm Water Monitoring Plan
SWMU	Solid Waste Management Unit
SWPPP	Storm Water Pollution Prevention Plan
SWQB	[NMED] Surface Water Quality Bureau
SWTS	Storm Water Tracking System

TA	Technical Area
TAL	Target Analyte List
Team	Pollution Prevention Team
TCLP	toxicity characteristic leaching procedure
TR	total recoverable [concentration]
UC	University of California
VTF	Volunteer Task Force
WQCC	[New Mexico] Water Quality Control Commission
WQDB	Water Quality Database
WQH	Water Quality and Hydrology [Group]
wSAL	[storm] water Screening Action Level

LOS ALAMOS NATIONAL LABORATORY

STORM WATER POLLUTION PREVENTION PLAN

FOR SWMUs AND AOCs

AND

STORM WATER MONITORING PLAN

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Kenneth M. Hargis   3/27/06

Environmental Stewardship Division Director, Kenneth M. Hargis   Date

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SECTION 1.0
INTRODUCTION

1.1 Purpose

Los Alamos National Laboratory (LANL, the Laboratory) has prepared this Storm Water Pollution Prevention Plan (SWPPP) and Storm Water Monitoring Plan (SWMP) pursuant to the requirements of the 2005 Federal Facility Compliance Agreement (FFCA) entered into between the United States Environmental Protection Agency (EPA) and the United States Department of Energy (DOE) in February 2005 (EPA 2005b), pursuant to the Clean Water Act (CWA), 33 U.S.C. Section 1251-1387 and Administrative Order (AO) Docket No. CWA-06-2005-1734, dated March 17, 2005 (EPA 2005c). The FFCA/AO establishes a compliance program under the CWA for the regulation of storm water discharges from Laboratory Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) until such time as these sources are regulated by an individual storm water permit issued by the permitting authority pursuant to the National Pollutant Discharge Elimination System (NPDES). SWMUs and AOCs are collectively referred to as Sites.

The purpose of the compliance program is to provide a schedule to ensure compliance with the NPDES storm water permitting program. This SWPPP for SWMUs and AOCs (SWMU/SWPPP), which includes the SWMP, incorporates all the FFCA/AO requirements that pertain to watershed scale and Site-specific monitoring and corrective action, as well as the Multi-Sector General Permit (MSGP) monitoring and reporting requirements that are applicable to SWMUs. A copy of the FFCA is included in Appendix 1 of this SWMU/SWPPP. A copy of the MSGP and the LANL Notice of Intent (NOI) is included in Appendix 2.

1.2 Scope

This section discusses the applicability of this SWMU/SWPPP, the definition of SWMUs and AOCs to which the Plan applies, and the Plan ownership and jurisdiction. The FFCA and MSGP requirements for this SWMU/SWPPP are detailed in Section 1.3.

1.2.1 Applicable SWMUs

Storm water discharges at the Laboratory are regulated under the CWA. Since the promulgation of Storm Water regulations in 1990 under the NPDES Program and the CWA, LANL has pursued appropriate NPDES permit coverage for storm water discharges. LANL originally identified different industrial activities based on Standard Industrial Codes (SIC) as required by 40 Code of Federal Regulations (CFR) 122.26(b)(14)(i-xi) and implemented a storm water management program to cover those activities under a General Permit. In 1995, EPA modified the NPDES storm water permit and issued an industrial "sector" driven permit – the MSGP. LANL has applied for and received coverage under the MSGP since that time. Currently, the discharge of storm water at the Laboratory is regulated by NPDES Storm Water MSGP Nos. NMR05A734 and NMR05A735 (EPA 2000), which became effective on December 23, 2000 pursuant to 65 Federal Register (FR) 64746.

The following industrial activity sectors are present at LANL.

- Sector D - Asphalt Paving and Roofing Materials
- Sector F - Primary Metals (Nonferrous Metals)
- Sector K - Hazardous Waste Treatment, Storage, or Disposal Facilities (including SWMUs)
- Sector L - Landfills and Land Application Sites
- Sector N - Scrap Recycling Facilities
- Sector O - Steam Electric Generating Facilities
- Sector P - Land Transportation
- Sector AA - Fabricated Metal Products

A Conventional Industrial Site is categorized as a site with an industrial activity defined in 40 CFR 122.26(b)(14) that is not exclusively designated as a SWMU as defined by EPA Region 6. Sites that are co-located with conventional industrial activities are listed in Appendix 3. Pursuant to the MSGP, SWMUs fall under the category of Hazardous Waste Treatment, Storage, and Disposal Facilities (Sector K), which EPA Region 6 defines as a listed, regulated industrial activity. EPA Region 6 has provided the following information on the definition of a SWMU and its coverage under the NPDES permitting program.

"Solid Waste Management Unit (SWMU):

Any discernible waste management unit from which hazardous constituents may migrate, irrespective of whether the unit was intended for management of solid or hazardous wastes. The types of units considered SWMUs are landfills, surface impoundments, waste piles, land treatment units, incinerators, injection wells, tanks, container storage areas, waste water treatment systems, and transfer stations. In addition, areas associated with production processes at facilities that have become contaminated as a result of routine, systematic, and deliberate releases of wastes (which may include abandoned or discarded product), or hazardous constituents from wastes, are considered SWMUs. SWMUs usually meet the definition of industrial activity in 40 CFR 122.26(b)(14)(iv-v), thereby requiring an NPDES storm water permit."

If a SWMU has not received materials from other industrial activities defined in 40 CFR 122.26(b)(14), and is not subject to Subtitle C or D of Resource Conservation and Recovery Act (RCRA), it may qualify as a non-industrial activity. Additionally, if a SWMU contains only radioactive materials that are regulated under the Atomic Energy Act (42 USC 201 et seq.) it may be exempt because the definition of "pollutant" (40 CFR 122.2) excludes certain radioactive materials. Radioactive materials covered by the Atomic Energy Act are those encompassed in its definition of source, byproduct, or special nuclear materials. Examples of materials not covered include radium and accelerator-produced isotopes. However, radioactive waste SWMUs may contain other pollutants from industrial activities, thereby subjecting them to the NPDES permitting program. Since DOE regulates SWMUs containing radioactive wastes, EPA and DOE may both regulate such Sites.

1.2.2 SWMUs and AOCs

This SWMU/SWPPP applies to those Sites, including both SWMUs and AOCs that have not formally achieved No Further Action (NFA) status through the RCRA corrective action process described previously in the Hazardous and Solid Waste Amendments (HSWA) Module VIII of the Laboratory's Hazardous Waste Facility Permit, or that have not received a 'Certificate of Completion Without Controls' described in the March 2005 Compliance Order on Consent (Consent Order) (NMED 2005).

In November 1989, the New Mexico Environmental Improvement Division (now New Mexico Environmental Department [NMED]), authorized by EPA under RCRA, issued the Laboratory its Hazardous Waste Facility Permit (New Mexico 1989), which addresses treatment and storage of hazardous wastes at the Laboratory. EPA regulations require that applicants for RCRA operating permits submit "reasonably available" information that identifies SWMUs at the facility requesting the permit and that the facility identifies the potential for release at each SWMU. To meet these requirements, the Laboratory originally identified 2,124 potentially contaminated sites and listed those sites within a SWMU report (LANL 1990). Contamination originated from septic tanks and lines, chemical storage areas, wastewater outfalls, landfills, incinerators, firing ranges and their impact areas, surface spills, and electric transformers. Potentially contaminated sites are found on mesa tops, in canyons, and in the Los Alamos town site.

Based on the findings of the SWMU reports, EPA Region 6 originally identified a subset of 1,099 potentially contaminated sites to be included in HSWA Module VIII of the Laboratory's Hazardous Waste Facility Permit, which was issued by EPA in March 1990 (EPA 1990). Module VIII set forth the procedural requirements for RCRA corrective action at sites identified as SWMUs. Through 1995, EPA had sole authority over corrective actions at the Laboratory. In January 1996, EPA delegated this authority to NMED. In March 2005, NMED issued a Consent Order specifying that all corrective action for releases of hazardous waste or hazardous constituents at the Laboratory facility shall be conducted solely under the Consent Order and not under the current Hazardous Waste Facility Permit (NMED 2005).

The Consent Order defines AOCs as any area that may have had a release of a hazardous waste or hazardous constituents which is not a SWMU. The AOCs at the Laboratory are those 1,025 originally identified potentially contaminated sites that were not designated as SWMUs in the HSWA Module. The FFCA/AO and this SWMU/SWPPP apply to both SWMUs and AOCs.

To further facilitate corrective actions, in December of 1998, the Environmental Restoration (ER) Project and NMED developed criteria for, and started the process of, consolidating corrective action Sites that are related by contaminant source, geographic location, and potential cumulative risk. As a result of this effort, 583 related Sites were grouped into 145 “consolidated units.”

As site investigations and/or corrective actions proceed, the Laboratory may request a Certificate of Completion for a Site pursuant to the requirements of the Consent Order. Either the Laboratory or the Administrative Authority may request modification of the HSWA Permit to add a Site to the ‘Complete Without Controls’ or the ‘Complete With Controls’ list. Currently, there are approximately 1,440 Sites, including approximately 980 SWMUs and approximately 464 AOCs, that have not formally achieved NFA/Certificate of Completion Without Controls to which this SWMU/SWPPP applies. (Note: The number of Sites refers to non-consolidated Sites.)

1.3 Regulatory Framework

This SWMU/SWPPP incorporates all the FFCA/AO requirements that pertain to watershed scale and Site-specific monitoring and corrective action, as well as the MSGP SWPPP requirements for SWMUs. Both sets of requirements are discussed in detail below.

1.3.1 Federal Facility Compliance Agreement/Administrative Order

Pursuant to the requirements of the FFCA/AO, the purpose of this SWMU/SWPPP is to:

- Describe the monitoring and erosion control program to control and limit contamination migration and transport from Sites within the Laboratory and within individual or combined site boundaries.
- Monitor the effectiveness of controls at the Sites.

Under the FFCA/AO, the Laboratory is conducting storm water runoff monitoring that is described in the annual Storm Water Monitoring Plan (Attachment 1). These monitoring efforts are discussed in Sections 2.1.1 and 4.7.

The purpose of the storm water monitoring mandated by the FFCA/AO is to determine if there is a release or transport of a pollutant or contaminant from a Site into surface water that could cause or contribute to a violation of applicable surface water quality standards, including the antidegradation policy, or an applicable waste load allocation. Storm water samples are compared to [storm] water screening action levels (wSALs), developed by DOE/ National Nuclear Security Administration (NNSA) and the NMED. The wSALs, which are summarized in Section 3.4.1, Table 3-3, are set at or below applicable water quality standards to ensure a margin of safety. The compliance schedule established by the FFCA/AO underlies the management of the Sites to prevent or minimize erosion and the transport of pollutants from the Sites by storm water runoff.

Table 1-1 lists the primary requirements in the FFCA/AO related to this SWMU/SWPPP and the sections within this SWMU/SWPPP in which the requirement is addressed.

Table 1-1. FFCA Requirements for SWMU/SWPPP

FFCA Section	FFCA Requirement	SWPPP Section(s) Addressing Requirement
20	List all Sites scoring above 40 and the year in which all Sites will be sampled	Appendix 6, Attachment 2
21	Describe the approach employed by LANL to identify and prioritize Sites by watershed where there is the greatest potential for erosion and contamination to impact surface water(s) of the state	3.1
21	Describe the types of erosion control measures implemented	4.5
21	Describe the process for determining the specific erosion control measures and monitoring plan for each Site	4.5.3, 4.7
21	Provide criteria for evaluating which Sites may be grouped as substantially identical outfalls or storm water management areas	4.2.2.2

Table 1-1. FFCA Requirements for SWMU/SWPPP

FFCA Section	FFCA Requirement	SWPPP Section(s) Addressing Requirement
21	Describe post sampling activities, including data assessments and contingency measures to address releases	3.4
21	Provide inspection and maintenance schedule	4.5.1.5, 4.5.4
22	Submit an annual SWPPP update to EPA and the New Mexico Environment Department (NMED) by March 31 of each year	4.6.2

The FFCA/AO also specifies a schedule for reporting pursuant to activities performed under this SWMU/SWPPP. The report deliverables, required report content, and reporting schedule pursuant to the FFCA/AO are summarized in Table 1-2. Report deliverables under the FFCA/AO are submitted to EPA Region 6 and NMED Surface Water Quality Bureau (SWQB) and include:

- An annual revision to this SWMU/SWPPP that includes a summary of the previous monitoring year analytical data and the group of Sites to be monitored during the coming year, submitted by March 31st of each year.
- A quarterly status report submitted no later than 60 days after the end of each quarter.
- A monthly letter report of any analytical results greater than wSALs for the monthly reporting period submitted by the 28th day of the month following the month in which the analytical results are received.

All reports submitted to EPA and/or NMED pursuant to the FFCA/AO shall be signed by a duly authorized representative of DOE and UC in accordance with 40 CFR Part 122.22(b).

Table 1-2. SWMU/SWPPP Reporting Schedule under the Federal Facility Compliance Agreement

Deliverable	Required Content	Frequency	Due Date	Submit to
SWMU/SWPPP, Revision 1	• Summary of previous monitoring year analytical data (hardcopy and electronic formats) • Summary of watershed scale and Site-specific corrective actions • Proposed locations recommended for reduced monitoring requirements • Proposed changes to the inspection and maintenance schedule for Best Management Practices (BMPs) • Sites that will be monitored in the coming year	Annual	March 31, 2006	EPA Region 6 NMED SWQB
Status Report	• State and describe the cause of any failure to comply with the FFCA • Deadlines and other milestones that DOE was required to meet during the reporting period • Progress made toward meeting the deadlines and other milestones • Reasons for any noncompliance • Corrective actions taken to address exceedances of wSALs • Description of any matters relevant to the status of compliance with this FFCA	Quarterly	2005 Monitoring Year: No later than: May 30, 2005 August 31, 2005 November 30, 2005 February 28, 2006	EPA Region 6 NMED SWQB
Letter Report	• Report any analytical results greater than wSALs • Propose corrective actions for impacted locations • Report status of implemented corrective actions	Monthly	28th day of the following month (or next business day if the 28th falls on a weekend or holiday)	EPA Region 6 NMED SWQB

wSAL = storm water screening action level

1.3.2 Multi-Sector General Permit

The purpose of this SWMU/SWPPP is also to meet the MSGP requirements for SWMUs, unless superseded by the FFCA/AO. The discharge of storm water at the Laboratory is regulated by NPDES Storm Water MSGP Nos. NMR05A734 and NMR05A735 (EPA 2000), which became effective on December 23, 2000 pursuant to 65 FR 64746. During the period that the FFCA/AO is in effect, the Laboratory must continue to comply with all requirements of the current MSGP.

In December of 2005, EPA posted notice in the Federal Register (70 FR 230) that a new MSGP, to replace the existing permit that expired on October 30, 2005, was available and open for public comment. As of issuance of this SWMU/SWPPP, promulgation of the new MSGP is pending. This SWPPP continues to follow the requirements of the 2000 MSGP.

Table 1-3 lists the MSGP requirements for the completion of a SWPPP and the sections of this SWMU/SWPPP in which the requirement is addressed. As indicated in Table 1-3, a copy of the MSGP is provided in Appendix 2.

DOE/UC must also meet the reporting requirements of the MSGP. The 2006 MSGP has not been issued as of the deliverable data of this SWPPP. The Laboratory will comply with the requirement to submit Discharge Monitoring Reports (DMRs) once the 2006 MSGP takes effect.

Table 1-3. MSGP Requirements for SWMU/SWPPP

MSGP Section	MSGP Requirement	SWPPP Section(s) Addressing Requirement
4.2.1	Pollution Prevention Team	4.1
4.2.2	Site Description	4.2
4.2.2.1	Activities at Facility	1.2
4.2.2.2	General Location Maps	4.2.1
4.2.3	Description of Receiving Waters and Wetlands	4.2.2
4.2.4	Summary of Potential Pollutant Sources	4.2.3
4.2.5	Significant Spill and Leaks	4.2.4
4.4	Non-Storm Water Discharges	4.3
4.2.6	Storm Water Sampling Data	4.4
4.2.7	Storm Water Controls	4.5
4.2.7.1	Types of BMPs, Description of Existing and Planned BMPs	4.5.3
4.2.7.2.1	Non-Structural BMPs	4.5.1
4.2.7.2.1.1	Good Housekeeping	4.5.1.1
4.2.7.2.1.2	Minimizing Exposure	4.5.1.2
4.2.7.2.1.3	Preventive Maintenance	4.5.1.3
4.2.7.2.1.4	Spill Prevention and Response Procedures	4.5.1.4
4.2.7.2.1.5	Routine Site Inspections	4.5.1.5
4.2.7.2.1.6	Employee Training	4.5.1.6
4.2.7.2.2	Structural BMPs:	4.5.2
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4.9.2	Scope and Method of Evaluations	4.6

Table 1-3. MSGP Requirements for SWMU/SWPPP

MSGP Section	MSGP Requirement	SWPPP Section(s) Addressing Requirement
4.9.3	Follow-up actions	4.6
4.9.4	Compliance Evaluation Report	4.6.1
4.10	Maintaining Updated SWPPP	4.6.2
5, 6.K.5	Monitoring and Reporting	4.7
4.5	Documentation of Permit Eligibility Related to Endangered Species	4.8
4.6	Documentation of Permit Eligibility Related to Historic Places	4.9
4.7	Copy of Permit (Attached to SWPPP)	4.10, Appendix 2

1.4 Responsibilities

Responsibilities for accomplishing the requirements of the FFCA/AO and the MSGP are shared by DOE and UC, which currently manages the Laboratory for the DOE NNSA. In June 2006, the management of the Laboratory for the DOE/NNSA will be transferred from UC to The Los Alamos National Security Limited Liability Corporation (LANS). It is anticipated that the AO, and all current obligations under the FFCA, will be transferred from UC to LANS and that LANS will be responsible for implementing the requirements of the FFCA/AO. These responsibilities include the following.

- DOE and UC are co-permittees of the MSGP under Permit Nos. NMR05A734 and NMR05A735, respectively.
- DOE has entered into the FFCA with EPA.
- UC has entered into the AO with EPA.
- UC is responsible for implementing the requirements of the FFCA/AO.
- DOE is the Owner/Landlord of the Laboratory.
- DOE is the funding agency for FFCA/AO.
- DOE and UC have signatory authority for FFCA/AO requirements.

The Laboratory's Environmental Stewardship Division Water Quality and Hydrology Group (ENV-WQH) has the responsibility for implementing the requirements of the FFCA/AO at the LANL facility, including:

- Submitting the NPDES Individual Storm Water Permit Application to EPA to provide coverage for storm water discharges from the specific Sites that are subject to the requirements of the FFCA/AO.
- Developing, implementing, and maintaining this SWMU/SWPPP that addresses the Site-specific requirements of the FFCA/AO and MSGP.
- Developing, implementing, and maintaining the SWMP document that addresses the storm water monitoring requirements of the FFCA/AO.
- Reporting, pursuant to the requirements specified in FFCA/AO.
- BMP maintenance and inspections.

1.5 Plan Organization

This SWMU/SWPPP is organized into two volumes. Volume 1 contains the following information.

- Section 1 provides the purpose and scope and presents storm water regulatory requirements for the Plan.
- Section 2 discusses the broad range of storm water management activities at LANL, including the programs in place at the Laboratory as well as LANL participation in local watershed management efforts.
- Section 3 provides detailed discussion of the Site evaluation process by which appropriate Site-specific requirements for monitoring and corrective action are determined. This process evaluates Sites, results in the categorization of Sites, assigns Site-specific monitoring requirements, applies decision criteria, and recommends potential corrective actions needed at the Sites.
- Section 4 provides the remaining information to implement the specific regulatory requirements for a SWPPP outlined in Section 1.3.

- The majority of the information that is subject to updates in this SWMU/SWPPP is provided within the 11 appendices.
- Attachment 1 is the FFCA/AO SWMP that presents the detailed sampling plan for watershed scale and Site-specific locations to be monitored during 2006, and the analytical requirements for storm water runoff samples.
- Attachment 2 contains a summary of the results of Site-specific and watershed scale monitoring conducted during the 2005 monitoring year.
- Attachment 3 summarizes the BMPs conducted on a watershed scale and Site-specific basis during 2005, and proposed changes to the Site specific erosion control and monitoring program.

Volume 2 contains the Site-specific SWPPP information for the individual Sites listed in Table 2 of the FFCA, including a map of each Site and a Site-Specific SWPPP Form.

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SECTION 2.0

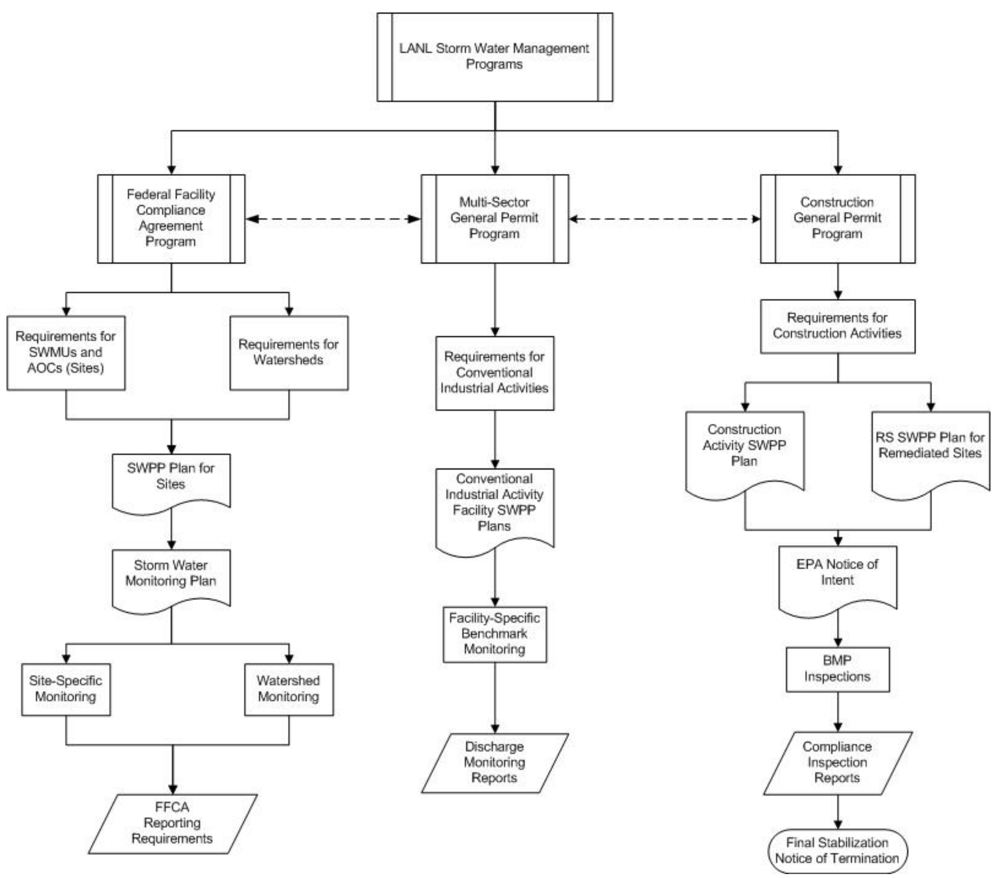
STORM WATER MANAGEMENT AT LANL

This section addresses storm water management activities at LANL, including the programs in place at the Laboratory to ensure compliance with NPDES regulations governing storm water discharge, as well as LANL participation in local watershed management efforts. The LANL organizations responsible for implementing and ensuring compliance with storm water regulations are also discussed in this section.

2.1 LANL Storm Water Management Compliance Programs

Figure 2-1 illustrates the structure of Storm Water Management Programs at LANL, including the regulatory documents and reports that are prepared and maintained pursuant to NPDES regulations governing storm water discharge, and the monitoring programs that are implemented to ensure compliance. The Storm Water Management Programs at LANL are managed by ENV-WQH; the role and responsibilities of the group are discussed in more detail in Section 2.2. Compliance programs have been implemented specific to the requirements of the FFCA/AO, the MSGP, and the Construction General Permit (CGP). Each compliance program has its own requirements for plans, reports, and monitoring and/or inspections as described in the following sections. Under certain situations, compliance requirements may overlap as indicated by the dotted lines between the major programs; these situations are also described below.

Figure 2-1. Structure of Storm Water Management Programs at LANL



2.1.1 Federal Facility Compliance Agreement/Administrative Order

The discharge of storm water associated with Sites at the Laboratory is regulated by the FFCA/AO, which establishes a compliance program under the CWA for the regulation of storm water discharges from Laboratory Sites until such time as these sources are regulated by an individual storm water permit issued by the permitting authority pursuant to the NPDES. The purpose of the compliance program is to provide a schedule to ensure compliance with the NPDES storm water permitting program.

Under the FFCA/AO, the Laboratory is conducting two types of storm water runoff monitoring: sampling on a watershed basis at automated gages, and sampling near specific Sites (Site Specific) on a rotating basis. The details of locations and analytical suites are contained in the 2006 SWMP (Attachment 1).

Reporting requirements pursuant to the FFCA are described in Section 1.3.1. Annual updates to this SWMU/SWPPP document shall include all analytical monitoring results for Site-specific and watershed scale monitoring by March 31st of the year following the monitoring period. This information is provided in Attachment 2.

2.1.2 Multi-Sector General Permit

As discussed under Section 1.3.2, the discharge of storm water associated with industrial activities at the Laboratory is regulated by the NPDES Storm Water MSGP. Storm water discharges from Laboratory facilities that EPA categorizes as an Industrial Activity are subject to the requirements of the Laboratory's MSGP. Pursuant to the MSGP requirements, facility-specific SWPPPs have been prepared for Conventional Industrial Sites, where a Conventional Industrial Site is defined as a site with an industrial activity defined in 40 CFR 122.26(b)(14) that is not exclusively designated as a SWMU as defined by EPA Region 6. Sites that are co-located with Conventional Industrial Sites are listed in Appendix 3.

Facility-specific analytical monitoring is conducted at automated gage stations for benchmark pollutants associated with the industrial activity sectors listed in Section 1.2.1. The analytical monitoring data for Conventional Industrial Sites are reported to EPA on DMRs pursuant to the requirements of the MSGP.

2.1.3 NPDES Construction General Permit

The discharge of storm water associated with construction activities at the Laboratory is subject to the requirements of the NPDES Construction General Permit (CGP), and is carried out through the LANL NPDES Construction Activities Permit (CAP) Program. The Laboratory established the NPDES CAP Program to ensure compliance with the regulations established by EPA Region 6 for NPDES General Permits for Storm Water Discharges from Construction Activities. The CAP Program adheres to the provisions of the CWA (33 USC §§ 1251 et seq., as amended by the Water Quality Act of 1987, P.L. 100-4).

Construction activity SWPPPs are developed for specific construction projects that are greater than 1 acre and a NOI is submitted to EPA Region 6. Certain construction activities, including soil-disturbing activities at Sites, are covered under the Laboratory's common plan of development, and an addendum to the Remediation Services (RS) SWPPP for Remediated Sites is prepared for the individual projects. The following construction projects are covered by ENV-RS SWPPP:

- Hillside 137 Erosion Control Project (Site 01-001(c))
- SWMU 21-018(a)99 (MDA V)
- MDA T
- TA-16 Building 370 D&D
- TA-3 HSR-2 D&D: Bldgs 409, 1635 & 1636
- TA-15 Hollow Complex D&D
- TA-16 Building 540 D&D
- TA-28 Magazines
- TA-15 Buildings 46, 138, 140 & 141
- TA-40 Buildings 4, 19 & 43

Proper implementation of the Construction SWPPPs is documented in the Compliance Inspection Reports. When post-construction stabilization is complete, a Notice of Termination (NOT) is submitted to EPA. The CGP requirements do not included analytical monitoring.

2.1.4 Overlapping Compliance Requirements

Appendix 3 provides the detailed list of 164 Sites that are co-located with Conventional Industrial Sites, and the corresponding facility-specific conventional SWPPP. Management of storm water discharge from the co-located Sites is subject to the requirements of both this SWMU/SWPPP, as well as the facility SWPPP.

Management of storm water discharge from construction activities that occur within the boundary of a Site or a conventional industrial facility is subject to the requirements of the CGP. During the period of time that construction activities are carried out, management of storm water discharges at either Sites or conventional industrial facilities become the responsibility of the NPDES CAP Program. When construction activities are terminated and the construction site is stabilized, the NOT is filed with EPA. Storm water permit responsibilities are transferred back under the FFCA (Sites) or the MSGP (conventional industrial activities). Monitoring may be conducted to demonstrate that the Site and/or facility meet FFCA/AO or MSGP requirements.

2.2 Responsible LANL Organizations

2.2.1 Water Quality and Hydrology Group

ENV-WQH is one of the environmental protection Groups included in the ENV Division. The ENV-WQH Group's programs support the mission and core competencies of the Laboratory and DOE by providing institutional expertise and implementation assistance to Laboratory line organizations regarding compliance with applicable water quality laws and regulations and DOE Orders. The ENV-WQH Group's programs promote and implement activities that continuously protect human health and the environment and protect and improve water quality and water resources management at the Laboratory.

ENV-WQH compliance and monitoring activities include: performing sampling, processing, and analysis of environmental media; providing institutional coordination, integration, and communication of all water resource-related monitoring activities, permits, data, and documentation; interpreting major state and federal water resource laws and regulations; and developing and implementing institutional standards and policy with line organizations. The ENV-WQH group also serves as the Laboratory's focal point for interactions and communication with DOE, EPA, NMED, the United States Army Corps of Engineers (ACE), and external stakeholders, including the public and Indian tribes, on water quality/water resource management issues.

ENV-WQH is responsible for managing and implementing the Storm Water Management Programs outlined in Section 2.1. The management and implementation of these Programs is guided by The WQH Quality Management Plan and Project specific Quality Assurance Project Plans (QAPP), the FFCA/AO is guided by the FFCA QAPP. The FFCA QAPP contains the Data Quality Objectives (DQO), analytical methods, and decision criteria for FFCA implementation. Under these programs, ENV-WQH executes its responsibility for ensuring compliance with the requirements of the FFCA/AO, including:

- Preparation and submittal of the NPDES Individual Storm Water Permit Application.
- Preparation of and annual updates to this SWMU/SWPPP.
- Preparation of and annual updates to the SWMP .
- Preparation and submittal of monthly, quarterly, and annual reports to EPA Region 6 and NMED SWQB.
- Performing sampling, processing, and analysis of storm water runoff samples to meet requirements for Site-specific and watershed scale monitoring.
- Evaluating analytical results and impacts to the environment.
- Implementing BMPs and corrective actions as required on a Site-specific and watershed-scale basis.
- Maintaining structural control BMPs at Sites and watersheds.
- Provide recommendations to ENV-RS when storm water monitoring data suggest remedial action is required.

ENV-WQH executes its responsibility for ensuring compliance with the requirements of the MSGP through the following activities:

- Preparation and submittal of the NPDES MSGP re-application.
- Preparation of and updates to this SWMU/SWPPP.
- Performing sampling, processing, and analysis of storm water runoff samples to meet requirements for benchmark pollutant monitoring.
- Implementing the requirements of this SWMU/SWPPP.
- Adhering to the reporting requirements in the MSGP.

2.2.1.1 LANL Water Quality Database

The ENV-WQH group is responsible for operating and maintaining the Laboratory's Oracle-based Water Quality Database (WQDB). The core components of the WQDB store data about sampling locations for ground water, surface water, storm water runoff, and sediments; environmental sample information; and the results of chemical analyses. The WQDB also includes components designed specifically to meet the data collection and tracking needs of the Storm Water Management Programs for which ENV-WQH is responsible. These components, collectively referred to as the Storm Water Tracking System (SWTS) module, include

- Initial surface water assessment results for Sites
- Surface water re-assessments
- Surface Water Assessment Team (SWAT) evaluation results
- Corrective action implementation and status
- Potential pollutants
- BMP maintenance tasks
- SWPPP information

All analytical results that are available in the WQDB may be viewed at any time at the following website: http://wqdbworld.lanl.gov/.

2.2.2 Remediation Services Project

On March 1, 2005, NMED issued the Consent Order to DOE/UC pursuant to the New Mexico Hazardous Waste Act and the New Mexico Solid Waste Act. The Consent Order contains investigation, corrective actions, cleanup, and other requirements for SWMUs located at the LANL facility. All corrective actions for releases of hazardous waste or hazardous constituents at the Laboratory facility shall be conducted solely under the Consent Order and not under the current Hazardous Waste Facility Permit. The Laboratory's ENV-RS Project is largely responsible for implementing the requirements of and ensuring compliance with the Consent Order.

The purposes of the Consent Order include:

- Fully determine the nature and extent of releases of contaminants at or from Sites located at the Laboratory facility.
- Identify and evaluate, where needed, alternatives for corrective measures, including interim measures, to clean up contaminants in the environment, and to prevent or mitigate the migration of contaminants at or from the Laboratory facility.
- Implement such corrective measures.

The general process for evaluation and remediation of Sites is called the corrective action process, which consists of the steps outlined below.

- Collect and evaluate existing data and information about the Sites.
- Determine what Sites need to be further investigated.
- Develop a plan to collect and evaluate data and information that do not exist about the Site.
- Evaluate if contaminants have been released.
- If a release has occurred, determine the "nature" (the origin, type, and amount of chemicals, either natural or man-made, that are present in the environment) and "extent" (the way a chemical is distributed in the environment) of the contamination.
- Conduct risk assessments - human health and ecological - if necessary.

- Determine and complete appropriate/approved cleanup activities.
- Document all decisions and conduct stakeholder involvement activities.
- Request a 'Certificate of Completion' for the Site. When the corrective actions required by the Consent Order are complete, the Site will either be designated as 'Corrective Action Complete Without Controls' that will not require monitoring and maintenance, or 'Corrective Action Complete With Controls' that will require monitoring and maintenance.
- Implement long-term surveillance and monitoring activities - if necessary.

The Site data and information collected by the ENV-RS Project is used by this SWMU/SWPPP to identify chemicals of potential concern, as discussed further in Section 4.2.3.2.

2.2.3 Facility Management Program

The Facility Management Program formalizes and clarifies the Laboratory's approach to managing its facilities. It integrates operations with engineering, maintenance, health and safety programs, environmental compliance, safeguards and security, and Laboratory policies, procedures, and standards. The Facility Management Program defines at the institutional level the requirements, roles, and responsibilities needed to effectively and efficiently manage Laboratory facilities.

The Laboratory is divided into clearly delineated Facility Management Units (FMUs). Each FMU is under the ownership of a Division Director. Each Facility Manager defines and directs a facility management support team (FMST). The FMST is responsible for ensuring that the requirements of the applicable facility-specific SWPPP(s) are met. When an analytical value greater than wSAL is reported at co-located Sites, the Facility is notified and they are responsible for corrective actions. Appendix 3 lists FMUs responsible for the Laboratory's conventional industrial activity SWPPPs.

2.3 Los Alamos Surface Water Assessment Team (SWAT)

The SWAT consists of personnel from ENV-WQH, the ENV-RS Project, DOE-Los Alamos Site Office (LASO), DOE Oversight Bureau (DOE-OB), NMED-SWQB, and NMED Hazardous Waste Bureau (HWB). The SWAT is tasked with reviewing aspects of the Laboratory's Storm Water Management Program for the MSGP and the FFCA/AO. The SWAT role is to provide a review of storm water issues and to build consensus on recommendations associated with Sites and watersheds. Items of discussion include, but are not limited to:

- Selection of monitoring locations
- Identification of potential pollutants
- Determination of wSALs
- Corrective actions decisions
- BMP effectiveness studies
- Permitting concerns

2.4 Local Watershed Management Efforts

LANL works with and provides information for various local entities engaged in watershed management efforts, as discussed further in this section.

2.4.1 Pajarito Plateau Watershed Partnership

The Pajarito Plateau Watershed Partnership (PPWP) is a regionally-based group of citizens and professionals concerned with issues affecting watersheds on the eastern flank of the Jemez Mountains in northern New Mexico. This area includes Los Alamos, San Ildefonso Pueblo, Española and the surrounding areas. The group studies issues of water quality, erosion, and water quantity.

PPWP is currently engaged in watershed restoration projects in the Cerro Grande burned area with a grant from EPA. Working with the Volunteer Task Force, PPWP is focusing on water quality issues related to post-fire runoff from Water Canyon to Santa Clara Canyon, with an emphasis on the Pueblo and Rendija Watersheds. Additional information is provided at http://www.volunteertaskforce.org/ppwatershed/PPWP%20Links.htm.

2.4.2 The Volunteer Task Force

The Volunteer Task Force (VTF) is a community-based group that provides opportunities for students and adult volunteers to participate in ecological restoration and citizen science projects that benefit fire and drought affected communities in the Southwest. VTF implements on-the-ground projects to renew burned ponderosa pine forest, rejuvenate piñon-juniper woodlands, and provide data to land managers on post-fire recovery.

VTF works with representatives from local organizations, Los Alamos County, the United States Geological Survey, the United States Department of Agriculture Forest Service, the National Park Service, LANL and other federal agencies, and provides students with hands-on service learning projects, including environmental education, ecological restoration, trail restoration and building and post-fire, post-mitigation environmental monitoring. Additional information is provided at http://www.volunteertaskforce.org/VTF%20Home.htm.

2.4.3 Los Alamos County

Los Alamos County participates in the PPWP and VTF. The county is responsible for storm water management from the town site under a CGP. Some Sites under this SWMU/SWPPP are located on county property. Work at these Sites is coordinated through an Access Agreement between Los Alamos County and the Laboratory. Additional information is provided at http://www.lac-nm.us/.

2.4.4 East Jemez Resource Council

The East Jemez Resource Council's primary goal is to maintain and enhance the natural and cultural resources of the East Jemez Mountains so that it may be sustained and appreciated by current and future generations. The Council is a group of natural and cultural resource professionals. Their efforts are geared towards management of natural and cultural resources.

2.4.5 Northern New Mexico Citizens Advisory Board

The Northern New Mexico Citizens' Advisory Board (NNMCAB) is a community advisory group that was chartered in 1997 to provide citizen input to DOE on issues of environmental remediation and cleanup, waste management, monitoring and surveillance, and long-term stewardship at LANL. NNMCAB is dedicated to increasing public involvement, awareness and education relating to environmental remediation and management activities at LANL, and strives to ensure that decisions about LANL include informed advice from the community. Additional information is provided at http://www.nnmcab.org/.

SECTION 3.0

SITE EVALUATION PROCESS

Site characteristics, such as those relating to history of use, potential releases, and surface drainage patterns, vary greatly among the Sites. Consequently, the Sites have varied potential to impact storm water quality, and a graded approach is used to prioritize and implement requirements under the FFCA/AO. The Laboratory's Site evaluation process, illustrated on Figure 3-1, provides a systematic approach to characterization of the Site and a means to assess and appropriately respond to storm water concerns.

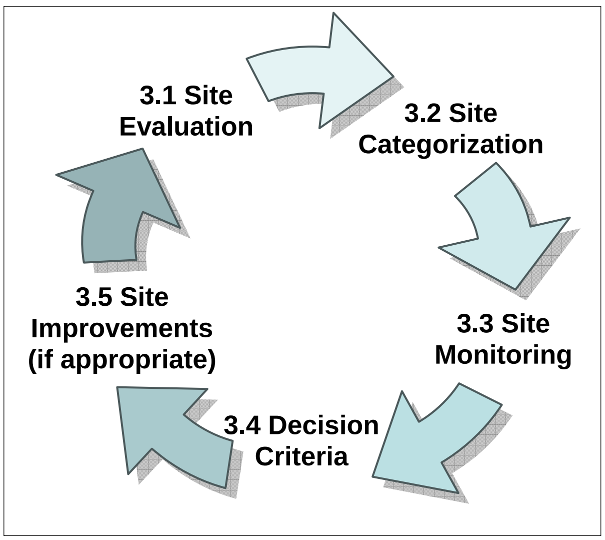


Figure 3-1. Site Evaluation Process

The first step in the process is to perform the Site evaluation (Section 3.1). The output of the evaluation allows the Site to be placed in one of several categories that have specific requirements under the FFCA (Section 3.2). After performing the required Site monitoring (Section 3.3), depending on category (some categories require no monitoring), the FFCA/AO decision criteria are applied to the available storm water runoff data (Section 3.4). If appropriate, Site improvements are made (Section 3.5). The Site evaluation process is continuous for as long as the Site is subject to the requirements of the FFCA/AO. As monitoring continues for the Site, decision criteria are applied to the new available data and may result in placement of the Site in a different category.

3.1 Site Evaluation

There are three main steps to the Site evaluation process:

1. A surface water site assessment is completed to determine the Site-specific erosion matrix potential, which indicates if the Site has a low, medium, or high potential to affect surface water quality.

2. The outputs of the surface water site assessment are evaluated by the SWAT.

3. As data and information about the Site are updated, the Site undergoes re-evaluation.

These steps are described in the following sections.

3.1.1 Surface Water Site Assessment

The LANL standard operating procedure (SOP) *Surface Water Site Assessments* (LANL SOP-2.01) applied the process for determining whether a Site has the potential to adversely affect surface water quality. LANL initiated the Surface Water Site Assessment procedure in 1997, and has applied the process to all Sites.

The Surface Water Site Assessment is carried out in two parts, as described below.

- Part A of SOP-2.01 addresses both current and historic LANL operations that are known to have occurred at the Site, the potential or probable constituents of concern for the Site, and the status of work or actions taken at the Site. Part A uses only existing information and/or data available for the Site of interest. Existing soil and sediment sample data are provided to reflect only current ambient Site field conditions that may impact water quality. Chemicals of potential concern (COPCs) that are present above LANL background/fallout levels (LANL 1998b, LANL 2003a) for inorganics and radionuclides and/or detected organic chemicals are identified for surface soil samples (i.e. top depth less than or equal to 6 inches and bottom depth less than or equal to 18 inches).

- Part B of the procedure involves evaluating the erosion/sediment transport potential at each Site using a pre-developed field assessment form. The information collected is used to rate the erosion potential of each Site using a matrix system. Two-person teams are organized to perform the assessments based on field observations. Erosion potential factors are broken into three categories: 1) Site Setting; 2) Runoff Factors; and 3) Run-on Factors. Once the field assessment is completed, an erosion matrix score is calculated on a scale of 0 to 100, with a score of 0 indicating no erosion potential, and a score of 100 indicating maximum erosion potential.

Examples of the Surface Water Site Assessment forms for Part A and Part B are provided in Appendix 4. The results of the Surface Water Site Assessments are recorded and tracked in the SWTS module of the WQDB.

3.1.2 SWAT Evaluation

The Los Alamos SWAT meets regularly to evaluate completed surface water site assessments. In the past, the erosion matrix scores were used as a prioritization tool to schedule monitoring, stabilization, erosion control, and remediation decisions. For most of the Sites listed in Table 2 of the FFCA/AO, the SWAT completed a pre-FFCA/AO evaluation to assess the Site for potential sediment/contaminant migration and to prioritize potential corrective actions for the Site. The SWAT findings were communicated to the appropriate landlord/owner and LANL management for implementation. The recommendations vary by Site depending on the amount of information that is available. Typical SWAT recommendations include:

- Providing run-on controls
- Providing erosion/sediment migration controls
- Assuring that the site has been finally stabilized
- Removal of debris from a watercourse
- Remediation of the site
- Providing missing relevant information
- Collection of more analytical information

The SWAT evaluations and recommendations are recorded and tracked in the SWTS module of the WQDB.

3.1.3 Site Re-Evaluation

As a Site proceeds through the Site evaluation process illustrated in Figure 3-1, various factors (e.g., analytical monitoring results and/or the implementation of corrective actions) may warrant a re-assessment of the Site. The re-evaluation may require re-assessment of the erosion matrix score, or may be triggered by a change in the regulatory status of a Site.

3.1.3.1 Erosion Matrix Score Re-assessment

Conditions under which a modification or re-evaluation of Surface Water Site Assessment Part B assessment are triggered are summarized in Section 8.4 of SOP-2.01. The following factors may lead to re-assessment of the erosion matrix score.

- Corrective actions and/or restoration activities that take place at the Site.
- Construction activities that take place at the Site.
- Request for document/proposal preparation regarding the Site.
- Site overlooked or initial assessment conducted at the wrong location or Site.
- Change in environmental conditions at the Site.
- Storm water permit changes.
- Verification of stabilization after a closeout inspection.

In 2005, as a quality management measure, LANL initiated a re-assessment using SOP 2.01 Part B for low potential Sites that currently score greater than 35 up to and including 40, and medium potential Sites that currently score between 40 and 45. The re-assessment of the medium potential Sites resulted in the lowering of the majority of the scores. The SWAT decided that re-assessment of the medium potential Sites will be postponed until a strategy is developed to determine the appropriate action for re-scored Sites. These medium potential Sites currently remain on the FFCA monitoring schedule.

The proposed re-assessment effort for 2006 is to re-evaluate all low potential Sites falling within the boundaries of Site Monitoring Areas (SMAs) that had analytical results greater than wSAL in the 2005 monitoring year. The evaluations will focus on part B of SOP 2.01 and will include an assessment of the need for BMPs at the low potential Sites. The results of this effort will be reported in the 2007 annual revision to the SWMU/SWPPP.

3.1.3.2 Change in Site Regulatory Status

In the annual update to the SWMU/SWPPP, DOE/UC will report changes to the regulatory status of Sites, such as the approval of completion for a Site, as well as other changes, such as changes in erosion scores. For instance, in recent correspondence dated January 21, 2005, EPA Region 6 provided the New Mexico Environment Department and DOE/UC a list of AOCs previously approved by EPA for NFA (EPA 2005a). As a consequence, those units have been taken out of this SWMU/SWPPP. A complete list of AOCs and SWMUs identified in the FFCA/AO which have received NFA determinations is provided in the Table 3-1.

Table 3-1. FFCA Sites that have Attained Formal NFA Status

Site ID	Consolidated Unit ID	Date NFA Approved	Reference(s)
00-010(a)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
00-029(b)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
03-009(c)		Removed from HSWA Module VIII on 5/2/2001	NMED 2001a
03-012(a)		Removed from HSWA Module VIII on 12/23/1998	NMED 1998
03-045(i)		Removed from HSWA Module VIII on 5/2/2001	NMED 2001a
03-055(b)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
11-003(a)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
16-010(g)		Removed from HSWA Module VIII on 12/23/1998	NMED 1998
21-027(b)		Removed from HSWA Module VIII on 12/23/1998	NMED 1998
33-010(e)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
35-005(a)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
35-006		Removed from HSWA Module VIII on 05/02/2001	NMED 2001a
42-004		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
46-004(i)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
46-004(j)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
46-004(o)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
53-012(a)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
53-012(b)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
53-012(c)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
53-012(d)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
54-007(c)	54-007(c)-99	Removed from HSWA Module VIII on 09/05/2003	NMED 2003
55-011(a)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
55-011(b)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
55-011(c)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
55-011(e)		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
73-007	73-005-99	Approved by NMED 03/28/2001	NMED 2001b
C-35-004		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
C-35-005		Approved by EPA; reconfirmed by EPA 01/21/2005	EPA 2005a
C-73-005(a)	73-005-99	Approved by NMED 03/28/2001	NMED 2001b
C-73-005(b)	73-005-99	Approved by NMED 03/28/2001	NMED 2001b

3.2 Site Categorization

After completing the Surface Water Site Assessment according to SOP-2.01, each Site is assigned to a category that indicates the relative potential of the Site to adversely impact surface quality. Using the assigned erosion matrix score, each individual Site is categorized as having low, medium, or high potential to impact surface water quality.

Low potential: Sites with an erosion matrix score equal to or less than 40 are considered to have a low potential for constituents in surface water and/or sediment in storm water runoff to migrate off the site to impact surface water quality. The low potential Sites are listed in Appendix 5.

Medium potential: Sites with an erosion matrix score between 40 and 60 are considered to have a medium potential for constituents in surface water and/or sediment in storm water runoff to migrate off the site to impact surface water quality. The medium potential Sites are listed in Appendix 6.

High potential: Sites with an erosion matrix score greater than 60 are considered to have a high potential for constituents in surface water and/or sediment in storm water runoff to migrate off the site to impact surface water quality. The high potential Sites are also listed in Appendix 6.

The Site-specific requirements pursuant to the FFCA/AO and described in this SWMU/SWPPP, including monitoring, decision criteria, and reporting requirements, vary by category, as defined in Table 3-2. These three Site categories are discussed in more detail in the following sections. The medium and high potential categories are discussed together because the FFCA and SWMU/SWPPP requirements are the same.

The ENV-WQH SWTS database system is used to generate a completed Site-Specific SWPPP Form for each medium or high potential Site. Site-specific information and BMP implementation data are tracked using the SWTS. The Site-Specific SWPPP Form provides a description of the potential pollutants and controls implemented at each Site, and is maintained and updated at least annually until a Certificate of Completion is approved for the Site. A blank Site-Specific SWPPP Form is provided in Appendix 4; completed forms are provided in Volume 2 of this SWMU/SWPPP.

Table 3-2. SWMU/SWPPP Requirements by Site Category

Site Category	Number of Sites	SWPPP Requirement by Category					
		Site-Specific SWPPP Form	Structural BMPs	Monitoring	FFCA Decision Criteria	FFCA Corrective Action	FFCA Reporting
Low Potential (<40)	1150	No	No	Watershed-scale	No	No	No
Medium Potential (40-60)	196	Yes	Yes	Site-specific	Yes	Yes	Yes
High Potential (>60)	98	Yes	Yes	Site-specific	Yes	Yes	Yes

Several Site subcategories have been defined that may apply to low, medium or high potential Sites, and are described in Section 3.2.3:

- Sites that meet the requirements for No-Exposure Certification under the MSGP.
- Sites that have undergone final stabilization.
- Burned Sites that were stabilized to mitigate the impact of the Cerro Grande Fire in May 2000.
- Sites co-located with conventional industrial activities.

3.2.1 Low Potential Sites

No immediate action is generally required for low potential Sites, which are listed in Appendix 5. Site-Specific SWPPP Forms are not maintained for the low potential Sites and structural BMPs have not been recommended by the SWAT. The Laboratory does not conduct Site-specific monitoring at the low potential Sites. Watershed-scale monitoring conducted at gage stations located in the major canyon drainages, described in the 2006 SWMP (Attachment 1), is used, in part, to assess the overall impact of the low potential Sites. The decision criteria defined in the FFCA/AO are not applied to low potential Sites, and no Site-specific reporting is required. The low potential Sites will continue, as necessary, to be evaluated for other possible unacceptable environmental risks such as human health and ecological risks by the Laboratory's ENV-RS Project.

3.2.2 Medium and High Potential Sites

Of the approximately 1,440 Sites that are subject to the requirements of this SWMU SWPPP, 294 Sites (~20%) fall into the medium (196 Sites) and high (98 Sites) potential categories. These Sites are listed in Table 2 of the FFCA/AO and Appendix 6 the SWMU/SWPPP, and are subject to specific monitoring, corrective action, and reporting requirements pursuant to the FFCA/AO. Most of the medium and high potential Sites have structural BMPs installed. The FFCA/AO requires Site-specific monitoring and reporting at the medium and high potential Sites. The decision criteria defined in the FFCA/AO are applicable, and may result in corrective action to control the migration of pollutants in storm water runoff from a medium or high potential Site. Implementation of the FFCA/AO corrective action process is detailed in Section 3.4.

3.2.3 Site Subcategories

3.2.3.1 "No-Exposure" Sites

"No-Exposure" Sites is a subcategory of those Sites that meet the requirements for No-Exposure Certification under the MSGP (40 CRF 122.26(g)). No-Exposure Sites are usually located on the mesa tops and typically the following descriptions.

- Buildings and structural facilities
- Buried waste items
- Container storage facilities
- Drop towers
- Floor drains and sumps
- Grease traps
- Incinerators
- Manholes, underground storage tanks, septic tanks

Also, Sites that have been covered by cement or asphalt, or that have had structures constructed on top of them, are candidates for No-Exposure Certification.. Generally, No-Exposure Sites fall into the low potential category.

The following Sites, previously listed as medium or high potential, meet the MSGP definition for "No Exposure".

- 16-001(d)
- 16-006(g)
- 42-002(a)
- 46-004(a)

3.2.3.2 Stabilized Sites

Several low potential Sites have been restored and/or are in a stable condition, and have either undergone remediation by the ENV-RS Project or have had structural BMPs installed based on SWAT recommendations.

These low potential Sites have been inspected and maintained for an adequate period of time to assure that final stabilization has occurred (generally over a 1-year period). Final stabilization is defined as: all soil disturbing activities at the Site have been completed and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed. ENV-WQH personnel in coordination with the SWAT and NMED will make final determinations regarding site stabilization status.

3.2.3.3 Stabilized Burned Sites

The Cerro Grande Fire in May 2000 affected approximately 315 Sites to some extent. Of the 315 Sites located within the burned area, 108 Sites are listed in Table 2 of the FFCA. The SWAT recommended installation of BMPs at 91 Sites to minimize impacts from storm water runoff (LANL 2000a, LANL 2000b). BMPs for these Sites included geotextile matting, rock check dams, log-silt barriers, reseeding and mulching, and straw wattles. The Sites have achieved final stabilization from impacts as a result of the Cerro Grande fire.

3.2.3.4 Co-located Sites

Appendix 3 provides the detailed list of 164 Sites that are co-located with Conventional Industrial Sites, and the corresponding facility-specific conventional SWPPP. Management of storm water discharge from the co-located Sites is subject to the requirements of both this SWMU/SWPPP, as well as the conventional SWPPP. The co-located Sites - which fall into low, medium, and high categories - are subject to the monitoring requirements of the MSGP, including monitoring for Sector K benchmark pollutants. Medium and high potential co-located Sites are also subject to the monitoring requirements of the FFCA/AO, which will usually be performed at the conventional site gage stations. When an analytical value greater than wSAL is reported at co-located Sites, the Facility is notified and they are responsible for corrective actions at the Sites covered by their Facilities conventional SWPPP.

3.3 Site Monitoring

Analytical monitoring of storm water discharges from Sites is governed by requirements set forth in the FFCA/AO and in the MSGP. Discharges from low potential Sites are captured through watershed-scale gage station monitoring. Appendix 7 provides a list of Sites located upstream from gage stations. Additional monitoring is not conducted specifically for low potential Sites because there is a low potential for constituents in storm water runoff and/or sediment in storm water runoff to migrate off the Site. The watershed-scale monitoring is described in detail in the 2006 SWMP (Attachment 1).

Site-specific storm water runoff monitoring is conducted for all medium and high potential Sites at SMA sampling locations, using either automated samplers or single stage samplers. The FFCA/AO requires that monitoring be initiated at each of the 294 medium and high potential Sites over a four-year period starting in 2004. Site monitoring will be conducted during this calendar year for those Sites listed in the 2006 SWMP (Attachment 1).

In order to conform to the FFCA/AO and the compliance schedule, four samples are to be collected during each calendar year, following precipitation events that produce a discharge in volumes large enough to allow for sample collection. One of the four samples may be collected during snowmelt runoff. A Surface Water Sampling Field Sheet, provided in Appendix 4, is completed every time a sample is collected from a gage station or SMA monitoring station. Telemetry at gage stations is utilized to alert ENV-WQH staff of a storm event. Once alerted, staff collects samples from the gage stations and surrounding SMA sampling locations. Sufficient volume will be collected to provide for samples for each required analytical suite. More information on monitoring is provided in Section 4.7.

The FFCA/AO is based on the analytical monitoring requirements in the MSGP which allows a grab sample, defined as a discrete, individual sample taken within a short period of time, usually less than 15 minutes. The MSGP requires that the grab samples be collected within the first 30 minutes of flow from the discharge resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (i.e., greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding measurable storm did not yield a measurable discharge, or if the facility can document that less than a 72-hour interval is representative for local storm events during the sampling period (65 FR 64746, Section 5.2.2).

3.4 Decision Criteria

Within the FFCA/AO, established decision criteria are provided that direct the need and extent of future monitoring at the SMA sampling location for a Site. Based on analytical results, Sites may be required to undergo continued monitoring at the current rate, corrective action implementation, or reduced monitoring. Analytical monitoring data will be made available to the SWAT within 30 days from the date that data become available in the WQDB. The SWAT will review and evaluate the monitoring data and apply the decision rules outlined in the following sections. The FFCA/AO decision criteria are applied to Site monitoring results to determine if Site improvements are necessary, and to determine additional monitoring requirements.

The following subsections describe how decision criteria are implemented based on sample results.

3.4.1 Storm Water Screening Action Levels

The purpose of the storm water monitoring mandated by the FFCA/AO is to determine if there is a release or transport of a pollutant from a Site into surface water that could cause or contribute to a violation of applicable surface water quality criteria, including the antidegradation policy, or an applicable waste load allocation. The determination of whether Site releases could cause or contribute to a contravention of applicable water quality criteria will be made by comparison of the concentration of a chemical in storm water runoff with a LANL-specific wSAL.

Derivation of the wSALs is presented in detail in Appendix 8. Beginning in the 2006, two different types of wSALs have been derived and will be applied during the 2006 monitoring year: Perennial wSALs and Ephemeral wSALs. Both types of wSALs may be based upon an applicable State of New Mexico water quality criterion or MSGP Benchmark value for Sector K (Hazardous Waste Treatment, Storage, or Disposal Facilities, including SWMUs).

The Ephemeral wSALs are applied to FFCA/AO monitoring locations in classified ephemeral and intermittent segments. The designated uses for classified ephemeral and intermittent segments at the Laboratory, including but not limited to: Mortandad canyon, Cañada del Buey, Ancho canyon, Chaquehui canyon, Indio canyon, Fence canyon, Potrillo canyon and portions of Cañon de Valle, Los Alamos canyon, Sandia canyon, Pajarito canyon and Water canyon, are livestock watering, wildlife habitat, limited aquatic life, and secondary contact as adopted by the New Mexico Water Quality Control Commission (NMWQCC) and set forth at New Mexico Administrative Code (NMAC) 20.6.4, *State of New Mexico Standards for Interstate and Intrastate Surface Waters* (New Mexico 2006). (Note: the revised NMWQCC stream standards are currently under appeal.)

The Perennial wSALs are applied to FFCA/AO monitoring locations in classified perennial segments. The designated uses for the four classified perennial segments at the Laboratory, including: Cañon deValle from Los Alamos national laboratory (LANL) stream gage E256 upstream to Burning Ground spring, Sandia canyon from Sigma canyon upstream to LANL NPDES outfall 001, Pajarito canyon from Arroyo de La Delfe upstream into Starmers gulch and Starmers spring and Water canyon from Area-A canyon upstream to State Route 501, are coldwater aquatic life, livestock watering, wildlife habitat and secondary contact.

The wSALs for each pollutant are determined in stepwise fashion by evaluating, in the following order, the applicable designated uses, applicable NMWQCC water quality criteria for those designated uses, and EPA MSGP parameter benchmark values. In 2004, water quality data were compared to wSALs derived from 2002 NMWQCC criteria (New Mexico, 2002). In 2006, LANL updated the wSALs to reflect the changes in the NMWQCC criteria that became effective on July 17, 2005. The derived Ephemeral wSALs and Perennial wSALs are summarized in Table 3-3.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Aluminum	7429-90-5	750	Acute Aquatic Life standard for dissolved concentration.	87	Chronic Aquatic Life standard for dissolved concentration.
Ammonia (as N)	7664-41-7	39,100	Acute Aquatic Life standard for ammonia concentration in an unfiltered sample.	8,190	Chronic Aquatic Life standard for ammonia concentration in an unfiltered sample.
Antimony	7440-36-0	640	Persistent Human Health standard for dissolved concentration.	640	Persistent Human Health standard for dissolved concentration.
Arsenic	7440-38-2	9.0	Persistent Human Health standard for dissolved concentration.	9.0	Persistent Human Health standard for dissolved concentration.
Beryllium	7440-41-7	Report	Aquatic Life standard for beryllium withdrawn.	Report	Aquatic Life standard for beryllium withdrawn.
Boron	7440-42-8	5,000	Livestock Watering standard for dissolved concentration.	5,000	Livestock Watering standard for dissolved concentration.
Cadmium	7440-43-9	2.1	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	0.22	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Chemical oxygen demand	--	120,000	MSGP benchmark monitoring cutoff concentration for Sector K.	120,000	MSGP benchmark monitoring cutoff concentration for Sector K.
Chlorine residual	7782-50-5	11	Wildlife Habitat standard for residual chlorine in an unfiltered sample.	11	Wildlife Habitat standard for residual chlorine in an unfiltered sample.
Chromium	18540-29-9	580	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	77.0	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Cobalt	7440-48-4	1,000	Livestock Watering standard for dissolved concentration.	1,000	Livestock Watering standard for dissolved concentration.
Copper	7440-50-8	14	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	9.4	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Cyanide, total	57-12-5	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.
Cyanide, weak acid dissociable	57-12-5	5.2	Wildlife Habitat standard for weak acid dissociable cyanide in an unfiltered sample.	5.2	Wildlife Habitat and Chronic Aquatic Life standard for weak acid dissociable cyanide in an unfiltered sample.
Lead	7439-92-1	81.7	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	3.2	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Magnesium	7439-95-4	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.
Mercury	7439-97-6	0.77	Wildlife Habitat standard for mercury in an unfiltered sample.	0.77	Wildlife Habitat standard for mercury in an unfiltered sample.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Nickel	7440-02-0	469	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	52.2	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Nitrate + Nitrite (as N)	--	132,000	Livestock Watering standard for dissolved concentration.	132,000	Livestock Watering standard for dissolved concentration.
Perchlorate	14797-73-0	Report	Results for perchlorate anion will be reported only.	Report	Results for perchlorate anion will be reported only.
Selenium	7782-49-2	5.0	Wildlife Habitat standard for total recoverable selenium.	5.0	Wildlife Habitat and Chronic Aquatic Life standard for total recoverable selenium.
Silver	7440-22-4	3.8	Acute Aquatic Life standard for dissolved concentration converted to total concentration using EPA acute conversion factor.	3.8	Acute Aquatic Life standard for dissolved concentration converted to total concentration using EPA acute conversion factor.
Thallium	7440-28-0	6.3	Persistent Human Health standard for dissolved concentration.	6.3	Persistent Human Health standard for dissolved concentration.
Vanadium, dissolved	7440-62-2	100	Livestock Watering standard for dissolved concentration.	100	Livestock Watering standard for dissolved concentration.
Zinc, dissolved	7440-66-6	120	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	120	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.
Aldrin	309-00-2	0.00050	Persistent Human Health standard for concentration in an unfiltered sample.	0.00050	Persistent Human Health standard for concentration in an unfiltered sample.
Benzo(a)pyrene	50-32-8	0.18	Persistent Human Health standard for concentration in an unfiltered sample.	0.18	Persistent Human Health standard for concentration in an unfiltered sample.
Gamma-BHC (Lindane)	58-89-9	0.95	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.95	Acute Aquatic Life standard for concentration in an unfiltered sample.
Chlordane	57-74-9	0.0081	Persistent Human Health standard for concentration in an unfiltered sample.	0.0043	Chronic Aquatic Life standard for concentration in an unfiltered sample.
4,4'-DDT and derivatives	50-29-3	0.001	Wildlife Habitat standard for concentration in an unfiltered sample.	0.001	Wildlife Habitat standard for concentration in an unfiltered sample.
Dieldrin	60-57-1	0.00054	Persistent Human Health standard for concentration in an unfiltered sample.	0.00054	Persistent Human Health standard for concentration in an unfiltered sample.
2,3,7,8-TCDD Dioxin	1746-01-6	5.10E-08	Persistent Human Health standard for concentration in an unfiltered sample.	5.10E-08	Persistent Human Health standard for concentration in an unfiltered sample.
alpha-Endosulfan	959-98-8	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.056	Chronic Aquatic Life standard for concentration in an unfiltered sample.
beta-Endosulfan	33213-65-9	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.056	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Endrin	72-20-8	0.086	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.036	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Heptachlor	76-44-8	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0038	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Heptachlor epoxide	1024-57-3	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0038	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Hexachlorobenzene	118-74-1	0.0029	Persistent Human Health standard for concentration in an unfiltered sample.	0.0029	Persistent Human Health standard for concentration in an unfiltered sample.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
PCBs	1336-36-3	0.00064	Persistent Human Health standard for concentration in an unfiltered sample.	0.00064	Persistent Human Health standard for concentration in an unfiltered sample.
Pentachlorophenol	87-86-5	19	Acute Aquatic Life standard for concentration in an unfiltered sample.	15	Chronic Aquatic Life standard for concentration in an unfiltered sample.
RDX	121-82-4	200	Effluent limitation set forth in NPDES Permit No. NM0028355.	200	Effluent limitation set forth in NPDES Permit No. NM0028355 (EPA 2001).
Tetrachloroethylene	127-18-4	33	Persistent Human Health standard for concentration in an unfiltered sample.	33	Persistent Human Health standard for concentration in an unfiltered sample.
Toxaphene	8001-35-2	0.73	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0002	Chronic Aquatic Life standard for concentration in an unfiltered sample.
2,4,6-Trinitrotoluene	118-96-7	20	Effluent limitation set forth in NPDES Permit No. NM0028355.	20	Effluent limitation set forth in NPDES Permit No. NM0028355 (EPA 2001).
Ra-226 + Ra-228	--	30 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	30 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.
Tritium	10028-17-8	20,000 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	20,000 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.
Adjusted gross alpha	--	15 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	15 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.
Acenaphthene	83-32-9			990	Human Health standard for concentration in an unfiltered sample.
Acrolein	107-02-8			290	Human Health standard for concentration in an unfiltered sample.
Acrylonitrile	107-13-1			2.5	Human Health standard for concentration in an unfiltered sample.
Anthracene	120-12-7			40,000	Human Health standard for concentration in an unfiltered sample.
Benzene	71-43-2			510	Human Health standard for concentration in an unfiltered sample.
Benzidine	92-87-5			0.0020	Human Health standard for concentration in an unfiltered sample.
Benzo(a)anthracene	56-55-3			0.18	Human Health standard for concentration in an unfiltered sample.
Benzo(b)fluoranthene	205-99-2			0.18	Human Health standard for concentration in an unfiltered sample.
Benzo(k)fluoranthene	207-08-9			0.18	Human Health standard for concentration in an unfiltered sample.
BHC[alpha-]	319-84-6			0.049	Human Health standard for concentration in an unfiltered sample.
BHC[beta-]	319-85-7			0.17	Human Health standard for concentration in an unfiltered sample.
Bis(2-chloroethyl)ether	111-44-4			5.3	Human Health standard for concentration in an unfiltered sample.
Bis(2-chloroisopropyl)ether	108-60-1			65,000	Human Health standard for concentration in an unfiltered sample.
Bis(2-ethylhexyl)phthalate	117-81-7			22	Human Health standard for concentration in an unfiltered sample.
Bromoform	75-25-2			1,400	Human Health standard for concentration in an unfiltered sample.
Butylbenzylphthalate	85-68-7			1,900	Human Health standard for concentration in an unfiltered sample.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Carbon Tetrachloride	56-23-5			16	Human Health standard for concentration in an unfiltered sample.
Chlorobenzene	108-90-7			21,000	Human Health standard for concentration in an unfiltered sample.
Chlorodibromomethane	124-48-1			130	Human Health standard for concentration in an unfiltered sample.
Chloroform	67-66-3			4,700	Human Health standard for concentration in an unfiltered sample.
Chloronaphthalene[2-]	91-58-7			1,600	Human Health standard for concentration in an unfiltered sample.
Chlorophenol[2-]	95-57-8			150	Human Health standard for concentration in an unfiltered sample.
Chrysene	218-01-9			0.18	Human Health standard for concentration in an unfiltered sample.
Dibenz(a,h)anthracene	53-70-3			0.18	Human Health standard for concentration in an unfiltered sample.
Dibutyl phthalate	84-74-2			4,500	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,2-]	95-50-1			17,000	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,3-]	541-73-1			960	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,4-]	106-46-7			2,600	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzidine[3,3'-]	91-94-1			0.28	Human Health standard for concentration in an unfiltered sample.
Dichlorobromomethane	75-27-4			170	Human Health standard for concentration in an unfiltered sample.
Dichloroethane[1,2-]	107-06-2			370	Human Health standard for concentration in an unfiltered sample.
Dichloroethylene[1,1-]	75-35-4			32	Human Health standard for concentration in an unfiltered sample.
Dichlorophenol[2,4-]	120-83-2			290	Human Health standard for concentration in an unfiltered sample.
Dichloropropane[1,2-]	78-87-5			150	Human Health standard for concentration in an unfiltered sample.
Dichloropropene[1,3-]	542-75-6			1,700	Human Health standard for concentration in an unfiltered sample.
Diethylphthalate	84-66-2			44,000	Human Health standard for concentration in an unfiltered sample.
Dimethyl Phthalate	131-11-3			1,100,000	Human Health standard for concentration in an unfiltered sample.
Dimethylphenol[2,4-]	105-67-9			850	Human Health standard for concentration in an unfiltered sample.
Dinitrophenol[2,4-]	51-28-5			5,300	Human Health standard for concentration in an unfiltered sample.
Dinitrotoluene[2,4-]	121-14-2			34	Human Health standard for concentration in an unfiltered sample.
Diphenylhydrazine[1,2-]	122-66-7			2	Human Health standard for concentration in an unfiltered sample.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Endosulfan Sulfate	1031-07-8			89	Human Health standard for concentration in an unfiltered sample.
Endrin	72-20-8			0.81	Human Health standard for concentration in an unfiltered sample.
Endrin Aldehyde	7421-93-4			0.3	Human Health standard for concentration in an unfiltered sample.
Ethylbenzene	100-41-4			29,000	Human Health standard for concentration in an unfiltered sample.
Fluoranthene	206-44-0			140	Human Health standard for concentration in an unfiltered sample.
Fluorene	86-73-7			5,300	Human Health standard for concentration in an unfiltered sample.
Hexachlorobutadiene	87-68-3			180	Human Health standard for concentration in an unfiltered sample.
Hexachlorocyclopentadiene	77-47-4			17,000	Human Health standard for concentration in an unfiltered sample.
Hexachloroethane	67-72-1			33	Human Health standard for concentration in an unfiltered sample.
Indeno(1,2,3-cd)pyrene	193-39-5			0.18	Human Health standard for concentration in an unfiltered sample.
Isophorone	78-59-1			9,600	Human Health standard for concentration in an unfiltered sample.
Methyl bromide	74-83-9			1,500	Human Health standard for concentration in an unfiltered sample.
Methy-4,6-dinitrophenol[2-]	534-52-1			280	Human Health standard for concentration in an unfiltered sample.
Methylene Chloride	75-09-2			5,900	Human Health standard for concentration in an unfiltered sample.
Nitrobenzene	98-95-3			690	Human Health standard for concentration in an unfiltered sample.
Nitrosodimethylamine[N-]	62-75-9			30	Human Health standard for concentration in an unfiltered sample.
Nitroso-di-n-propylamine[N-]	621-64-7			5.1	Human Health standard for concentration in an unfiltered sample.
Nitrosodiphenylamine[N-]	86-30-6			60	Human Health standard for concentration in an unfiltered sample.
Pentachlorophenol	87-86-5			30	Human Health standard for concentration in an unfiltered sample.
Phenol	108-95-2			1,700,000	Human Health standard for concentration in an unfiltered sample.
Pyrene	129-00-0			4,000	Human Health standard for concentration in an unfiltered sample.
Tetrachloroethane[1,1,2,2-]	79-34-5			40	Human Health standard for concentration in an unfiltered sample.
Tetrachloroethylene	127-18-4			33	Human Health standard for concentration in an unfiltered sample.
Toluene	108-88-3			200,000	Human Health standard for concentration in an unfiltered sample.
Toxaphene	8001-35-2			0.0028	Human Health standard for concentration in an unfiltered sample.

Table 3-3. Summary of LANL Storm Water Screening Action Levels

Pollutant (total, unless indicated)	CAS Number	FFCA 2006 Ephemeral wSAL Values		FFCA 2006 Perennial wSAL Values	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Trichlorobenzene[1,2,4-]	120-82-1			940	Human Health standard for concentration in an unfiltered sample.
Trichloroethane[1,1,2-]	79-00-5			160	Human Health standard for concentration in an unfiltered sample.
Trichloroethylene	79-01-6			300	Human Health standard for concentration in an unfiltered sample.
Trichlorophenol[2,4,6-]	88-06-2			24	Human Health standard for concentration in an unfiltered sample.
Vinyl Chloride	75-01-4			5,300	Human Health standard for concentration in an unfiltered sample.

This table is based on *New Mexico Standards for Interstate and Intrastate Surface Waters,* 20.6.4 NMAC, effective July 17, 2005.

CAS = chemical abstracts service
µg/L = micrograms per liter
PCBs = polychlorinated biphenyl [compounds]
pCi/L = picocuries per liter
Ra = radium
RDX = royal demolition explosive
wSAL = storm water screening action level

Exceedances of wSALs are not necessarily violations of water quality criteria. The wSALs are to be used as a screening tool to assess whether potential ecological or human health impacts may develop due to the concentrations of various chemicals discovered in storm water runoff; and/or to assess the performance of best management practices (BMPs) that are implemented at Laboratory Sites to control the release and transport of contaminants.

3.4.2 Has Release and/or Transport of a Pollutant Occurred?

The decision of whether a release or transport of a pollutant from a Site has occurred is made by comparing analytical monitoring data with wSALs listed in Table 3-3. For each analyte, and at each monitoring station, the analytical data collected since July 1, 2004, are evaluated over both a monthly and a quarterly monitoring period, following the decision logic illustrated in Figure 3-2.

The number of single grab results collected during (1) the previous month and (2) during the current three-month period – for both filtered (dissolved) and unfiltered (total recoverable (TR)) samples – available for the analyte at each monitoring station is determined. The following comparisons are performed and based on the outcome, either the corrective process described in Section 3.4.3 will be initiated, or the monitoring station will be evaluated for continued monitoring following the process described in Section 3.4.4.

A. If only one unfiltered grab sample is collected in a three-month period and the analytical result is greater than the wSAL, Then DOE will identify the source and implement corrective actions.

B. If more than one, but less than four unfiltered grab samples are collected in a three month period, and the analytical results of any one sample exceeds the wSAL, the DOE will identify the source and implement corrective actions.

C. If four or more unfiltered samples are collected during a three-month period, and the analytical result of only one sample is greater than the wSAL, then DOE will, at a minimum, examine the Site, and make repairs if necessary. No additional corrective action is required at that time.

If corrective actions are required at any SWMU or AOC, then monitoring shall continue for a minimum of one additional year.

3.4.3 Corrective Action Process

If corrective action is warranted as the outcome of evaluating the decision rules for release and/or transport of a pollutant, the following process will be initiated within 30 days of receipt of the monitoring results. For the purposes of SWMU/SWPPP, corrective action may include: installation, re-examination, repair and/or modification of BMPs; or source identification to control or eliminate the source or migration of pollutants or contaminants. The Corrective Action Process is described as follows:

1. Validate data based on Laboratory quality assurance (QA)/quality control (QC) protocol.

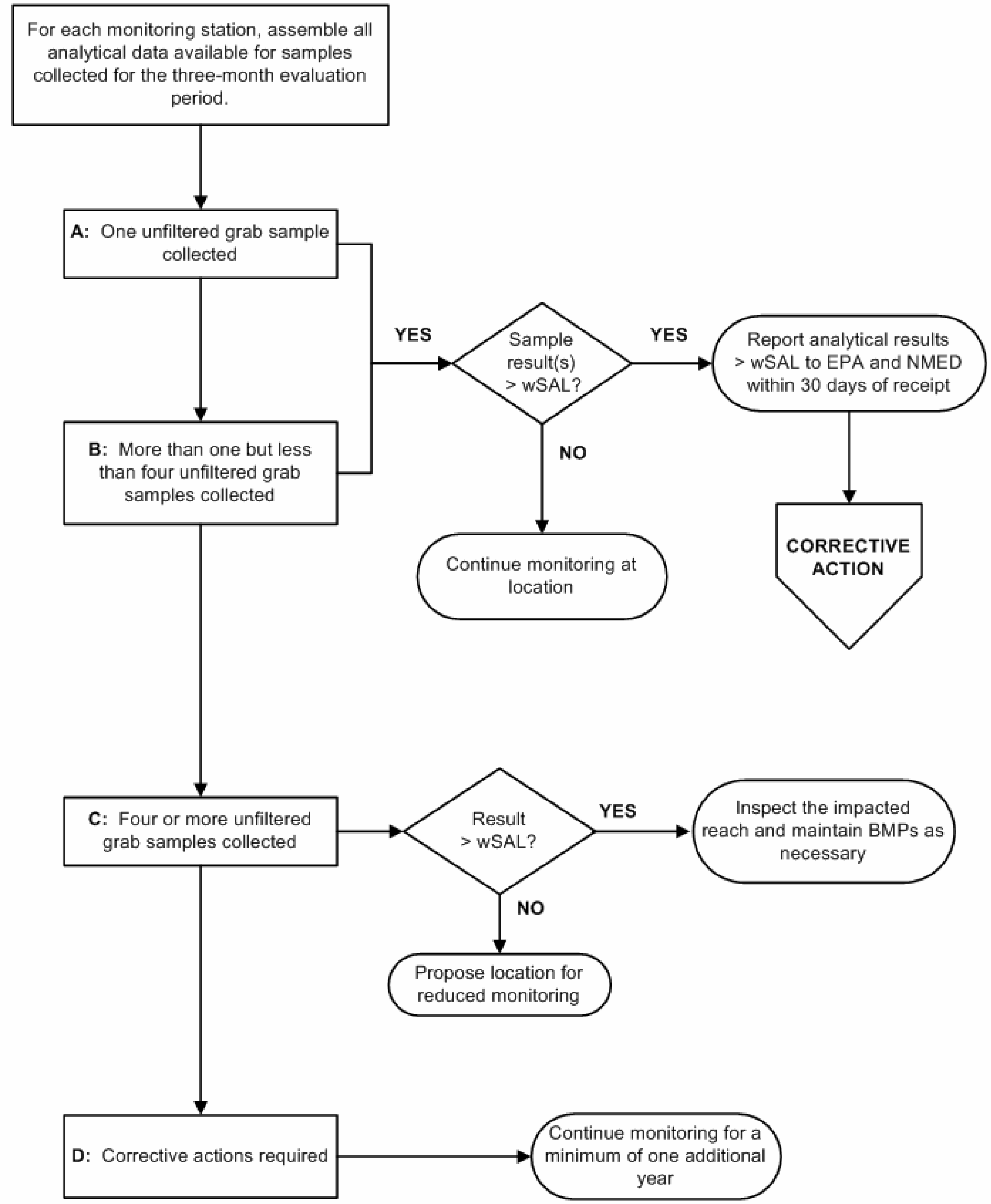
2. Identify potential source term(s) for the pollutant.

   - Available site history information and soil sample data for the Site is evaluated.
   - Potential contamination sources from storm water run-on onto the Site are considered.
   - For Sites potentially impacted by non-Laboratory source terms (e.g., adjacent to Los Alamos County), evaluate potential non-Laboratory sources of the pollutant.

3. Determine if the presence of the pollutant is attributable in whole or part to Laboratory operations.

   - Information gathered regarding potential source terms, together with the relevant monitoring data, will be provided to EPA, NMED, and the SWAT for review and comment. The SWAT will make recommendations to EPA regarding pollutant sources using an established and published regulatory framework and after review of all relevant technical data.

Figure 3-2. Evaluation of Release and/or Transport of a Pollutant from a Site



TR = total recoverable

- The SWAT may use existing Laboratory data sets for naturally-occurring background levels of inorganic and/or fallout concentrations of radionuclide constituents in mesa-top soils (LANL 1998b) and canyon sediments (LANL 2003a) to inform the decision. If the SWAT determines that additional background or baseline sampling is appropriate, a sampling plan will be developed and provided to NMED.
- If it is determined that the presence of the pollutant is not attributable to Laboratory operations, the corrective action process may be re-evaluated and the monitoring station will be evaluated for continued monitoring following the process outlined in Section 3.4.4.

4. Evaluate the scope and priority for corrective action implementation.

- Based on the results of the assessment of the cause of wSAL exceedances, the scope of corrective actions will be evaluated by the SWAT.
- Corrective action conducted within the scope of this SWMU/SWPPP is implemented as part of the CWA NPDES compliance program established by the FFCA/AO. Actions implemented on a Site-specific basis under the CWA may include reexamination of existing BMPs, installation of BMPs, and modification or repair of BMPs. BMPs include controls such as silt fences, rock check dams, or run-on diversion.
- NMED may require corrective measures at any Site if NMED determines, based on surface water monitoring data combined with other relevant information, that there has been a release of contaminants into the environment at or from the Site and that corrective action is necessary to protect human health or the environment from such a release.
- The SWAT will prioritize locations for corrective action, taking into consideration the ratio of the measured pollutant concentrations to the wSALs; the number of pollutants observed; and the frequency with which wSALs are exceeded.

5. Prepare and implement corrective action plan.

- The impacted Site and any in-situ BMPs will undergo inspection by the SWAT. As deemed necessary, Sites may undergo re-evaluation according to SOP-2.01 (LANL 2004a).
- Clearly visible problems shall be documented and a corrective action plan developed to add or improve BMPs. Best professional judgment will be applied to develop technology-based BMPs on a case-by-case basis using all reasonably available and relevant data.
- BMP installation may follow a phased approach combined with continued monitoring to assess effectiveness. Each successive monitoring result that is greater than wSAL shall require additional corrective actions.
- If no problems are evident based on a visual inspection, then a focused investigation of additional sampling, including background sampling where appropriate, may be conducted. In the interim, enhanced run-on controls (e.g., re-grading to divert surface flow elsewhere, or detention basin installation) will be implemented, as the SWAT deems appropriate.

6. Monitor corrective action performance.

- After corrective action has been implemented, the Laboratory will continue to collect monitoring data at the impacted location for a minimum of one additional year.

3.4.4 Monitoring Reduction Process

The FFCA/AO stipulates that after four samples are collected at a particular monitoring station, the data shall be evaluated and changes to this SWMU/SWPPP proposed, as appropriate, to EPA for approval in the annual update submitted by March 31st following the monitoring period. The number and frequency of constituents monitored at a Site may be reduced or discontinued following the decision logic outlined in Figure 3-3. Should one or more of the Figure 3-3 criteria be met, LANL may request: a reduction in the constituents monitored at the site; a reduction in monitoring frequency at the SMA sampling location for a Site, a combination of reduction of constituents monitored and monitoring frequency, or, discontinuation of monitoring for a Site.

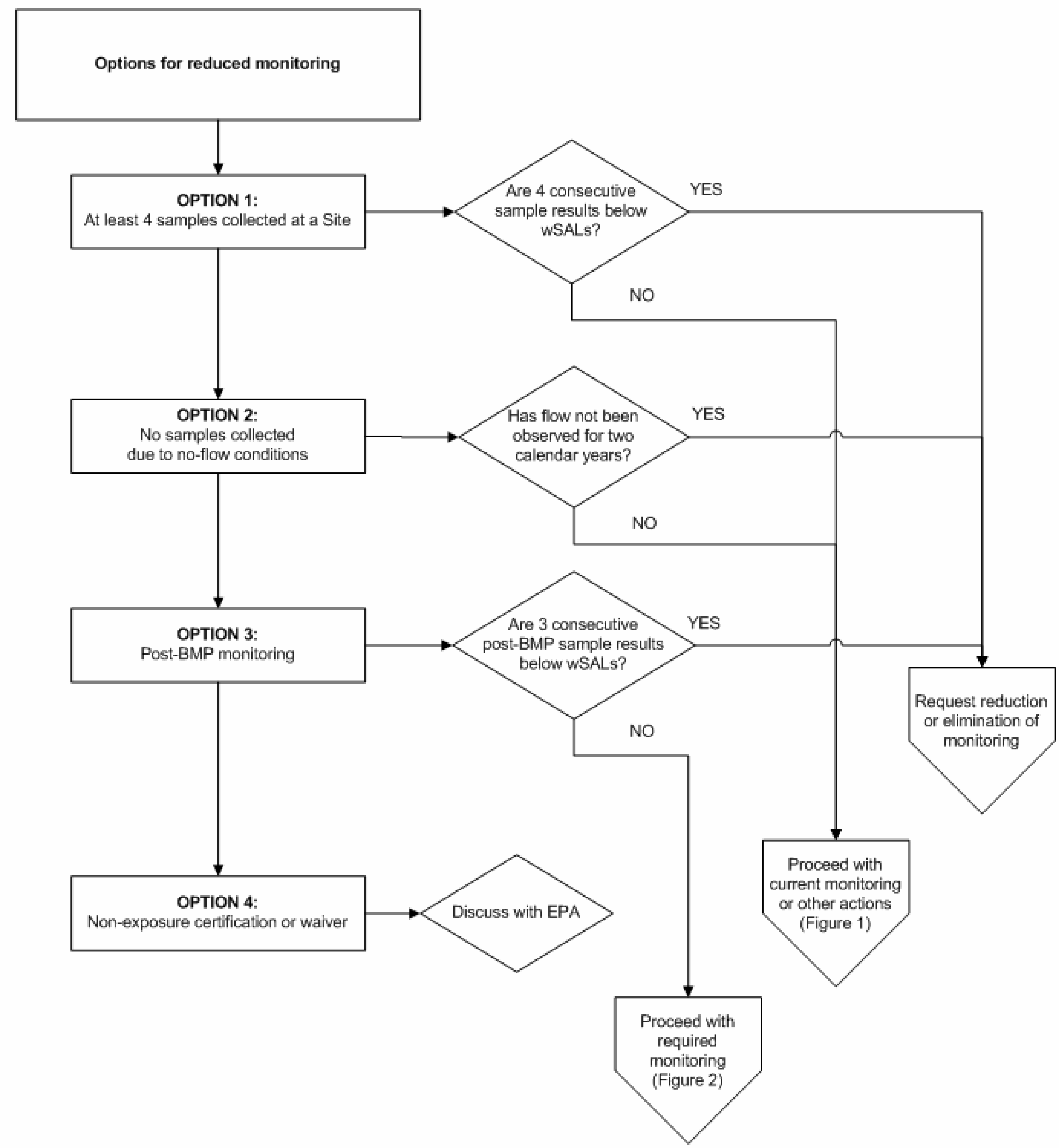
- If four samples have been collected at the Site monitoring station and the measured analytical results are less than wSAL, then the Laboratory will recommend that the analytical monitoring requirements of the FFCA/AO be reduced or discontinued.
- If flow is observed at a Site monitoring station during one year and no sample is collected, the sample trip settings and/or the sample suction line height above the streambed shall be re-evaluated and adjusted, if possible, to collect water.
- If no flow is observed at a Site for 8 consecutive quarters, and the lack of documented flow is not due to a mechanical error or lack of local precipitation, then the Laboratory may recommend that the sampling frequency be reduced.

Additionally, when the monitoring results indicate that a corrective action has successfully mitigated pollutant release and/or transport, as evidenced by meeting all other FFCA/AO criteria, the Laboratory will recommend that the analytical monitoring requirements of the FFCA/AO be reduced or discontinued. The proposed monitoring requirements for 2006, revised based upon the criteria detailed above, can be found in the 2006 SWMP (Attachment 1).

3.5 Site Improvements

Site improvements are made as proactive measures and corrective action responses. Section 3.4.3 provides the process for corrective actions to be followed based on monitoring results for Sites. If appropriate, corrective actions may include: installation, re-examination, repair and/or modification of BMPs. BMP installation, maintenance, and inspection are tracked in the SWTS module of the WQDB. Details on Site improvements made on a Site Specific and watershed scale can be found in Attachment 3.

Figure 3-3. Monitoring Reduction Process



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SECTION 4.0
SWPPP IMPLEMENTATION

Section 4 provides information to fulfill the specific FFCA/AO and MSGP regulatory requirements for the over 1,440 Sites at LANL covered under this SWMU/SWPPP. Based on the Surface Water Site Assessment Part B erosion matrix score, as discussed in Section 3.1.1, these Sites are categorized as low, medium or high potential Sites.

Site-Specific SWPPP Forms supplement this SWMU/SWPPP by providing the MSGP-required specific information for each medium or high potential Site. Information provided on each Site-Specific SWPPP Form includes:

- An SMA map showing Site boundaries, storm water flow direction, structural controls, surface water bodies, significant materials/potential pollutant sources, major spills and leaks, waste disposal areas, equipment storage areas, outfalls, drainage basin outlines, non-storm water discharges, location and source of run-on containing significant quantities of pollutants, and Site features
- SWPPP Pollution Prevention Team members
- Receiving waters
- Industrial activities at the site
- Potential pollutant sources
- Spills and leaks
- Sampling data
- Storm water controls

A blank form is provided in Appendix 4, and the completed Site-Specific SWPPP Forms are provided in Volume 2 of this SWMU/SWPPP. The Forms are updated at least annually, or as needed.

4.1 Pollution Prevention Team

To facilitate the implementation, maintenance, and revision of this SWMU/SWPPP, a Pollution Prevention Team (Team) has been established for each Site. Generally, Teams consist of members from the FMU responsible for the geographic area where the Site is located, members from the ENV- RS Project and ENV-WQH, and/or additional members whose selection is based on their familiarity with the Site location and surrounding operations.

Each Team member receives SWMU/SWPPP training as described in Section 4.5.1.6. A list of the current Team members for each Site is provided on the Site-Specific SWPPP Form. This list is revised when there are changes in Team members or their duties.

4.1.1 Duties of Team Members

The duties of the Pollution Prevention Team members are as follows:

- *Team Leader:* Appointed by the Facility Manager or owning organization. The Team Leader is responsible for the implementation and maintenance of the SWPPP and its associated BMPs for a specific FMU, and for overseeing the assigned duties of other Team members.
- *Inspections:* A Team member shall be responsible for conducting inspections of Sites. These include periodic evaluations as described in Section 4.5.1.5, and the annual Comprehensive Site Compliance Evaluation detailed in Section 4.6.
- *Record Keeping:* One member of the Team will ensure that inspection documents and other records relating to the SWPPP and storm water pollution control measures are managed in accordance with established document control procedures and forwarded to the appropriate personnel.
- *Training:* A Team member shall ensure that Team members, operational site workers, and applicable supervisors receive training in accordance with Section 4.5.1.6.
- *Plan Revision:* A team member shall be responsible for revision of the SWPPP, as outlined in Section 4.6.2.

Dependent upon the organization of the Team, members may assume multiple responsibilities. Collective responsibilities of all Team members include:

- Implementation of all SWPPP requirements.
- Installation and maintenance of recommended BMPs.
- Implementation of storm water management controls as described in Section 4.5.
- Communication of current information to the owner, ENV-RS Project and ENV-WQH.
- Review of proposed work within the Site area to ensure compliance with the SWPPP.
- Proper reporting and record keeping facilitating the tracking of appropriate corrective actions.
- Completion and documentation of inspections, compliance evaluations, employee training and plan revisions.

4.2 Site Description

LANL and the neighboring residential areas of Los Alamos and White Rock are located in Los Alamos County, in north-central New Mexico, approximately 60 miles north-northeast of Albuquerque and 25 miles northwest of Santa Fe. LANL is part of the National Environmental Research Park (NERP) system administered by DOE. The 40-square mile facility and the adjacent communities are situated on the Pajarito Plateau. The Pajarito Plateau consists of a series of finger-like mesas ranging in elevation from approximately 7,800 feet to about 6,200 feet, and separated by deep east-to-west oriented canyons cut by ephemeral and intermittent streams. Land comprising the LANL facility is largely undeveloped and either serves primarily as safety and security buffer zones, or is being held in reserve by DOE for future use. Large tracts of surrounding land are also held by the Santa Fe National Forest, Bureau of Land Management, Bandelier National Monument, General Services Administration, and San Ildefonso Pueblo.

The LANL facility is divided into technical areas (TA) that are used for building sites, experimental areas, waste disposal locations, roads, and utility rights-of-way. However, these uses account for only a small part of the total land area. Currently, LANL facilities are contained within 49 active TAs spread over 25,600 acres and comprise approximately 5 million square feet of building area. Operational areas within TAs are further divided into FMUs. There are also many inactive TAs, some of which lie outside the present-day Laboratory boundary.

Individual Site descriptions for the medium and high potential Sites are included in the Site-Specific SWPPP Forms, provided in Volume 2 of this SWMU/SWPPP.

4.2.1 Site Drainage Maps

Site maps that show the relative location of low, medium and high potential Sites with respect to facility boundaries and water bodies are provided in Appendix 9. For low potential Sites, these maps serve as Site maps.

For medium to high potential Sites, greater detail is available on the SMA maps attached to the Site-Specific SWPPP Forms, provided in Volume 2 of this SWMU/SWPPP. For the Sites belonging to the SMA, the SMA maps identify location with respect to property boundaries, buildings, and operation and/or process areas. They also provide information on drainage patterns, storm water and erosion control structures, pollutant sources, and receiving streams. These features assist in identifying where pollutants may mix with storm water and in determining storm water management opportunities. SMA maps include the following features, where applicable.

- Facility boundaries including the location of fences, gates and Site boundaries.
- Identification of the predicted direction of storm water flows.
- Locations of all surface water bodies.
- Site boundaries.
- Locations of activities that may be exposed to precipitation. Such activities and areas include processing and storage areas, access roads, locations where transfers of bulk substances occur, areas with machinery, fueling stations, loading/unloading areas, vehicle maintenance areas, liquid storage tanks and locations used for the treatment, storage or disposal of wastes.
- Locations of storm water outfalls and an approximate outline of the area draining to each outfall.
- Location and source of runoff from adjacent properties, if any, containing significant quantities of pollutants of concern to the facility.

4.2.2 Description of Receiving Waters and Wetlands

The receiving waters within LANL are generally ephemeral streams that flow during snowmelt or storm events. Effluent from wastewater treatment plants and cooling tower blow-down enter some canyons and provide surface base flow for those receiving waters. The canyons within LANL run to the Rio Grande.

LANL facility maps showing low, medium and high potential Sites, in Appendix 9, identify the Site locations with respect to the nearest receiving waters, including intermittent streams, dry sloughs, arroyos, wetlands, and special aquatic sites. For medium and high potential Sites, Site-Specific SWPPP Forms provide this information along with more detailed SMA maps showing receiving waters and detailed descriptions of the receiving waters.

4.2.2.1 Local Hydrology

Los Alamos has a semiarid climate with an average rainfall of approximately 18.7 inches per year. The plateau has ponderosa forest at higher elevations that gives way to piñon-juniper woodlands as elevation decreases. The plateau is separated into finger mesas by east-west oriented canyons. The canyon bottoms contain riparian vegetation and stream flows are typically intermittent and fed by snowmelt and/or rainfall. Perennial springs are present on the flanks of the Jemez Mountains and supply base flow to the upper reaches of some canyons, but the volume of flow is insufficient to maintain surface flows across the facility since the streams are depleted by evaporation, transpiration, and infiltration. In addition to snowmelt and rainfall effluents from the sanitary wastewater treatment plant, industrial waste treatment plants, and cooling-tower blow-down enter some canyons at rates sufficient to maintain surface flows for varying distances.

Canyons located within the LANL boundary ultimately drain to the Rio Grande and runoff in some canyons, resulting from large thunderstorms or heavy snowmelt, can reach the Rio Grande several times a year. The intermittent runoff leaving LANL property has been measured at gage stations located on each major canyon. Downstream of LANL, the Rio Grande flows southward to Cochiti Lake, through the middle and on into the lower Rio Grande Basin. In this area Rio Grande surface water is used primarily for crop irrigation in central and southern New Mexico. Since the Cerro Grande fire, total volumes of runoff and peak rates of discharge have increased in Pajarito Plateau drainages. However, even with the increased flows none of the canyons on LANL property average more than 1 cubic foot per second (cfs) of flow annually. By comparison, flows in the Rio Grande commonly average approximately 1,000 cfs.

4.2.2.2 Substantially Identical Outfalls

Based on common drainage patterns, storm water and erosion control structures, pollutant sources, and receiving streams, Sites are grouped within SMAs. Gage stations are positioned downstream of a sub-watershed to measure run-off from the Sites within that sub-watershed.

In September 2002, the SWAT developed a list of inputs to a "substantially identical outfall" determination. The SMAs have been designated based on the following considerations:

- Erosion matrix score components (SOP 2.01 Part B)
- Precipitation and runoff coefficient information
- Drainage area above and including Site boundary
- Existing structural BMPs at a Site
- Transport characteristics of contaminants
- Identical storm water management practices (e.g., BMPs)
- Similarity of COPCs

4.2.3 Summary of Potential Pollutant Sources

Potential pollutant sources for low and medium and high potential Sites include, but are not limited to:

- Bare soil
- Areas of existing erosion
- Specific hazardous constituents within the soil
- Stored waste
- Materials or equipment handled at the site

For medium and high potential Sites, the Site-Specific SWPPP Forms contain a list of the potential pollutants located onsite that may be exposed to precipitation. For each identified potential pollutant, structural and/or nonstructural control measures will be established and the site location and installation date of the measure will be recorded on the Site-Specific SWPPP Form.

4.2.3.1 Exposure Activities/Sources in Area

The MSGP identifies specific exposure activities as potential pollutant sources. A list of the activities that are identified in the Site-Specific SWPPP Form for each medium and high potential Site includes, but is not limited to:

- Loading and unloading operations
- Outdoor storage of significant materials
- Outdoor processing activities
- Waste disposal
- Waste hauling
- Earth/soil moving
- Vehicle tracking of sediments

Activities listed above that occur during Site remediation would be addressed by the RS SWPPP for construction activities (see Section 2.1.3).

4.2.3.2 Identification of Potential Pollutants

"Significant materials" as defined in 40 CFR 122.26(b)(12), are substances related to industrial activities such as process chemicals, raw materials, fuels, pesticides, etc. When these substances are exposed to storm water runoff, they may be carried to a receiving stream with the storm water runoff.

This SWMU/SWPPP applies to potentially contaminated Sites that have not attained formal NFA status and/or Certificates of Completion. Contamination originated from septic tanks and lines, chemical storage areas, wastewater outfalls, landfills, incinerators, firing ranges and their impact areas, surface spills, and electric transformers. Potentially contaminated sites are found on mesa tops, in canyons, and in the Los Alamos town site. To address the contamination potential for medium to high potential Sites, the potential pollutants at Sites are identified by evaluation of the following:

- Constituents present above background levels in surface soil and/or sediment samples collected at the Site by the Laboratory's ENV-RS Project to identify COPCs (see Section 4.2.3.3).
- Site descriptions of history of use and process knowledge.
- Constituents present above wSAL and/or water quality criteria values in Site-specific storm water runoff samples collected pursuant to this SWMU/SWPPP.

If surface soil sample data are not available for a Site, a brief description of potential pollutants will be identified from site history and process knowledge descriptions about materials known to have been released and/or disposed at the Site. Site descriptions are found in LANL ENV-RS Project documents such as RCRA Facility Investigation (RFI) Workplans and RFI Reports.

When remediation activities are being performed at a Site, additional significant materials may be exposed. During the period of time that remediation activities are carried out, management of storm water discharges at the Site becomes the responsibility of the NPDES CAP Program. Remediation activities are covered under the Laboratory's common plan of development, and an addendum to the RS SWPPP for Remediated Sites is prepared for the individual projects. Heavy equipment may be in use during excavation activities. The possibility of leaks of diesel fuel, hydraulic fluid, gasoline, and motor oil from heavy equipment will be identified as a potential source and controls to reduce environmental impacts will be implemented under the RS SWPPP for Remediated Sites for the duration of the remediation activity.

4.2.3.3 Identification of Chemicals of Potential Concern

The steps in the process for evaluating surface soil sample data and identifying COPCs are as follows.

- Sample information obtained from the LANL ER database (ERDB) is evaluated to exclude samples that are not either soil or sediment matrix; that are subsurface (top depth < 1 ft and/or bottom depth < 1.5 ft); or that have been excavated in a remediation activity.

- The analytical data for the surface soil samples is evaluated to exclude mobile laboratory, x-ray fluorescence, toxicity characteristic leaching procedure (TCLP), pH, and moisture results. Gamma spectroscopy results for samples with alpha spectrometry results for the same radionuclide are excluded.
- Analyte results that are not detected or that have been rejected by data validation are excluded.
- Detected analyte results are screened by analytical suite. Inorganic results that are less than the LANL soil /sediment background values are excluded. Radionuclide results that are less than fallout/background values are excluded. Organic results that are detected are considered to be greater than background and are retained as COPCs.
- At each Site, the frequency of detection for each analyte is calculated.
  - If less than five surface samples were collected at a Site for an analytical suite, there is insufficient data to identify COPCs unless a contaminant is reasonably expected to be present in surface soil based on site history and process knowledge.
  - If 20 or less surface samples were collected for a given analytical suite and if the frequency of detection is 5% or greater (i.e., analyte is detected in a single sample), the analyte is identified as a COPC at the Site.
  - If more than 20 samples were collected for a given analytical suite and if the frequency of detection is 5% or greater, the analyte is identified as a COPC at the Site.
  - If more than 20 representative samples were taken and if the frequency of detection is less than 5%, the analyte is not identified as a COPC.
  - For a collective group of Sites assigned to the same SMA, any COPC detected at greater than a 5% frequency in any Site will be retained for all Sites in which it was detected (even at less than 5% frequency).
  - Any COPC detected at less than 5% frequency will be retained if it is likely to be part of a suite with a COPC that is detected more frequently (e.g., if some polycyclic aromatic hydrocarbons (PAHs) are COPCs, other PAHs detected will be retained even if their frequency of detection is less than 5%).
  - Any COPCs detected at less than 5% frequency will be retained if they are likely to be a breakdown product of a COPC that is detected more frequently (e.g., if DDT is a COPC, detections of DDD or DDE would be retained even if the frequency of detection is less than 5%).
  - COPCs in sediment will be retained if they were detected at less than 5% frequency if they are also COPCs for soil.

The results of the soil COPC evaluation are used to guide the selection of analytical suites for monitoring Site-specific storm water runoff, described further in Section 4.7.

4.2.4 Significant Spills and Leaks

Significant spills and leaks are tracked by the ENV-WQH group. For low potential Sites, the impact of significant spills and leaks on surface water quality may be measured through gage station monitoring. Appendix 7 provides a list of Sites located upstream from gage stations. For medium to high potential Sites, locations where significant spills and leaks have occurred at Sites within the past 3 years that could contribute pollutants to storm water discharges are listed on the Site-Specific SWPPP Form. The recorded spill/leak information includes type of material spilled, approximate quantity of spilled material, the site location of the spill, and the date of the spill event. Such information is maintained for a period of three years from the date of the event. Section 4.5.1.4 describes the LANL spill prevention and response procedures.

4.3 Non-Storm Water Discharges

Non-storm water discharges allowed by the MSGP include the following:

- Discharges from fire fighting activities
- Fire hydrant flushing
- Potable water sources including waterline flushing

- Irrigation drainage
- Lawn watering
- Uncontaminated groundwater
- Foundation or footing drains where flows are not contaminated with process materials
- Discharges from springs
- Routine exterior building washdown which does not use detergents or other compounds
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred and where detergents are not used
- Air conditioning condensate

Sources of non-storm water that are combined with storm water discharges associated with industrial activity at medium to high potential Sites are identified through the NOI program. Such sources associated with industrial activity at medium to high potential Sites are identified during annual Site evaluations using the Inspection and Maintenance Form, provided in Appendix 4. The results of the evaluation are shown on the Site-Specific SWPPP Form. Types of permitted non-storm water discharges at Sites may include:

- Watering of recently planted vegetation
- Discharges from fire fighting activities

The Site-Specific SWPPP Forms also identify appropriate pollution prevention measures for the non-storm water components of the discharge. Observations from the annual Site evaluations are documented with a Certification Statement included in the Comprehensive Site Compliance Evaluation Report. Reports generated by the LANL Wastewater Stream Characterization Program (ENV-WQH's NPDES Team) will also be referenced to confirm whether non-storm water discharges exist near buildings located adjacent to Sites.

Appendix 10 contains the watershed and Site-specific non-storm water discharge certifications , dated March 27, 2006.

4.4 Storm Water Sampling Data

Storm water sampling at the LANL facility has been ongoing since 1991. Samples of storm water are collected as discussed in Sections 3.3 and 4.7. Samples for low potential Sites are collected at gage stations, and samples for medium to high potential Sites are collected at gage stations and SMA sampling locations. Both types of sampling are detailed in the SWMP (Attachment 1), which provides a summary of the locations and analytical suites sampled. Attachment 2 reports the results of watershed scale and Site-specific storm water monitoring for the previous year. Storm water data for each Site are stored in the WQDB and are readily available for review at the following url: http://wqdbworld.lanl.gov/discoverer.

4.5 Storm Water Controls

An important element in the development of a SWPPP is identification of appropriate BMPs. The focus of storm water regulations is to control pollutants at the source. Implementing storm water controls help reduce the quantity of pollutants in storm water runoff. Source controls are usually the most effective mechanisms for decreasing storm water contamination and are typically less expensive than constructing end-of-pipe treatment facilities.

BMPs fall into two main categories: non-structural and structural. Non-structural BMPs are standard operating and maintenance procedures designed to minimize the potential for spills, exposure of materials, or other events that could adversely affect the quality of water that is transported out of the area by storm water runoff. Non-structural BMPs include good housekeeping, preventive maintenance, spill prevention and response, routine inspections, and employee training. Structural BMPs are typically installed to prevent or minimize erosion and the migration of contaminants by surface water runoff. Structural BMPs include sediment and erosion control and management of runoff. Additional guidance on implementation of structural BMPs is provided in the LANL Storm Water BMP Guidance Document (LANL 1998a). Details on the types of BMPs installed at Site specific and watershed scale can be found in Attachment 3.

4.5.1 Non-Structural BMPs

4.5.1.1 Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly environment. These practices are generic items that are applied at all medium and high potential Sites, as these sites are more likely to have staff on site to implement the good housekeeping measures. Good housekeeping practices specifically applicable to the prevention of storm water contamination include:

- Protocols that specify appropriate activities at a Site.
- Maintaining operational areas in a clean and orderly state, free from debris and trash.
- Minimizing soil-disturbing activities.
- Minimizing activities that damage or destroy existing vegetation.
- Training of employees about good housekeeping practices.

4.5.1.2 Minimizing Exposure

Industrial materials and activities will be protected where practicable by storm resistant shelters to prevent exposure to rain, snow, snowmelt, or runoff.

A number of Sites covered by the FFCA/AO have been evaluated to determine if they qualify to be exempted from Site-specific sampling under the No Exposure exclusion (40 CRF 122.26(g)). The list of sites is submitted in Section 3.2.3.1 of this SWPPP.

4.5.1.3 Preventive Maintenance

Preventive maintenance involves the regular maintenance of identified equipment, systems, and storm water management devices for each Site to minimize the chance for equipment/BMP failure and the subsequent release of pollutants. For each medium to high potential Site, identified devices, equipment, and systems will be recorded on the Site-Specific SWPPP Form. Low potential Sites are considered to be fully stabilized.

4.5.1.4 Spill Prevention and Response Procedures

The Emergency Management & Response (EM&R) Office has been appointed by the LANL Director as the organization responsible for LANL emergency management. All spills or releases must be reported to the EM&R Office at 667-6211 or, after hours at 667-7080. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. Specific EM&R procedures and policies are detailed in LIR404-00-01.3 Los Alamos National Laboratory Emergency Management. In the event of a spill, the EM&R Office will determine to what level LANL's Emergency Management Plan will be activated. In addition, appropriate cleanup procedures will be followed and the appropriate individuals or organizations responsible for the completion of appropriate spill reports will be notified.

Two types of spill reporting are required at LANL in the event of a spill: internal reporting and external agency notification. The EM&R Office and ENV-WQH, in accordance with LANL and DOE policies, and federal and state regulatory reporting requirements will make the determination for the type of reporting. ENV-WQH and the responsible organization will keep copies of internal spill reports. External agency notification may consist of verbal or written notification to the National Response Center, EPA Region VI, NMED, the New Mexico State Police, or the Los Alamos County Police Department.

Specific BMPs have been developed for spill prevention, including drum and container storage, electrical transformers, and salvage areas (see LANL Storm Water/Surface Water Pollution Prevention Best Management Practices Guidance Document).

4.5.1.5 Routine Site Inspections

Routine Site inspections involve the regular inspection of BMPs and storm water management devices. For low potential Sites scoring 40 or less on the Surface Water Site Assessment Part B (Section 3.1.1) that are exposed, the Site will be visually inspected once in a four-year period.

For each medium to high potential Site, identified BMPs and storm water management devices will be inspected after sampling events. The inspections will be recorded on the Inspection and Maintenance Form, provided in Appendix 4. Analytical data from SMA sampling locations will be compared to wSALs and if pollutants or contaminants are detected above an established wSAL, an inspection will be conducted of the Sites sampled by the SMA location and BMPs will be recommended and installed. The inspection will be documented by using a handheld electronic data collector and uploaded in the SWTS system. Sites will also be inspected annually in accordance with the Comprehensive Site Compliance Evaluation, as discussed in Section 4.6.

A follow-up procedure has been established to ensure that appropriate actions are taken in response to all inspections. If an inspection result documents a need for installation or maintenance of a BMP, a follow-up visit is made and a Maintenance Form is completed. Records of inspections are maintained in the SWTS module of WQDB. A member of each Team shall be responsible for inspecting their assigned Sites.

At a minimum, the following items will be assessed during inspections.

- Evidence of excessive erosion in any part of the Site.
- Condition and function of storm water management and erosion control structures.
- Occurrence of non-storm water discharges (other than those described in this SWMU/SWPPP).
- Contact between significant materials and storm water through either exposure or leakage.
- Performance of implemented BMPs and their effectiveness.
- Photodocumentation of the Site.

Any noted changes or deficiencies must be provided to the Team member responsible for this SWMU/SWPPP revision and corrective action implementation.

4.5.1.6 Employee Training

Employee training is essential for effective implementation and maintenance of this SWMU/SWPPP. The objective of the training program is to instill in employees an understanding of the purpose of this SWMU/SWPPP; to help them recognize situations that could lead to potential storm water contamination; and to provide instruction in proper spill prevention and response, good housekeeping, and materials management practices.

All operational site workers, supervisors, and Team members receive training, conducted annually, organized to cover the following topics:

- Goals of this SWMU/SWPPP
- Spill response and cleanup
- Conducting inspections
- Good housekeeping and material management practices to prevent storm water pollution
- Structures, equipment, and procedures designed to minimize storm water pollution and soil erosion
- Plan revision requirements

4.5.2 Structural BMPs

The BMPs listed in Section 4.5 are described in detail in the LANL Storm Water/Surface Water Pollution Prevention Best Management Practices Guidance Document (LANL 1998a). The BMP Guidance Document provides details regarding BMPs, including pros and cons, installation instructions, specifications, and drawings. BMP categories in the BMP Guidance Document include sediment retention controls, diversion structures and controls, conveyance structures and controls, vegetative controls, and spill prevention. BMPs referenced in this SWMU/SWPPP and in the Site-Specific SWPPP Forms will be implemented based on the BMP Guidance Document for consistency throughout the LANL facility.

4.5.2.1 Sediment and Erosion Control

In order to minimize migration of sediments off site, it is important to focus on minimizing the generation of sediments by storm water (erosion). BMPs used for sediment and erosion control are structures, vegetation, and stabilization measures. BMPs employed at Sites for sediment and erosion control include but are not limited to:

- Mulching
- Matting
- Retention (e.g., wattles, silt fences)
- Permanent seeding
- Riprap
- Gabions
- Cellular confinement systems

4.5.2.2 Management of Runoff and Run-on

Once storm water begins to move across the site and potentially carry pollutants, it is important to remove or slow the flow of the water and retain it on site where possible to limit the quantity of runoff and improve the quality of the water that does leave the Site. BMPs used for management of runoff/run-on generally divert, infiltrate, reuse, or reduce pollutants in storm water discharges. BMPs employed at Sites for management of runoff include, but are not limited to:

- Swales
- Diversion channels
- Sediment basins
- Redirect culverts
- Catch basin filters
- Storm drain inlet protection
- Berms
- Check dams
- Water bars
- Surface roughening
- Pipe slope drain
- Level spreader
- Channels
- Vegetative buffer zone
- Storm drain outlet protection

4.5.3 Selection of BMPs

BMPs are recommended for each Site by the SWAT based on SOP 2.01 Part B scores and potential contaminants at the Site. As directed in the MSGP, the selection of BMPs takes into consideration:

- The quantity and nature of the pollutants, and their potential to impact water quality of receiving waters.
- Opportunities to combine the dual purpose of water quality protection and local flood control benefits.
- Opportunities to offset the impact of impervious areas of the Site on ground water recharge and base flows in local streams

Site-Specific SWPPP Forms list the specific BMPs selected for each Site and SMA maps show the location of the BMPs at the Site. The non-structural controls are generally employed at all of the Sites regardless of the industrial activities or Erosion Matrix Score for the Site.

4.5.4 Maintenance of BMPs

All BMPs identified in the SWPPP are maintained and kept in effective operating condition. If, during a site inspection, a BMP is found to not be performing effectively, maintenance must occur before the next anticipated storm event, or as necessary to maintain the BMP. If BMP maintenance before the next anticipated storm event is not possible, maintenance should be scheduled and accomplished as soon as practicable. As discussed in Section 4.5.1.5, inspections are conducted during storm water sampling events, after analytical results show pollutants or contaminants are detected above applicable wSAL, and annually for the medium to high potential Sites. The inspection and maintenance results are reported quarterly to EPA and NMED. BMP inspection information is recorded in SWTS. Digital photos are taken of each site during each inspection.

4.6 Comprehensive Site Compliance Evaluation

The MSGP requires the completion of an annual Comprehensive Site Compliance Evaluation. During this evaluation, the Team member responsible for inspections examines equipment or material storage areas, locations of past or current operational activity, and areas affected by non-storm water discharges within a Site. In accordance with the permit requirements, the inspecting individual performs the following tasks.

- Inspect storm water drainage areas for evidence of potential contaminants such as:
  - Exposed materials or wastes
  - Any evidence of spills that may have occurred in the operational areas, and their potential for contributing contamination to runoff
  - Evidence of erosion and sediment transport
- Evaluate the effectiveness of BMPs:
  - Condition and effectiveness of sediment and erosion controls
  - Condition and effectiveness of storm water management structures
  - Effectiveness of BMPs such as good housekeeping procedures and spill prevention and response measures

- Identify areas that may have been altered by construction or other activities so as to change the direction of storm water runoff.
- Review the adequacy of existing inspection records.
- Revise the Plan as needed within two weeks of the inspection and implement corrective action within 12 weeks of the inspection.
- Prepare a report summarizing inspection results and follow-up actions.
- Sign the report and keep it with the SWPPP.

4.6.1 Comprehensive Site Compliance Evaluation Report

Based on the results of the Annual Site Compliance Evaluation, the Team prepares a report describing the results of the inspection. The report includes, at a minimum, the following items:

- The personnel who performed the inspection.
- Date(s) on which the inspection was performed.
- A written summary of major observations relating to implementation of the SWPPP.
- A summary of all changes made to the SWPPP in accordance with Section 4.2 of the MSGP.
- A description of any incidents of non-compliance with the SWPPP that were noted during the inspection.
- Actions that should be taken to correct noted deficiencies.

All reports describing the results of the annual Comprehensive Site Compliance Evaluation will be retained as part of the SWPPP. These Comprehensive Site Compliance Evaluation Reports are included in Appendix 4.

4.6.2 Maintaining Updated SWPPP

This SWMU/SWPPP is updated and modified annually based upon the requirements of the FFCA/AO, as Sites are cleaned up and NFAs are approved, and to reflect the findings of the annual Comprehensive Site Compliance Evaluations. Amendments to the site-specific forms and SWPPP will also be made whenever inspections identify a change in design, construction, operation, or maintenance procedures that affects the course of storm water discharge or affects the potential for contamination of storm water runoff. Examples of such a change could include changes in the types of operations performed at any of the Sites; significant changes in the direction of runoff due to construction or modification of roads, paved pads, buildings, or other structural features; or a change in ownership.

Table 4-1 contains a list of events that require modification of this SWMU/SWPPP, along with the sections that would typically be affected.

Table 4-1 is not all-inclusive. SWPPP modification may be required for any event that has the potential to significantly affect storm water runoff or sediment transport from a Site. Per the FFCA/AO, an updated SWMU/SWPPP will be submitted to EPA and NMED by March 31 of each year.

Table 4-1. Events Requiring Modification of the Site-Specific SWPPP Form

Event Requiring Modification of the SWPPP	Actions Required to Modify the SWPPP
Change in members or duties of Team.	Amend the list of team members and their duties on the Site-Specific SWPPP Form.
Significant changes in operational procedures or locations of operations.	Modify map and text sections of the Site-Specific SWPPP Form to reflect the changes.
Significant changes in the types of materials handled at a Site.	Review to determine whether changes in SWPPP procedures are required; add the new materials to the inventory list on the Site-Specific SWPPP Form.
Change in drainage area or direction of runoff due to construction or other modifications.	Review changes and modify SMA map and text as appropriate in Site-Specific SWPPP Form.
Change in the number of HSWA permitted Sites.	Modify appendices to reflect Sites listed on the HSWA permit.
Changes in storm water management controls.	Modify SMA map and appropriate text sections in Site-Specific SWPPP Form.
Completion of Comprehensive Site Compliance Evaluation.	Review the entire SWPPP to ensure that it is still accurate and complete; correct any deficiencies found during the Comprehensive Site Compliance Evaluation; document the Evaluation and any follow-up actions.
Receipt of laboratory analytical results for storm water discharge, soil, sediment, or other environmental sampling.	Review to determine whether there are abnormal values for any constituent; take corrective action if appropriate; incorporate the analytical results in the SWPPP.
Changes in erosion and sediment control structures.	Modify SMA map and appropriate text sections in Site-Specific SWPPP Form.
Spill or leak of waste, water, or other materials at a Site.	Document the release and cleanup procedures; incorporate the documentation in the Site-Specific SWPPP Form.

4.7 Monitoring and Reporting

The purpose of the storm water monitoring mandated by the FFCA/AO is to determine if there is a release or transport of a pollutant or contaminant from a Site into surface water that could cause or contribute to a violation of applicable surface water quality standards, including the antidegradation policy, or an applicable waste load allocation. Under the FFCA/AO, the Laboratory is conducting two types of storm water runoff monitoring: sampling on a watershed basis at automated gage stations; and sampling near specific Sites at SMA monitoring locations. Sampling planned for the 2006 monitoring year is described in the LANL SWMP (Attachment 1). The FFCA QAPP (WQH-QAPP-FFCA) details the work performance steps and quality assurance process undertaken to conduct monitoring, sample analysis, data verification and validation, and reporting activities for the FFCA/AO.

The Laboratory also conducts monitoring pursuant to the MSGP. SWMUs fall under the category of Hazardous Waste Treatment, Storage, and Disposal Facilities (Sector K), and monitoring for Sector K benchmark pollutants was required in the second and fourth years (2002 and 2004, respectively) of the 2000 MSGP. In 2006, the Laboratory will proactively conduct MSGP analytical monitoring pending finalization of the proposed MSGP revision.

4.7.1 Analytical Monitoring Requirements

Storm water runoff from low potential Sites is monitored by a watershed-scale system of automated gage stations to meet the requirements of both the FFCA/AO and the MSGP. Storm water runoff samples are collected at approximately 60 automated gage stations that are sited in drainages both within the Laboratory boundary and on non-DOE property formerly used for Laboratory activities. Several gage stations are also sited at off-site locations to monitor storm water runoff entering or leaving the Laboratory's boundary.

The gage station locations are selected to meet the requirements of two monitoring regimes: the FFCA/AO and the MSGP. A gage station may be operated to meet the requirements of one or both monitoring regimes. The 2006 SWMP (Attachment 1) contains the detailed sampling plan for the watershed-scale monitoring, including a list of the gage stations that will be operated.

Storm water runoff from medium/high potential Sites is monitored in the Site-specific drainage(s) contained within the SMA (see Section 4.2.2.2). Sites are assigned to one or more SMAs, depending on drainage patterns. An SMA may be comprised of more than one Site in locations where Site boundaries are overlapping, or where Sites share a common drainage. Sample collection for the Site-specific monitoring is accomplished using automated ISCO samplers or single-stage samplers. An automated gage station is used to collect Site-specific samples where a Site is located immediately upstream. Appendix 7 lists the SMAs and the assigned Sites, as well as the closest downstream watershed gage station.

4.7.1.1 Sampling Suite Assignment

Site-specific storm water runoff monitoring is required by the FFCA to assess whether transport of pollutants from Sites is occurring, and to evaluate the effectiveness of BMPs in reducing/eliminating pollutant transport to acceptable levels. The sampling suite assignment to each SMA monitoring station is based on evaluation of requirements contained in the MSGP and Table 1 of the FFCA/AO. Additionally, the results of the COPC evaluation at each Site are taken into consideration (see Section 4.2.3.3).

The chemical analytical methods used are those set forth in 40 CFR Part 136 or the NMWQCC regulations (NMAC 20.6.4.14). Alternative analytical methods will be used only if approved by the EPA prior to use, and the use of alternative methods will be described in the annual SWMP.

The analytical suite assignments are made by considering the following four cases in the order presented below.

Case 1: Insufficient surface soil samples associated with the SMA.

If there are insufficient surface soil samples (none or less than five), the sampling suites are determined by evaluating the site history and process knowledge. If available Site information is insufficient, the default suites assigned are the MSGP Sector K benchmark suites and the FFCA/AO suites, as applicable, for the nearest downstream gage station.

Case 2: Storm water runoff will be sampled at the nearest downstream gage station.

If the storm water runoff samples are to be collected at the nearest downstream gage station, the default suites assigned are those required by the MSGP and the FFCA/AO, as applicable. If COPC suites that are not included in the gage station suites are identified for the Site(s) associated with the SMA, then the COPC suites are also collected at the gage station.

Case 3: No COPCs are identified at the Site(s) associated with the SMA.

If no COPCs are identified at the Sites associated with the SMA as a result of evaluating surface sample soil results, the sampling suites are determined by evaluating the site history and process knowledge. If available Site information is insufficient, the default suites assigned are the MSGP Sector K benchmark suites and the FFCA/AO suites, as applicable, for the nearest downstream gage station. If a potential COPC suite was eliminated at the Site based on evaluation of five or more surface soil samples, then that COPC suite is excluded unless it is required by the MSGP.

Case 4: COPCs are identified at the Site(s) associated with the SMA.

If COPCs are identified at the Site(s) associated with the SMA, the COPC suites in addition to the MSGP Sector K benchmark suites are assigned to the SMA. If a potential COPC suite was eliminated at the Site based on evaluation of five or more surface soil samples, then that COPC suite is excluded unless it is required by the MSGP.

- In the case where organic COPCs are identified at a Site, site history and process knowledge are evaluated to eliminate organic compounds that are not directly related to the Site activities. Examples include the presence of the following organic compounds in surface soil samples:
    - PAHs, that are most likely present due to parking lot and roof runoff;
    - trace pesticides not directly related to known Site operations; and
    - phthalate compounds (included in the SVOAs suite) not directly related to known Site operations.

- At Sites associated with the handling of high explosives (HE) (e.g., firing sites, HE storage areas, HE preparation and testing locations), the Laboratory will monitor for HE.
- At Sites associated with the handling and/or release of polychlorinated biphenyl compounds (PCBs) (e.g., PCB capacitor and/or storage locations, known PCB releases), the Laboratory will monitor for PCBs.
- At Sites associated with the manufacture of asphalt products, the Laboratory will monitor for TPH (diesel range).
- At Sites associated with incineration operations, the Laboratory will monitor for dioxins/furans.
- At Sites where multiple organic COPCs are identified and are related to historical Site operations, the Laboratory will monitor for one or two key organic suites with the assumption of co-location of contamination.
- The Laboratory will not typically monitor for volatile organic analytes due to the technical challenges of collecting a valid sample in storm water runoff.

4.7.2 Visual Examination of Storm Water Discharges

Visual examinations are important to collect information to determine the effectiveness of controls in preventing potential contaminants from migrating off LANL property. Accordingly, the field personnel conduct visual monitoring of storm water collected at the gage stations on a quarterly basis. The Surface Water Sampling Field Sheet (Appendix 4) is used by field personnel to document the visual examination. Information recorded includes:

- Odor – Describe any odors that may be observed in the discharge. Caution: any unusual odors should be documented, and sampler shall leave the site immediately.
- Color – Describe the color of the discharge.
- Clarity – Clarity can be described as the depth in which you can look into or through water. For example an individual can see through a clear glass of clean water in daylight. Generally the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.
- Floating solids – Note any floating solids in the sample. Careful examination should determine whether the solids are raw or waste materials.
- Settled solids – Note any settled solids in the sample. Settled solids may be an indicator of unstable ground cover combined with a high intensity storm water runoff event.
- Suspended solids – Note any suspended solids in the sample. Most often suspended solids include fine sediment. This may be an indication of an unstable channel that may have eroding banks. Some water appears to be colored because of relatively coarse particulate material in suspension such as sediment.
- Foam – Note an accumulation of fine frothy bubbles formed in or on the surface of water. Describe the color of the foam.
- Oil sheen – Note if there is oil sheen present, the thickness, and consistency.
- Other – Describe any other indicators of storm water pollution.

While conducting the visual examinations, field personnel will attempt to relate any pollutant that is observed in the samples to the sources of pollutants at the Site(s) in the drainage.

4.7.3 Reporting

Following are the reporting procedures for sampling and evaluations required by the MSGP and the FFCA/AO.

- FFCA/AO requires that the annual results for watershed and Site-specific monitoring are submitted to EPA and NMED by March 31 of each calendar year.
- FFCA/AO requires that exceedances of wSALs are reported in writing to EPA and NMED monthly, by the 28th day of the following month following receipt of the data from the analytical laboratory.
- FFCA/AO requires that DOE submit a written status report to EPA Region 6 and NMED SWQB no later than 60 days after the end of each quarter, with deadlines that DOE was

required to meet during the reporting period, progress made toward meeting deadlines and milestones, reasons for any noncompliance with the FFCA/AO, corrective actions taken to address exceedances of wSALs, and description of any matters relevant to the status of its compliance with the FFCA/AO.

- Quarterly visual monitoring results are documented on the Surface Water Sampling Field Sheet and kept by ENV-WQH.
- MSGP analytical monitoring results are submitted on DMR forms as required by the pending 2006 MSGP.
- MSGP annual Comprehensive Site Compliance Evaluation Reports are available upon request and are maintained by the ENV-WQH group at TA-59.

4.8 Documentation of Permit Eligibility Related to Endangered Species

This SWMU/SWPPP includes documentation supporting permit eligibility regarding endangered species (Appendix 11). Documentation includes:

- Information on whether listed endangered or threatened species, or critical habitat is found in proximity to the facility.
- How such species could be affected by storm water discharges or storm water discharge-related activities.
- Results of the endangered species screening determinations.
- A description of the measures necessary to protect listed endangered or threatened species, or critical habitat, including any terms or conditions that might be imposed by the eligibility requirements.

4.9 Documentation of Permit Eligibility Related to Historic Places

This SWMU/SWPPP includes documentation supporting the determination of permit eligibility with regard to historic places (Appendix 12). Information includes:

- A discussion about whether storm water discharges or storm water discharge-related activities could affect property that is listed or eligible for listing on the National Register of Historic Places.
- Written agreements made with State Historic Preservation Officers, Tribal Historic Preservation Officer, or Tribal Leaders, regarding how mitigation should occur for sites that could be adversely impacted by storm water discharges.

4.10 Copy of Permit

Copies of the 2000 MSGP and NOI are located in Appendix 2.

4.11 Signature, Plan Review, Making Plans Available

This SWMU/SWPPP has been signed by LANL's ENV Division Director and will be retained on site in the custody of ENV-WQH Personnel. This SWMU/SWPPP is available to the EPA Director, as well as all state, tribal, and local agencies that approve or review storm water management plans. The Storm Water Pollution Prevention Plan Certification Statement of Authorization is included in this SWMU/SWPPP following the Table of Contents and before Section 1.

In the interest of the public's right to know, this SWMU/SWPPP will be made available to the public if a request is made in writing.

SECTION 5.0

REFERENCES

40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants. http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=098d848f2b6eb9e4ace71d3e772cc991&tpl=/ecfrbrowse/Title40/40cfr136_main_02.tpl

65 FR 64746, Final Reissuance of National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities; Notice. (October 2000), http://www.gpoaccess.gov/fr/index.html

Clean Water Act, Title 33 U.S.C. 1251

EPA 1990. United States Environmental Protection Agency Region 6, Hazardous and Solid Waste Amendments, Module VIII, of RCRA Permit No. NM0890010515, issued to Los Alamos National Laboratory, Los Alamos, New Mexico, effective May 23, 1990, EPA Region 6, Hazardous Waste Management Division, Dallas, Texas. (April 1990) http://www.nmenv.state.nm.us/hwb/hswa/1_LANL HSWA Module.pdf

EPA 2000: United States Environmental Protection Agency, NPDES Permits No. NMR05A734 and NMR05A735, Authorization to Discharge under the NPDES, issued to the University of California and DOE, respectively, effective December 23, 2000. (December 2000)

EPA 2001: United States Environmental Protection Agency, NPDES Permit No. NM0028355, Authorization to Discharge under the NPDES, issued to the University of California and the U.S. Department of Energy, effective February 1, 2001. (February 2001)

EPA 2005a: US Environmental Protection Agency Region 6, Re: EPA's Prior Decisions on SWMU/AOC Sites at Los Alamos National Laboratory, from Laurie F. King, Chief, Federal Facilities Section, US EPA Region 6, to James P. Bearzi, Chief, Hazardous Waste Bureau, New Mexico Environment Department, dated January 21, 2005. (January 2005)

EPA 2005b. United States Environmental Protection Agency Region 6, In the Matter of United States Department of Energy and the Los Alamos National Laboratory, NPDES Nos. NMR05A735, NMR05A734, and NM0028355, Federal Facility Compliance Agreement. (February 2005) http://www.epa.gov/region6/6xa/lanl.pdf

EPA 2005c. United States Environmental Protection Agency Region 6, Administrative Order Docket No. CWA-06-2005-1734, NPDES No. NMR05A734. (March 2005) http://www.epa.gov/region6/6xa/lanl.pdf

LANL 1990. Los Alamos National Laboratory, Solid Waste Management Units Report, Volumes I-IV, LA-UR-90-3400, prepared by International Technology Corporation, Contract No. 9-XS8-0062R-1, Los Alamos, New Mexico. (November 1990)

LANL 1998a: Los Alamos National Laboratory, *Storm Water / Surface Water Pollution Prevention Best Management Practices Guidance Document*, Revision 1.0, prepared by Los Alamos National Laboratory Water Quality and Hydrology Group and Merrick Engineers & Architects, Los Alamos, New Mexico. (August 1998)

LANL 1998b: Los Alamos National Laboratory, *Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory*, R.T. Ryti, P.A. Longmire, D.E. Broxton, S.L. Reneau, and E.V. MacDonald, LA-UR-98-4847. (September 1998)

LANL 2000a: Los Alamos National Laboratory, *Cerro Grande Fire: Aftermath ER Activities to Reduce the Potential Movement of Contamination at Potential Release Sites*, Veenis, S.J., LA-UR-00-3767. (September 2000)

LANL 2000b: Los Alamos National Laboratory, *Emergency Rehabilitation Efforts Resulting from the Cerro Grande Fire at the Los Alamos National Laboratory*, Veenis, S.J., LA-UR-00-3906. (September 2000)

LANL 2003: Los Alamos National Laboratory, *Natural Background Geochemistry of Sediments*, Los Alamos National Laboratory, E.V. McDonald, R.T. Ryti, S.L. Reneau, and D. Carlson, LAUR-03-2910. (May 2003)

LANL 2004: Los Alamos National Laboratory, Risk Reduction and Environmental Stewardship-Remediation Services Standard Operating Procedure for

Surface Water Site Assessments, SOP-02.01, Revision 1. (March 2004)

New Mexico 2002: State of New Mexico, "Standards for Interstate and Intrastate Surface Waters," 20.6.4 NMAC, as amended through October 11, 2002, New Mexico Water Quality Control Commission, Santa Fe, New Mexico. (October 2002) http://www.nmenv.state.nm.us/NMED_regs/swqb/20_6_4_nmac.html

New Mexico 2005: State of New Mexico, Compliance Order on Consent Proceeding Under the New Mexico Hazardous Waste Act § 74-4-10 and the New Mexico Solid Waste Act § 74-9-36(D) Issued to the United States Department of Energy, and the Regents of University of California for the Los Alamos National Laboratory, Los Alamos, New Mexico, March 1, 2005. (March 2005). http://www.nmenv.state.nm.us/hwb/lanl/OrderConsent/03-01-05/Order_on_Consent_2-24-05.pdf

New Mexico 2006: State of New Mexico, "Standards for Interstate and Intrastate Surface Waters," 20.6.4 NMAC, as amended through February 16, 2005, New Mexico Water Quality Control Commission, Santa Fe, New Mexico. (February 2006) http://www.nmenv.state.nm.us/swqb/Standards/20.6.4NMAC.pdf

NMED 1989. State of New Mexico, Hazardous Waste Facility Permit, Permit No. NM0890010515-1, issued to Los Alamos National Laboratory, Los Alamos, New Mexico, by the New Mexico Environmental Improvement Division, Santa Fe, New Mexico, effective February 19, 1990. (November 1989)

NMED 1998: State of New Mexico Environment Department, Re: Approval of Class III Permit Modification to Remove Ninety-Nine (99) Solid Waste Management Units for the Department of Energy / Los Alamos National Laboratory RCRA Permit, dated December 23, 1998.

NMED 2001a: State of New Mexico Environment Department, Re: Approval of Class III Permit Modification to Remove Thirty (30) Solid Waste Management Units from the Department of Energy / Los Alamos National Laboratory RCRA Permit, dated May 2, 2001.

NMED 2001b: State of New Mexico Environment Department, Re: Approval of RFI Report for Consolidated Potential Release Site 73-005-99 (Contractors' Row), Los Alamos National Laboratory, EPA ID# NM0890010515, Task Number HWB-LANL-00-013, dated March 28, 2001.

NMED 2003: State of New Mexico Environment Department, Re: Approval of Class III Permit Modification to Remove Seven (7) Solid Waste Management Units from the Department of Energy/Los Alamos National Laboratory RCRA Permit NM0890010515, from Charles Lundstrom, Director, Water & Waste Management Division, NMED, to Ralph Erickson, Area Manager, DOE-LASO, and G. Pete Nanos, Director, LANL, dated August 6, 2003.

WQH Quality Management Documents

Note: The following documents are available from the Laboratory upon request.

WQH-QMP, Water Quality and Hydrology Group Quality Management Plan

WQH-QAPP-FFCA, Federal Facility Compliance Agreement Quality Assurance Project Plan

WQH-QP-027, Managing Electronic Data

WQH-QP-029, Creating and Maintaining Chain of Custody

WQH-SOP-009, Operation of Stream Gaging Stations and Collection of Storm Water Runoff Samples

WQH-SOP-010, Processing Storm Water Runoff Samples

WQH-SOP-059, Single Stage Sampling

ENV-DO-206, Sample Containers and Preservation

ENV-DO-207, Handling, Packaging, and Transportation of Samples

APPENDICES

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Appendix 1.

Federal Facility Compliance Agreement, dated February 5, 2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733

February 3, 2005

REPLY TO: 6EN-WC

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7003 0500 0003 0870 7121)

Mr. Edwin L. Wilmot
Manager
Los Almos Site Office
National Nuclear Security Administration
U.S. Department of Energy
c/o Mr. Gene Turner
528 35th St.
Los Alamos, NM 87544-2201

Re: Administrative Order Docket No. CWA-06-2005-1701
NPDES Nos. NMR05A735, NM0028355

Dear Mr. Wilmot:

Enclosed is the final version of the Federal Facilities Compliance Agreement (FFCA) between the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA) regarding storm water discharges from Solid Waste Management Units (SWMUs) at the Los Alamos National Laboratories. This compliance agreement will guide you through the monitoring and Best Management Practices to be performed while you go through the application process for an individual National Pollutant Discharge Elimination System (NPDES) permit. The FFCA is an interim tool to direct protection of the environment and it will automatically terminate upon issuance of the individual permit covering the SWMUs.

The FFCA is a compilation of much work by your staff, the New Mexico Environment Department, and public input from environmental groups and tribes. We appreciate your cooperation on this very important issue and look forward to working with you as you implement the FFCA. You and your staff are encouraged to work expeditiously with EPA Region 6's Water Quality Protection Division in the development of the individual permit. It is the goal of the Clean Water Act that all waters of the United States should be fishable and swimmable, and that the NPDES permitting program will restore and maintain the chemical, physical, and biological integrity of our nation's waters.

Thank you for your cooperation. If you have any technical questions, please contact Mr. Taylor Sharpe of my staff at (214) 665-7112. If you have any legal questions, please contact Mr. John Emerson of EPA Region 6's Regional Counsel at (214) 665-3137.

Sincerely yours,

John Blevins
Director
Compliance Assurance and
Enforcement Division

Enclosure

cc: Mr. Nathaniel Wardwell
Office of Laboratory Council
Mail Stop A187
Los Alamos, NM 87545

Ms. Marcy Leavitt
Chief
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 6

In the Matter of:	§	
	§	
UNITED STATES	§	
DEPARTMENT OF ENERGY	§	
	§	Docket No. CWA-06-2005-1701
and the	§	
LOS ALAMOS NATIONAL LABORATORY	§	
	§	
NPDES Nos. NMR05A735, NMR05A734,	§	
and NM0028355	§	

FEDERAL FACILITY COMPLIANCE AGREEMENT

I. PURPOSE AND SCOPE

1. The United States Environmental Protection Agency (EPA) and the United States Department of Energy (DOE) enter into this Federal Facility Compliance Agreement (Agreement) pursuant to the Clean Water Act, 33 U.S.C. §§ 1251-1387 (CWA). The purpose of the Agreement is to establish a compliance program for the regulation of storm water discharges from Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) point sources at the Los Alamos National Laboratory (Laboratory) until such time as those sources are regulated by an individual storm water permit issued by EPA pursuant to the National Pollutant Discharge Elimination System (NPDES). The purpose of the compliance program is to provide a schedule to ensure compliance with the NPDES storm water permitting program. The scope of this Agreement is limited to providing a compliance program for the regulation of storm water discharges from SWMUs and AOCs at the Laboratory in lieu of the Laboratory's Storm Water Multi-Sector General Permit.

II. FINDINGS OF FACT AND CONCLUSIONS OF LAW

2. The Laboratory is a federal facility comprising approximately 40 square miles located in Los Alamos County, in north-central New Mexico. The facility is owned by DOE and is managed by the University of California for DOE's National Nuclear Security Administration.

3. A number of conventional industrial facilities are located at the Laboratory, some of which have associated SWMUs and AOCs that discharge storm water. All SWMUs and AOCs that discharge storm water (collectively, Sites) are covered by this Agreement, with the following exceptions: (a) new releases from operating units at the facility; (b) closure and post-closure care activities under 40 CFR Part 264 subpart G; (c) implementation of controls, including long-term monitoring, for any SWMU or AOC on the Laboratory's Resource Conservation and Recovery Act (RCRA) permit Corrective Action Complete With Controls list; and (d) any release that occurs after the date that the Order on Consent entered into by DOE, the University of California, and the New Mexico Environment Department (NMED), governing corrective action at the Laboratory, terminates.

4. The discharge of storm water at the Laboratory is regulated by NPDES Storm Water Multi-Sector General Permit Nos. NMR05A734 (University of California) and NMR05A735 (DOE), herein the "General Permit," which both became effective on December 23, 2000, pursuant to 65 FR 64746 (October 30, 2000). The point sources discharges of storm water regulated by the General Permit include the SWMUs.

5. DOE has initiated discussions with EPA to apply for an individual permit for the Sites, which will replace existing coverage under the General Permit. Other industrial activities will continue to be regulated by the General Permit.

III. PARTIES

6. The Parties to this FFCA are EPA and DOE.

7. The undersigned representatives of the Parties to this Agreement certify that they are fully authorized by the Party whom they represent to enter into the terms and conditions of the Agreement and to execute and legally bind that Party hereto.

IV. COMPLIANCE PROGRAM

8. DOE shall submit by December 31, 2004, a signed application to EPA Region 6 for an individual storm water discharge permit for the Sites, and any additional required materials and information to make the application administratively complete by March 31, 2005. The signed application for individual storm water discharge coverage was dated December 20, 2004, and received by EPA before December 31, 2004.

9. Until EPA issues an individual permit, the Laboratory shall comply with the schedule established by this Agreement for monitoring and reporting of storm water discharges from the Sites. This schedule is intended to foster management of the Sites to prevent or minimize erosion and the transport of pollutants or contaminants from the Sites by storm water runoff. During the period this Agreement is in effect, DOE must comply with all requirements of the current General Permit. This Agreement does not constitute a waiver or modification of

the terms or conditions of any NPDES permit. Compliance with the terms and conditions of this Agreement does not relieve DOE of its obligations to comply with any applicable federal, state, or local law or regulation (see paragraph 31).

10. Under this Agreement there shall be two kinds of monitoring, pursuant to two monitoring and management plans, namely: (a) sampling on a watershed basis at approximately 60 automated monitoring stations at various locations within the Laboratory canyons pursuant to a Storm Water Monitoring Plan (see paragraphs 13 through 16 for more details) as listed in attached Table 1 (watershed monitoring); and (b) sampling near specific Sites on a rotating basis (Site-specific monitoring pursuant to a SWMU Storm Water Pollution Prevention Plan (SWMU/SWPPP)) (see paragraphs 18 through 23 for more details). .

11. For purposes of this Agreement, "pollutants or contaminants" shall be defined to include: (a) "contaminants" in Section III.B. of the Order on Consent entered into by DOE, the University of California, and NMED, governing corrective action at the Laboratory; (b) "water contaminants" under the State of New Mexico Standards for Interstate and Intrastate Surface Waters (20.6.4 NMAC); and (c) "pollutants" under the CWA. The purpose of storm water monitoring under this Agreement is to determine if there is a release or transport of a pollutant or contaminant from a Site into surface water that could cause or contribute to a violation of applicable surface water quality standards, including the antidegradation policy, or an applicable waste load allocation. If a release or transport has occurred, it may be necessary to implement best management practices (BMPs) to reduce or prevent erosion or to reexamine, repair, or modify existing BMPs to reduce or prevent erosion.

12. The chemical analytical methods used shall be those set forth in 40 CFR Part 136 or the New Mexico Water Quality Control Commission (WQCC) regulations. The use of alternative methods shall be detailed in Monitoring Plans as needed, and the Plans must be approved by EPA prior to use by DOE.

13. By November 1, 2004, DOE shall submit to EPA Region 6 a Storm Water Monitoring Plan (SWMP) for FY04 that shall include watershed-specific storm water monitoring, sampling and reporting requirements for watershed monitoring stations (approximately 60 stations). A copy shall also be provided to NMED at the same time.

14. DOE shall submit annual updates of the SWMP to EPA for review and approval, with copies provided to NMED, by March 31st of each year, beginning in 2005. Storm water monitoring and sampling addressed in the SWMP refers to the monitoring and sampling at watershed monitoring stations. EPA's review and approval of the SWMP and updates of the plan shall be coordinated with input from NMED.

15. Upon approval of the first SWMP submitted pursuant to this Agreement, DOE shall conduct storm water monitoring at the Laboratory stations designated in the attached Table 1, following precipitation events that produce a discharge in volumes large enough to allow for sample collection. If new information warrants, DOE shall also conduct storm water monitoring at other locations. These other locations must be submitted to EPA for approval as part of the annual updates to the SWMP as discussed in paragraph 14.

16. Storm water monitoring shall consist of water levels, precipitation measurements from existing regional rain gages or supplemental rain gages and analysis of the parameters

specified in the SWMP. These parameters shall initially include the specific analytical suites specified in attached Table 1, as well as any other parameters specified in the SWMP and updates of the plan.

17. After four samples are collected at a particular station, DOE shall evaluate the data and propose changes, as appropriate, in the SWMP to EPA for approval in the annual update to the SWMP.

18. DOE shall submit a Site-specific storm water monitoring plan for fiscal year 2005, known as a SWMU Storm Water Pollution Prevention Plan (SWMU/SWPPP), to EPA for review and approval (with a copy provided to NMED), by March 31, 2005. EPA's review and approval of the SWMU/SWPPP shall be coordinated with input from NMED.

19. The SWMU/SWPPP shall describe a monitoring and erosion control program to control and limit contamination migration and transport from Sites within the Laboratory and within individual or combined site boundaries and to monitor the effectiveness of controls at the sites.

20. DOE shall continue to evaluate all Sites for erosion potential, using the Laboratory's Standard Operating Procedure – *Surface Water Site Assessment* (SOP 2.01). DOE shall monitor all Sites scoring above the erosion matrix score of 40 (on a scale of 0-100) (see Table 2) during the next four (4) years. DOE will attach a table to the SWMU/SWPPP and each update showing the Sites scoring above 40 and the year in which the Sites will be sampled according to the SWMU/SWPPP. Monitoring shall be required to continue until the absence of pollutants or contaminants in runoff exceeding water screening action levels has been verified.

21. The initial SWMU/SWPPP for the Sites, due on March 31, 2005, shall contain: (a) a description of the approach employed to identify and prioritize the Sites by watershed where there is the greatest potential for erosion and contamination to impact surface water(s) of the state; (b) a description of the types of erosion control measures implemented; (c) a description of the process for determining the specific erosion control measures and monitoring program to be implemented at each Site; (d) the criteria for evaluating which Sites may be grouped as substantially identical outfalls or storm water management areas; (e) a description of post sampling activities, including data assessment and contingency measures to address releases that may be identified during sampling; and (f) an inspection and maintenance schedule. The initial SWMU/SWPPP will also identify the initial group of Sites that were individually monitored during 2004, and the group of Sites to be individually monitored in 2005.

22. DOE shall submit annual updates of the SWMU/SWPPP to EPA for review and approval, with a copy provided to NMED, by March 31st of each year, beginning in 2006. The annual updates to the SWMU/SWPPP shall include: (a) any proposed changes to the Site-specific erosion control and monitoring program; (b) the tabular results of Site-specific monitoring and sampling conducted at the Laboratory during the previous year; (c) any proposed changes to the inspection and maintenance schedule for existing or proposed erosion controls at designated Sites; (d) the criteria used to determine the need for erosion control measures maintenance and/or upgrades; and (e) the group of Sites that shall be individually monitored during the coming year.

23. Site-specific monitoring stations shall be generally located upstream of the confluence with other surface water(s) and in a location that allows for the collection of representative samples. Constituents to be monitored at each Site shall at a minimum include the pollutants or contaminants identified in Table 1 or in the applicable SWMU/SWPPP.

24. DOE shall comply with the applicable surface water quality standards pursuant to the CWA (33 U.S.C. §§ 1251-1387), the New Mexico Standards for Interstate and Intrastate Surface Waters (20.6.4 NMAC) and this Agreement. Pollutant or contaminant concentrations shall be compared to the appropriate water screening action level (wSAL) to determine whether pollutant or contaminant transport has occurred. The wSALs shall be established in the SWMP and the SWMU/SWPPP. If there are pollutants or contaminants detected above an established wSAL, DOE shall conduct an investigation to determine the source within 30 days of receipt of the data, and evaluate BMPs in accordance with subparagraphs A through D of this paragraph. Where an analytical result is higher than a wSAL, DOE shall take appropriate and timely corrective actions. For the purposes of this agreement, corrective action may include: install, re-examine, repair, modify BMPs, or source identification to control or eliminate the source or migration of pollutants or contaminants. Corrective actions taken to address exceedances of wSALs shall be reported to EPA Region 6 and NMED with the quarterly status report pursuant to paragraph 27, and shall be included in the annual modification of the SWMU/SWPPP. Failure to take corrective action in accordance with this paragraph shall be a violation of this Agreement. Each exceedance shall require additional corrective actions in accordance with this paragraph. Exceedances of wSALs are not necessarily violations of water quality standards and

the purpose of wSALs is to determine the level of BMPs necessary to protect water quality standards. DOE shall identify the contaminants that are present in soil and sediment at concentrations greater than NMED approved background concentrations (Ryti, et al., 1998) at each SWMU or AOC upstream from all watershed monitoring stations. DOE must monitor for the identified contaminants and implement corrective action as follows:

A. If only one unfiltered grab sample is collected in a three-month period and the analytical result is greater than the wSAL, then DOE will identify the source and implement corrective actions.

B. If more than one, but less than four unfiltered grab samples are collected in a three month period, and the analytical results of any one sample exceeds the wSAL, then DOE will identify the source and implement corrective actions.

C. If four or more unfiltered samples are collected during a three-month period, and the analytical result of only one sample is greater than the wSAL, then DOE will, at a minimum, examine the site, and make repairs if necessary. No additional corrective action is required at that time.

D. If corrective actions are required at any SWMU or AOC, then monitoring shall continue for a minimum of one additional year.

V. REPORTING

25. For watershed monitoring, the monitoring period shall be the calendar year. All results for watershed monitoring shall be submitted to EPA and NMED by March 31st of each

year following the monitoring period (e.g., DOE shall submit the results for calendar year 2004 by March 31, 2005). Exceedances of wSALs shall be reported in writing to EPA and NMED monthly by the 28th day of the following month in which analytical results are received.

26. All results for Site-specific monitoring according to the SWMU/SWPPP shall be reported to EPA and NMED by March 31st of each year following the monitoring period (e.g., monitoring results for calendar year 2004 shall be reported by March 31, 2005). Exceedances of wSALs shall be reported in writing to EPA and NMED monthly, by the 28th day of the following month.

27. DOE shall submit a written status report to EPA Region 6 and NMED Surface Water Quality Bureau no later than sixty (60) days after the end of each quarter. The status report shall be submitted in addition to any other reporting or certification required under this Agreement or pursuant to law or regulation. The status report shall state and describe the cause of any failure to comply with this Agreement and at a minimum shall include: (a) the deadlines and other milestones which DOE was required to meet during the reporting period; (b) the progress made toward meeting the deadlines and other milestones; (c) the reasons for any noncompliance; and (d) corrective actions taken to address exceedances of wSALs, and (e) a description of any matters relevant to the status of its compliance with this Agreement.

28. Notification to EPA of any noncompliance with any provision of the Agreement or anticipated delay in performing any obligation under the Agreement shall not excuse DOE's noncompliance or anticipated delay.

29. Unless specified otherwise, when written notification to, or communication with EPA is required by the terms of the Agreement, it shall be addressed to Ms. Waudelle Strickley, U.S. EPA Region 6, 1445 Ross Avenue, Suite 1200 (6EN-WC), Dallas, Texas 75202-2733. Correspondence to NMED shall be addressed to New Mexico Environment Department, Surface Water Quality Bureau Chief, Harold Runnels Building, 1190 St. Francis Dr., P.O. Box 26110, Santa Fe, New Mexico 87502-6110.

30. Each notification or communication to EPA or NMED shall be deemed submitted on the date it is postmarked and shall be sent by certified mail, return receipt requested. DOE shall maintain records of each notification or communication to EPA for the duration of the Agreement.

31. All reports submitted to EPA or NMED pursuant to this Agreement shall be signed by a duly authorized representative of DOE in accordance with 40 C.F.R. § 122.22(b). Each submission shall be admissible as evidence in any proceeding to enforce this Agreement. Each submission shall include the following certification pursuant to 40 C.F.R. § 122.22(d):

> I certify under penalty of law that this document and all accompanying attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

VI. COMPLIANCE WITH OTHER LAWS AND REGULATIONS

32. Compliance with the terms of this Agreement shall not affect or relieve DOE of its obligations to comply with all applicable requirements of the CWA and regulations promulgated thereunder or other applicable requirements of federal, state, tribal or local law.

VII. ENTRY AND INSPECTION

33. DOE shall allow EPA or NMED representatives, including an authorized contractor acting as a representative of EPA, upon presentation of credentials and other documents as may be required by law or institutional safety/security requirements, to: (a) enter the premises of the Laboratory to conduct inspections for the purpose of determining whether DOE is in compliance with the Agreement; (b) have access to, and copy at reasonable times any records which relate to the activities regulated under the Agreement; (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under the Agreement; and (d) sample or monitor at reasonable times for the purpose of assuring compliance with the Agreement. Nothing herein shall be construed to limit or expand EPA's or NMED's entry and inspection authority under the CWA, or other applicable laws.

VIII. DISPUTE RESOLUTION

34. In the event of a dispute relating to an interpretation or alleged violation of this Agreement, EPA and DOE shall meet promptly and work in good faith in an effort to reach a mutually agreeable resolution of the dispute.

35. The procedures set forth in this Agreement for the resolution of disputes relating to this Agreement shall govern the resolution of such disputes, unless otherwise specifically provided for in the Agreement. During the pendency of any dispute, DOE shall continue to abide by those provisions of the Agreement, which are not in dispute.

36. The pendency of any dispute relating to this Agreement shall not affect DOE's responsibility to perform the work required by this Agreement in a timely manner, except that the time period for completion of work affected by such dispute may, at EPA's sole discretion, be extended for a period of time not to exceed the actual time taken to resolve any good faith dispute in accordance with the procedures specified herein. All elements of work required by this Agreement, which are not affected by the dispute, shall continue and be completed in accordance with applicable schedule.

37. The parties to this Agreement shall make all reasonable efforts to informally resolve disputes with the project manager or immediate supervisor level. The EPA official, with respect to this Agreement, is Mr. Taylor Sharpe, Enforcement Officer, EPA Region 6. The DOE Project Manager, with respect to this Agreement, means the LASO Environmental Permit Manager. If a resolution cannot be achieved informally, the procedures of this section shall be implemented to resolve a dispute.

38. Within fourteen days following an event which gives rise to a dispute DOE shall submit to EPA a written statement setting forth the nature of the dispute, DOE's position with respect to the dispute and the factual and other information DOE is relying upon to support its position. NMED shall be provided a copy of the written statement at the same time. If DOE

does not provide such written statement to EPA within the fourteen-day period, DOE shall be deemed to have agreed with EPA's position with respect to the dispute.

39. Upon EPA's receipt of DOE's written statement the Project Managers and/or their immediate managers shall engage in discussions to resolve the dispute. The parties shall resolve the dispute within fourteen days of EPA's receipt of DOE's written statement. During the fourteen-day period, the Project Managers shall confer as many times as necessary to discuss and attempt to resolve the dispute. If an agreement is not reached on any issue within the fourteen-day period, DOE may within ten days thereafter submit a written notice to EPA elevating the dispute to the Dispute Resolution Committee (DRC) for resolution. If DOE does not elevate the dispute to the DRC within the ten-day period, DOE shall be deemed to have agreed with EPA's position with respect to the dispute.

40. The DRC will serve as a forum for resolution of disputes for which agreement has not been reached pursuant to the foregoing paragraphs in this section. Following elevation of a dispute to the DRC, the DRC shall have thirty days to unanimously resolve the dispute. The EPA representative on the DRC is Mr. John Emerson, EPA Region 6. The DOE representative on the DRC is the LASO Assistant Manager for Environmental Management. Notice of the delegation of the authority from a party's representative on the DRC to an alternate shall be provided to the other party in writing within seven days of the delegation.

41. If unanimous resolution by the DRC is not achieved within the thirty-day period, DOE may, within twenty-one days thereafter, submit a written notice of dispute to the Regional Administrator of EPA Region 6 for final resolution of the dispute. In the event that the dispute

is not elevated to the Regional Administrator of EPA Region 6 within the twenty-one day period, DOE shall be deemed to have agreed with the original EPA position with respect to the dispute.

42. Within twenty-one days of the resolution of a dispute, pursuant to the procedures specified in this section, DOE shall incorporate the resolution and final determination into the appropriate statement of work, plan, schedule or procedures and proceed to implement this Agreement according to the amended statement of work, plan, schedule or procedures.

43. Resolution of a dispute pursuant to this section of the Agreement constitutes a final resolution of any dispute arising under this Agreement. The parties shall abide by all the terms and conditions of any final resolution of dispute obtained pursuant to this section of the Agreement.

IX. MODIFICATIONS

44. The requirements, timetables and deadlines under this Agreement may be modified upon DOE's request for modification and upon a showing of good cause for the modification. A request for modification shall be submitted in writing to EPA Region 6 within ten days of the event or circumstances giving rise to the request and shall specify the requirement, timetable or deadline for which a modification is sought; the circumstances constituting good cause and any related requirement, timetable, deadline or schedule that would be affected if the request were granted. NMED shall be provided a copy of the request at the same time as EPA.

45. Good cause exists for a modification when sought with respect to: (a) a force majeure event; (b) a delay caused, or which is likely to be caused, by the granting of a modification with regard to another timetable, deadline or schedule; (c) a delay caused by failure of a regulatory agency to perform its duties in a timely manner, where regulatory action is necessary to proceed with performance of an obligation in a timely manner and DOE has made a timely and complete request for action from the regulatory agency; (d) a scientific basis exists which demonstrates that another requirement, deadline or timetable would be adequate to achieve the wSALs set forth in this Agreement, protect water quality and achieve the goals of the CWA; or (e) any other event or series of events mutually agreed to by the parties as constituting good cause.

46. For the purposes of this Agreement, force majeure means any event arising from causes beyond the control of DOE or of entities controlled by DOE, including, but not limited to, contractors and subcontractors, which could not be overcome by the due diligence of DOE or the entities controlled by DOE, which event delays or prevents the performance of any obligation under this Agreement, including acts of God or war, labor unrest, civil disturbance or any judicial order which prevents compliance with the provisions of this Agreement. Force majeure shall not include increased costs of the performance of any activity required by this Agreement, the failure of contractors, employees or agents of DOE to perform or the avoidable malfunction of equipment.

47. Within twenty-one days of receipt of a request for a modification EPA shall advise DOE and NMED of its position on the request. If EPA does not concur in the modification, it shall so advise DOE in writing and include an explanation of the basis for its position.

X. FUNDING

48. It is the expectation of the parties that all obligations of DOE under the Agreement will be fully funded. DOE agrees to use every legally available mechanism to seek sufficient funding to fulfill its obligations under the Agreement.

49. No provision herein shall be interpreted to require obligations or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. § 1341. Where a payment or obligation of funds would constitute a violation of the Anti-Deficiency Act, the dates established for the payment or obligation shall be appropriately adjusted within the terms set forth in this Agreement.

50. If funds are not available to fulfill DOE’s obligations under this Agreement, EPA reserves the right to initiate an action against any other person or to take any action which would be appropriate absent this Agreement.

XI. GENERAL PROVISIONS

51. The parties agree that the terms and conditions of this Agreement are enforceable as appropriate by any person pursuant to Section 505 of the CWA, 33 U.S.C. § 1365. Terms and conditions of this Agreement which are changed by an agreed upon modification shall be enforceable as changed. Nothing in this Agreement shall be deemed to waive the sovereign immunity of the United States beyond what is already accomplished in the CWA.

52. This Agreement has been negotiated and executed by the parties in good faith to ensure compliance with the law. No part of this Agreement constitutes or should be interpreted or construed as an admission of fact or of liability under federal, state or local laws, regulations, ordinances or common law or as an admission of a violation of any law, regulation, ordinance or common law. By entering into this Agreement DOE does not waive any claim, right or defense that it might raise in any other proceeding or action.

53. If any provision or authority of this Agreement or the application of this Agreement to any party or circumstance is determined by any judicial or administrative authority to be invalid, the application of such provisions to other parties or circumstances and the other provisions of the Agreement shall remain in full force and effect and shall not be affected thereby.

54. The effective date of this Agreement shall be the date on which it is signed by the last signatory. This Agreement shall be effective if signed in counterparts.

55. All references to "days" herein are references to calendar days. The last day of a time period shall be included, unless it is a Saturday, a Sunday or a legal holiday in which event the period runs until the end of the next day that is not a Saturday, a Sunday or a legal holiday.

56. This Agreement shall terminate upon the issuance of an individual permit, which regulates discharges of storm water governed by this Agreement.

2/3/05
Date

John Blevins
Director
Compliance Assurance and
Enforcement Division
U. S. EPA Region 6

1/31/05
Date

Edwin L. Wilmot
Manager
Los Alamos Site Office
National Nuclear Security Administration
U. S. Department of Energy

Table 1
Surface Water Monitoring and Sampling Stations

Canyon and Location	Current Monitoring Station	Sources Monitored	Proposed SWMU Monitoring Station	Order Requested Analytical Suite
Los Alamos/Pueblo Canyon Watershed Gage Stations				
Los Alamos Canyon (Reservoir, or above Ice Rink, or below Ice Rink)	E026	Watershed (ESR Support)		Metals, PCBs, Flow
Los Alamos Canyon above DP Canyon	E030	SWMUs		Metals, PCBs, Flow
DP Canyon above TA-21	E038	SWMUs		Metals, PCBs, Flow
DP Canyon below meadow at TA-21	E039	SWMUs		Metals, PCBs, Flow
DP Canyon above Los Alamos Canyon	E040	Watershed (ESR Support)		Metals, Flow
Los Alamos above SR-4	E042	SWMUs		Metals, Flow
Los Alamos below LA Weir (Downstream Facility Boundary)	E050	Watershed (ESR Support)		Metals, PCBs, Flow
Pueblo Canyon above Acid Canyon	E055	SWMUs		Metals, PCBs, Flow
South Fork of Acid Canyon	E055.5	Watershed (ESR Support)		Metals, PCBs, Flow
Acid Canyon above Pueblo Canyon	E056	SWMUs		Metals, PCBs, Flow
Pueblo above SR 502 (Downstream Facility Boundary)	E060	SWMUs		Metals, PCBs, Dioxins/Furans, Flow
Guaje Canyon at SR 502	E099	Watershed (ESR Support)		Metals, PCBs, Flow
Los Alamos at Rio Grande	E110	Watershed (ESR Support)		Metals, PCBs, Dioxins/Furans, Flow
Sandia Canyon Watershed Gage Stations				

Canyon and Location	Current Monitoring Station	Sources Monitored	Proposed SWMU Monitoring Station	Order Requested Analytical Suite
Sandia Canyon, right fork at Power Plant (South Fork)	E121	Power Plant and SWMUs		Metals, Molybdenum, PCBs, Flow
Sandia Canyon, left fork at Asphalt Plant (North Fork)	E122	3-38 Metals Shop and SWMUs		Metals, PCBs, Flow
Sandia Canyon below Wetlands	E123	Watershed (ESR Support)		Metals, Molybdenum, PCBs, Flow
Sandia Canyon above Firing Range	E124	SWMUs		Metals, HE, PCBs, Flow
Sandia Canyon above SR 4 (Downstream Facility Boundary)	E125	Watershed (ESR Support)		Metals, HE, PCBs, Flow
Mortandad Canyon Watershed Gage Stations				
Mortandad Canyon below Effluent Canyon	E200	SWMUs		Metals, Perchlorate, PCBs, Flow
Mortandad Canyon above Ten Site	E201	SWMUs		Metals, Perchlorate, PCBs,
TA-50 South (MDA C)	E201.3	TSDFs and SWMUs	201.5	Metals, Flow
Ten Site Canyon above Mortandad	E201.5	SWMUs		Metals, Flow
Mortandad above Sediment Traps	E202	Watershed (ESR Support)		Metals, Flow
Mortandad below Sediment Traps	E203	Watershed (ESR Support)		Metals, Flow
Mortandad at Facility Boundary (Downstream Facility Boundary)	E204	SWMUs		Metals, Perchlorate, Flow
Upper Cañada del Buey	E218	SWMUs		SCC, Rad, Metals, PCB, Flow
46-004(a)	Wasteline	SWMUs		"
46-004(a2)	Outfall	SWMUs		"
46-004(c2)	Outfall	SWMUs		"

Canyon and Location	Current Monitoring Station	Sources Monitored	Proposed SWMU Monitoring Station	Order Requested Analytical Suite
46-004(d2)	Stack emissions	SWMUs		"
46-004(g)	Outfall/Stack Emissions	SWMUs		"
46-004(h)	Outfall/Stack Emissions	SWMUs		"
46-004(m)	Outfall	SWMUs		"
46-004(s)	Outfall	SWMUs		"
Cañada del Buey near MDA G	E225	SWMUs		Metals, PCBs, Flow
Cañada del Buey above SR 4 (Downstream Facility Boundary)	E230	Watershed (ESR Support)		Metals, PCBs, Flow
Pajarito Canyon Watershed Gage Stations				
Pajarito Canyon below SR 501	E240	Watershed (ESR Support)		Metals, Flow
Pajarito above Starmers	E241	Watershed (ESR Support)		Metals, Flow
Starmers above Pajarito	E242	SWMUs		Metals, Flow
La Delfe above Pajarito	E242.5	SWMUs		Metals, HE, Flow
Pajarito above Two-Mile Confluence	E243	SWMUs		Metals, HE, Flow
Two Mile Tributary at TA-3	E243.5	3-38 Metals Shop and SWMUs	E244	Metals, Dioxin/Furans, Flow
Two Mile above Pajarito Confluence	E244	SWMUs		Metals, Dioxin/Furan, HE, PCBs, Flow
Three Mile above Pajarito Confluence	E246	SWMUs		Metals, HE, PCBs, Flow

Canyon and Location	Current Monitoring Station	Sources Monitored	Proposed SWMU Monitoring Station	Order Requested Analytical Suite
Pajarito above TA-18	E245	Watershed (ESR Support)		Metals, HE, PCBs, Flow
Pajarito above Three Mile	E245.5	Watershed (ESR Support)		Metals, HE, PCBs, Flow
Pajarito (TA-54-MDA G)	E247	Watershed (ESR Support)		Metals, PCBs, Flow
Pajarito (TA-54-MDA G)	E227	TSDF and Landfill	E230	Metals, PCBs, Flow
Pajarito (TA-54-MDA G)	E248.5	TSDF and Landfill	E250	Metals, PCBs, Flow
Pajarito (TA-54-MDA G)	E249	TSDF and Landfill	E250	Metals, PCBs, Flow
Pajarito above SR 4 (Downstream Facility Boundary)	E250	TSDF and Landfill		Metals, HE, Dioxins/Furans, PCBs, Flow
Water Canyon Watershed Gage Stations				
Water Canyon above SR 502	E252	Watershed (ESR Support)		Metals, Flow
Cañon de Valle	E253	Watershed (ESR Support)		Metals, Flow
Cañon de Valle below MDA P	E256	TSDFs and SWMUs		Metals, HE, Flow
Cañon de Valle tributary at Burning Grounds	E257	TSDF	E261	Metals, HE, Flow
Water Canyon above S-Site Canyon	E260	SWMUs		Metals, HE, Flow
S-Site Canyon above Water Canyon	E261	SWMUs		Metals, HE, Flow

Canyon and Location	Current Monitoring Station	Sources Monitored	Proposed SWMU Monitoring Station	Order Requested Analytical Suite
Cañon de Valle above Water Canyon	E262	TSDFs and SWMUs		Metals, HE, Flow
Water Canyon below MDA AB	E262.5	SWMUs		Metals, HE, Flow
Water Canyon at SR 4	E263	Watershed (ESR Support)		Metals, HE, Flow
Indio Canyon at SR 4	E264	Watershed (ESR Support)		Metals, HE, Flow
Water below SR 4 (Downstream Facility Boundary)	E265	Watershed (ESR Support)		Metals, PCBs, Flow
Potrillo Canyon at Lower Slobovia	E266	SWMUs		Metals, HE, Flow
Potrillo above SR 4 (Downstream Facility Boundary)	E267	SWMUs		Metals, Flow
Ancho Canyon Watershed Gage Stations				
Ancho Canyon, north fork below SR 4 (TA-39)	E274	TSDFs and SWMUs		Metals, HE, PCBs, Flow
Ancho Canyon, below SR 4 (Downstream Facility Boundary)	E275	Watershed (ESR Support)		Metals, HE, PCBs, Flow
Chaquehui Canyon Watershed Gage Stations				
Chaquehui at TA-33 (South Site)	E338	SWMUs		Metals, Flow
Chaquehui tributary at TA-33 (Main Site)	E340	SWMUs		Metals, Flow

TABLE - 2

Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
00-010(a)	51.5	Surface disposal site	Yes	No	No	Pueblo Canyon	
00-011(d)	73.8	Mortar impact area	Yes	No	Yes	Rendija Canyon	
00-017	67.5	Waste lines	Yes	No	Yes	Los Alamos Canyon	
00-018(a)	42.8	Sludge bed Wastewater treatment plant Pueblo (decommissioned)	Yes	No	Yes	Pueblo Canyon	
00-019	51.5	Wastewater treatment plant, Central	Yes	Yes	Yes	Graduation Canyon	
00-029(b)	42.8	Transformer	No	No	No	Pueblo Canyon	
00-030(g)	47.2	Septic system (near old Catholic Church parking lot)	Yes	No	Yes	Acid Canyon	
00-030(i)	54.5	Septic system	Yes	Yes	No	Los Alamos Canyon	
01-001(c)	76.5	Septic tank 137	Yes	No	Yes	Los Alamos Canyon	
01-001(d)	74.5	Septic tank 138 (hillside)	Yes	Yes	Yes	Los Alamos Canyon	
01-001(f)	56.7	Septic tank 140 (hillside)	Yes	Yes	Yes	Los Alamos Canyon	
01-002	71.5	Former Outfall TA-45 (PRS listed as TA-1)	Yes	Yes	Yes	Acid Canyon	
01-003(a)	79.0	Landfill	Yes	No	Yes	Los Alamos Canyon	
01-003(d)	49.5	Surface disposal site (Can dump)	Yes	Yes	Yes	Los Alamos Canyon	
01-003(e)	83.0	Surface disposal site	Yes	Yes	Yes	Los Alamos Canyon	
01-006(b)	76.5	Drain lines and outfall	Yes	No	Yes	Los Alamos Canyon	
01-006(c)	76.5	Drain lines and outfall	Yes	No	Yes	Los Alamos Canyon	
01-006(d)	76.5	Drain lines and outfall	Yes	No	Yes	Los Alamos Canyon	
01-006(n)	76.5	Drain lines and outfall	Yes	No	Yes	Los Alamos Canyon	
02-003(a)	57.6	Reactor facility	Yes	No	No	Los Alamos Canyon	
02-003(e)	40.5	Holding tank (near reactor water boiler)	Yes	No	No	Los Alamos Canyon	
02-006(b)	51.8	Ind. or san. waste water treat.	Yes	Yes	Yes	Los Alamos Canyon	
02-007	44.8	Septic system	Yes	Yes	Yes	Los Alamos Canyon	
02-008(a)	55.8	Outfall	Yes	Yes	Yes	Los Alamos Canyon	
02-009(a)	57.0	Non-intentional release	Yes	Yes	Yes	Los Alamos Canyon	
02-009(b)	44.8	Non-intentional release	Yes	Yes	Yes	Los Alamos Canyon	
02-009(c)	51.3	Non-intentional release	Yes	Yes	Yes	Los Alamos Canyon	
02-011(a)	57.0	Storm drain and outfall	Yes	No	No	Los Alamos Canyon	
03-003(m)	46.3	Storage area (Capacitor banks)	Yes	No	No	Sandia Canyon	
03-009(a)	61.3	Surface disposal (soil fill)	No	No	Yes	Sandia Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
03-009(c)	42.0	Surface disposal	No	No	No	Mortandad Canyon	Approved NFA
03-009(d)	42.8	Surface disposal site	Yes	Yes	Yes	Two Mile Canyon	
03-010(a)	69.0	vacuum repair shop (former location) Systematic release site	Yes	Yes	Yes	Two Mile Canyon	
03-012(a)	43.3	One-time spill	Yes	No	No	Mortandad Canyon	Approved NFA
03-012(b)	65.0	Operational release and outfall	Yes	Yes	Yes	Sandia Canyon	
03-013(a)	45.0	Operational release	Yes	Yes	Yes	Sandia Canyon	
03-013(b)	45.0	Operational release	Yes	Yes	No	Sandia Canyon	
03-014(b2)	46.3	Outfall	Yes	No	No	Sandia Canyon	
03-014(c2)	72.0	Outfall	Yes	Yes	No	Sandia Canyon	
03-029	44.3	Landfill	Yes	Yes	Yes	Sandia Canyon	
03-045(b)	65.0	Ind. or san. waste water treatment	Yes	Yes	Yes	Sandia Canyon	
03-045(c)	57.7	Outfall	Yes	Yes	Yes	Sandia Canyon	
03-045(i)	46.5	Outfall (Ind. or san. waste water treatment)	Yes	No	No	Sandia Canyon	Approved NFA
03-052(f)	45.0	Storm drainage	Yes	Yes	Yes	Sandia Canyon	
03-054(b)	65.8	Outfall	Yes	Yes	Yes	Two Mile Canyon	
03-054(e)	89.0	Outfall	Yes	Yes	Yes	Mortandad Canyon	
03-055(a)	61.0	Outfall	Yes	No	Yes	Two Mile Canyon	
03-055(b)	73.5	Outfall	Yes	Yes	No	Two Mile Canyon	
03-056(c)	45.0	Transformer storage area - PCB only site	Yes	Yes	Yes	Sandia Canyon	
04-001	45.0	Firing Site	Yes	Yes	Yes	Ten Site Canyon	
04-002	51.5	Surface disposal	Yes	Yes	Yes	Ten Site Canyon	
04-003(a)	57.3	Outfall	Yes	No	Yes	Canada del Buey	
04-003(b)	51.5	Outfall	Yes	Yes	Yes	Ten Site Canyon	
04-004	57.3	Soil contamination beneath bldgs.	Yes	No	No	Canada del Buey	
05-001(a)	45.0	Former Firing Site	Yes	Yes	Yes	Mortandad Canyon	
05-001(b)	45.0	Former Firing Site	Yes	Yes	Yes	Mortandad Canyon	
05-001(c)	73.5	Former Firing Site	Yes	Yes	No	Mortandad Canyon	
05-004	49.7	Former Septic system	Yes	Yes	Yes	Mortandad Canyon	
05-005(a)	45.0	Former French drain	Yes	Yes	Yes	Mortandad Canyon	
05-005(b)	53.7	Outfall	Yes	Yes	Yes	Mortandad Canyon	
05-006(b)	45.0	Soil contamination beneath former bldgs.	Yes	Yes	Yes	Mortandad Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
05-006(c)	53.7	Soil contamination beneath former bldgs.	Yes	Yes	Yes	Mortandad Canyon	
05-006(e)	45.0	Soil contamination beneath former bldgs.	Yes	Yes	Yes	Mortandad Canyon	
05-006(h)	45.0	Soil contamination beneath former bldgs.	Yes	Yes	Yes	Mortandad Canyon	
06-007(g)	50.8	Building & surface disposal	Yes	Yes	Yes	Two Mile Canyon	
07-001(b)	55.5	Firing site (inactive)	Yes	Yes	Yes	Pajarito Canyon	
07-001(c)	46.7	Firing site (inactive)	No	No	Yes	Two Mile Canyon	
07-001(d)	55.5	Firing site (inactive)	Yes	Yes	Yes	Two Mile Canyon	
08-005	51.0	Container storage area	No	No	Yes	Pajarito Canyon	
08-006(a)	55.5	Material disposal area (MDA Q) Land fill	Yes	No	Yes	Pajarito Canyon	
08-009(d)	40.2	Ind. or san. wastewater treat.	No	No	Yes	Pajarito Canyon	
08-009(f)	42.0	Outfall	Yes	No	No	Pajarito Canyon	
09-004(g)	61.8	Settling tank	No	No	Yes	Pajarito Canyon	
09-004(o)	43.8	Settling tank	Yes	Yes	Yes	Pajarito Canyon	
09-005(a)	51.0	Septic system	No	No	Yes	Pajarito Canyon	
09-005(g)	51.0	Septic system	No	No	Yes	Pajarito Canyon	
09-009	58.8	Surface impoundment	Yes	Yes	Yes	Pajarito Canyon	
09-013	56.0	Material disposal area (MDA M)	Yes	Yes	Yes	Pajarito Canyon	
11-001(c)	56.2	Firing site (inactive)	Yes	Yes	Yes	Water Canyon	
11-003(a)	81.0	Mortar impact area	Yes	Yes	No	Water Canyon	
11-003(b)	55.5	Air Gun	Yes	No	No	Water Canyon	
11-004(a)	56.0	Drop tower - Firing Site (active)	Yes	Yes	Yes	Water Canyon	
11-004(b)	56.0	Drop tower - Firing Site (active)	Yes	Yes	Yes	Water Canyon	
11-004(c)	56.0	Drop tower - Firing Site (active)	Yes	Yes	Yes	Water Canyon	
11-004(d)	56.0	Drop tower - Firing Site (active)	Yes	Yes	Yes	Water Canyon	
11-004(e)	56.0	Drop tower - Firing Site (active)	Yes	Yes	Yes	Water Canyon	
11-004(f)	56.0	Drop tower - Firing Site (active)	Yes	Yes	No	Water Canyon	
11-005(c)	59.0	Ind. or san. wastewater treat.	No	No	Yes	Water Canyon	
11-006(b)	52.0	Tank and/or assoc. equip.	Yes	Yes	Yes	Water Canyon	
11-006(c)	68.8	Tank and/or assoc. equip.	Yes	Yes	Yes	Water Canyon	
11-006(d)	74.0	Tank and/or assoc. equip.	Yes	Yes	Yes	Water Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
14-001(g)	53.3	Firing site - active Open Burn/Open Detonation	Yes	No	No	Canon de Valle	
14-002(a)	46.3	Firing site (inactive)	Yes	Yes	Yes	Canon de Valle	
14-002(d)	40.8	Firing site (inactive)	Yes	Yes	Yes	Canon de Valle	
14-002(e)	47.8	Firing site (inactive)	Yes	Yes	Yes	Canon de Valle	
14-005	57.3	Incinerator (active)	Yes	No	Yes	Canon de Valle	
14-006	47.1	Tank and/or assoc. equip.	Yes	Yes	Yes	Canon de Valle	
14-009	53.7	Surface disposal site	Yes	Yes	Yes	Canon de Valle	
14-010	51.5	Sump	Yes	Yes	Yes	Canon de Valle	
15-006(c)	64.5	Firing site R-44 (inactive)	Yes	Yes	Yes	Three Mile Canyon	
15-007(b)	40.2	Material disposal area (MDA Z) Landfill	Yes	Yes	Yes	Canon de Valle	
15-008(a)	72.0	Surface disposal E/F site	Yes	Yes	Yes	Potrillo Canyon	
15-008(b)	67.2	Surface disposal	Yes	Yes	Yes	Three Mile Canyon	
15-008(d)	69.0	Surface disposal (still active)	Yes	No	Yes	Canon de Valle	
15-008(f)	57.3	I-J Firing site mounds @ TA-36 - active	Yes	No	No	Potrillo Canyon	
15-009(c)	71.5	Septic tank	Yes	Yes	Yes	Three Mile Canyon	
15-009(e)	44.7	Septic system E/F site	Yes	Yes	Yes	Potrillo Canyon	
15-010(c)	51.5	Operational release (still active)	Yes	Yes	Yes	Water Canyon	
15-011(b)	87.0	Dry well	Yes	Yes	Yes	Canon de Valle	
15-011(c)	87.0	Sump	Yes	Yes	Yes	Canon de Valle	
15-014(g)	55.5	Ind. or san. wastewater treat.	Yes	No	No	Canon de Valle	
15-014(j)	61.3	Outfall	Yes	Yes	Yes	Canon de Valle	
16-001(a)	67.0	Tank	No	No	Yes	Canon de Valle	
16-001(b)	45.0	Dry wells	No	No	Yes	Canon de Valle	
16-001(c)	45.0	Tank	No	No	Yes	Canon de Valle	
16-001(d)	45.6	Dry well	No	No	Yes	Water Canyon	
16-003(a)	55.5	Sump	Yes	Yes	Yes	Water Canyon	
16-003(f)	56.0	Sump	Yes	Yes	Yes	Water Canyon	
16-006(c)	49.5	Septic system	Yes	Yes	Yes	Water Canyon	
16-006(g)	46.0	Septic tank	No	No	Yes	Water Canyon	
16-010(b)	55.5	Burn site - RCRA Unit	Yes	Yes	Yes	Canon de Valle	
16-010(c)	47.2	Burn site - RCRA Unit	Yes	Yes	Yes	Canon de Valle	
16-010(d)	50.3	Burn site - RCRA Unit	Yes	Yes	Yes	Canon de Valle	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
16-010(g)	46.0	Waste water treatment facility	Yes	Yes	No	Canon de Valle	Approved NFA
16-016(c)	72.0	Landfill	Yes	Yes	Yes	Canon de Valle	
16-016(d)	44.5	Surface disposal site	No	No	Yes	Canon de Valle	
16-016(g)	46.1	Surface disposal site	No	No	Yes	Water Canyon	
16-018	69.3	Material disposal area MDA P RCRA (closure)	Yes	Yes	Yes	Canon de Valle	
16-019	82.5	Material disposal area (MDA R)	Yes	Yes	Yes	Canon de Valle	
16-020	61.3	Silver recovery unit	Yes	Yes	Yes	Canon de Valle	
16-021(c)	73.3	Ind. or san. waste water treatment	Yes	Yes	Yes	Canon de Valle	
16-026(a)	73.5	Outfall	Yes	Yes	Yes	Water Canyon	
16-026(c2)	61.8	Outfall TA-16-462	Yes	Yes	Yes	Water Canyon	
16-026(h2)	61.0	Outfall TA-16-360	Yes	Yes	Yes	Water Canyon	
16-026(j)	40.2	Outfall TA-16-226	Yes	No	Yes	Canon de Valle	
16-026(v)	65.8	Outfall	Yes	Yes	Yes	Water Canyon	
16-026(z)	49.6	Outfall	Yes	No	Yes	Water Canyon	
16-028(a)	51.5	South Drainage	Yes	Yes	Yes	Water Canyon	
16-028(b)	83.0	Ind. or san. waste water treatment TA-16-370	Yes	Yes	Yes	Water Canyon	
16-028(e)	47.2	Ind. or san. waste water treatment	No	No	Yes	Water Canyon	
16-029(s)	45.5	Sump	No	No	Yes	Canon de Valle	
16-029(t)	41.5	Sump	No	No	Yes	Canon de Valle	
16-030(g)	71.0	Outfall	Yes	Yes	No	Water Canyon	
18-003(c)	62.3	Septic system	Yes	Yes	Yes	Three Mile Canyon	
18-010(d)	46.2	Outfall	Yes	No	No	Pajarito Canyon	
18-010(f)	62.3	Outfall	Yes	No	No	Three Mile Canyon	
18-012(a)	59.2	Outfall	Yes	No	Yes	Pajarito Canyon	
18-012(b)	46.6	Outfall	Yes	No	Yes	Pajarito Canyon	
20-002(a)	48.6	Firing site	No	No	Yes	Sandia Canyon	
20-002(c)	73.8	Firing site	Yes	No	Yes	Sandia Canyon	
20-003(c)	57.4	Firing site	Yes	No	No	Sandia Canyon	
21-011(c)	54.0	Tank and Sump	Yes	Yes	Yes	DP Canyon	
21-011(k)	72.0	Outfall	Yes	Yes	Yes	DP Canyon	
21-013(b)	67.0	Surface disposal site	Yes	Yes	Yes	Los Alamos Canyon	
21-013(g)	67.0	Surface disposal site	Yes	Yes	No	BV Canyon	
21-016(a)	54.0	Material disposal area (MDA T)	Yes	Yes	Yes	DP Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
21-016(b)	54.0	Material disposal area (MDA T)	Yes	Yes	Yes	DP Canyon	
21-016(c)	54.0	Material disposal area (MDA T)	Yes	Yes	Yes	DP Canyon	
21-024(e)	56.0	Septic system	Yes	Yes	Yes	Los Alamos Canyon	
21-024(h)	54.0	Septic system	Yes	Yes	Yes	DP Canyon	
21-024(i)	53.7	Septic system	Yes	Yes	Yes	Los Alamos Canyon	
21-027(a)	52.0	Ind. or san. waste water treat.	Yes	No	Yes	Los Alamos Canyon	
21-027(b)	46.8	Outfalls	Yes	No	No	Los Alamos Canyon	Approved NFA
21-027(d)	45.0	Drain line	Yes	No	Yes	Los Alamos Canyon	
21-029	56.6	Soil contamination area	Yes	No	Yes	DP Canyon	
22-014(b)	56.0	Sump	Yes	No	Yes	Two Mile Canyon	
22-015(c)	51.5	Outfall	Yes	Yes	Yes	Pajarito Canyon	
26-001	65.0	Surface disposal site	Yes	Yes	Yes	Los Alamos Canyon	
32-004	42.0	Drain line and outfall - new AOC	Yes	Yes	No	Los Alamos Canyon	
33-004(d)	56.0	Septic system	No	No	Yes	Chaquehui Canyon	
33-004(h)	56.6	Outfall	Yes	No	Yes	Chaquehui Canyon	
33-004(j)	85.0	Outfall	Yes	Yes	Yes	Chaquehui Canyon	
33-005(a)	49.0	Septic system	No	No	Yes	Chaquehui Canyon	
33-005(b)	49.0	Septic system	No	No	Yes	Chaquehui Canyon	
33-005(c)	49.0	Septic system	No	No	Yes	Chaquehui Canyon	
33-006(a)	56.0	Firing site (inactive)	Yes	Yes	Yes	Chaquehui Canyon	
33-007(b)	59.3	Firing range (inactive)	Yes	Yes	Yes	Chaquehui Canyon	
33-008(c)	56.0	landfill	Yes	Yes	No	Chaquehui Canyon	
33-010(a)	53.2	Surface disposal	Yes	Yes	Yes	Chaquehui Canyon	
33-010(b)	45.0	Surface disposal	Yes	Yes	Yes	Rio Grande Valley	
33-010(c)	60.5	Surface disposal	Yes	Yes	Yes	Chaquehui Canyon	
33-010(d)	45.0	Surface disposal	Yes	Yes	Yes	Ancho Canyon	
33-010(e)	47.2	Surface disposal (Area 6)	Yes	No	No	Chaquehui Canyon	
33-010(f)	47.2	Surface disposal	No	No	Yes	Chaquehui Canyon	
33-010(g)	47.8	Surface disposal	No	No	Yes	Chaquehui Canyon	
33-011(b)	49.0	Storage area	Yes	Yes	No	Chaquehui Canyon	
33-015	50.8	Incinerator	Yes	No	Yes	Chaquehui Canyon	
33-016	54.5	Sump	Yes	No	Yes	Chaquehui Canyon	
35-003(d)	59.0	Waste water treatment facility	Yes	Yes	Yes	Pratt Canyon	
35-003(h)	44.2	Waste water treatment facility	No	No	Yes	Mortandad Canyon	
35-003(l)	59.0	Waste water treatment facility	Yes	Yes	Yes	Pratt Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
35-003(p)	50.8	Waste water treatment facility	Yes	Yes	Yes	Pratt Canyon	
35-003(q)	59.0	Waste water treatment facility	Yes	Yes	Yes	Pratt Canyon	
35-003(r)	87.0	Outfall	Yes	Yes	No	Ten Site Canyon	
35-004(h)	50.8	Container storage area	Yes	Yes	Yes	Pratt Canyon	
35-005(a)	45.6	Surface impoundment (closure) Bldg 85 duplicate of 35-006	Yes	No	No	Mortandad Canyon	
35-006	45.6	Surface impoundment (closure) Bldg 85 duplicate of 35-005(a)	Yes	No	No	Mortandad Canyon	Approved NFA
35-008	61.0	Surface disposal and landfil	Yes	Yes	Yes	Mortandad Canyon	
35-014(e)	61.0	Oil Spill	Yes	Yes	Yes	Mortandad Canyon	
35-014(e2)	45.6	Oil Spill	Yes	No	No	Mortandad Canyon	
35-016(a)	92.0	Drains and outfalls	Yes	Yes	Yes	Ten Site Canyon	
35-016(b)	96.0	Outfall	Yes	Yes	No	Ten Site Canyon	
35-016(c)	47.2	Outfall	Yes	Yes	Yes	Ten Site Canyon	
35-016(d)	76.5	Outfall	Yes	Yes	Yes	Ten Site Canyon	
35-016(e)	72.0	Outfall	Yes	Yes	No	Mortandad Canyon	
35-016(f)	76.5	Storm drain	Yes	Yes	No	Mortandad Canyon	
35-016(g)	68.3	Outfall	Yes	Yes	No	Mortandad Canyon	
35-016(h)	76.5	Storm drain	Yes	Yes	No	Mortandad Canyon	
35-016(i)	61.0	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
35-016(k)	53.0	Drains and outfalls	Yes	No	Yes	Pratt Canyon	
35-016(l)	64.0	Storm drain	Yes	Yes	No	Pratt Canyon	
35-016(m)	72.0	Drains and outfalls	Yes	Yes	Yes	Pratt Canyon	
35-016(n)	42.8	Storm drain	Yes	No	No	Ten Site Canyon	
35-016(o)	60.3	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
35-016(p)	60.3	Outfall	Yes	No	Yes	Mortandad Canyon	
35-016(q)	92.0	Drains and outfalls	Yes	Yes	Yes	Ten Site Canyon	
36-001	45.7	Material disposal area (MDA AA)	Yes	Yes	Yes	Potrillo Canyon	
36-003(b)	50.2	Septic system, I-J site	Yes	Yes	Yes	Potrillo Canyon	
36-004(a)	48.5	Firing site - active	Yes	Yes	No	Potrillo Canyon	
36-004(b)	57.3	Firing site - active	Yes	Yes	No	Fence Canyon	
36-004(c)	68.3	Firing site - active (Open Detonation)	Yes	Yes	No	Potrillo Canyon	
36-004(e)	57.3	I-J Firing site - active	Yes	Yes	No	Potrillo Canyon	
36-005	45.4	Surface disposal site	Yes	No	Yes	Fence Canyon	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
36-006	78.0	Surface disposal site	Yes	Yes	Yes	Potrillo Canyon	
36-008	52.0	Surface Disposal Area	Yes	Yes	Yes	ThreeMile Canyon	
39-004(a)	74.0	Firing site - active (Open Detonation)	Yes	Yes	Yes	Ancho Canyon North	
39-004(b)	74.5	Firing site - active	Yes	Yes	Yes	Ancho Canyon	
39-004(c)	74.5	Firing site - active (Open Detonation) - RCRA Unit	Yes	Yes	Yes	Ancho Canyon North	
39-004(d)	74.0	Firing site - active(Open Detonation) - RCRA Unit	Yes	Yes	Yes	Ancho Canyon North	
39-004(e)	78.5	Firing site - active	Yes	Yes	Yes	Ancho Canyon North	
40-003(a)	46.3	Scrap Burn Site - Completed RCRA Closure	No	No	Yes	Pajarito Canyon	
40-003(b)	46.3	Burning area/open detonation (closure)	No	No	No	Pajarito Canyon	
40-006(a)	56.2	Firing site (active)	Yes	Yes	Yes	Pajarito Canyon	
40-006(b)	62.0	Firing site (active)	Yes	Yes	Yes	Pajarito Canyon	
40-006(c)	62.0	Firing site (active)	Yes	Yes	Yes	Pajarito Canyon	
40-009	54.5	Landfill	Yes	Yes	Yes	Pajarito Canyon	
40-010	40.2	Surface disposal site	Yes	Yes	Yes	Pajarito Canyon	
42-001(a)	65.8	incinerator (former location)	Yes	Yes	Yes	Mortandad Canyon	
42-001(b)	65.8	ash storage tank (former location	Yes	Yes	Yes	Mortandad Canyon	
42-001(c)	65.8	ash storage tank (former location	Yes	Yes	Yes	Mortandad Canyon	
42-002(a)	65.8	Decontam. facility (former location)	Yes	Yes	No	Mortandad Canyon	
42-002(b)	65.8	Decontam. facilitydriveway (former location)	Yes	Yes	Yes	Mortandad Canyon	
42-004	93.5	Canyon disposal	Yes	Yes	No	Mortandad Canyon	
45-001	50.3	Waste water treatment facility	No	No	Yes	Pueblo Canyon	
45-004	50.2	Sanitary Sewer Outfall	Yes	No	Yes	Acid Canyon	
46-002	52.8	Surface impoundment	Yes	Yes	Yes	SWSC Canyon	
46-003(a)	44.7	Septic system	No	No	Yes	Canada Del Buey	
46-003(b)	55.5	Septic system	No	No	Yes	Canada Del Buey	
46-003(e)	50.8	Septic system	No	No	Yes	Canada Del Buey	
46-004(a)	49.0	Waste line	Yes	No	Yes	Canada del Buey	
46-004(a2)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	

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Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
46-004(c2)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(d2)	56.0	Stack emissions	Yes	Yes	Yes	Canada del Buey	
46-004(g)	56.0	Outfall/Stack Emissions	Yes	Yes	Yes	Canada Del Buey	
46-004(h)	56.0	Outfall/Stack Emissions	Yes	Yes	Yes	Canada Del Buey	
46-004(i)	49.0	Outfall	Yes	No	No	Canada del Buey	
46-004(j)	49.0	Outfall	Yes	No	No	Canada del Buey	
46-004(m)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(o)	49.0	Outfall	Yes	No	No	Canada del Buey	
46-004(q)	45.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(s)	49.0	Outfall/	Yes	Yes	Yes	Canada del Buey	
46-004(t)	68.3	Outfall	Yes	Yes	Yes	SWSC Canyon	
46-004(u)	45.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(v)	45.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(x)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(y)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-004(z)	49.0	Outfall	Yes	Yes	Yes	Canada del Buey	
46-005	52.8	Surface impoundment	Yes	No	Yes	SWSC Canyon	
46-006(d)	49.0	Operational release	Yes	Yes	Yes	Canada del Buey	
46-008(g)	68.3	Storage area	Yes	Yes	Yes	SWSC Canyon	
46-009(a)	57.0	Surface disposal	Yes	Yes	Yes	SWSC Canyon	
46-009(b)	70.0	Surface disposal	Yes	Yes	Yes	SWSC Canyon	
48-003	40.7	Septic system	Yes	Yes	Yes	Mortandad Canyon	
48-007(a)	55.8	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
48-007(b)	49.3	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
48-007(c)	69.5	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
48-007(d)	55.8	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
48-007(f)	76.5	Drains and outfalls	Yes	Yes	Yes	Mortandad Canyon	
48-010	80.3	Surface Impoundment	Yes	Yes	Yes	Mortandad Canyon	
49-001(a)	54.8	Material disposal area (MDA AB) (experimental shafts)	No	No	Yes	Water Canyon	
49-001(g)	59.2	Material disposal area (MDA AB) (miscellaneous)	Yes	Yes	Yes	Water Canyon	
49-005(a)	73.5	Landfill (east of Area 10)	No	No	Yes	Water Canyon	
50-006(a)	77.8	Operational release	Yes	Yes	Yes	Ten Site Canyon	
50-006(d)	89.0	Effluent discharge	Yes	No	Yes	Mortandad Canyon	

TABLE - 2

Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
50-009	54.8	Material disposal area (MDA C)	Yes	Yes	Yes	Ten Site Canyon	
53-002(a)	47.8	Disposal lagoon inactive (NE, NW impoundments)	Yes	Yes	Yes	Los Alamos Canyon	
53-008	61.8	Storage area, Boneyard	Yes	No	No	Los Alamos Canyon	
53-012(a)	62.0	Outfall	Yes	No	No	Los Alamos Canyon	
53-012(b)	55.0	Outfall	Yes	No	No	Los Alamos Canyon	
53-012(c)	62.0	Outfall	Yes	No	No	Los Alamos Canyon	
53-012(d)	49.3	Outfall	Yes	No	No	Sandia Canyon	
53-014	80.5	Soil Contamination-Lead storage site II	Yes	Yes	No	Sandia Canyon	
54-004	45.6	Material disposal area (MDA H) (except sh. 9)	Yes	No	Yes	Pajarito Canyon	
54-007(c)	56.0	Septic system	Yes	No	Yes	Canada del Buey	Approved NFA
54-014(d)	66.5	Material disposal area (MDA G) Storage trenches A, B, C, D	No	No	Yes	Pajarito Canyon	
54-017	62.0	Material disposal area (MDA G) Disposal pits 16,22 (active before 11/19/80)	No	No	Yes	Canada del Buey	
54-018	52.6	Material disposal area (MDA G)Disposal pits 27-33,35-37 (active after 11/19/80)	No	No	Yes	Canada del Buey	
54-020	53.7	Material disposal area (MDA G) Disposal shafts (active after 11/19/80)	No	No	Yes	Canada del Buey	
55-011(a)	46.3	Storm drain	Yes	No	No	Mortandad Canyon	
55-011(b)	56.6	Storm drain	Yes	Yes	No	Mortandad Canyon	
55-011(c)	50.3	Storm drain	Yes	Yes	No	Mortandad Canyon	
55-011(e)	56.6	Storm drain	Yes	Yes	No	Mortandad Canyon	
60-007(b)	43.8	Systematic or intent. prod. release	No	No	Yes	Sandia Canyon	
61-007	43.8	Transformer site - systematic leak - PCB only site	No	No	Yes	Sandia Canyon	
72-001	84.3	Firing range	Yes	Yes	No	Sandia Canyon	
73-001(a)	85.5	Landfill	Yes	Yes	Yes	Pueblo Canyon	
73-002	56.0	Incinerator surface disposal	Yes	Yes	Yes	Pueblo Canyon	

TABLE - 2

Summary of SOP 2.01 Part B Scores >40

PRS	Erosion Matrix Score	Site Description	SWAT	BMPs	HSWA	Canyon Name	Comments
73-004(d)	46.7	Septic tank (land fill)	Yes	Yes	Yes	Pueblo Canyon	
73-006	56.0	Airport building outfalls	Yes	Yes	Yes	Pueblo Canyon	
73-007	56.0	septic tank and drainlines	Yes	No	No	DP Canyon	
C-00-041	42.8	Asphalt and tar remnant site	Yes	Yes	No	Rendija Canyon	
C-15-004	43.9	Transformers	Yes	No	No	Potrillo Canyon	
C-15-007	51.5	Non-intentional release	Yes	Yes	No	Canon de Valle	
C-33-001	56.0	Transformer	Yes	Yes	No	Chaquehui Canyon	
C-33-003	59.0	Soil contamination area	Yes	No	No	Chaquehui Canyon	
C-35-004	73.5	Operational release	Yes	Yes	No	Ten Site Canyon	
C-35-005	73.5	Operational release	Yes	Yes	No	Ten Site Canyon	
C-36-001	57.3	Containment vessel	Yes	No	No	Potrillo Canyon	
C-36-003	52.0	Storm drainages	Yes	Yes	Yes	Three Mile Canyon	
C-41-004	52.8	Storm drains	Yes	No	No	Los Alamos Canyon	
C-43-001	45.4	Outfall	Yes	No	No	Los Alamos Canyon	
C-46-001	68.3	One-time spill	Yes	No	No	SWSC Canyon	
C-73-005(a)	47.2	excavation (unlined septic tank/outhouse trench)	Yes	No	No	DP Canyon	
C-73-005(b)	47.2	excavation (unlined septic tank/outhouse trench)	Yes	No	No	DP Canyon	

317 Total

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Appendix 2.

MSGP and LANL Notice of Intent

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Federal Register

Monday,

October 30, 2000

Part II

Environmental Protection Agency

Final Reissuance of National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities; Notice

ENVIRONMENTAL PROTECTION AGENCY

[FRL–6880–5]

Final Reissuance of National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of Final NPDES general permit.

SUMMARY: The Regional Administrators of EPA Regions 1, 2, 3, 4, 6, 8, 9 and 10 are today reissuing EPA's NPDES Storm Water Multi-Sector General Permit (MSGP). This general permit was first issued on September 29, 1995 (60 FR 50804), and amended on February 9, 1996 (61 FR 5248), February 20, 1996 (61 FR 6412), September 24, 1996 (61 FR 50020), August 7, 1998 (63 FR 42534) and September 30, 1998 (63 FR 52430). The reissuance of the MSGP was proposed by EPA on March 30, 2000 (65 FR 17010). Today's final MSGP will authorize the discharge of storm water from industrial facilities consistent with the terms of the permit.

DATES: This MSGP shall be effective on October 30, 2000. This effective date is necessary to provide dischargers with the immediate opportunity to comply with Clean Water Act requirements in light of the expiration of the existing MSGP on October 1, 2000. Deadlines for submittal of notices of intent are provided in Section VI.A.2 of this fact sheet and Part 2.1 of the MSGP. Today's MSGP also provides additional dates for compliance with the terms of the permit.

ADDRESSES: The index to the administrative record for the final MSGP is available at the appropriate Regional Office or from the EPA Water Docket Office in Washington, DC. The administrative record, including documents immediately referenced in this reissuance notice and applicable documents used to support the original issuance of the MSGP in 1995, are stored at the EPA Water Docket Office at the following address: Water Docket, MC–4101, U.S. EPA, 401 M Street SW, room EB57, Washington, DC 20460. The records are available for inspection from 9 a.m. to 4 p.m., Monday through Friday, excluding legal holidays. For appointments to examine any portion of the administrative record, please call the Water Docket Office at (202) 260–3027. A reasonable fee may be charged for copying. Specific record information can also be made available at the appropriate Regional Office upon request.

FOR FURTHER INFORMATION CONTACT: For further information on the final MSGP, contact the appropriate EPA Regional Office. The name, address and phone number of the EPA Regional Storm Water Coordinators are provided in Section VI.F of this fact sheet. Information is also available through the Internet on EPA's Office of Wastewater Management website at http://www.epa.gov/owm/sw.

SUPPLEMENTARY INFORMATION: The following fact sheet provides background information and explanation for today's notice of final MSGP reissuance, including a summary Response to Comments regarding the comments which were received on the proposed MSGP. The actual language of the final MSGP appears after this fact sheet.

Fact Sheet

Table of Contents

I. Background

The Regional Administrators of EPA Regions 1, 2, 3, 4, 6, 8, 9 and 10 are today reissuing EPA's NPDES Storm Water Multi-Sector General Permit (MSGP). The MSGP currently authorizes storm water discharges associated with industrial activity for most areas of the United States where the NPDES permit program has not been delegated. The MSGP was originally issued on September 29, 1995 (60 FR 50804), and amended on February 9, 1996 (61 FR 5248), February 20, 1996 (61 FR 6412), September 24, 1996 (61 FR 50020), August 7, 1998 (63 FR 42534) and September 30, 1998 (63 FR 52430). The proposed reissuance of the MSGP appeared in the **Federal Register** on March 30, 2000 (65 FR 17010).

The 1995 MSGP was the culmination of the group permit application process described at 40 CFR 122.26(c)(2). A group permit application was one of three options for obtaining an NPDES industrial storm water permit which were provided by the 1990 storm water permit application regulations (55 FR 48063). The 1990 regulations also provided that industrial facilities could apply for coverage under an existing general NPDES permit or apply for an individual permit. In 1992, EPA issued a baseline general permit (57 FR 41175 and 57 FR 44412) to cover industrial facilities which did not select the group application option or submit an application for an individual permit.

In response to the group application option, EPA received applications from approximately 1,200 groups representing nearly all of the categories of industrial facilities listed in the storm water regulations at 40 CFR 122.26(b)(14). To facilitate permit issuance for the group applications, EPA consolidated the groups into 29 industrial sectors, with subsectors also included in certain sectors as appropriate.

In developing the requirements for the 1995 MSGP, EPA utilized and built upon the storm water pollution control requirements of the 1992 baseline general permit. The baseline permit had required a storm water pollution prevention plan (SWPPP) with generic best management practice (BMP) requirements which applied to all facilities covered by the permit. In addition, certain categories of facilities were required to monitor storm water discharges based on EPA's best professional judgment concerning the risks posed by the facilities.

The group permit applications included information concerning the specific types of operations which are present at the different types of industrial facilities, potential sources of pollutants at the facilities, industry-specific BMPs which are available, and monitoring data from the different types of facilities. Using this information, EPA developed SWPPP requirements for the MSGP which consisted of the generic requirements of the baseline permit plus industry-specific requirements developed from the group application information. Also, the monitoring requirements of the 1995 MSGP were developed using the monitoring data submitted with the group applications rather than EPA's best professional judgment.

On September 30, 1998 (63 FR 52430), EPA terminated the baseline general permit and required facilities which were previously covered by the baseline permit to seek coverage under the MSGP (or submit an individual permit application). EPA believed that the MSGP, with its industry-specific requirements, would provide improved water quality benefits as compared to the baseline permit.

For today's reissuance of the MSGP, EPA has re-evaluated the industry-specific requirements of the MSGP. In a few instances, additional requirements have been included based on new information which has been obtained since the original MSGP issuance in 1995. These changes are discussed in more detail in Section VIII of this fact sheet, and in the Response to Comments. EPA also re-evaluated the monitoring requirements of the existing MSGP. However, after review of the comments received from the public, and the monitoring data received during the term of the 1995 MSGP, EPA has retained the same monitoring requirements for the reissued MSGP as were found in the 1995 MSGP.

A. Pollutants in Storm Water Discharges Associated With Industrial Activities in General

The volume and quality of storm water discharges associated with industrial activity will depend on a number of factors, including the industrial activities occurring at the facility, the nature of the precipitation, and the degree of surface imperviousness. A discussion of these factors was provided in the fact sheet for the original proposed MSGP (58 FR 61146 Nov. 19, 1993), and is not being repeated here.

B. Summary of Options for Controlling Pollutants

Pollutants in storm water discharges from industrial plants may be reduced using the following methods: Eliminating pollution sources, implementing BMPs to prevent pollution, using traditional storm water management practices, and providing end-of-pipe treatment. A general discussion of each of these was included in the original proposed MSGP (58 FR 61146, Nov. 19, 1993), and is not being repeated here.

C. The Federal/Municipal Partnership: The Role of Municipal Operators of Large and Medium Municipal Separate Storm Sewer Systems

A key issue in developing a workable regulatory program for controlling pollutants in storm water discharges associated with industrial activity is the proper use and coordination of limited regulatory resources. This is especially important when addressing the appropriate role of municipal operators of large and medium municipal separate storm sewer systems in the control of pollutants in storm water associated with industrial activity which discharge through municipal separate storm sewer systems. The original proposed MSGP discussed several key policy factors (see 58 FR 61146).

II. Organization of Final MSGP and Summary of Changes From the 1995 MSGP and the March 30, 2000 Proposed MSGP

The organization of today's final MSGP has been revised from the 1995 MSGP to reduce the overall size of the permit. In Part XI of the 1995 MSGP, many requirements such as SWPPP and monitoring requirements which were common to each sector were repeated in each sector, greatly adding to length of the permit. For today's reissuance, such requirements are found only once in expanded sections of the permit (Parts 4 and 5) which include requirements common to each sector. Requirements which are genuinely unique to a given sector or subsector are found in Part 6 in the permit. Similarly, Section VIII of the fact sheet for the 1995 MSGP repeated certain explanatory information in the discussions of sector-specific requirements, and also included considerable descriptive information about the various sectors. To reduce the length of today's notice, most of this information is not being repeated. Section VIII of today's fact sheet focuses on the changes (if any) in the various sectors. The reorganization and reduction of duplication have reduced the size of the permit by approximately 75%.

Also note that the section/paragraph identification scheme of today's final MSGP has been modified from the 1995 MSGP. The original scheme utilized a sometimes lengthy combination of numbers, letters and Roman numerals (in both upper and lower cases) which many permittees found confusing. Today's reissuance identifies sections/paragraphs, and hence permit conditions, using numbers only, except in Part 6 (which also incorporates the sector letters from the 1995 MSGP for consistency). Under the original permit, only the last digit or letter of the section/paragraph identifier appeared with its accompanying section title/paragraph, making it difficult to determine where you were in the permit. In today's reissuance, the entire string of identifying numbers is listed at each section/paragraph to facilitate recognizing where you are and in citing and navigating through the permit. For example, paragraph number 1.2.3.5 tells you immediately that you are in Part 1, section 2, paragraph 3, subparagraph 5; whereas under the 1995 MSGP you would only see an "e", thereby forcing you to hunt back through the permit to determine that you were in Part I.B.3.e. The exception to the numbering rule is in Part 6, where the Sector letters from the 1995 MSGP have been retained to correspond to the sectors of industry covered by the permit and make it easy to tell that you are in a section of the permit which has conditions which only apply to a specific industrial sector. For example, paragraph 6.F.3.4 immediately tells you that you are in Part 6 and looking at conditions that only apply to sector ''F'' facilities. In some cases, requirements which previously appeared in a single paragraph are now found listed out as separate individual items. The final MSGP is also written in EPA's ''readable regulations'' style using terms like ''you'' and ''your'' in referring to permittees, etc.

Following below is a list of the major changes included in the proposed MSGP of March 30, 2000 (as compared to the 1995 MSGP) and retained in today's final MSGP. These changes are discussed in more detail later in this fact sheet.

1. Requirements for co-located activities clarified (Part 1.2.1.1).

2. Incidental cooling tower mist discharges included as an authorized non-storm water discharge, subject to certain requirements (Parts 1.2.2.2.13 and 4.4.2.3).

3. Eligibility provided for coverage of inactive mining activities occurring on Federal Lands where an operator has not been identified (Part 1.2.3).

4. Clarified language for situations where a discharge previously covered by an individual permit can be covered under today's MSGP (Part 1.2.3.3).

5. Clarified/added language for compliance with water quality standards and requirements for follow-up actions if standards are exceeded (Parts 1.2.3.5 and 3.3).

6. ESA and NHPA eligibility requirements modified (Parts 1.2.3.6 and 1.2.3.7).

7. Eligibility requirements for discharges to water quality impaired/limited waterbodies added/clarified (Part 1.2.3.8).

8. Clarified that discharges which do not comply with anti-degradation requirements are not authorized by the permit (Part 1.2.3.9).

9. Deadline of 30 days for submission of an NOT added (Part 1.4.2).

10. Opportunity for termination of permit coverage based on the ''no exposure exemption'' from the Phase II storm water regulations (64 FR 68722, 12/8/99) added (Parts 1.5 and 11.4).

11. Notice of Intent requirements and modified form (Part 2.2 and Addendum D).

12. Permit will accommodate electronic filing of NOIs, NOTs, or DMRs, should these options become available during the term of the permit (Parts 2.3 and 7.1)

13. Prohibition on discharges of solid materials and floating debris and requirement to minimize off-site tracking of materials and generation of dust added (Part 4.2.7.2.3).

14. Requirement to include a copy of the permit with the storm water pollution prevention plan (SWPPP) was added (Part 4.7).

15. Special conditions for EPCRA 313 facilities were modified (Part 4.12).

16. Monitoring requirements reorganized and additional clarification/revisions on monitoring periods, waivers, default minimum monitoring for limitations added by State 401 certification, and reporting requirements added (Part 5).

17. Manufacturing of fertilizer from leather scraps (SIC 2873) moved from Sector Z—Leather Tanning and Finishing to Sector C—Chemical and Allied Products (Table 1–1 and Part 6.C).

18. New effluent limitations guidelines for landfills in Sectors K and L included; the final guidelines were published in the **Federal Register** on January 19, 2000 (65 FR 3007) (Parts 6.K.5 and 6.L.6).

19. Sector AD (Non-Classified Facilities) language clarified to say that facilities cannot choose coverage under Sector AD, but can only be so assigned by permitting authority (Part 6.AD).

20. Additional BMP requirements in Sectors S, T, and Y added (Parts 6.S, 6.T, and 6.Y).

21. NOI to continue coverage under the permit when it expires (without a replacement permit in place) is not required and the reapplication process has been clarified (Part 9.2).

22. Process for EPA to remove facilities from permit coverage clarified (Part 9.12).

Following below is another list which summarizes the provisions of today's final MSGP which differ from the proposed MSGP of March 30, 2000.

1. Reference to ''drinking fountain water'' removed from Part 1.2.2.2.3.

2. Part 1.2.3.3.2.1 of the proposed MSGP was deleted. This requirement had not allowed MSGP coverage for facilities previously covered by another permit, unless the other permit only covered storm water and MSGP authorized non-storm water discharges.

3. Part 2.2.3.6 revised to indicate that the NOI must include the name of the MS4 receiving the discharges only if it is different from the permittee.

4. Part 4.9.3 revised to clarify the time frame for implementation of revised SWPPP.

5. Part 4.11 revised to require permittees to provide a copy of their SWPPP to the public when requested in writing to do so.

6. Sector E coverage was modified for consistency with the September 30, 1998 MSGP modification.

7. In Sector G, language was added stating that non-storm water discharges must be tested or evaluated; this change ensures consistency with the 1995 MSGP. Also in Sector G, the definition of ''reclamation'' was revised.

8. The title for Sector I was changed to include ''Refining.''

9. Sector T revised for consistency with 40 CFR 122.26(b)(14)(ix) concerning size of POTWs covered.

10. Section V.C. deleted the requirement to consider species proposed for listing as endangered or threatened.

III. Geographic Coverage of Final MSGP

The geographic coverage of today's final MSGP includes the following areas:

EPA Region 1—for the States of Maine, Massachusetts and New Hampshire; for Indian Country lands located in Massachusetts, Connecticut, Rhode Island and Maine; and for Federal facilities in the State of Vermont.

EPA Region 2—for the Commonwealth of Puerto Rico.

EPA Region 3—for the District of Columbia and Federal facilities in the State of Delaware.

EPA Region 4—for Indian Country lands located in the State of Florida.

EPA Region 6—for the State of New Mexico; for Indian Country lands located in the States of Louisiana, New Mexico, Texas and Oklahoma (except Navajo lands and Ute Mountain Reservation lands); for oil and gas facilities under SIC codes 1311, 1381, 1382, and 1389 in the State of Oklahoma not on Indian Country lands; and oil and gas facilities under SIC codes 1311, 1321, 1381, 1382, and 1389 in the State of Texas not on Indian Country lands.

EPA Region 8—for Federal facilities in the State of Colorado; for Indian Country lands in Colorado, North Dakota, South Dakota, Wyoming and Utah (except Goshute and Navajo Reservation lands); for Ute Mountain Reservation lands in Colorado and New Mexico; and for Pine Ridge Reservation lands in South Dakota and Nebraska.

EPA Region 9—for the State of Arizona; for the Territories of Johnston Atoll, American Samoa, Guam, the

Commonwealth of Northern Mariana Islands, Midway and Wake Islands; for Indian Country lands located in Arizona, California, and Nevada; and for the Goshute Reservation in Utah and Nevada, the Navajo Reservation in Utah, New Mexico, and Arizona, the Duck Valley Reservation in Nevada and Idaho, and the Fort McDermitt Reservation in Oregon and Nevada.

EPA Region 10—for the State of Idaho; for Indian Country lands located in Alaska, Oregon (except Fort McDermitt Reservation lands), Idaho (except Duck Valley Reservation lands) and Washington; and for Federal facilities in Washington.

For several reasons, the geographic area of coverage described above differs from the area of coverage of the 1995 MSGP. Indian country in Vermont and New Hampshire has been removed since there are no Federally recognized tribes in these States. Also, state NPDES permit programs have since been authorized in the States of South Dakota, Louisiana, Oklahoma (except for certain oil and gas facilities in Oklahoma) and Texas (again except for oil and gas facilities). In Oklahoma, EPA maintains NPDES permitting authority over oil and gas exploration and production related industries, and pipeline operations regulated by the Oklahoma Corporation Commission (See 61 FR 65049). Oklahoma received NPDES program authorization only for those discharges covered by the authority of the Oklahoma Department of Environmental Quality (ODEQ). In Texas, EPA maintains NPDES permitting authority over oil and gas discharges regulated by the Texas Railroad Commission (See 63 FR 51164). Texas received NPDES program authorization only for those discharges covered by the authority of the Texas Natural Resource Conservation Commission (TNRCC).

Specific additional conditions required in Region 6 as a result of a State or Tribal CWA Section 401 certification have been added for New Mexico, Oklahoma, and the Pueblos of Isleta, Pojoaque, San Juan, and Sandia. Numeric limitations for discharges in Texas contained in the previous permit pursuant to 31 TAC 319.22 and 319.23 have been continued in accordance with 40 CFR 122.44(d) and (l).

Federal facilities in Colorado, and Indian country located in Colorado (including the portion of the Ute Mountain Reservation located in New Mexico), North Dakota, South Dakota (including the portion of the Pine Ridge Reservation located in Nebraska), Utah (except for the Goshute and Navajo Reservation lands) and Wyoming were not included in the 1995 MSGP, but are included in today's MSGP. Indian country lands in Montana are not included at this time due to a recent court order. Prior to today, industrial facilities in these areas were largely covered under an extension of EPA's 1992 baseline general permit for industries (57 FR 41175).

Also, subsequent to the issuance of the MSGP in 1995, coverage was extended to the Island of Guam on September 24, 1996 (61 FR 50020) and the Commonwealth of the Northern Mariana Islands on September 30, 1998 (63 FR 52430). Certification was not received from Arizona in time for that state to be included in this permit.

The 1995 MSGP was issued in the State of Alaska, except Indian Country, on February 9, 1996 (61 FR 5247). Industrial facilities in Alaska outside of Indian Country will continue to be covered under the 1995 MSGP through February 9, 2001. EPA will reissue the permit for Alaska at a later date, and will include any state-specific modifications or additions or additions applicable to parts 1 through 12 of this permit as part of the State's Clean Water Act Section 401 or Coastal Zone Management Act certification processes.

Lastly, today's MSGP reissuance differs from the March 30, 2000 MSGP proposal in that the State of Florida (except for Indian country) is not included. This is a result of the recent NPDES program delegation to the State of Florida.

There are some areas where the NPDES permit program has not been delegated (such as Indian country in states not listed above) where neither the MSGP nor an alternate general permit is available for authorization of storm water discharges associated with industrial activity. However, only a very small number of permittees exist in such areas and individual permits are issued as needed.

IV. Categories of Facilities Covered by the Final MSGP

Today's final MSGP authorizes storm water discharges associated with industrial activity from the categories of facilities shown in Table 1 below:

TABLE 1.—SECTOR/SUBSECTORS COVERED BY THE FINAL MSGP

Subsector	SIC code	Activity represented
		Sector A. Timber Products
1*	2421	General Sawmills and Planning Mills.
2	2491	Wood Preserving.
3*	2411	Log Storage and Handling.
4*	2426	Hardwood Dimension and Flooring Mills.
	2429	Special Product Sawmills, Not Elsewhere Classified.
	2431–2439 (except 2434)	Millwork, Veneer, Plywood, and Structural Wood.
	2448, 2449	Wood Containers.
	2451, 2452	Wood Buildings and Mobile Homes.
	2493	Reconstituted Wood Products.
	2499	Wood Products, Not Elsewhere Classified.
		Sector B. Paper and Allied Products Manufacturing
1	2611	Pulp Mills.
2	2621	Paper Mills.
3*	2631	Paperboard Mills.
4	2652–2657	Paperboard Containers and Boxes.
5	2671–2679	Converted Paper and Paperboard Products, Except Containers and Boxes.
		Sector C. Chemical and Allied Products Manufacturing
1*	2812–2819	Industrial Inorganic Chemicals.

TABLE 1.—SECTOR/SUBSECTORS COVERED BY THE FINAL MSGP—Continued

Subsector	SIC code	Activity represented
2*	2821–2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Man-made Fibers Except Glass.
3	2833–2836	Medicinal chemicals and botanical products; pharmaceutical preparations,; invitro and invivo diagnostic substances; biological products, except diagnostic substances.
4*	2841–2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations.
5	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products.
6	2861–2869	Industrial Organic Chemicals.
7*	2873–2879	Agricultural Chemicals, Including Facilities that Make Fertilizer Solely from Leather Scraps and Leather Dust.
8	2891–2899	Miscellaneous Chemical Products.
9	3952 (limited to list)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors.
Sector D. Asphalt Paving and Roofing Materials Manufacturers and Lubricant Manufacturers.		
1*	2951, 2952	Asphalt Paving and Roofing Materials.
2	2992, 2999	Miscellaneous Products of Petroleum and Coal.
Sector E. Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing		
1	3211	Flat Glass.
	3221, 3229	Glass and Glassware, Pressed or Blown.
	3231	Glass Products Made of Purchased Glass.
	3281	Cut Stone and Stone Products.
	3291–3292	Abrasive and Asbestos Products.
	3296	Mineral Wool.
	3299	Nonmetallic Mineral Products, Not Elsewhere Classified.
2	3241	Hydraulic Cement.
3*	3251–3259	Structural Clay Products.
	3261–3269	Pottery and Related Products.
	3297	Non-Clay Refractories.
4*	3271–3275	Concrete, Gypsum and Plaster Products.
	3295	Minerals and Earth's, Ground, or Otherwise Treated.
Sector F. Primary Metals		
1*	3312–3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills.
2*	3321–3325	Iron and Steel Foundries.
3	3331–3339	Primary Smelting and Refining of Nonferrous Metals.
4	3341	Secondary Smelting and Refining of Nonferrous Metals.
5*	3351–3357	Rolling, Drawing, and Extruding of Nonferrous Metals.
6*	3363–3369	Nonferrous Foundries (Castings).
7	3398, 3399	Miscellaneous Primary Metal Products.
Sector G. Metal Mining (Ore Mining and Dressing)		
1	1011	Iron Ores.
2*	1021	Copper Ores.
3	1031	Lead and Zinc Ores.
4	1041, 1044	Gold and Silver Ores.
5	1061	Ferroalloy Ores, Except Vanadium.
6	1081	Metal Mining Services.
7	1094, 1099	Miscellaneous Metal Ores.
Sector H. Coal Mines and Coal Mining-Related Facilities		
NA*	1221–1241	Coal Mines and Coal Mining-Related Facilities Sector.
Sector I. Oil and Gas Extraction and Refining		
1*	1311	Crude Petroleum and Natural Gas.
2	1321	Natural Gas Liquids.
3*	1381–1389	Oil and Gas Field Services.
4	2911	Petroleum refining.
Sector J. Mineral Mining and Dressing		
1*	1411	Dimension Stone.
	1422–1429	Crushed and Broken Stone, Including Rip Rap.

TABLE 1.—SECTOR/SUBSECTORS COVERED BY THE FINAL MSGP—Continued

Subsector	SIC code	Activity represented
	1481	Nonmetallic Minerals, Except Fuels.
2*	1442, 1446	Sand and Gravel.
3	1455, 1459	Clay, Ceramic, and Refractory Materials.
4	1474–1479	Chemical and Fertilizer Mineral Mining.
	1499	Miscellaneous Nonmetallic Minerals, Except Fuels.
Sector K. Hazardous Waste Treatment Storage or Disposal Facilities		
NA*	HZ	Hazardous Waste Treatment, Storage or Disposal.
Sector L. Landfills and Land Application Sites		
NA*	LF	Landfills, Land Application Sites and Open Dumps.
Sector M. Automobile Salvage Yards		
NA*	5015	Automobile Salvage Yards.
Sector N. Scrap Recycling Facilities		
NA*	5093	Scrap Recycling Facilities.
Sector O. Steam Electric Generating Facilities		
NA*	SE	Steam Electric Generating Facilities.
Sector P. Land Transportation		
1	4011, 4013	Railroad Transportation.
2	4111–4173	Local and Highway Passenger Transportation.
3	4212–4231	Motor Freight Transportation and Warehousing.
4	4311	United States Postal Service.
5	5171	Petroleum Bulk Stations and Terminals.
Sector Q. Water Transportation		
NA*	4412–4499	Water Transportation.
Sector R. Ship and Boat Building or Repairing Yards		
NA	3731, 3732	Ship and Boat Building or Repairing Yards.
Sector S. Air Transportation Facilities		
NA*	4512–4581	Air Transportation Facilities.
Sector T. Treatment Works		
NA*	TW	Treatment Works.
Sector U. Food and Kindred Products		
1	2011–2015	Meat Products.
2	2021–2026	Dairy Products.
3	2032	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties.
4*	2041–2048	Grain Mill Products.
5	2051–2053	Bakery Products.
6	2061–2068	Sugar and Confectionery Products.
7*	2074–2079	Fats and Oils.
8	2082–2087	Beverages.
9	2091–2099	Miscellaneous Food Preparations and Kindred Products.
	2111–2141	Tobacco Products.
Sector V. Textile Mills, Apparel, and Other Fabric Product Manufacturing		
1	2211–2299	Textile Mill Products.
2	2311–2399	Apparel and Other Finished Products Made From Fabrics and Similar Materials.
	3131–3199 (except 3111)	Leather Products.

TABLE 1.—SECTOR/SUBSECTORS COVERED BY THE FINAL MSGP—Continued

Subsector	SIC code	Activity represented
		Sector W. Furniture and Fixtures
NA	2511–2599	Furniture and Fixtures.
	2434	Wood Kitchen Cabinets.
		Sector X. Printing and Publishing
NA	2711–2796	Printing, Publishing and Allied Industries.
		Sector Y. Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries
1*	3011	Tires and Inner Tubes.
	3021	Rubber and Plastics Footwear.
	3052, 3053	Gaskets, Packing, and Sealing Devices and Rubber and Plastics Hose and Belting.
	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified.
2	3081–3089	Miscellaneous Plastics Products.
	3931	Musical Instruments.
	3942–3949	Dolls, Toys, Games and Sporting and Athletic Goods.
	3951–3955 (except 3952 as specified in Sector C).	Pens, Pencils, and Other Artists' Materials.
	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal.
	3991–3999	Miscellaneous Manufacturing Industries.
		Sector Z. Leather Tanning and Finishing
NA	3111	Leather Tanning and Finishing.
		Sector AA. Fabricated Metal Products
1*	3411–3499	Fabricated Metal Products, Except Machinery and Transportation Equipment and Cutting, Engraving and Allied Services.
	3911–3915	Jewelry, Silverware, and Plated Ware.
2*	3479	Coating, Engraving, and Allied Services.
		Sector AB. Transportation Equipment, Industrial or Commercial Machinery
NA	3511–3599 (except 3571–3579)	Industrial and Commercial Machinery (except Computer and Office Equipment—see Sector AC).
NA	3711–3799 (except 3731, 3732)	Transportation Equipment (except Ship and Boat Building and Repairing—see Sector R).
		Sector AC. Electronic, Electrical, Photographic and Optical Goods
NA	3612–3699	Electronic, Electrical Equipment and Components, Except Computer Equipment.
	3812–3873	Measuring, Analyzing and Controlling Instrument; Photographic and Optical Goods, Watches and Clocks.
	3571–3579	Computer and Office Equipment.
		Sector AD. Reserved for Facilities Not Covered Under Other Sectors and Designated by the Director

*Denotes subsector with analytical (chemical) monitoring requirements.
NA indicates those industry sectors in which subdivision into subsectors was determined to be not applicable.

The final MSGP modification of September 30, 1998 (63 FR 52430) expanded the coverage of the 1995 MSGP to include a small number of categories of facilities which had been covered by the 1992 baseline industrial general permit but excluded from the MSGP. In Table 1 above, these categories have been included in the appropriate sectors/subsectors of the MSGP as determined by the September 30, 1998 modification.

With the September 30, 1998 modification, EPA believes that the MSGP now covers all of the categories of industrial facilities which may discharge storm water associated with industrial activity as defined at 40 CFR 122.26(b)(14) (except construction activities disturbing five or more acres which are permitted separately). However, the September 30, 1998 modification also added another sector to the MSGP (Sector AD) to cover any inadvertent omissions. EPA has retained Sector AD in today's reissued MSGP.

Sector AD is further intended to provide a readily available means for covering many of the storm water facilities which are designated for permitting in accordance with NPDES regulations at 40 CFR 122.26(g)(1)(i). These regulations provide that permit applications may be required within 180 days of notice for any discharges which contribute to a violation of a water quality standard, or are determined to be significant sources of pollutants.

EPA also recognizes that a new North American Industry Classification System (NAICS) was recently adopted by the Office of Management and Budget (62 FR 17288, April 9, 1997). NAICS replaces the 1987 standard industrial classification (SIC) code system for the collection of statistical economic data. However, the use of the new system for nonstatistical purposes is optional. EPA considered the use of NAICS for the today's MSGP reissuance, but elected to retain the 1987 SIC code system since the storm water regulations (40 CFR 122.26(b)(14)) reference the previous system and this system has generally proven to be adequate for identifying the facilities covered by storm water regulations. EPA will consider transitioning to the new NAICS system in future rule making.

V. Limitations on Coverage

A. Storm Water Discharges Subject to Effluent Guideline Limitations, Including New Source Performance Standards

The general prohibition on coverage of storm water subject to an effluent guideline limitation in the 1995 MSGP has been retained in today's MSGP reissuance. Only those storm water discharges subject to the following effluent guidelines are eligible for coverage (provided they meet all other eligibility requirements):

TABLE 2.—EFFLUENT GUIDELINES APPLICABLE TO DISCHARGES THAT MAY BE ELIGIBLE FOR PERMIT COVERAGE

Effluent guideline	New Source performance standards included in effluent guidelines?	Sectors with affected facilities
Runoff from material storage piles at cement manufacturing facilities [40 CFR Part 411 Subpart C (established February 23, 1977)].	Yes	E
Contaminated runoff from phosphate fertilizer manufacturing facilities [40 CFR Part 418 Subpart A (established April 8, 1974)].	Yes	C
Coal pile runoff at steam electric generating facilities [40 CFR Part 423 (established November 19, 1982)]	Yes	O
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas [40 CFR Part 429, Subpart I (established January 26, 1981)].	Yes	A
Mine dewatering discharges at crushed stone mines [40 CFR part 436, Subpart B]	No	J
Mine dewatering discharges at construction sand and gravel mines [40 CFR part 436, Subpart C]	No	J
Mine dewatering discharges at industrial sand mines [40 CFR part 436, Subpart D]	No	J
Runoff from asphalt emulsion facilities [40 CFR Part 443 Subpart A (established July 24, 1975)].	Yes	D
Runoff from landfills, [40 CFR Part 445, Subpart A and B (established February 2, 2000.]	Yes	K & L

Section 306 of the Clean Water Act (CWA) requires EPA to develop performance standards for all new sources described in that section. These standards apply to all facilities which go into operation after the date the standards are promulgated. Section 511(c) of the CWA requires the Agency to comply with the National Environmental Policy Act (NEPA) prior to issuance of a permit under the authority of Section 402 of the CWA to facilities defined as a new source under Section 306.

The fact sheet for the 1995 MSGP described a process for ensuring compliance with NEPA for the MSGP (60 FR 50809). This process, which is repeated below, has been retained for the reissued MSGP. Additional guidance is found in a new Addendum C to the final MSGP.

Facilities which are subject to the performance standards for new sources as described in this section of the fact sheet must provide EPA with an Environmental Information Document pursuant to 40 CFR 6.101 prior to seeking coverage under this permit. This information shall be used by the Agency to evaluate the facility under the requirements of NEPA in an Environmental Review. The Agency will make a final decision regarding the direct or indirect impact of the discharge. The Agency will follow all administrative procedures required in this process. The permittee must obtain a copy of the Agency's final finding prior to the submission of a Notice of Intent to be covered by this general permit. In order to maintain eligibility, the permittee must implement any mitigation required of the facility as a result of the NEPA review process. Failure to implement mitigation measures upon which the Agency's NEPA finding is based is grounds for termination of permit coverage. In this way, EPA has established a procedure which allows for the appropriate review procedures to be completed by this Agency prior to the issuance of a permit under Section 402 of the CWA to an operator of a facility subject to the new source performance standards of Section 306 of the CWA. EPA believes that it has fulfilled its requirements under NEPA for this Federal action under Section 402 of the CWA.

B. Historic Preservation

The National Historic Preservation Act (NHPA) requires Federal agencies to take into account the effects of Federal undertakings, including undertakings on historic properties that are either listed on, or eligible for listing on, the National Register of Historic Places. The term ''Federal undertaking'' is defined in the existing NHPA regulations to include any project, activity, or program under the direct or indirect jurisdiction of a Federal agency that can result in changes in the character or use of historic properties, if any such historic properties are located in the area of potential effects for that project, activity, or program. See 36 CFR 802(o). Historic properties are defined in the NHPA regulations to include prehistoric or historic districts, sites, buildings, structures, or objects that are included in, or are eligible for inclusion in, the National Register of Historic Places. See 36 CFR 802(e).

Federal undertakings include EPA's issuance of general NPDES permits. In light of NHPA requirements, EPA included a provision in the eligibility requirements of the 1995 MSGP for the consideration of the effects to historic properties. That provision provided that an applicant is eligible for permit coverage only if: (1) the applicant's storm water discharges and BMPs to control storm water runoff do not affect a historic property, or (2) the applicant has obtained, and is in compliance with, a written agreement between the applicant and the State Historic Preservation Officer (SHPO) that outlines all measures to be taken by the applicant to mitigate or prevent adverse effects to the historic property. See Part I.B.6, 60 FR 51112 (September 29, 1995). When applying for permit coverage, applicants were required to certify in the NOI that they are in compliance with the Part I.B.6 eligibility requirements. Provided there are no other factors limiting permit eligibility, MSGP coverage was then granted 48 hours after the postmark on the envelope used to mail the NOI.

The September 30, 1998 modification included two revisions of the original MSGP with respect to historic properties. First, EPA amended the original Part I.B.6.(ii) to include a reference to Tribal Historic Preservation Officers (THPOs) because MSGP coverage extends to Tribal lands and in recognition of the central role Tribal governments play in the protection of historic resources. Second, EPA included NHPA guidance and a list of SHPO and THPO addresses in a new Addendum I to the MSGP to assist applicants with the certification process for permit eligibility under this condition.

For today's MSGP reissuance, EPA has modified slightly the requirements of the first option for obtaining permit coverage to enhance the protection of historic properties. Permit coverage is only available if storm water and allowable non-storm water discharges and ''discharge-related activities'' do not affect historic properties. ''Discharge-related activities'' are defined to include activities which cause, contribute to, or result in storm water and allowable non-storm water point source discharges, and measures such as the siting, construction and operation of BMPs to control, reduce or prevent pollution in the discharges. Discharge-related activities are included to ensure compliance with NHPA requirements to consider the effects of activities which are related to the activity which is permitted, *i.e.*, the storm water and non-storm water discharges. Because this change was minor, EPA is relying on its 1995 and 1998 consultations with the Advisory Council on Historic Preservation as its basis for reissuance of this permit.

Also, as discussed in Section VI.A.1 below, EPA intends to modify, contingent upon Office of Management and Budget review and approval, the Notice of Intent form to require that operators identify which of the above two options they are using to ensure eligibility for permit coverage under the MSGP. The NHPA guidance has also been modified to reflect the above pending changes, and appears in Addendum B in today's notice rather than Addendum I. Until the revised form is approved and issued, the current form (with minor clarifications) remains in effect.

Facilities seeking coverage under today's MSGP which cannot certify compliance with the NHPA requirements must submit individual permit applications to the permitting authority. For facilities already covered by the existing MSGP, the deadline for the individual applications is the same as that for NOIs requesting coverage under the reissued MSGP (December 29, 2000).

C. Endangered Species

The Endangered Species Act (ESA) of 1973 requires Federal Agencies such as EPA to ensure, in consultation with the U.S. Fish and Wildlife Service (FWS) and the National Marine Fisheries Service (NMFS) (also known collectively as the ''Services''), that any actions authorized, funded, or carried out by the Agency (*e.g.*, EPA issued NPDES permits authorizing discharges to waters of the United States) are not likely to jeopardize the continued existence of any Federally-listed endangered or threatened species or adversely modify or destroy critical habitat of such species (see 16 U.S.C. 1536(a)(2), 50 CFR 402 and 40 CFR 122.49(c)).

For the 1995 MSGP, EPA conducted formal consultation with the Services which resulted in a joint Service biological opinion issued by the FWS on March 31, 1995, and by the NMFS on April 5, 1995, which concluded that the issuance and operation of the MSGP was not likely to jeopardize the existence of any listed endangered or threatened species, or result in the adverse modification or destruction of any critical habitat.

The 1995 MSGP contained a number of conditions to protect listed species and critical habitat. Permit coverage was provided only where:

- The storm water discharge(s), and the construction of BMPs to control storm water runoff, were not likely to jeopardize species identified in Addendum H of the permit; or
- The applicant's activity had received previous authorization under the Endangered Species Act and established an environmental baseline that was unchanged; or,
- The applicant was implementing appropriate measures as required by the Director to address jeopardy.

For today's MSGP reissuance, EPA has modified the ESA-related requirements for obtaining permit coverage to enhance the protection of listed species. First, permit coverage is only available if storm water and allowable non-storm water discharges and ''discharge-related activities'' result in no jeopardy to listed species. ''Discharge-related activities'' are defined to include activities which cause, contribute to or result in storm water and allowable non-storm water point source discharges, and measures such as the siting, construction and operation of BMPs to control, reduce or prevent pollution in the discharges. Discharge-related activities are included for compliance with ESA requirements to consider the effects of activities which are related to the activity which is permitted, *i.e.*, the storm water and non-storm water discharges.

In addition, operators seeking coverage under the reissued MSGP must certify that they are eligible for coverage under one of the following five options which are provided in Parts 1.2.3.6.3.1 through 5 of the permit:

1. No endangered or threatened species or critical habitat are in proximity to the facility or the point where authorized discharges reach the receiving water; or
2. In the course of a separate federal action involving the facility (*e.g.*, EPA processing request for an individual NPDES permit, issuance of a CWA Section 404 wetlands dredge and fill permit, etc.), formal or informal consultation with the Fish and Wildlife Service and/or the National Marine Fisheries Service under Section 7 of the ESA has been concluded and that consultation:

(a) addressed the effects of the storm water and allowable non-storm water discharges and discharge-related activities on listed species and critical habitat and

(b) the consultation resulted in either a no jeopardy opinion or a written concurrence by the Service(s) on a finding that the storm water and allowable non-storm water discharges and discharge-related activities are not likely to jeopardize listed species or critical habitat; or

3. The activities are authorized under Section 10 of the ESA and that authorization addresses the effects of the storm water and allowable non-storm water discharges and discharge-related activities on listed species and critical habitat; or
4. Using due diligence, the operator has evaluated the effects of the storm water discharges, allowable non-storm water discharges, and discharge-related activities on listed endangered or threatened species and critical habitat and does not have reason to believe listed species or critical habitat would be jeopardized; or
5. The storm water and allowable non-storm water discharges and discharge-related activities were already addressed in another operator's

certification of eligibility under Part 1.2.3.6.3.1 through 1.2.3.6.3.4 which included the facility's activities. By certifying eligibility under this Part, a permittee agrees to comply with any measures or controls upon which the other operator's certification was based.

The first four options listed above are similar to the eligibility provisions of the 1995 MSGP. Option 5 was added to account for situations such as an airport facility where one operator (*e.g.*, the airport authority) may have covered the entire airport through its certification. Option 5 allows other operators to take advantage of such a certification without repeating the reviews conducted by the first operator. Option 1 applies to operators who are not jeopardizing endangered species because listed species simply are not in proximity to their facility. Option 4 applies to operators who have endangered species nearby and must look more closely at potential jeopardy and may need to adopt measures to reduce the risk of jeopardy to listed species or critical habitat. The provision of the two options to determine that a facility is unlikely to jeopardize listed species, coupled with the pending new NOI requirement to indicate whether or not the Service was contacted in making the determination, will also allow for better oversight of the permit. Under the 1995 permit, there was no way to tell from the NOI information whether the decision on eligibility was due to no species in the county, a discussion with the Service, or a simple unilateral decision by the operator.

Addendum H of the 1995 MSGP provided instructions to assist permittees in determining whether they met the permit's ESA-related eligibility requirements. For today's reissued MSGP, this guidance has been updated to reflect the above requirements and appears as Addendum A. As noted in Section VI.A.1 below, EPA intends to modify the Notice of Intent form to conform with new ESA requirements discussed above.

Addendum H of the 1995 MSGP contained a list of proposed and listed endangered and threatened species that could be jeopardized by the discharges and measures to control pollutants in the discharges. EPA reinitiated and completed formal consultation with the Services for the September 30, 1998 modification of the MSGP. As a result of this consultation and in response to public comments on the modification, EPA updated the species list in Addendum H to include species that were listed or proposed for listing since the Addendum H list was originally compiled on March 31, 1995. EPA also decided to expand the list to include all of the terrestrial (*i.e.*, non-aquatic) listed and proposed species in recognition that those species may be impacted by permitted activities such as the construction and operation of the BMPs. The September 30, 1998 MSGP modification included the species list updated as of July 8, 1998 (63 FR 52494). The species list is also being updated on a regular basis and an electronic copy of the list is available at the Office of Wastewater Management website at ''http://www.epa.gov/owm/esalst2.htm''. The information may also be obtained by contacting the Services. The permittee is responsible for obtaining the updated information.

Based on comments received on the proposed MSGP on March 30, 2000 (65 FR 17010), the final permit requires facility operators to consider only listed endangered or threatened species, and not species proposed to be listed. Further explanation for the change can be found in Section IX of this notice.

On August 10, 2000, EPA initiated informal consultation with FWS and NMFS on EPA's finding of no likelihood of adverse effect on threatened and endangered species and critical habitat resulting from issuance of MSGP–2000. On September 22, 2000 FWS concurred with EPA's finding.

To be eligible for coverage under today's reissued MSGP, facilities must review the updated list of species and their locations in conjunction with the Addendum A instructions for completing the application requirements under this permit. If an applicant determines that none of the species identified in the updated species list is found in the county in which the facility is located, then there is a likelihood of no jeopardy and they are eligible for permit coverage. Applicants must then certify that their storm water and allowable non-storm water discharges, and their discharge-related activities, are not likely to jeopardize species and will be granted MSGP permit coverage 48 hours after the date of the postmark on the envelope used to mail the NOI form, provided there are no other factors limiting permit eligibility.

If listed species are located in the same county as the facility seeking MSGP coverage, then the applicant must determine whether the species are in proximity to the storm water or allowable non-storm water discharges or discharge-related activities at the facility. A species is in proximity to a storm water or allowable non-storm water discharge when the species is located in the path or down gradient area through which or over which the point source discharge flows from industrial activities to the point of discharge into the receiving water, and once discharged into the receiving water, in the immediate vicinity of, or nearby, the discharge point. A species is also in proximity if it is located in the area of a site where discharge-related activities occur. If an applicant determines there are no species in proximity to the storm water or allowable non-storm water discharges, or discharge-related activities, then there is no likelihood of jeopardizing the species and the applicant is eligible for permit coverage.

If species are in proximity to the storm water or allowable non-storm water discharges or discharge-related activities, as long as they have been considered as part of a previous ESA authorization of the applicant's activity, and the environmental baseline established in that authorization is unchanged, the applicant may be covered under the permit. The environmental baseline generally includes the past and present impacts of all Federal, state and private actions that were occurring at the time the initial NPDES authorization and current ESA section 7 action by EPA or any other federal agency was taken. Therefore, if a permit applicant has received previous authorization and nothing has changed or been added to the environmental baseline established in the previous authorization, then coverage under this permit will be provided.

In the absence of such previous authorization, if species identified in the updated species list are in proximity to the discharges or discharge-related activities, then the applicant must determine whether there is any likely jeopardy to the species. This is done by the applicant conducting a further examination or investigation, or an alternative procedure, as described in the instructions in Addendum A of the permit. If the applicant determines that there is no likely jeopardy to the species, then the applicant is eligible for permit coverage. If the applicant determines that there likely is, or will likely be any jeopardy, then the applicant is not eligible for MSGP coverage unless or until he or she can meet one of the other eligibility conditions.

All dischargers applying for coverage under the MSGP must provide in the application information on the Notice of Intent form: (1) A determination as to whether there are any listed species in proximity to the storm water or allowable non-storm water discharges or discharge related activity, and (2) (when

EPA receives approval from the Office of Management and Budget and issues the revised form) an indication of which option under Part 1.2.3.6.3 of the MSGP they claim eligibility for permit coverage, and (3) a certification that their storm water and allowable non-storm water discharges and discharge-related activities are not likely to jeopardize listed species, or are otherwise eligible for coverage due to a previous authorization under the ESA. Coverage is contingent upon the applicant's providing truthful information concerning certification and abiding by any conditions imposed by the permit.

Dischargers who cannot determine if they meet one of the endangered species eligibility criteria cannot sign the certification to gain coverage under the MSGP and must apply to EPA for an individual NPDES storm water permit. For facilities already covered by the 1995 MSGP, the deadline for the individual applications is the same as that for NOIs requesting coverage under the reissued MSGP (December 29, 2000). As appropriate, EPA will conduct ESA section 7 consultation when issuing such individual permits.

Regardless of the above conditions, EPA may require that a permittee apply for an individual NPDES permit on the basis of possible jeopardy to species or critical habitats. Where there are concerns that coverage for a particular discharger is not sufficiently protective of listed species, the Services (as well as any other interested parties) may petition EPA to require that the discharger obtain an individual NPDES permit and conduct an individual section 7 consultation as appropriate.

In addition, the Assistant Administrator for Fisheries for the National Oceanic and Atmospheric Administration, or his/her authorized representative, or the U.S. Fish and Wildlife Service (as well as any other interested parties) may petition EPA to require that a permittee obtain an individual NPDES permit. The permittee is also required to make the SWPPP, annual site compliance inspection report, or other information available upon request to the Assistant Administrator for Fisheries for the National Oceanic and Atmospheric Administration, or his/her authorized representative, or the U.S. Fish and Wildlife Service Regional Director, or his/her authorized representative.

These mechanisms allow for the broadest and most efficient coverage for the permittee while still providing for the most efficient protection of endangered species. They significantly reduce the number of dischargers that must be considered individually and therefore allow the Agency and the Services to focus their resources on those discharges that are indeed likely to jeopardize listed species. Straightforward mechanisms such as these allow applicants more immediate access to permit coverage, and eliminates ''permit limbo'' for the greatest number of permitted discharges. At the same time it is more protective of endangered species because it allows both agencies to focus on the real problems, and thus, provide endangered species protection in a more expeditious manner.

D. New Storm Water Discharges to Water Quality-Impaired or Water Quality-Limited Receiving Waters

Today's final MSGP includes a new provision (Part 1.2.3.8) which establishes eligibility conditions with regard to discharges to water quality-limited or water quality-impaired waters. For the purposes of this permit, ''water quality-impaired'' refers to a stream, lake, estuary, etc. that is not currently meeting its assigned water quality standards. These waters are also referred to as ''303(d) waters'' due to the requirement under that section of the CWA for States to periodically list all state waters that are not meeting their water quality standards. ''Water quality-limited waters'' refers to waterbodies for which a State had to develop individual Total Maximum Daily Loads (TMDLs), a tool which helps waterbodies meet their water quality standards. A TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. Water quality standards are set by States, Territories, and Tribes. They identify the uses for each waterbody, for example, drinking water supply, contact recreation (swimming), and aquatic life support (fishing), and the scientific criteria to support that use. The CWA, section 303, establishes the water quality standards and TMDL programs.

Prior to submitting a Notice of Intent, any new discharger (see 40 CFR 122.2) to a 303(d) waterbody must be able to demonstrate compliance with 40 CFR 122.4(i). In essence, you are a new discharger if your facility started discharging after August 13, 1979 and your storm water was not previously permitted. Any discharger to a waterbody for which there is an approved TMDL must confirm that the TMDL allocated a portion of the load for storm water point source discharges. These provisions apply only to discharges containing the pollutant(s) for which the waterbody is impaired or the TMDL developed.

Part 1.2.3.8.1 (which applies to new storm water discharges and not to existing discharges) is designed to better ensure compliance with NPDES regulations at 40 CFR 122.4(i), which include certain special requirements for new discharges into impaired waterbodies. Lists of impaired waterbodies (sometimes referred to as 303(d) waterbodies) may be obtained from appropriate State environmental offices or their internet sites. NPDES regulations at 40 CFR 122.4(i) prohibit discharges unless it can be shown that:

1. There are sufficient remaining pollutant load allocations to allow for the discharge; and
2. The existing dischargers into that segment are subject to compliance schedules designed to bring the segments into compliance with applicable water quality standards.

Part 1.2.3.8.2 (which applies to both new and existing storm water discharges) is designed to better ensure compliance with NPDES regulations at 40 CFR 122.4(d), which requires compliance with State water quality standards. The eligibility condition prohibits coverage of new or existing discharges of a particular pollutant where there is a TMDL, unless the discharge is consistent with the TMDL. Lists of waterbodies with TMDLs may be obtained from appropriate State environmental offices or their internet sites and from EPA's TMDL internet site at *http://www.epa.gov/owow/tmdl/index.html.*

E. Storm Water Discharges Subject to Anti-Degradation Provisions of Water Quality Standards

Part 1.2.3.9 of today's final MSGP includes a new provision which clarifies that discharges which do not comply with applicable anti-degradation provisions of State water quality standards are not eligible for coverage under the MSGP. This eligibility condition is designed to better ensure compliance with NPDES regulations at 40 CFR 122.4(d), which requires compliance with State water quality standards. Anti-degradation provisions may be obtained from the appropriate State environmental office or their internet sites.

F. Storm Water Discharges Previously Covered by an Individual Permit

The 1995 MSGP contained general prohibitions on coverage where a discharge was covered by another NPDES permit (Part I.B.3.d) and where a permit had been terminated other than at the request of the permittee (Part

I.B.3.e.). It was therefore possible to obtain coverage by requesting termination of an individual permit and then submitting an NOI for coverage under the MSGP. This could be desirable from both the discharger's and EPA's perspective for a variety of reasons, for example, where a wastewater permit included storm water outfalls, but the wastewater outfalls had been eliminated. Being able to use the general permit would reduce the application cost to the permittee and the administrative burden of permit issuance to the Agency. Today's permit clarifies the conditions under which transfer from an individual permit to this general permit would be acceptable (Part 1.2.3.3.2).

In order to avoid conflict with the anti-backsliding provisions of the CWA, transfer from an individual permit to the MSGP will only be allowed where both of the following conditions are met:

• The individual permit did not contain numeric water quality-based effluent limitations developed for the storm water component of the discharge; and

• The permittee includes any specific BMPs for storm water required under the individual permit in their storm water pollution prevention plan.

Implementation of a comprehensive Storm Water Pollution Prevention Plan for the entire facility (as opposed to selected outfalls in an individual permit) and compliance with all other conditions of the MSGP is deemed to be at least as stringent a technology-based permit limit as the conditions of the individual permit. This assumption is only made where the previous permit did not contain any specific water quality-based effluent limitations on storm water discharges (e.g., storm water contained high levels of zinc and the individual permit contained a zinc limit developed to ensure compliance with the State water quality criteria).

G. Requiring Coverage Under an Individual Permit or an Alternate General Permit

Part 9.12 of today's final MSGP provides that EPA may require an individual permit or coverage under a separate general permit instead of today's MSGP. This is in accord with NPDES regulations at 40 CFR 122.28(b)(3). These regulations also provide that any interested party may petition EPA to take such an action. The issuance of the individual permit or alternate general permit would be in accordance with 40 CFR Part 124 and would provide for public comment and appeal of any final permit decision. The circumstances in which such an action would be taken are set forth at 40 CFR 122.28(b)(3).

VI. Summary of Common Permit Conditions

The following section describes the permit conditions common to discharges from all the industrial activities covered by today's final MSGP. These conditions are largely the same as the conditions of the 1995 MSGP.

A. Notification Requirements

General permits for storm water discharges associated with industrial activity must require the submission of a Notice of Intent (NOI) prior to the authorization of such discharges (see 40 CFR 122.28(b)(2)(i), April 2, 1992 (57 FR 11394)). Consistent with these regulatory requirements, today's final MSGP establishes NOI requirements. These requirements apply to facilities currently covered by the 1995 MSGP, as well as new facilities seeking coverage. EPA made minor modifications to the NOI form to allow the discharger, the Agency and the public to more easily determine sector-specific conditions that will apply to the facility. Further modifications proposed on March 30, 2000 (65 FR 17010) require review and approval by the Office of Management and Budget under the Paperwork Reduction Act. EPA will have all appropriate approvals in place prior to requiring the use of the expanded NOI form. In the interim the NOI form with the minor modifications, contained in this notice, is in effect.

The information requirements of the revised NOI form are described below:

1. Content of NOI

a. An indication of which permit the operator is filing the NOI for (e.g., a facility in New Hampshire would be filing for coverage under permit NHR05*###, a facility located on Navajo Reservation lands in New Mexico under the AZR05*##I permit, a private contractor operating a federal facility in Colorado that is not located on Indian Country lands under the COR05*##F permit, etc.);

b. The name, address, and telephone number of the operator filing the NOI for permit coverage;

c. An indication of whether the owner of the site is a Federal, State, Tribal, private, or other public entity;

d. The name (or other identifier), address, county, and latitude/longitude of the facility for which the NOI is submitted (latitude/longitude will be accepted in either degree-minute-second or decimal format);

e. An indication of whether the facility is located on Indian Country lands;

f. An indication of whether the facility is a federal facility operated by the federal government;

g. The name of the receiving water(s);

h. The name of the municipal operator if the discharge is through a municipal separate storm sewer system prior to discharge to a water of the U.S.;

i. Up to four 4-digit Standard Industrial Classification (SIC) codes that best represent the principal products produced or services rendered, including hazardous waste treatment, storage, or disposal activities, land disposal facilities that receive or have received any industrial waste, steam electric power generating facilities, or treatment works treating domestic sewage;

j. Identification of applicable sector(s) in this permit, as designated in Table 1, for facility discharges associated with industrial activity the operator wishes to have covered under this permit;

k. Certification that a storm water pollution prevention plan (SWPPP) meeting the requirements of Part 4 has been developed (with a copy of the permit language in the SWPPP);

l. Based on the instructions in Addendum A, whether any listed threatened or endangered species, or designated critical habitat, are in proximity to the storm water discharges or storm water discharge-related activities to be covered by this permit;

m. Whether any historic property listed or eligible for listing on the National Register of Historic Places is located on the facility or in proximity to the discharge;

n. A signed and dated certification, signed by a authorized representative of the facility as detailed in Part 9.7 and maintained with the SWPPP that certifies the following:

I certify under penalty of law that I have read and understand the Part 1.2 eligibility requirements for coverage under the multi-sector storm water general permit including those requirements relating to the protection of endangered or threatened species or critical habitat. To the best of my knowledge, the storm water and allowable non-storm discharges authorized by this permit (and discharged related activities), are not likely and will not likely, jeopardize endangered or threatened species or critical habitat, or are otherwise eligible for coverage under Part 1.2.3.6 of the permit. To the best of my knowledge, I further certify that such discharges and discharge related activities do not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage under Part 1.2.3.7 of the permit. I understand that continued coverage under the multi-sector storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.2.

Two additional components of the form pending approval by the Office of Management and Budget are:

a. under which Part(s) of Part 1.2.3.6 (Endangered Species) the applicant is certifying eligibility and whether the FWS or NMFS was involved in making the determination of eligibility;

b. under which Part(s) of Part 1.2.3.7 (Historic Properties) the applicant is certifying eligibility and whether the SHPO or THPO was involved in the determination of eligibility.

The NOI must be signed in accordance with the signatory requirements of 40 CFR 122.22. A complete description of these signatory requirements is provided in the instructions accompanying the NOI. Completed NOI forms must be submitted to the Storm Water Notice of Intent (4203), 1200 Pennsylvania Avenue NW., Washington, DC 20460.

In the future (but not at the present time), EPA may also allow alternate means of NOI submission (such as electronic submission). An alternate means of NOI submission may be used by operators provided EPA has informed the operator of the acceptability of the alternative.

2. Deadlines

For facilities currently covered by the 1995 MSGP, the deadline for submission of an NOI requesting coverage under the reissued MSGP is January 29, 2001 (90 days after expiration of the 1995 MSGP). For these facilities, the requirements of the 1995 MSGP are incorporated into today's MSGP and continue to apply during the interim period subsequent to the expiration of the 1995 MSGP, but prior to submission of the NOI requesting coverage under the reissued MSGP. In response to a question from some permittees, EPA wishes to clarify that there is no need to submit an NOT to rescind coverage under the 1995 MSGP.

Facilities currently covered by the 1995 MSGP who cannot immediately determine if they are eligible for coverage under today's reissued MSGP may nevertheless be covered for up to 270 days provided an application for an alternative permit is submitted within 90 days. This interim coverage allows permit coverage while the permittee assesses his eligibility for the reissued MSGP and, if necessary, still meet the 180 day lead time required for applications for individual permits.

For facilities commencing operations after reissuance of the MSGP, the NOI must be submitted at least two days prior to the commencement of the new industrial activity. New operators of existing facilities must also submit the NOI at least two days prior to assuming operational control at existing facilities.

Dischargers who submit a complete NOI in accordance with the MSGP requirements are authorized to discharge storm water associated with industrial activity two days after the date the NOI is postmarked, unless otherwise notified by EPA. EPA may deny coverage under the MSGP and require submission of an individual NPDES permit application based on a review of the completeness and/or content of the NOI or other information (e.g., Endangered Species Act compliance, National Historic Preservation Act Compliance, water quality information, compliance history, history of spills, etc.). Where EPA requires a discharger authorized under the MSGP to apply for an individual NPDES permit (or an alternative general permit), EPA will notify the discharger in writing that a permit application (or different NOI) is required by an established deadline. Coverage under the MSGP will automatically terminate if the discharger fails to submit the required permit application in a timely manner. Where the discharger does submit a requested permit application, coverage under the MSGP will automatically terminate on the effective date of the issuance or denial of the individual NPDES permit or the alternative general permit as it applies to the individual permittee.

A discharger is not precluded from submitting an NOI at a later date than described above. However, in such instances, EPA may bring appropriate enforcement actions.

3. Municipal Separate Storm Sewer System Operator Notification

Operators of storm water discharges associated with industrial activity that discharge through a large or medium municipal separate storm sewer system (MS4) or a municipal system designated by the Director,[1] must (upon request of the MS4 operator) submit a copy of the NOI to the municipal operator of the system receiving the discharge. This requirement of today's MSGP differs from the 1995 MSGP which had required that a copy of the NOI be sent to the MS4 operator. Today's MSGP has been modified in this regard to reduce paperwork requirements, and in consideration of the fact that most large and medium MS4 operators already have good information concerning the industrial facilities discharging into their MS4s.

EPA wishes to ensure a coordinated program between EPA and operators of MS4s for controlling pollutants in storm water discharges associated with industrial activity which enter an MS4. Such a coordinated program was intended by EPA's original storm water permit application regulations of November 16, 1990 (55 FR 48063). Additional discussion of this matter can be found in the original proposed MSGP (58 FR 61146).

4. Notice of Termination

Where a discharger is able to eliminate the storm water discharges associated with industrial activity from a facility, the discharger may submit a Notice of Termination (NOT) form (or photocopy thereof) provided by the Director. Today's final MSGP also differs from the 1995 MSGP by requiring that an NOT be submitted within 30 days after one or both of the following two conditions having been met:

a. a new owner/operator has assumed responsibility for the facility; or

b. the permittee has ceased operations at the facility and there no longer are discharges of storm water associated with industrial activity from the facility;

A copy of the NOT and instructions for completing the NOT are included in Addendum E. The NOT form requires the following information:

a. Name, mailing address, and location of the facility for which the notification is submitted. Where a street address for the site is not available, the location of the approximate center of the site must be described in terms of the latitude and longitude to the nearest 15 seconds, or the section, township and range to the nearest quarter;

b. The name, address and telephone number of the operator addressed by the Notice of Termination;

c. The NPDES permit number for the storm water discharge associated with industrial activity identified by the NOT;

d. An indication of whether the storm water discharges associated with industrial activity have been eliminated or the operator of the discharges has changed; and

e. The following certification:

I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that are

[1] The terms large and medium municipal separate storm sewer systems (systems serving a population of 100,000 or more) are defined at 40 CFR 122.26(b)(4) and (7). Some of the cities and counties in which these systems are found are listed in Appendices F, G, H, and I to 40 CFR Part 122. Other municipal systems have been designated by EPA on a case-by-case basis or have brought into the program based upon the 1990 Census.

authorized by an NPDES general permit have been eliminated or that I am no longer the operator of the industrial activity. I understand that by submitting this Notice of Termination I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by an NPDES permit. I also understand that the submission of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

NOTs are to be sent to the Storm Water Notice of Termination (4203), 1200 Pennsylvania Avenue NW., Washington, DC 20460.

The NOT must be signed in accordance with the signatory requirements of 40 CFR 122.22. A complete description of these signatory requirements is provided in the instructions accompanying the NOT.

5. Conditional Exclusion for No Exposure

Today's final MSGP includes a special provision (Part 1.5 of the permit) which provides that a facility may discontinue permit coverage if the facility determines that it is eligible for the ''no exposure'' permit exemption which was created by EPA as part of the Phase II storm water regulations (64 FR 68722). A notice of termination is not required to discontinue permit coverage under these circumstances. However, in accordance with the Phase II regulations, a no exposure certification must be filed with the permitting authority.

It should also be noted that facilities operating under the existing MSGP are eligible, as of the effective date of the Phase II regulations, to submit no exposure certifications immediately if they meet the criteria for no exposure. No exposure certification renewals must be submitted five years from the time they are first submitted (assuming the facility still qualifies for the exemption). If conditions change at a facility such that renewed MSGP coverage is needed, the facility may submit an NOI requesting renewed coverage.

In response to comments on this matter, EPA has included a copy of the ''No Exposure'' form and instructions as Addendum F to today's permit.

EPA has also prepared a new guidance document entitled ''Guidance Manual for Conditional Exclusion from Storm Water Permitting Based on ''No Exposure'' of Industrial Activities to Storm Water'' to assist permittees in determining eligibility for the exemption. This guidance document is available on EPA's storm water website. In addition, EPA recently conducted a mass mailing to permittees (as well as other stakeholder groups) alerting them to the no exposure exemption.

B. Special Conditions

The conditions of today's final MSGP have been designed to comply with the technology-based standards of the CWA (BAT/BCT). Based on a consideration of the appropriate factors for BAT and BCT requirements, and a consideration of the factors and options for controlling pollutants in storm water discharges associated with industrial activity, the final MSGP lists a set of tailored requirements for developing and implementing storm water pollution prevention plans (SWPPPs) and, for selected discharges, numeric effluent limitations.[2] This is the same approach as in the 1995 MSGP.

Section VIII of the fact sheet for the 1995 MSGP summarized the industry-specific BMP options for controlling pollutants in storm water discharges associated with industrial activity for the various industrial sectors covered by the MSGP. Section VIII of today's fact sheet does not repeat the information from the 1995 fact sheet; however, updates are provided as appropriate.

Section VI.B.4 of today's fact sheet discusses the storm water discharges which are subject to numeric effluent limitations. For other discharges covered by the final MSGP, the permit conditions reflect EPA's decision to identify a number of BMP and traditional storm water management practices which prevent pollution in storm water discharges as the BAT/BCT level of control for the majority of storm water discharges covered by this permit. The permit conditions applicable to these discharges are not numeric effluent limitations, but rather are flexible requirements for developing and implementing site specific plans to minimize and control pollutants in storm water discharges associated with industrial activity.

EPA is authorized under 40 CFR 122.44(k)(2) to impose BMPs in lieu of numeric effluent limitations in NPDES permits when the Agency finds numeric effluent limitations to be infeasible. EPA may also impose BMPs which are ''reasonably necessary * * * to carry out the purposes of the Act'' under 40 CFR 122.44(k)(3). Both of these standards for imposing BMPs were recognized in *NRDC* v. *Costle,* 568 F.2d 1369, 1380 (D.C. Cir. 1977). The conditions in today's final MSGP are issued under the authority of both of these regulatory provisions. The pollution prevention or BMP requirements in today's final MSGP operate as limitations on effluent discharges that reflect the application of BAT/BCT. This is because the BMPs identified require the use of source control technologies which, in the context of the MSGP, are the best available of the technologies economically achievable (or the equivalent BCT finding). See *NRDC* v. *EPA,* 822 F.2d 104, 122–23 (D.C. Cir. 1987) (EPA has substantial discretion to impose nonquantitative permit requirements pursuant to Section 402(a)(1)). See also EPA's memorandum of August 1, 1996 entitled ''Interim Permitting Approach for Water Quality-Based Effluent Limitations for Storm Water Discharges.''

1. Prohibition of Non-storm Water Discharges

Today's final MSGP includes basically the same provisions pertaining to non-storm water discharges as the 1995 MSGP. Like the 1995 MSGP, today's MSGP does not authorize non-storm water discharges that are mixed with storm water except as provided below. Today's MSGP does authorize one additional non-storm water discharge: mist discharges which originate from cooling towers and which are deposited at an industrial facility and may be discharged. During the term of the 1995 MSGP, these discharges were brought to the attention of EPA with a request that the discharges be authorized under the reissued MSGP. The mist discharges are authorized under today's MSGP provided:

a. The permittee has evaluated the potential for the discharges to be contaminated by chemicals used in the cooling tower and determined that the levels of such chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard; and

b. The permittee has addressed this source of pollutants with appropriate BMPs in the SWPPP.

The other non-storm water discharges that are authorized under today's final MSGP are the same as those in the 1995 MSGP and include discharges from fire

[2] Section 9.12.2 of the final MSGP provides that facility operators with storm water discharges associated with industrial activity who, based on an evaluation of site specific conditions, believe that the appropriate conditions of this permit do not adequately represent BAT and BCT requirements for the facility may submit to the Director an individual application (Form 1 and Form 2F). A detailed explanation of the reasons why the conditions of the available general permits do not adequately represent BAT and BCT requirements for the facility as well as any supporting documentation must be included.

fighting activities; fire hydrant flushings; potable water sources, including waterline flushings; irrigation drainage; lawn watering; routine external building washdown without detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; compressor condensate; uncontaminated ground water or spring water; and foundation or footing drains where flows are not contaminated with process materials such as solvents that are combined with storm water discharges associated with industrial activity. In response to a comment, the final MSGP includes ''potable water sources, including waterline flushings'' on the list of authorized non-storm water discharges, but deletes the reference to ''drinking fountain water,'' which a commenter felt could conflict with local ordinances.

To be authorized under today's MSGP, these other sources of non-storm water (except flows from fire fighting activities) must be identified in the SWPPP prepared for the facility. (SWPPP requirements are discussed in more detail below). Where such discharges occur, the SWPPP must also identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

Today's final MSGP does not require pollution prevention measures to be identified and implemented for non-storm water flows from fire-fighting activities because these flows will generally be unplanned emergency situations where it is necessary to take immediate action to protect the public.

The prohibition of unpermitted non-storm water discharges in today's MSGP ensures that non-storm water discharges (except for those classes of non-storm water discharges that are conditionally authorized in Part 1.2.2.2 of the MSGP) are not inadvertently authorized by the permit. Where a storm water discharge is mixed with non-storm water that is not authorized by today's MSGP or another NPDES permit, the discharger should submit the appropriate application forms (Forms 1, 2C, and/or 2E) to gain permit coverage of the non-storm water portion of the discharge.

2. Releases of Reportable Quantities of Hazardous Substances and Oil

As discussed below, today's final MSGP includes the same provisions pertaining to releases of reportable quantities of hazardous substances and oil as the 1995 MSGP.

a. Today's final MSGP provides that the discharge of hazardous substances or oil from a facility must be eliminated or minimized in accordance with the SWPPP developed for the facility. Where a permitted storm water discharge contains a hazardous substance or oil in an amount equal to or in excess of a reporting quantity established under 40 CFR Part 117, or 40 CFR Part 302 during a 24-hour period, the following actions must be taken:

(1) Any person in charge of the facility that discharges hazardous substances or oil is required to notify the National Response Center (NRC) (800–424–8802; in the Washington, DC, metropolitan area, 202–426–2675) in accordance with the requirements of 40 CFR Part 117, and 40 CFR Part 302 as soon as they have knowledge of the discharge.

(2) The SWPPP for the facility must be modified within 14 calendar days of knowledge of the release to provide a description of the release, an account of the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and it must be modified where appropriate.

(3) The permittee must also submit to EPA within 14 calendar days of knowledge of the release a written description of the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and steps to be taken to modify the SWPPP for the facility.

b. Anticipated discharges containing a hazardous substance in an amount equal to or in excess of reporting quantities are those caused by events occurring within the scope of the relevant operating system. Facilities that have more than one anticipated discharge per year containing a hazardous substance in an amount equal to or in excess of a reportable quantity are required to:

(1) Submit notifications of the first release that occurs during a calendar year (or for the first year of this permit, after submission of an NOI); and

(2) Provide a written description in the SWPPP of the dates on which such releases occurred, the type and estimate of the amount of material released, and the circumstances leading to the releases. In addition, the SWPPP must address measures to minimize such releases.

c. Where a discharge of a hazardous substance or oil in excess of reporting quantities is caused by a non-storm water discharge (e.g., a spill of oil into a separate storm sewer), that discharge is not authorized by the MSGP and the discharger must report the discharge as required under 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302. In the event of a spill, the requirements of Section 311 of the CWA and other applicable provisions of Sections 301 and 402 of the CWA continue to apply. This approach is consistent with the requirements for reporting releases of hazardous substances and oil that make a clear distinction between hazardous substances typically found in storm water discharges and those associated with spills that are not considered part of a normal storm water discharge (see 40 CFR 117.12(d)(2)(i)).

3. Co-located Industrial Facilities

Like the 1995 MSGP, today's MSGP includes requirements pertaining to co-located industrial facilities. However, these requirements have been modified from the requirements of the 1995 MSGP to clarify their applicability. Co-located industrial activities occur when activities being conducted onsite fall into more than one of the categories of the industrial facilities listed in Part 1.2.1 of today's MSGP (e.g., a landfill at a wood treatment facility). Facilities operating under the 1995 MSGP have sometimes been unclear whether certain limited activities (e.g., minor vehicle maintenance activities at an industrial plant) would trigger the MSGP's requirements regarding co-located activities.

If you have co-located industrial activities on-site that are described in a sector(s) other than your primary sector, you must comply with all other applicable sector-specific conditions found in Part 6 for the co-located industrial activities. The extra sector-specific requirements are applied only to those areas of your facility where the extra-sector activities occur. An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the storm water regulations, and identified by today's MSGP SIC code list. For example, unless you are actually hauling substantial amounts of freight or materials with your own truck fleet or are providing a trucking service to outsiders, simple maintenance of vehicles used at your facility is unlikely to meet the SIC code group 42 description of a motor freight transportation facility. Even though Sector P may not apply, the runoff from your vehicle maintenance facility would likely still be considered storm water associated with industrial activity. As such, your SWPPP must still address the runoff from the vehicle maintenance facility—although not necessarily with the same degree of detail as required by Sector P—but you would not be required to monitor as per Sector P.

In the event there truly are co-located activities at your facility, today's MSGP authorizes, as does the 1995 MSGP, all storm water discharges provided that your facility complies with all SWPPP and monitoring requirements for each co-located activity. By monitoring the discharges from the different industrial activities, you can better determine the effectiveness of your SWPPP for controlling all major pollutants of concern in your storm water discharges. However, if monitoring for the same parameter is required for more than one sector (and the different industrial activities drain to the same outfall), then only one sample analysis is required for that parameter.

4. Numeric Effluent Limitations

Today's MSGP retains the numeric effluent limitations which were included in the 1995 MSGP, and also includes the effluent limitations guidelines which EPA recently finalized for certain storm water discharges from new and existing hazardous and non-hazardous landfills (65 FR 3007, January 19, 2000). The new effluent limitations guidelines for these landfills are discussed in more detail in the Sections VIII.K and L of this fact sheet (Special Requirements for Discharges Associated with Industry Activities).

Today's MSGP retains the numeric effluent limitations from the 1995 MSGP for the following discharges: coal pile runoff (including runoff from steam electric power plants subject to 40 CFR Part 423 requirements), discharges from phosphate fertilizer manufacturing (40 CFR Part 418), asphalt paving and roofing emulsions (40 CFR Part 443), cement manufacturing materials storage pile runoff (40 CFR Part 411), and discharges resulting from the spray down of lumber and wood products storage yards (wet decking) (40 CFR Part 429). In addition, the final MSGP authorizes mine dewatering discharges from construction sand and gravel, industrial sand, and crushed stone facilities (40 CFR Part 436) in EPA Regions 1, 2, 3, 6, 8, 9, 10. The actual numeric effluent limitations can be found in Part 6 of the final MSGP.

5. Compliance with Water Quality Standards

The 1995 MSGP does not specifically address compliance with water quality standards (WQS), other than to exclude from coverage discharges which may contribute to an exceedance of WQS. Today's final MSGP includes the same restriction on eligibility, and in Part 3.3 also includes certain requirements if exceedances occur for discharges covered by the MSGP. If a discharge authorized under the final MSGP is later discovered to cause, or have the reasonable potential to cause or contribute to, a violation of a WQS, the permitting authority will inform the permittee of the violation. The permittee must then take all necessary actions to ensure future discharges do not cause or contribute to the violation of WQS, and document these actions in the SWPPP. If violations remain or recur, coverage under the MSGP may be terminated by the permitting authority and an alternate permit issued. Today's final MSGP also clarifies that compliance with this requirement does not preclude enforcement actions as provided by the CWA for the underlying violation.

C. Common Storm Water Pollution Prevention Plan (SWPPP) Requirements

Like the 1995 MSGP, today's reissued MSGP requires that all facilities which intend to be covered by the MSGP for storm water discharges associated with industrial activity prepare and implement a SWPPP. The MSGP addresses pollution prevention plan requirements for a number of categories of industries. Following below is a discussion of the common permit requirements for all industries; special requirements for facilities subject to EPCRA Section 313 reporting requirements; and special requirements for facilities with outdoor salt storage piles. These are the permit requirements which apply to discharges associated with any of the industrial activities covered by today's final MSGP. These common requirements may be amended or further clarified in the industry-specific SWPPP requirements which are found in Part 6 of the final MSGP. These industry-specific requirements are additive for facilities where co-located industrial activities occur.

The Storm Water Pollution Prevention Plan (SWPPP) approach in today's final MSGP focuses on two major objectives: (1) to identify sources of pollution potentially affecting the quality of storm water discharges associated with industrial activity from the facility; and (2) ensure implementation of measures to minimize and control pollutants in storm water discharges associated with industrial activity from the facility.

The SWPPP requirements in today's final MSGP are intended to facilitate a process whereby the operator of the industrial facility thoroughly evaluates potential pollution sources at the site and selects and implements appropriate measures designed to prevent or control the discharge of pollutants in storm water runoff. The process involves the following four steps: (1) formation of a team of qualified plant personnel who will be responsible for preparing the plan and assisting the plant manager in its implementation; (2) assessment of potential storm water pollution sources; (3) selection and implementation of appropriate management practices and controls; and (4) periodic evaluation of the effectiveness of the plan to prevent storm water contamination.

EPA believes the pollution prevention approach is the most environmentally sound and cost-effective way to control the discharge of pollutants in storm water runoff from industrial facilities. This position is supported by the results of a comprehensive technical survey EPA completed in 1979.[3] The survey found that two classes of management practices are generally employed at industries to control the nonroutine discharge of pollutants from sources such as storm water runoff, drainage from raw material storage and waste disposal areas, and discharges from places where spills or leaks have occurred. The first class of management practices includes those that are low in cost, applicable to a broad class of industries and substances, and widely considered essential to a good pollution control program. Some examples of practices in this class are good housekeeping, employee training, and spill response and prevention procedures. The second class includes management practices that provide a second line of defense against the release of pollutants. This class addresses containment, mitigation, and cleanup. Since publication of the 1979 survey, EPA has imposed management practices and controls in NPDES permits on a case-by-case basis. The Agency also has continued to review the appropriateness and effectiveness of such practices,[4] as well as the

[3] See "Storm Water Management for Industrial Activities," EPA, September 1992, EPA–832–R–92–006.

[4] For example, see "Best Management Practices: Useful Tools for Cleaning Up," Thron, H. Rogoshewski, P., 1982, Proceedings of the 1982 Hazardous Material Spills Conference; "The Chemical Industries" Approach to Spill Prevention," Thompson, C., Goodier, J. 1980, Proceedings of the 1980 National Conference of Control of Hazardous Materials Spills; a series of EPA memoranda entitled "Best Management Practices in NPDES Permits—Information Memorandum," 1983, 1985, 1986, 1987, 1988; Review of Emergency Systems: Report to Congress," EPA, 1988; and "Analysis of Implementing

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techniques used to prevent and contain oil spills.[5] Experience with these practices and controls has shown that they can be used in permits to reduce pollutants in storm water discharges in a cost-effective manner. In keeping with both the present and previous administration's objective to attain environmental goals through pollution prevention, pollution prevention has been and continues to be the cornerstone of the NPDES permitting program for storm water. EPA has developed guidance entitled ''Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices,'' September 1992, to assist permittees in developing and implementing pollution prevention measures.

Note: The discussions of the SWPPP requirements are grouped in subject areas and do not follow the exact order of the permit conditions.

1. Pollution Prevention Team (Part 4.2.1)

As a first step in the process of developing and implementing a SWPPP, permittees are required to identify a qualified individual or team of individuals to be responsible for developing the plan and assisting the facility or plant manager in its implementation. When selecting members of the team, the plant manager should draw on the expertise of all relevant departments within the plant to ensure that all aspects of plant operations are considered when the plan is developed. The plan must clearly describe the responsibilities of each team member as they relate to specific components of the plan. In addition to enhancing the quality of communication between team members and other personnel, clear delineation of responsibilities will ensure that every aspect of the plan is addressed by a specified individual or group of individuals. Pollution Prevention Teams may consist of one individual where appropriate (*e.g.,* in certain small businesses with limited storm water pollution potential).

2. Description of the Facility and Potential Pollution Sources (Part 4.2.2)

Each SWPPP must describe activities, materials, and physical features of the facility that may contribute significant amounts of pollutants to storm water runoff or, during periods of dry weather, result in pollutant discharges through the separate storm sewers or storm water drainage systems that drain the facility. This assessment of storm water pollution risk will support subsequent efforts to identify and set priorities for necessary changes in materials, materials management practices, or site features, as well as aid in the selection of appropriate structural and nonstructural control techniques. Some operators may find that significant amounts of pollutants are running onto the facility property. Such operators should identify and address the contaminated runon in the SWPPP. If the runon cannot be addressed or diverted by the permittee, the permitting authority should be notified. If necessary, the permitting authority may require the operator of the adjacent facility to obtain a permit.

Part 6 of the final MSGP includes industry-specific requirements for the various industry sectors covered by today's permit. All SWPPPs generally must describe the following elements:

a. *Description of the Facility Site and Receiving Waters/Wetlands (Parts 4.2.2 and 4.2.3):* The plan must contain a map of the site that shows the location of outfalls covered by the permit (or by other NPDES permits), the pattern of storm water drainage, an indication of the types of discharges contained in the drainage areas of the outfalls, structural features that control pollutants in runoff,[6] surface water bodies (including wetlands), places where significant materials[7] are exposed to rainfall and runoff, and locations of major spills and leaks that occurred in the 3 years prior to the date of the submission of an NOI to be covered under this permit. The map also must show areas where the following activities take place: fueling, vehicle and equipment maintenance and/or cleaning, loading and unloading, material storage (including tanks or other vessels used for liquid or waste storage), material processing, and waste disposal. For areas of the facility that generate storm water discharges with a reasonable potential to contain significant amounts of pollutants, the map must indicate the probable direction of storm water flow and the pollutants likely to be in the discharge. Flows with a significant potential to cause soil erosion also must be identified. In order to increase the readability of the map, the inventory of the types of discharges contained in each outfall may be kept as an attachment to the site map.

b. *Summary of Potential Pollutant Sources (Part 4.2.4):* The description of potential pollution sources culminates in a narrative assessment of the risk potential that sources of pollution pose to storm water quality. This assessment should clearly point to activities, materials, and physical features of the facility that have a reasonable potential to contribute significant amounts of pollutants to storm water. Any such activities, materials, or features must be addressed by the measures and controls subsequently described in the plan. In conducting the assessment, the facility operator must consider the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices. The assessment must list any significant pollution sources at the site and identify the pollutant parameter or parameters (*i.e.,* biochemical oxygen demand, suspended solids, etc.) associated with each source.

c. *Significant Spills and Leaks (Part 4.2.5):* The plan must include a list of any significant spills and leaks of toxic or hazardous pollutants that occurred in the three years prior to the date of the submission of an NOI to be covered under this permit. Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under Section 311 of CWA (see 40 CFR 110.10 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (see 40 CFR 302.4). Significant spills may also include releases of oil or hazardous substances that are not in excess of reporting requirements and releases of materials that are not classified as oil or a hazardous substance.

The listing should include a description of the causes of each spill or leak, the actions taken to respond to each release, and the actions taken to prevent similar such spills or leaks in the future. This effort will aid the facility operator as she or he examines existing spill prevention and response procedures and develops any additional

Permitting Activities for Storm Water Discharges Associated with Industrial Activity,'' EPA, 1991.

[5] See for example, ''The Oil Spill Prevention, Control and Countermeasures Program Task Force Report,'' EPA, 1988; and ''Guidance Manual for the Development of an Accidental Spill Prevention Program,'' prepared by SAIC for EPA, 1986.

[6] Nonstructural features such as grass swales and vegetative buffer strips also should be shown.

[7] Significant materials include, but are not limited to the following: raw materials; fuels; solvents, detergents, and plastic pellets; finished materials, such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); any chemical the facility is required to report pursuant to EPCRA Section 313; fertilizers; pesticides; and waste products, such as ashes, slag, and sludge that have the potential to be released with storm water discharges. (See 40 CFR 122.26(b)(8)).

procedures necessary to fulfill the requirements set forth in Parts 4 and 6 of the final permit.

d. *Allowable and Prohibited Non-storm Water Discharges (Part 4.4):* Each SWPPP must include a certification, signed by an authorized individual, that discharges from the site have been tested or evaluated for the presence of non-storm water discharges. The certification must describe possible significant sources of non-storm water, the results of any test and/or evaluation conducted to detect such discharges, the test method or evaluation criteria used, the dates on which tests or evaluations were performed, and the onsite drainage points directly observed during the test or evaluation. Acceptable test or evaluation techniques include dye tests, television surveillance, observation of outfalls or other appropriate locations during dry weather, water balance calculations, and analysis of piping and drainage schematics.[8]

Except for flows that originate from fire fighting activities, sources of non-storm water that are specifically identified in the permit as being eligible for authorization under the general permit must be identified in the plan. SWPPPs must identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water discharge.

EPA recognizes that certification may not be feasible where facility personnel do not have access to an outfall, manhole, or other point of access to the conduit that ultimately receives the discharge. In such cases, the plan must describe why certification was not feasible. Permittees who are not able to certify that discharges have been tested or evaluated must notify the Director in accordance with Part 4.4 of the final MSGP.

e. *Sampling Data (Part 4.2.6):* Any existing data on the quality or quantity of storm water discharges from the facility must be described in the plan, including data collected for Part 2 of the group application process. These data may be useful for locating areas that have contributed pollutants to storm water. The description should include a discussion of the methods used to collect and analyze the data. Sample collection points should be identified in the plan and shown on the site map.

[8] In general, smoke tests should not be used for evaluating the discharge of non-storm water to a separate storm sewer as many sources of non-storm water typically pass through a trap that would limit the effectiveness of the smoke test.

3. Selection and Implementation of Storm Water Controls (Part 4.2.7, et al.)

Following completion of the source identification and assessment phase, the permit requires the permittee to evaluate, select, and describe the pollution prevention measures, BMPs, and other controls that will be implemented at the facility. BMPs include processes, procedures, schedules of activities, prohibitions on practices, and other management practices that prevent or reduce the discharge of pollutants in storm water runoff.

EPA emphasizes the implementation of pollution prevention measures and BMPs that reduce possible pollutant discharges at the source. Source reduction measures include, among others, preventive maintenance, chemical substitution, spill prevention, good housekeeping, training, and proper materials management. Where such practices are not appropriate to a particular source or do not effectively reduce pollutant discharges, EPA supports the use of source control measures and BMPs such as material segregation or covering, water diversion, and dust control. Like source reduction measures, source control measures and BMPs are intended to keep pollutants out of storm water. The remaining classes of BMPs, which involve recycling or treatment of storm water, allow the reuse of storm water or attempt to lower pollutant concentrations prior to discharge.

The SWPPP must discuss the reasons each selected control or practice is appropriate for the facility and how each will address one or more of the potential pollution sources identified in the plan. The plan also must include a schedule specifying the time or times during which each control or practice will be implemented. In addition, the plan should discuss ways in which the controls and practices relate to one another and, when taken as a whole, produce an integrated and consistent approach for preventing or controlling potential storm water contamination problems. The permit requirements included for the various industry sectors in Part 6 of today's final MSGP generally require that the portion of the plan that describes the measures and controls address the following minimum components.

When ''minimize/reduce'' is used relative to SWPPP measures, EPA means to consider and implement BMPs that will result in an improvement over the baseline conditions as it relates to the levels of pollutants identified in storm water discharges with due consideration to economic feasibility and effectiveness.

a. *Nonstructural Controls:*

- Good Housekeeping. Good housekeeping involves using practical, cost-effective methods to identify ways to maintain a clean and orderly facility and keep contaminants out of separate storm sewers. It includes establishing protocols to reduce the possibility of mishandling chemicals or equipment and training employees in good housekeeping techniques. These protocols must be described in the plan and communicated to appropriate plant personnel.
- Minimizing Exposure. Where practicable, protecting potential pollutant sources from exposure to storm water is an important control option. Pollutants that are never allowed to contaminate storm water do not require development of ''treatment'' type BMPs. Elimination of all exposure to storm water may also make the facility eligible for the ''No Exposure Certification'' exclusion from permitting at 40 CFR 122.26(g)
- Preventive Maintenance. Permittees must develop a preventive maintenance program that involves regular inspection and maintenance of storm water management devices and other equipment and systems. The program description should identify the devices, equipment, and systems that will be inspected; provide a schedule for inspections and tests; and address appropriate adjustment, cleaning, repair, or replacement of devices, equipment, and systems. For storm water management devices such as catch basins and oil/water separators, the preventive maintenance program should provide for periodic removal of debris to ensure that the devices are operating efficiently. For other equipment and systems, the program should reveal and enable the correction of conditions that could cause breakdowns or failures that may result in the release of pollutants.
- Spill Prevention and Response Procedures. Based on an assessment of possible spill scenarios, permittees must specify appropriate material handling procedures, storage requirements, containment or diversion equipment, and spill cleanup procedures that will minimize the potential for spills and, in the event of a spill, enable proper and timely response. Areas and activities that typically pose a high risk for spills include loading and unloading areas, storage areas, process activities, and waste disposal activities. These activities and areas, and their accompanying drainage points, must be described in the plan. For a spill

prevention and response program to be effective, employees should clearly understand the proper procedures and requirements and have the equipment necessary to respond to spills.

• Routine Inspections. In addition to the comprehensive site evaluation, facilities are required to conduct periodic inspections of designated equipment and areas of the facility. Industry-specific requirements for such inspections, if any, are set forth in Part 6 of the final MSGP. When required, qualified personnel must be identified to conduct inspections at appropriate intervals specified in the plan. A set of tracking or follow-up procedures must be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections must be maintained. These periodic inspections are different from the comprehensive site evaluation, even though the former may be incorporated into the latter. Equipment, area, or other inspections are typically visual and are normally conducted on a regular basis, *e.g.*, daily inspections of loading areas. Requirements for such periodic inspections are specific to each industrial sector in today's permit, whereas the comprehensive site compliance evaluation is required of all industrial sectors. Area inspections help ensure that storm water pollution prevention measures (*e.g.*, BMPs) are operating and properly maintained on a regular basis. The comprehensive site evaluation is intended to provide an overview of the entire facility's pollution prevention activities. Refer to Part VI.C.3.h. below for more information on the comprehensive site evaluation.

• Employee Training. The SWPPP must describe a program for informing personnel at all levels of responsibility of the components and goals of the SWPPP. The training program should address topics such as good housekeeping, materials management, and spill response procedures. Where appropriate, contractor personnel also must be trained in relevant aspects of storm water pollution prevention. A schedule for conducting training must be provided in the plan. Several sections in Part 6 of today's final MSGP specify a minimum frequency for training of once per year. Others indicate that training is to be conducted at an appropriate interval. EPA recommends that facilities conduct training annually at a minimum. However, more frequent training may be necessary at facilities with high turnover of employees or where employee participation is essential to the storm water pollution prevention plan.

b. *Structural Controls:*

• Sediment and Erosion Control. The SWPPP must identify areas that, due to topography, activities, soils, cover materials, or other factors have a high potential for significant soil erosion. The plan must identify measures that will be implemented to limit erosion in these areas.

• Management of Runoff. The plan must contain a narrative evaluation of the appropriateness of traditional storm water management practices (*i.e.*, practices other than those that control pollutant sources) that divert, infiltrate, reuse, or otherwise manage storm water runoff so as to reduce the discharge of pollutants. Appropriate measures may include, among others, vegetative swales, collection and reuse of storm water, inlet controls, snow management, infiltration devices, and wet detention/retention basins.

c. *Example BMPs:* Part 4.2.7.2.2 includes a list of example BMPs that could be considered for use in a SWPPP, for example: detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). These examples are not intended to limit the creativity of facility operators in developing alternative BMPs or applications for BMPs that increase cost effectiveness.

d. *Selection of Controls:* Based on the results of the evaluation, the plan must identify practices that the permittee determines are reasonable and appropriate for the facility. The plan also should describe the particular pollutant source area or activity to be controlled by each storm water management practice. Reasonable and appropriate practices must be implemented and maintained according to the provisions prescribed in the plan.

In selecting storm water management measures, it is important to consider the potential effects of each method on other water resources, such as ground water. Although storm water pollution prevention plans primarily focus on storm water management, facilities must also consider potential ground water pollution problems and take appropriate steps to avoid adversely affecting ground water quality. For example, if the water table is unusually high in an area, an infiltration pond may contaminate a ground water source unless special preventive measures are taken. Under EPA's July 1991 Ground Water Protection Strategy, States are encouraged to develop Comprehensive State Ground Water Protection Programs (CSGWPP). Efforts to control storm water should be compatible with State ground water objectives as reflected in CSGWPPs.

e. *Other Controls:* Today's final MSGP includes a new requirement that no solid materials, including floating debris may be discharged to waters of the United States, except as authorized by a permit under Section 404 of the Clean Water Act. In addition, off-site tracking of raw, final, or waste materials or sediment, and the generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized. These requirements are similar to requirements included in EPA's construction general storm water permit (63 FR 7858, February 17, 1998) which EPA believes would be appropriate for industrial facilities as well.

f. *Maintenance (Part 4.3):* All BMPs identified in the SWPPP must be maintained in effective operating condition.

g. *Controls for Allowable Non-Storm Water (Part 4.4.2):* Where an allowable non-storm water has been identified, appropriate controls for that discharge must be included in the permit. In many cases, the same types of controls for contaminated storm water would suffice, but the nature and volume of potential pollutants in the non-storm water discharges must be taken into consideration in selection of controls.

h. *Comprehensive Site Compliance Evaluation (Part 4.9):* Today's final MSGP requires that the SWPPP describe the scope and content of the comprehensive site evaluations that qualified personnel will conduct to (1) confirm the accuracy of the description of potential pollution sources contained in the plan, (2) determine the effectiveness of the plan, and (3) assess compliance with the terms and conditions of the permit. Note that the comprehensive site evaluations are not the same as periodic or other inspections described for certain industries in Section VI.C.3.d of this fact sheet. However, in the instances when frequencies of inspections and the comprehensive site compliance evaluation overlap, they may be combined allowing for efficiency as long as the requirements for both types of inspections are met. The plan must indicate the frequency of comprehensive evaluations which must be at least once a year, except where comprehensive site evaluations are shown in the plan to be impractical for inactive mining sites, due to remote location and inaccessibility.[9] The individual or individuals who will conduct the comprehensive site evaluation must be identified in the plan and should be members of the pollution prevention team. Material handling and storage areas and other potential sources of pollution must be visually inspected for evidence of actual or potential pollutant discharges to the drainage system. Inspectors also must observe erosion controls and structural storm water management devices to ensure that each is operating correctly. Equipment needed to implement the SWPPP, such as that used during spill response activities, must be inspected to confirm that it is in proper working order.

The results of each comprehensive site evaluation must be documented in a report signed by an authorized company official. The report must describe the scope of the comprehensive site evaluation, the personnel making the comprehensive site evaluation, the date(s) of the comprehensive site evaluation, and any major observations relating to implementation of the SWPPP. Comprehensive site evaluation reports must be retained for at least three years after the date of the evaluation. Based on the results of each comprehensive site evaluation, the description in the plan of potential pollution sources and measures and controls must be revised as appropriate within two weeks after each comprehensive site evaluation, unless indicated otherwise in Part 6 of the permit. If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm, or not more than 12 weeks after completion of the comprehensive site evaluation.

i. *Applicable State, Tribal, or Local Plans (Part 4.8):* The SWPPP must be consistent with any applicable requirements of State, Tribal, or Local storm water, waste disposal, sanitary sewer or septic system regulations to the extent these apply to a facility and are more stringent than the requirements of this permit.

j. *Documentation of Permit Eligibility with Regards to ESA and NHPA Requirements (Parts 4.5 and 4.6):* To better ensure compliance with the requirements of the ESA and NHPA, Parts 4.5 and 4.6 of today's final MSGP require that documentation be included with the SWPPP demonstrating permit eligibility with regards to the requirements of the ESA and NHPA. The following information is required for the ESA:

- Information on whether listed endangered or threatened species, or critical habitat, are found in proximity to the facility;
- Whether such species may be jeopardized by the storm water discharges or storm water discharge-related activities;
- Results of the Addendum A endangered species screening determinations; and
- A description of measures necessary to protect listed endangered or threatened species, or critical habitat, including any terms or conditions that are imposed under the eligibility requirements of Part 1.2.3.6. The final MSGP notes that discharges from facilities which fail to describe and implement such measures are ineligible for coverage under the permit.

The following information is required for the NHPA determination:

- Information on whether the storm water discharges or storm water discharge-related activities would have an effect on a property that is listed or eligible for listing on the National Register of Historic Places;
- Where effects may occur, any written agreements which have been made with the State Historic Preservation Officer, Tribal Historic Preservation Officer, or other Tribal leader to mitigate those effects;
- Results of the Addendum B historic places screening determinations; and
- A description of measures necessary to avoid or minimize adverse impacts on places listed, or eligible for listing, on the National Register of Historic Places, including any terms or conditions that are imposed under the eligibility requirements of Part 1.2.3.7 of this permit. The final MSGP notes that discharges from facilities which fail to describe and implement such measures are ineligible for coverage under the permit.

k. *Keeping a Copy of the Permit with the SWPPP (Part 4.7):* A new requirement to have a copy of the permit language in the SWPPP has been added to today's permit. The ''confirmation'' letter received from the NOI Processing Center is not the permit; it is essentially only the equivalent of a ''receipt'' for a facility's ''registration'' (NOI) to use the general permit. Since determining permit eligibility and preparing a SWPPP is required prior to obtaining permit coverage, a copy of the permit would be needed anyway. Requiring a copy of the permit in the SWPPP ensures that facility operators, and not just whoever prepared the SWPPP, will have ready access to all permit requirements.

l. *Recordkeeping and Keeping the SWPPP Current (Parts 4.9.4, 4.10, et al.):* Records must be kept with the SWPPP documenting the status and effectiveness of plan implementation. At a minimum, records must address results of the annual Comprehensive Site Compliance Evaluations, routine facility inspections, spills, monitoring, and maintenance activities. The plan also must describe a system that enables timely reporting of storm water management-related information to appropriate plant personnel. Inspectors or other enforcement officers will ask for records documenting permit compliance during inspections or facility compliance reviews.

The SWPPP must be updated whenever there is a change at the facility that would significantly affect the discharges authorized under the MSGP. The SWPPP must also be updated whenever monitoring results and/or an inspection by the permittee or by local, state, tribal, or federal officials indicate a portion of the SWPPP is proving to be ineffective in controlling storm water discharge quality.

m. *Signature, Plan Review, and Access to the SWPPP (Part 4.11):* The SWPPP must be signed and certified in accordance with Part 7 of the permit. A copy of the SWPPP must be kept on site at the facility or be locally available for the use of the Director, a State, Tribe, or local agency (*e.g.*, MS4 operator) at the time of an onsite inspection. The SWPPP must also be made available to the U.S. Fish and Wildlife Service or National Marine Fisheries Service upon request. Since SWPPPs are living documents that change over time, access to the current version of the SWPPP is critical in assessing permit compliance. Facilities are also required to provide a copy of the SWPPP to the public when requested in writing to do so.

The Director may notify you at any time that your SWPPP does not meet one or more of the minimum requirements of this permit. The notification will identify provisions of the permit which are not being met, as well as the required modifications. Required changes must be made within thirty (30) calendar days and a written certification submitted to the Director confirming that the changes were made.

EPA does not intend to require public comment on SWPPPs or hold public hearings. As noted above, EPA may require changes to a SWPPP when necessary and may consider concerns from the public in making such judgments. The MSGP also provides

[9] Where annual site inspections are shown in the plan to be impractical for inactive mining sites due to remote location and inaccessibility, site inspections must be conducted at least once every three years.

that individual permits may be required when the MSGP is inappropriate for a given facility. During the issuance of the individual permits, the public would have an opportunity to comment on the requirements of the permits.

4. Deadlines

Today's MSGP requires that permittees previously covered by the 1995 MSGP must update their SWPPPs to comply with any new requirements of today's MSGP by the date they submit their new NOIs. As noted earlier, the new NOIs are due January 29, 2001. However, a permittee may request an extension for the SWPPP update not to exceed 270 days from the expiration date of the 1995 MSGP.

D. Special Requirements

1. Special Requirements for Storm Water Discharges Associated With Industrial Activity From Facilities Subject to EPCRA Section 313 Requirements (Part 4.12)

Today's final MSGP replaces the special requirements of the 1995 MSGP for certain permittees subject to reporting requirements under Section 313 of the EPCRA (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA)) with a requirement to identify areas with these pollutants. EPCRA Section 313 requires operators of certain facilities that manufacture (including import), process, or otherwise use listed toxic chemicals to report annually their releases of those chemicals to any environmental media. Listed toxic chemicals include more than 500 chemicals and chemical classes listed at 40 CFR Part 372 (including the recently added chemicals published November 30, 1994).

By requiring identification of EPCRA 313 chemicals in the summary of potential pollutant sources under the Storm Water Pollution Prevention Plan (Part 4.2.4), the facility operator is then required to develop appropriate storm water controls for such areas (Part 4.2.7). EPA expects that many controls for EPCRA chemicals will continue to be driven by other state and federal environmental regulations such as Spill Prevention Control and Countermeasure (SPCC) plans required under Section 311 of the CWA, etc. as long as such a requirement is incorporated into the SWPPP.

This reduction in permit complexity by eliminating redundant requirements was requested by members of the regulated community.

2. Special Requirements for Storm Water Discharges Associated With Industrial Activity From Salt Storage Facilities

Today's MSGP retains the same special requirements as the 1995 MSGP for storm water discharges associated with industrial activity from salt storage facilities. Storage piles of salt used for deicing or other commercial or industrial purposes must be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. This requirement only applies to runoff from storage piles discharged to waters of the United States. Facilities that collect all the runoff from their salt piles and reuse it in their processes or discharge it subject to a separate NPDES permit do not need to enclose or cover their piles.

These special requirements have been included in today's permit based on human health and aquatic effects resulting from storm water runoff from salt storage piles compounded with the prevalence of salt storage piles across the United States.

3. Consistency With Other Plans

SWPPPs may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC) developed for the facility under Section 311 of the CWA or BMP programs otherwise required by an NPDES permit for the facility as long as such requirement is incorporated into the SWPPP.

E. Monitoring and Reporting Requirements

Today's final MSGP retains the same monitoring requirements as the existing MSGP. Numerous comments were submitted on these monitoring requirements. A summary of EPA's responses to these comments and justification for retaining these requirements is contained in this section. A more detailed discussion is found in Section IX of this fact sheet (Summary of Responses to Comments). Responses to individual comments are contained in the Water Docket.

Like the 1995 MSGP, today's final MSGP includes three general types of monitoring: analytical monitoring or chemical monitoring; compliance monitoring for effluent guidelines compliance, and visual examinations of storm water discharges. A general description of each of these types of monitoring which was provided with the 1995 MSGP is repeated below.

1. Analytical Monitoring Requirements

Analytical monitoring requirements involve laboratory chemical analyses of samples collected by the permittee. The results of the analytical monitoring are quantitative concentration values for different pollutants, which can be easily compared to the results from other sampling events, other facilities, or to national benchmarks.

The categories of facilities subject to analytical monitoring in today's final MSGP are noted in Table 1 of this fact sheet. The MSGP requires analytical monitoring for the industry sectors or subsectors that demonstrated in the group application data a potential to discharge pollutants at concentrations of concern or, in certain State-specific cases, to satisfy those States' requirements. The data submitted with the group permit applications were reviewed by EPA to determine the industry sectors and subsectors listed in Table 1 of this fact sheet that are to be subject to analytical monitoring requirements. First, EPA divided the Part 1 and Part 2 application data by the industry sectors listed in Table 1. Where a sector was found to contain a wide range of industrial activities or potential pollutant sources, it was further subdivided into the industry subsectors listed in Table 1. Next, EPA reviewed the information submitted in Part 1 of the group applications regarding the industrial activities, significant materials exposed to storm water, and the material management measures employed. This information helped identify potential pollutants that may be present in the storm water discharges. Then EPA entered into a database the sampling data submitted in Part 2 of the group applications. Those data were arrayed according to industrial sector and subsector for the purposes of determining when analytical monitoring would be appropriate.

To conduct a comparison of the results of the statistical analyses to determine when analytical monitoring would be required, EPA established ''benchmark'' concentrations for the pollutant parameters on which monitoring results had been received. The ''benchmarks'' are the pollutant concentrations above which EPA determined represent a level of concern. The level of concern is a concentration at which a storm water discharge could potentially impair, or contribute to impairing, water quality or affect human health from ingestion of water or fish. The benchmarks are also viewed by EPA as a level that, if below, a facility presents little potential for water quality concern. As such, the benchmarks also provide an appropriate level to determine whether a facility's storm water pollution prevention measures are successfully implemented. The benchmark concentrations are not effluent limitations and should not be interpreted or adopted as such. These values are merely levels which EPA has used to determine if a storm water discharge from any given facility merits further monitoring to ensure that the facility has been successful in implementing a SWPPP. As such, these levels represent a target concentration for a facility to achieve through implementation of pollution prevention measures at the facility. Table 3 lists the parameter benchmark values and the sources used for the benchmarks. Two changes from the 1995 MSGP are the addition of benchmark values for total Cyanide and Total Magnesium. Benchmark values for the two parameters were included in the Fact Sheet of the 1995 MSGP at Table K–3, but were inadvertently not included in the general listing of parameter benchmark values (Table 5 of the Fact Sheet for the 1995 MSGP). Additional information explaining the derivation of the benchmarks can be found in the fact sheet for the 1995 MSGP (60 FR 50825).

TABLE 3.—PARAMETER BENCHMARK VALUES

Parameter name	Benchmark level	Source
Biochemical Oxygen Demand (5 day)	30 mg/L	4
Chemical Oxygen Demand	120 mg/L	5
Total Suspended Solids	100 mg/L	7
Oil and Grease	15 mg/L	8
Nitrate + Nitrite Nitrogen	0.68 mg/L	7
Total Phosphorus	2.0 mg/L	6
pH	6.0–9.0 s.u.	4
Acrylonitrile (c)	7.55 mg/L	2
Aluminum, Total (pH 6.5–9)	0.75 mg/L	1
Ammonia	19 mg/L	1
Antimony, Total	0.636 mg/L	9
Arsenic, Total (c)	0.16854 mg/L	9
Benzene	0.01 mg/L	10
Beryllium, Total (c)	0.13 mg/L	2
Butylbenzyl Phthalate	3 mg/L	3
Cadmium, Total (H)	0.0159 mg/L	9
Chloride	860 mg/L	1
Copper, Total (H)	0.0636 mg/L	9
Cyanide, Total	0.0636 mg/l	9
Dimethyl Phthalate	1.0 mg/L	11
Ethylbenzene	3.1 mg/L	3
Fluoranthene	0.042 mg/L	3
Fluoride	1.8 mg/L	6
Iron, Total	1.0 mg/L	12
Lead, Total (H)	0.0816 mg/L	1
Magnesium, Total	0.0636 mg/l	9
Manganese	1.0 mg/L	13
Mercury, Total	0.0024 mg/L	1
Nickel, Total (H)	1.417 mg/L	1
PCB–1016 (c)	0.000127 mg/L	9
PCB–1221 (c)	0.10 mg/L	10
PCB–1232 (c)	0.000318 mg/L	9
PCB–1242 (c)	0.00020 mg/L	10
PCB–1248 (c)	0.002544 mg/L	9
PCB–1254 (c)	0.10 mg/L	10
PCB–1260 (c)	0.000477 mg/L	9
Phenols, Total	1.0 mg/L	11
Pyrene (PAH,c)	0.01 mg/L	10
Selenium, Total (*)	0.2385 mg/L	9
Silver, Total (H)	0.0318 mg/L	9
Toluene	10.0 mg/L	3
Trichloroethylene (c)	0.0027 mg/L	3
Zinc, Total (H)	0.117 mg/L	1

Sources:
1. ''EPA Recommended Ambient Water Quality Criteria.'' Acute Aquatic Life Freshwater.
2. ''EPA Recommended Ambient Water Quality Criteria.'' LOEL Acute Freshwater.
3. ''EPA Recommended Ambient Water Quality Criteria.'' Human Health Criteria for Consumption of Water and Organisms.
4. Secondary Treatment Regulations (40 CFR 133).
5. Factor of 4 times BOD5 concentration—North Carolina benchmark.
6. North Carolina storm water benchmark derived from NC Water Quality Standards.
7. National Urban Runoff Program (NURP) median concentration.
8. Median concentration of Storm Water Effluent Limitation Guideline (40 CFR Part 419).
9. Minimum Level (ML) based upon highest Method Detection Limit (MDL) times a factor of 3.18.
10. Laboratory derived Minimum Level (ML).
11. Discharge limitations and compliance data.
12. ''EPA Recommended Ambient Water Quality Criteria.'' Chronic Aquatic Life Freshwater.
13. Colorado—Chronic Aquatic Life Freshwater—Water Quality Criteria.

Notes:
(*) Limit established for oil and gas exploration and production facilities only.
(c) carcinogen.

(H) hardness dependent.
(PAH) Polynuclear Aromatic Hydrocarbon.
Assumptions:
Receiving water temperature −20 C.
Receiving water pH −7.8.
Receiving water hardness CaCO3 100 mg/L.
Receiving water salinity 20 g/kg
Acute to Chronic Ratio (ACR) −10.

EPA prepared a statistical analysis of the sampling data for each pollutant parameter reported within each sector or subsector. (Only where EPA did not subdivide an industry sector into subsectors was an analysis of the entire sector's data performed.) The statistical analysis was performed assuming a delta log normal distribution of the sampling data within each sector/subsector. The analyses calculated median, mean, maximum, minimum, 95th, and 99th percentile concentrations for each parameter. The results of the analyses can be found in the appropriate section of Section VIII of the fact sheet accompanying the 1995 MSGP. From this analysis, EPA was able to identify pollutants for further evaluation within each sector or subsector.

EPA next compared the median concentration of each pollutant for each sector or subsector to the benchmark concentrations listed in Table 3. EPA also compared the other statistical results to the benchmarks to better ascertain the magnitude and range of the discharge concentrations to help identify the pollutants of concern. EPA did not conduct this analysis if a sector had data for a pollutant from less than three individual facilities. Under these circumstances, the sector or subsector would not have this pollutant identified as a pollutant of concern. This was done to ensure that a reasonable number of facilities represented the industry sector or subsector as a whole and that the analysis did not rely on data from only one facility.

For each industry sector or subsector, parameters with a median concentration higher than the benchmark level were considered pollutants of concern for the industry and identified as potential pollutants for analytical monitoring under today's permit. EPA then analyzed the list of potential pollutants to be monitored against the lists of significant materials exposed and industrial activities which occur within each industry sector or subsector as described in the Part I application information. Where EPA could identify a source of a potential pollutant which is directly related to industrial activities of the industry sector or subsector, the permit identifies that parameter for analytical monitoring. If EPA could not identify a source of a potential pollutant which was associated with the sector/subsector's industrial activity, the permit does not require monitoring for the pollutant in that sector/subsector. Industries with no pollutants for which the median concentrations are higher than the benchmark levels are not required to perform analytical monitoring under this permit, with the exceptions explained below.

In addition to the sectors and subsectors identified for analytical monitoring using the methods described above, EPA determined, based upon a review of the degree of exposure, types of materials exposed, special studies and in some cases inadequate sampling data in the group applications, that the following industries also warrant analytical monitoring notwithstanding the absence of data on the presence or absence of certain pollutants in the group applications: Sector K (hazardous waste treatment storage and disposal facilities), and Sector S (airports which use more than 100,000 gallons per year of glycol-based fluids or 100 tons of urea for deicing). Today's final MSGP retains the monitoring requirements of the 1995 MSGP due to the high potential for contamination of storm water discharge which EPA believes was not adequately characterized by group applicants in the information they provided in the group application process. Like the 1995 MSGP, exemptions for today's MSGP would be on a pollutant-by-pollutant and outfall-by-outfall basis.

As part of the reissuance process for today's MSGP, EPA evaluated Discharge Monitoring Reports (DMRs) submitted by facilities for analytical monitoring conducted during the second and fourth year of the 1995 MSGP. The purpose of the evaluation was to evaluate any trends in the monitoring results. One factor common to almost all industrial sectors, however, was that the number of DMRs submitted for the year-four monitoring period far exceeded the number of DMRs submitted for the year-two monitoring period. For the second-year monitoring period, EPA received 380 DMRs, whereas 1377 DMRs were received for the fourth-year monitoring period. For example, the number of Sector M (Auto Salvage Yards) facilities that submitted monitoring results for total suspended solids from the second year monitoring period was roughly 26; the number of DMRs submitted for the fourth year monitoring for the same industrial sector and parameter was 240. As a result, EPA could not conduct the trends analysis it intended to perform.

While the exact reason for the significant increase in the number of DMRs received in year 4 of the permit (as compared to year 2) is unknown, EPA suspects it is related to the administrative extension of EPA's 1992 baseline general permit. Although the 1992 general permit expired in September 1997, the permit was administratively extended. It was not until December 28, 1998 that facilities previously covered under EPA's baseline industrial permit were required to obtain coverage under the MSGP. As a result, facilities previously covered under the baseline industrial permit were not required to conduct analytical monitoring (as required in the second year of the 1995 MSGP). In essence, the fourth-year monitoring data set EPA received represents the baseline of pollutant discharge information under the sector-specific industrial general storm water permit.

Based on the information received during the public comment period and the DMRs received, EPA believes it is premature to make any final conclusions regarding the value of the Agency's acquisition of the monitoring data or to consider dropping the monitoring. EPA is retaining quarterly analytic monitoring requirements for storm water discharges as per the 1995 MSGP for all sectors previously identified. Comparison of pollutant levels against benchmark levels is still regarded as one of the important tools operators must use to evaluate their facilities' storm water pollution prevention plans (SWPPPs) and best management practices (BMPs). Facilities' discharge monitoring reports (DMRs) are also vital to the Agency for use in characterizing an industrial sector's discharges. EPA has not, and does not, intend for pollutant levels above the benchmark values to mean a facility is out of compliance with the MSGP–2000.

While today's permit retains the analytical monitoring requirements of the 1995 MSGP, the Agency continues to support the position that any analytical monitoring program required under the MSGP needs to be structured so that it provides useful information to facility operators, EPA and the general public on the effectiveness of Storm Water Pollution Prevention Plans. EPA commits to using data from the 1995 and 2000 permits to evaluate the effectiveness of management practices on an industry sector basis and to evaluate the need for changes in monitoring protocols for the next permit. The Agency will work with program stakeholders in conducting the evaluation and may seek to implement certain changes possibly on a pilot basis.

Like the 1995 MSGP, today's MSGP requires that all facilities, save for Sector G, within an industry sector or subsector identified for analytical monitoring must, at a minimum, monitor their storm water discharges quarterly during the second year of permit coverage, unless the facility exercises the Alternative Certification described in Section VI.E.3 of this fact sheet. At the end of the second year of coverage under the current permit, a facility is required to calculate the average concentration for each parameter for which the facility is required to monitor. If the average concentration for a pollutant parameter is less than or equal to the benchmark value, then the permittee is not required to conduct analytical monitoring for that pollutant during the fourth year of the permit. If, however, the average concentration for a pollutant is greater than the benchmark value, then the permittee is required to conduct quarterly monitoring for that pollutant during the fourth year of permit coverage. Analytical monitoring is not required during the first, third, and fifth year of the permit. When average concentrations exceed benchmark levels, facilities are encouraged to conduct more monitoring if appropriate to identify additional management practices which may be necessary to include in their SWPPP. The exclusion from analytical monitoring in the fourth year of the permit was conditional on the facility maintaining industrial operations and BMPs that will ensure a quality of storm water discharges consistent with the average concentrations recorded during the second year of the permit. For purposes of the above monitoring, year 2 runs from October 1, 2001 to September 30, 2002; year 4 runs from October 1, 2003 to September 30, 2004.

EPA acknowledges that, considering the small number of samples required per monitoring year (four), and the vagaries of storm water discharges, it may be difficult to determine or confirm the existence of a discharge problem as a commenter claimed. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job. EPA believes there is presently no alternative that provides stakeholders with an equivalent indicator of program effectiveness.

Commenters also had concerns that only four samples and variability in conditions severely reduce the utility of monitoring results for judging BMP effectiveness. While not practicable for EPA to require an increase in monitoring, operators are encouraged to sample more frequently to improve the statistical validity of their results. Unless the proper data acquisition protocol for making a valid BMP effectiveness determination is rigorously followed, any other method used to assess BMP effectiveness would be qualitative, and therefore less reliable. The least subjective approach, and most beneficial to operators and stakeholders, EPA believes, remains a combination of visual and analytic monitoring, using analyte benchmark levels to target potential problems. Statistical uncertainties inherent in the monitoring results will necessitate both operators and EPA exercising best professional judgement in interpreting the results. As stated above, when viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job.

Commenters had additional concerns regarding impacts of storm water on water quality standards and that monitoring has marginal value in assessing and protecting water quality. In the absence of establishing discharge pollutant levels that correlate directly to water quality standards, as would be done for an individual permit, EPA settled on benchmark levels which would, under nearly all scenarios, be protective of water quality standards. Recognizing the shortcomings of these generic pollutant levels, EPA only intends for them to be used as indicators of possible problems and as a flag to reevaluate the SWPPP and possibly the operation of the facility—not as a trigger to begin mandatory SWPPP or operational revisions (unless, after employing BPJ, the operator deems such revisions are necessary).

Monitoring results also serve as an oversight tool for EPA to prioritize sites which may benefit from a site inspection. A requirement to submit test results serves as an incentive for the facility operator to perform the monitoring and take any necessary action based on the results.

Some commenters felt the validity of benchmark values need to be reevaluated. Universal WQ-based discharge levels for storm water cannot be established; the next best thing would be to determine water segment-specific total maximum daily loads (TMDLs) for these discharges. But when benchmarks are employed merely as indicators, without requiring specific corrective actions beyond using best professional judgement to reassess present conditions and make any changes deemed necessary, the present benchmarks are adequate. In many cases operators can, upon receipt of analytic monitoring results above benchmarks, still conclude their present SWPPPs/BMPs are adequately protective of water quality, or that other situations such as discharging to low-quality, ephemeral streams may obviate the need for SWPPP/BMP revisions.

The fact that storm water discharge pollutant levels could be affected by atmospheric/dry deposition, run on and fate in transport, as well as structural sources, was a concern of a few commenters. EPA acknowledges the potential for adding pollutants to a facility's discharges from external or structural sources. Permittees are, nonetheless, still legally responsible for the quality of all discharges from their sites (or any runoff that comes into contact with their structures, industrial activities or materials, regardless of where these are located)—but not from pollutants that may be introduced into their discharges outside the boundaries of their properties. Pollutant levels, whether elevated from air deposition, run-on from nearby sites, or leachate from on-site structures, remain the responsibility of permittees. This was affirmed in the ruling by the Environmental Appeals Board against the General Motors Corporation CPC-Pontiac Fiero Plant in December 1997.

a. *Other Monitoring Options:* There were various comments for and against various alternatives to quarterly analytic monitoring submitted. The other non-analytic monitoring options are summarized in the following paragraphs, along with EPA responses.

b. *Visual Monitoring:* Numerous commenters supported dropping analytic monitoring from the MSGP–

2000 in favor of just requiring quarterly visual monitoring. Commenters claimed visual monitoring is adequate to ensure compliance and environmental protection (especially coupled with training), and is least burdensome.

Quarterly visual monitoring of storm water discharges has always been a permit requirement, for many of the same reasons why commenters favor it, and will continue to be so. EPA will also be retaining analytic monitoring because we believe the best way to ensure SWPPP effectiveness and protection of water quality is through a combination of visual and analytic monitoring. The reasons for not adopting visual monitoring only are explained further in the rationale for justifying quarterly analytic monitoring.

c. *Annual Reporting:* One option suggested by commenters was for an annual report, possibly using a standardized form, to be submitted to EPA detailing the permittee's SWPPP highlights and revisions/additions, inspections, compliance evaluations, visual monitoring results, etc. This information is already required to be documented in a facility's SWPPP, which, if deemed necessary, must be provided to EPA on demand. One comment against this option stated that the volume of data submitted would be too great for the Agency to evaluate. Other opponents to this option indicated that the reports would not contain enough information to evaluate SWPPP effectiveness, ensure water quality protection, or provide the information necessary to make long-term management plans. Commenters in support of the annual report concept held that it would provide a record of the permittee's commitment to storm water control, was better for evaluating SWPPP effectiveness, and would provide information to EPA to determine if sampling or a site inspection is needed.

If no monitoring data were available, an annual report could be used to ensure that a facility is implementing its SWPPP. The reports could also be used to prioritize sites for inspection. However, EPA agrees that it would be very burdensome to review all the reports and very difficult to assess the effectiveness of a facility's SWPPP based on that review alone. The subjectivity inherent in annual reporting makes it a undesirable substitute for analytic monitoring. Documenting the kind of information in the annual report is already a SWPPP requirement, and is therefore available to operators for assessing and improving their storm water programs. For these reasons, EPA will not require reports containing essentially the same information required in SWPPPs to be submitted in lieu of analytic monitoring.

d. *Group Monitoring:* Commenters also suggested group monitoring. In this option a consortium of like permittees would do sampling at one facility, possibly on a rotating basis. The sample results would represent all the facilities in the consortium. A variation of group monitoring is for the consortium to retain a consultant to do representative sampling and provide storm water program guidance and evaluations. Supporters of this concept said it may allow for comparisons of effectiveness of different SWPPP practices (e.g., sweeping vs. catchment basin for solids control). One commenter pointed out that the feasibility of the group concept is suspect due to the fact that individual facilities may have different topography, soil and other natural conditions. EPA believes that technically valid BMP comparisons could be done under this type of program. However, it would be difficult and very resource-intensive for EPA to establish criteria for group eligibility and then monitor to ensure that groups met these criteria.

e. *Watershed Monitoring:* This option involves replacing the monitoring of discrete storm water discharges with ambient receiving water monitoring on a watershed basis. Watershed monitoring is invaluable to making real conclusions regarding storm water impacts of water quality, and will be employed in making total maximum daily load (TMDL). However, watershed monitoring cannot replace facility-specific storm water discharge monitoring to determine the loads contributed by the facilities and to evaluate the effectiveness of the SWPPP.

f. *Monitoring Only in Impaired Waters:* Several commenters supported requiring monitoring only in impaired water bodies and for pollutants that cause the impairment. Although this option would focus attention on the problem water bodies and possible pollutant sources, EPA and a commenter point out that not all impaired water bodies and their impairments have been determined. The goal of EPA's storm water program is also to protect and maintain water quality, not just remediate impaired waters, so focusing on impaired waters only does not fulfill all the program's responsibilities.

2. Compliance Monitoring

Today's final MSGP retains the same compliance monitoring requirements as the 1995 MSGP, and also includes compliance monitoring requirements for certain storm water discharges from new and existing hazardous and non-hazardous landfills. As noted earlier, EPA has recently finalized effluent limitations guidelines for these landfills (65 FR 3007, January 19, 2000) and the compliance monitoring is required to ensure compliance with the guidelines. These discharges must generally be sampled annually (in some cases quarterly) and tested for the parameters which are limited by the permit. Discharges subject to compliance monitoring include (in addition to the landfills discharges): coal pile runoff, contaminated runoff from phosphate fertilizer manufacturing facilities, runoff from asphalt paving and roofing emulsion production areas, material storage pile runoff from cement manufacturing facilities, and mine dewatering discharges from crushed stone, construction sand and gravel, and industrial sand mines located in EPA Regions 1, 2, 3, 6, 8, 9, 10. All samples are to be grabs taken within the first 30 minutes of discharge where practicable, but in no case later than the first hour of discharge. Where practicable, the samples shall be taken from the discharges subject to the numeric effluent limitations prior to mixing with other discharges.

Monitoring for these discharges is required to determine compliance with numeric effluent limitations. Discharges covered under today's final MSGP which are subject to numeric effluent limitations are not eligible for the alternative certification described in Section VI.E.3 of this fact sheet.

Where a State or Tribe has imposed a numeric effluent limitation as a condition for certification under CWA § 401, a default minimum monitoring frequency of once per year has been included in the final permit. This default monitoring frequency would only apply if a State failed to provided a monitoring frequency along with their conditional § 401 certification.

3. Alternate Certification

Today's final MSGP retains the provision in the 1995 MSGP for an alternative certification in lieu of analytical monitoring. The MSGP includes monitoring requirements for facilities which the Agency believes have the potential for contributing significant levels of pollutants to storm water discharges. The alternative certification described below is included in the permit to ensure that monitoring requirements are only imposed on those facilities which do, in fact, have storm water discharges containing pollutants at concentrations of concern. EPA has determined that if there are no sources of a pollutant exposed to storm water at the site then the potential for that pollutant to contaminate storm water discharges does not warrant monitoring.

A discharger is not subject to the analytical monitoring requirements provided the discharger makes a certification for a given outfall, on a pollutant-by-pollutant basis, that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, significant materials from past industrial activity that are located in areas of the facility that are within the drainage area of the outfall are not presently exposed to storm water and will not be exposed to storm water for the certification period. Such certification must be retained in the SWPPP, and submitted to EPA in lieu of monitoring reports required under Part 7 of the permit. The permittee is required to complete any and all sampling until the exposure is eliminated. If the facility is reporting for a partial year, the permittee must specify the date exposure was eliminated. If the permittee is certifying that a pollutant was present for part of the reporting period, nothing relieves the permittee from the responsibility to sample that parameter up until the exposure was eliminated and it was determined that no significant materials remained. This certification is not to be confused with the low concentration sampling waiver. The test for the application of this certification is whether the pollutant is exposed, or can be expected to be present in the storm water discharge. If the facility does not and has not used a parameter, or if exposure is eliminated and no significant materials remain, then the facility can exercise this certification.

As noted above, the MSGP does not allow facilities with discharges subject to numeric effluent limitations guidelines to submit alternative certification in lieu of compliance monitoring requirements. The permit also does not allow air transportation facilities or hard rock mines subject to the analytical monitoring requirements in Part 6 of the final MSGP to exercise an alternative certification.

A facility is not precluded from exercising the alternative certification in lieu of analytical monitoring requirements in the second or fourth year of the reissued MSGP, even if that facility has failed to qualify for a low concentration waiver thus far. EPA encourages facilities to eliminate exposure of industrial activities and significant materials where practicable.

4. Reporting and Retention Requirements

Like the 1995 MSGP, today's final MSGP requires that permittees submit all analytical monitoring results obtained during the second and fourth year of permit coverage. As noted earlier, year 2 runs from October 1, 2001 to September 30, 2002; year 4 runs from October 1, 2003 to September 30, 2004. Monitoring results must be submitted by January 28, 2003 for year 2 monitoring and January 28, 2005 for year 4 monitoring.

For each outfall, one Discharge Monitoring Report (DMR) form must be submitted per storm event sampled. For facilities conducting monitoring beyond the minimum requirements, an additional DMR form must be filed for each analysis. The permittee must include a measurement or estimate of the total precipitation, volume of runoff, and peak flow rate of runoff for each storm event sampled. Permittees subject to compliance monitoring requirements are required to submit all compliance monitoring results annually by October 28 following each annual sampling period (which run from October 1 of each year to September 30 of the following year). Compliance monitoring results must be submitted on signed DMR forms. For each outfall, one DMR form must be submitted for each storm event sampled.

Permittees are not required to submit records of the visual examinations of storm water discharges unless specifically asked to do so by the Director. Records of the visual examinations must be maintained at the facility. Records of visual examination of storm water discharge need not be lengthy. Permittees may prepare typed or hand written reports using forms or tables which they may develop for their facility. The report need only document: the date and time of the examination; the name of the individual making the examination; and any observations of color, odor, clarity, floating solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution.

The address for submission of DMR forms for today's final MSGP is as follows: MSGP DMR (4203), U.S. EPA, 1200 Pennsylvania Avenue, NW., Washington, DC 20460.

Under the 1995 MSGP, DMRs had been sent to the EPA Regional Offices. However, to facilitate review of all DMRs from facilities operating under the MSGP, the final MSGP requires that they be sent to the one location specified above.

Today's final MSGP also retains the requirement in the 1995 MSGP that permittees submit signed copies of DMRs to the operator of a large or medium MS4 (those which serve a population of 100,000 or more), if there are discharges of storm water associated with industrial activity through the MS4.

The location for submission of all reports (other than DMRs) for today's final MSGP remains the EPA Regional Offices as found in Part 8.3 of the final permit. Consistent with Office of Management and Budget Circular A–105, facilities located on the following Federal Indian Reservations, which cross EPA Regional boundaries, should note that permitting authority for such lands is consolidated in one single EPA Region.

a. Duck Valley Reservations lands, located in Regions 9 and 10, are handled by Region 9.

b. Fort McDermitt Reservation lands, located in Regions 9 and 10, are handled by Region 9.

c. Goshute Reservation lands, located in Regions 8 and 9, are handled by Region 9.

d. Navajo Reservation lands, located in Regions 6, 8, and 9, are handled by Region 9.

e. Ute Mountain Reservation lands, located in Regions 6 and 8, are handled Region 8.

Pursuant to the requirements of 40 CFR 122.41(j), today's MSGP (like the 1995 MSGP) requires permittees to retain all records for a minimum of three years from the date of the sampling, examination, or other activity that generated the data.

5. Sample Type

Today's final MSGP retains the same requirements regarding the type of sampling as the 1995 MSGP. A general description is provided below. Certain industries have different requirements. Permittees should check the industry-specific requirements in Part 6 of the final permit to confirm these requirements. Grab samples may be used for all monitoring unless otherwise stated. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval may be waived by the permittee where the preceding measurable storm event did not result in a measurable discharge from the facility. The 72-hour requirement may also be waived by the permittee where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample must be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the discharger must submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. A minimum of one grab is required. Where the discharge to be sampled contains both storm water and non-storm water, the facility shall sample the storm water component of the discharge at a point upstream of the location where the non-storm water mixes with the storm water, if practicable.

6. Representative Discharge

Today's MSGP retains the same provision as the 1995 MSGP regarding substantially identical outfalls which allows a facility to reduce its overall monitoring burden. This representative discharge provision provides facilities with multiple storm water outfalls, a means for reducing the number of outfalls that must be sampled and analyzed. This may result in a substantial reduction of the resources required for a facility to comply with analytical monitoring requirements. When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may test the effluent of one such outfall and report that the quantitative data also apply to the substantially identical outfalls provided that the permittee includes in the SWPPP a description of the location of the outfalls and detailed explanation why the outfalls are expected to discharge substantially identical effluent. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (*e.g.*, low (under 40 percent), medium (40 to 65 percent) or high (above 65 percent)) shall be provided in the plan. Facilities that select and sample a representative discharge are prohibited from changing the selected discharge in future monitoring periods unless the selected discharge ceases to be representative or is eliminated. Permittees do not need EPA approval to claim discharges are representative, provided they have documented their rationale within the SWPPP. However, the Director may determine the discharges are not representative and require sampling of all non-identical outfalls.

The representative discharge provision in the permit is available to almost all facilities subject to the analytical monitoring requirements (not including compliance monitoring for effluent guideline limit compliance purposes) and to facilities subject to visual examination requirements.

The representative discharge provisions described above are consistent with Section 5.2 of NPDES Storm Water Sampling Guidance Document (EPA 833–B–92–001, July 1992).

7. Sampling Waiver

Today's final MSGP retains the same provisions for sampling waivers (as discussed below) which are found in the 1995 MSGP:

a. Adverse Weather Conditions. Today's final MSGP allows for temporary waivers from sampling based on adverse climatic conditions. This temporary sampling waiver is only intended to apply to insurmountable weather conditions such as drought or dangerous conditions such as lightning, flash flooding, or hurricanes. These events tend to be isolated incidents and should not be used as an excuse for not conducting sampling under more favorable conditions associated with other storm events. The sampling waiver is not intended to apply to difficult logistical conditions, such as remote facilities with few employees or discharge locations which are difficult to access. When a discharger is unable to collect samples within a specified sampling period due to adverse climatic conditions, the discharger shall collect a substitute sample from a separate qualifying event in the next sampling period as well as a sample for the routine monitoring required in that period. Both samples should be analyzed separately and the results of that analysis submitted to EPA. Permittees are not required to obtain advance approval for sampling waivers.

b. *Unstaffed and Inactive Sites—Chemical Sampling Waiver.* Today's final MSGP allows for a waiver from sampling for facilities that are both inactive and unstaffed. This waiver is only intended to apply to these facilities where lack of personnel and locational impediments hinder the ability to conduct sampling (i.e., the ability to meet the time and representative rainfall sampling specifications). This waiver is not intended to apply to remote facilities that are active and staffed, or to facilities with just difficult logistical conditions. When a discharger is unable to collect samples as specified in this permit, the discharger shall certify to the Director in the DMR that the facility is unstaffed and inactive and the ability to conduct samples within the specifications is not possible. Permittees are not required to obtain advance approval for this waiver.

c. *Unstaffed and Inactive Sites—Visual Monitoring Waiver.* Today's final MSGP allows for a waiver from sampling for facilities that are both inactive and unstaffed. This waiver is only intended to apply to these facilities where lack of personnel and locational impediments hinder the ability to conduct visual examinations (i.e., the ability to meet the time and representative rainfall sampling specifications). This monitoring waiver is not intended to apply to remote facilities that are active and staffed, or to facilities with just difficult logistical conditions. When a discharger is unable to perform visual examinations as specified in this permit, the discharger shall maintain on site with the pollution prevention plan a certification stating that the facility is unstaffed and inactive and the ability to perform visual examinations within the specifications is not possible. Permittees are not required to obtain advance approval for visual examination waivers.

8. Quarterly Visual Examination of Storm Water Quality

Today's final MSGP retains the requirements of the 1995 MSGP for quarterly visual examinations of storm water discharges which EPA continues to believe provide a useful and inexpensive means for permittees to evaluate the effectiveness of their SWPPPs (with immediate feedback) and make any necessary modifications to address the results of the visual examinations. All sectors of today's final MSGP are required to conduct these examinations. In the 1995 MSGP all sectors except Sector S (which covers air transportation) were required to conduct the examinations.

Basically, the MSGP requires that grab samples of storm water discharges be taken and examined visually for the presence of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen or other obvious indicators of storm water pollution. The grab samples must be taken within the first 30 minutes after storm water discharges begin, or as soon as practicable, but not longer than 1 hour after discharges begin. The sampling must be conducted quarterly during the following time periods: January–March, April–June, July–September and October–December of each year. The reports summarizing these quarterly visual storm water examinations must be maintained on-site with the SWPPP.

The examination of the sample must be made in well lit areas. The visual examination is not required if there is insufficient rainfall or snow-melt to run off or if hazardous conditions prevent sampling. Whenever practicable the same individual should carry out the collection and examination of discharges throughout the life of the permit to ensure the greatest degree of consistency possible in recording observations.

When conducting a storm water visual examination, the pollution prevention team, or team member, should attempt to relate the results of the examination to potential sources of storm water contamination on the site. For example, if the visual examination reveals an oil sheen, the facility personnel (preferably members of the pollution prevention team) should conduct an inspection of the area of the site draining to the examined discharge to look for obvious sources of spilled oil, leaks, etc. If a source can be located, then this information allows the facility operator to immediately conduct a clean-up of the pollutant source, and/or to design a change to the SWPPP to eliminate or minimize the contaminant source from occurring in the future.

Other examples include: if the visual examination results in an observation of floating solids, the personnel should carefully examine the solids to see if they are raw materials, waste materials or other known products stored or used at the site. If an unusual color or odor is sensed, the personnel should attempt to compare the color or odor to the colors or odors of known chemicals and other materials used at the facility. If the examination reveals a large amount of settled solids, the personnel may check for unpaved, unstabilized areas or areas of erosion. If the examination results in a cloudy sample that is very slow to settle out, the personnel should evaluate the site draining to the discharge point for fine particulate material, such as dust, ash, or other pulverized, ground, or powdered chemicals.

To be most effective, the personnel conducting the visual examination should be fully knowledgeable about the SWPPP, the sources of contaminants on the site, the industrial activities conducted exposed to storm water and the day to day operations that may cause unexpected pollutant releases.

If the visual examination results in a clean and clear sample of the storm water discharge, this may indicate that no pollutants are present. This would be an indication of a high quality result. However, the visual examination will not provide information about dissolved contamination. If the facility is in a sector or subsector required to conduct analytical (chemical) monitoring, the results of the chemical monitoring, if conducted on the same sample, would help to identify the presence of any dissolved pollutants and the ultimate effectiveness of the Storm Water Pollution Prevention Plan. If the facility is not required to conduct analytical monitoring, it may do so if it chooses to confirm the cleanliness of the sample.

While conducting the visual examinations, personnel should constantly be attempting to relate any contamination that is observed in the samples to the sources of pollutants on site. When contamination is observed, the personnel should be evaluating whether or not additional BMPs should be implemented in the SWPPP to address the observed contaminant and, if BMPs have already been implemented, evaluating whether or not these are working correctly or need maintenance. Permittees may also conduct more frequent visual examinations than the minimum quarterly requirement, if they so choose. By doing so, they may improve their ability to ascertain the effectiveness of their plan. Using this guidance, and employing a strong knowledge of the facility operations, EPA believes that permittees should be able to maximize the effectiveness of their storm water pollution prevention efforts through conducting visual examinations which give direct, frequent feedback to the facility operator or pollution prevention team on the quality of the storm water discharge.

EPA believes that this quick and simple assessment will help the permittee to determine the effectiveness of his/her plan on a regular basis at very little cost. Although the visual examination cannot assess the chemical properties of the storm water discharged from the site, the examination will provide meaningful results upon which the facility may act quickly. EPA recommends that the visual examination be conducted at different times than the chemical monitoring, but is not requiring this. In addition, more frequent visual examinations can be conducted if the permittee so chooses. In this way, better assessments of the effectiveness of the Storm Water Pollution Prevention Plan can be achieved. The frequency of this visual examination will also allow for timely adjustments to be made to the plan. If BMPs are performing ineffectively, corrective action must be implemented. A set of tracking or followup procedures must be used to ensure that appropriate actions are taken in response to the examinations. The visual examination is intended to be performed by members of the pollution prevention team. This hands-on examination will enhance the staff's understanding of the site's storm water problems and the effects of the management practices that are included in the plan.

F. Regional Offices

1. Notice of Intent Address

Notices of Intent to be authorized to discharge under the MSGP should be sent to: Storm Water Notice of Intent (4203), USEPA, 401 M Street, SW., Washington, DC 20460.

2. EPA Regional Office Addresses and Contacts

For further information, please call the appropriate EPA Regional storm water contacts listed below:

- ME, MA, NH, Indian country in CT, MA, ME, RI, and Federal Facilities in VT

EPA Region 1, Office of Ecosystem Protection, JFK Federal Building (CMU), Boston, MA 02203, Contact: Thelma Murphy (617) 918–1615.

- PR

U.S. EPA, Region 2, Caribbean Environmental Protection Division, Centro Europa Building, 1492 Ponce de Leon Avenue, Suite 417, San Juan, Puerto Rico 00907–4127, Contact: Sergio Bosques (787) 729–6951.

- DC and Federal Facilities in DE

EPA Region 3, Water Protection Division, (3WP13), Storm Water Staff, 841 Chestnut Building, Philadelphia, PA 19107, Contact: Cheryl Atkinson (215) 814–3392.

- Indian country in FL

EPA Region 4, Water Management Division, Surface Water Permits Section (SWPFB), 61 Forsyth Street, SW, Atlanta, GA 30303–3104, Contact: Floyd Wellborn (404) 562–9296.

• NM; Indian country in LA, OK, TX and NM (Except Navajo and Ute Mountain Reservation Lands); oil and gas exploration and production related industries, and pipeline operations in OK (which under State law are regulated by the Oklahoma Corporation Commission and not the Oklahoma Department of Environmental Quality); and oil and gas sites in TX.

EPA Region 6, NPDES Permits Section (6WQ-PP), 1445 Ross Avenue, Dallas, TX 75202–2733, Contact: Brent Larsen (214) 665–7523.

• Federal facilities in the State of Colorado; Indian country in CO, ND, SD, WY and UT (except Goshute and Navajo Reservation lands); Ute Mountain Reservation lands in CO and NM ; and Pine Ridge Reservation lands in SD and NE.

EPA Region 8, Ecosystems Pr.otection Program (8EPR–EP), 999 18th Street, Suite 300, Denver, CO 80202–2466 Contact: Vern Berry (303) 312–6234.

• AZ, American Samoa, Commonwealth of Northern Mariana Islands, Johnston Atoll, Guam, Midway Island and Wake Island; all Indian country in AZ, CA, and NV; those portions of the Duck Valley, Fort McDermitt and Goshute Reservations that are outside NV; those portions of the Navajo Reservation that are outside AZ.

EPA Region 9, Water Management Division, (WTR–5), Storm Water Staff, 75 Hawthorne Street, San Francisco, CA 94105, Contact: Eugene Bromley (415) 744–1906.

• ID; Indian country in AK, ID (except the Duck Valley Reservation), OR (except the Fort McDermitt Reservation), and WA; and Federal facilities in WA

EPA Region 10, Office of Water (OW–130), Storm Water Staff, 1200 Sixth Avenue, Seattle, WA 98101, Contact: Misha Vakoc (206) 553–6650 (toll-free in Region 10 states: 800–424–4372, extension 6650).

VII. Cost Estimates for Common Permit Requirements

Cost estimates for the MSGP were included with the final fact sheet accompanying the issuance of the MSGP on September 29, 1995 and are not being repeated here. However, additional costs for facilities seeking coverage under the reissued MSGP should be minor since the new MSGP includes few changes from the 1995 MSGP.

VIII. Special Requirements for Discharges Associated With Specific Industrial Activities

Section VIII of the fact sheet accompanying the 1995 MSGP included a detailed description of the industrial sectors covered by the permit, sources of pollutants from the different types of industries, available industry-specific BMPs, and a description of the industrial-specific permit requirements. As noted previously, EPA is not repeating all this information due to its considerable length. Table 1 in Section IV of this fact sheet listed the industrial sectors and subsectors covered by today's final MSGP. For today's MSGP, EPA reviewed the various sectors and subsectors to determine whether additional BMP opportunities have been identified subsequent to the issuance of the 1995 MSGP which would be appropriate to include in the reissued MSGP.

To update the various sectors and subsectors, EPA reviewed a variety of sources of information. As noted in Section VI.C of this fact sheet, pollution prevention is the cornerstone of the NPDES storm water permit program and, as such, EPA focused on new pollution prevention opportunities in updating the sectors. EPA has several ongoing programs directed toward identifying additional pollution prevention opportunities for different industrial sectors. One example is the ''sector notebooks'' which EPA's Office of Compliance has published covering 28 different industries, including many of those covered by the MSGP. EPA's Design for the Environment Program and Common Sense Initiative are additional examples. States, municipalities, industry trade associations and individual companies have also been active in recent years in trying to identify additional pollution prevention opportunities for different types of industries.

In reviewing the new information, however, EPA has identified only a few sectors where there appear to be additional storm water BMPs which would be appropriate for the reissued MSGP. For many industries, while considerable work has been conducted to reduce the environmental effects of these industries, little of the work has focused specifically on storm water. Rather, the efforts have focused more in areas such as manufacturing process changes to reduce hazardous waste generation or to reduce pollutant discharges in process wastewater. Where additional storm water BMPs have been identified and incorporated into the reissued MSGP, these new requirements are discussed below by sector. In some sectors, additional language clarifying the permit requirements has been added and these changes are also discussed below.

A. Sectors C—Chemical and Allied Products Facilities

Industry-specific requirements for the manufacture of fertilizer from leather scraps (SIC 2873) was moved from Sector Z (Leather Tanning and Finishing) to Sector C. This change places the requirements for SIC 2873 in the same sector as other manufacturers of fertilizers.

B. Sector G—Metal Mining (Ore Dressing and Mining)

To clarify the applicability of the MSGP regarding construction activity at metal mining sites and to make metal mining requirements consistent with mineral mining provisions (Sector J), Sector G has been modified to indicate that earth-disturbing activities occurring in the ''exploration and construction phase'' of a mining operation must be covered under EPA's Construction General Permit (63 FR 7858, February 17, 1998) if the area disturbed is one acre or more. All mining exploration/construction operations of less than one acre must be covered under the MSGP–2000.

Today's MSGP also incorporates the MSGP modifications of August 7, 1998 (63 FR 42534) regarding storm water discharges from waste rock and overburden piles. On October 10, 1995, the National Mining Association challenged the interpretation set forth in Table G–4 of the 1995 MSGP that runoff from waste rock and overburden piles would categorically be considered mine drainage subject to effluent limitations guidelines (ELGs) at 40 CFR Part 440. The litigation was settled on August 7, 1998 with a revised interpretation by EPA of the applicability of the ELGs which is incorporated into today's MSGP. Under the revised interpretation, runoff from waste rock and overburden piles is not subject to ELGs unless it naturally drains (or is intentionally diverted) to a point source and combines with ''mine drainage'' that is otherwise subject to the ELGs.

The August 7, 1998 modification of the MSGP provided permit coverage for storm water discharges from waste rock and overburden piles which are not subject to ELGs. However, due to concerns regarding potential pollutants in the discharges, additional monitoring requirements were included in the permit to determine the pollutant concentrations in the discharges. These monitoring requirements are also included in today's MSGP. The monitoring results which have been submitted to EPA pursuant to these requirements were also considered in determining the monitoring requirements for today's permit for this sector.

Concerns were expressed by some commenters over the use of the term ''Numeric limitation'' in the headings in the tables in Sector G in the proposed MSGP. However, since there are no actual numeric limitations in the tables, EPA believes this concern is not justified and the final MSGP has not been modified in response to these comments. In response to other comments, the revised Table G–4 from the August 7, 1998 MSGP modification has been added to the permit in Part 6.G.

In response to comments received on the proposed MSGP, the language in Part 6.G.1.6.6 of the final MSGP was modified to indicate that a permittee may test ''or evaluate'' mining-related discharges for non-storm water discharges to make today's MSGP consistent with the 1995 MSGP.

Also in response to comments, the permit language in the final MSGP which defines the reclamation phase was modified to reflect post-mining land uses other than ''pre-mining state'' which had been in the proposed MSGP. In addition, the final MSGP has been clarified to indicate that sampling waivers in Part 5.3.1 of the MSGP do apply to Sector G.

C. Sector I—Oil and Gas Extraction and Refining

In response to a comment, the title for Sector I was changed to include ''Refining'' to clarify that runoff from refineries (except runoff subject to effluent limitations guidelines) is eligible for coverage under today's MSGP.

D. Sector J—Mineral Mining and Processing

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector J to determine whether these provisions need to be updated for the reissued MSGP. To clarify the applicability of the MSGP regarding construction activity at mineral mining sites and to make mineral mining requirements consistent with metal mining provisions (Sector G), Sector J has been modified to indicate that earth-disturbing activities occurring in the ''exploration and construction phase'' of a mining operation must be covered under EPA's Construction General Permit (63 FR 7858, February 17, 1998) if the area disturbed is one acre or more. All mining exploration/construction operations of less than one acre must be covered under the MSGP–2000.

E. Sector K—Hazardous Waste Treatment, Storage or Disposal Facilities

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector K to determine whether these provisions need to be updated for the reissued MSGP. On January 19, 2000 (65 FR 3008), EPA promulgated final effluent limitations guidelines (ELGs) for ''contaminated storm water discharges'' from new and existing hazardous landfill facilities regulated under RCRA Subtitle C at 40 CFR Parts 264 (Subpart N) and 265 (Subpart N), except for the following ''captive'' landfills:

(a) Landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill;

(b) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes provided the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;

(c) Landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR Part 437 so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or

(d) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.

For Sector K of the new MSGP, EPA has included the new ELGs (40 CFR Part 445 Subpart A) for hazardous landfill facilities.

The term ''contaminated storm water'' is defined in the ELGs as ''storm water which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater.'' [40 CFR 445.2]. Contaminated storm water may originate from areas at a landfill including (but not limited to): ''the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.'' [40 CFR 445.2].

The term ''non-contaminated storm water'' is defined in the ELGs as ''storm water which does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater.'' [40 CFR 445.2]. Non-contaminated storm water includes storm water which ''flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.'' [40 CFR 445.2].

The term ''landfill wastewater'' is defined in the ELGs as ''all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated storm water, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.''

The 1995 MSGP authorized discharges of storm water associated with industrial activity which includes contaminated storm water discharges (as defined above) as well as other non-contaminated storm water discharges (also defined above). Today's final MSGP continues to authorize storm water associated with industrial activity; however, for contaminated storm water discharges as defined above, the reissued MSGP requires compliance with the promulgated ELGs for such discharges (with monitoring once/year during each year of the term of the final MSGP). The ELGs for the new and existing hazardous landfills are found in Table K–1 below:

TABLE K–1—EFFLUENT LIMITATIONS GUIDELINES FOR CONTAMINATED STORM WATER DISCHARGES (MG/L)

Pollutant	Maximum for 1 day	Monthly average maximum
BOD5	220	56

TABLE K–1—EFFLUENT LIMITATIONS GUIDELINES FOR CONTAMINATED STORM WATER DISCHARGES (MG/L)—Continued

Pollutant	Maximum for 1 day	Monthly average maximum
TSS	88	27
Ammonia	10	4.9
Alpha Terpineol	0.042	0.019
Aniline	0.024	0.015
Benzoic Acid	0.119	0.073
Naphthalene	0.059	0.022
p-Cresol	0.024	0.015
Phenol	0.048	0.029
Pyridine	0.072	0.025
Arsenic (Total)	1.1	0.54
Chromium (Total)	1.1	0.46
Zinc (Total)	0.535	0.296
pH	Within the range of 6–9 pH units.	

Today's final MSGP (like the 1995 MSGP) does not authorize non-storm water discharges such as leachate and vehicle and equipment washwater. These and other landfill-generated wastewaters are subject to the ELGs. Today's final MSGP does, however, continue to authorize certain minor non-storm water discharges (listed in Part 1.2.2.2) which are very similar to the 1995 MSGP.

F. Sector L—Landfills, Land Application Sites and Open Dumps

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector L to determine whether these provisions need to be updated for the reissued MSGP. The SWPPP requirements of the 1995 MSGP already include several special BMPs for this industry in addition to the MSGP's basic BMP requirements.

On January 19, 2000 (65 FR 3008), EPA promulgated final effluent limitations guidelines (ELGs) for ''contaminated storm water discharges'' from new and existing non-hazardous landfill facilities regulated under RCRA Subtitle D (40 CFR Part 445 Subpart B). For Sector L of today's MSGP, EPA has included the ELGs as they apply to facilities covered by this sector. For Sector L facilities, the ELGs apply to:

Municipal solid waste landfills regulated under RCRA Subtitle D at 40 CFR Part 258 and those landfills which are subject to the provisions of 40 CFR Part 257, except for any of the following ''captive'' landfills:

(a) Landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill;

(b) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes provided the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;

(c) Landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR Part 437 so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or

(d) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.

EPA has not modified Sector L for the discharges which are not subject to the ELGs. In addition, EPA would like to call attention to a new EPA publication entitled ''Guide for Industrial Waste Management'' (EPA 530–R–99–001, June, 1999) which provides a useful information resource for permittees in complying with the MSGP, and in minimizing the impact of landfills to the environment overall.

The term ''contaminated storm water'' is defined in the ELGs as ''storm water which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater.'' [40 CFR 445.2]. Contaminated storm water may originate from areas at a landfill including (but not limited to): ''the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.'' [40 CFR 445.2].

The term ''non-contaminated storm water'' is defined in the ELGs as ''storm water which does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater.'' [40 CFR 445.2]. Non-contaminated storm water includes storm water which ''flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.'' [40 CFR 445.2].

The term ''landfill wastewater'' is defined in the ELGs as ''all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated storm water, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.'' [40 CFR 445.2].

The 1995 MSGP authorized discharges of storm water associated with industrial activity from landfills including contaminated storm water discharges as defined in the ELGs as well as non-contaminated storm water. Today's final MSGP continues to authorize storm water associated with industrial activity; however, for contaminated storm water discharges as defined above, today's MSGP requires compliance with the promulgated ELGs for such discharges (with monitoring once/year during each year of the term of the final MSGP). The ELGs are found in Table L–1 below:

TABLE L–1—EFFLUENT LIMITATIONS GUIDELINES FOR CONTAMINATED STORM WATER DISCHARGES (MG/L)

Pollutant	Maximum for 1 Day	Monthly average maximum
BOD5	140	37
TSS	88	27
Ammonia	10	4.9
Alpha Terpineol	0.033	0.016
Benzoic Acid	0.12	0.071
p-Cresol	0.025	0.014
Phenol	0.026	0.015
Zinc (Total)	0.20	0.11
pH	within the range of 6–9 pH units.	

Today's final MSGP (like the 1995 MSGP) does not authorize non-storm water discharges such as leachate and vehicle and equipment washwater. These and other landfill-generated wastewaters are subject to the ELGs. Today's MSGP does, however, continue to authorize the same minor non-storm water discharges (listed in Part 1.2.2.2) as the 1995 MSGP.

G. Sector S—Air Transportation Facilities

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector S to determine whether these provisions need to be updated for the reissued MSGP. The SWPPP requirements of the 1995 MSGP included several special BMP requirements for airports in addition to the MSGP's basic BMP requirements. Additional technologies have been developed since the original MSGP issuance for deicing operations which have been included in today's MSGP. A lengthy (but not comprehensive) list of new deicing chemical and BMP options is provided in Parts 6.S.5.3.6.2 and 6.S.5.3.7. More information on these options is found in the EPA publication ''Preliminary Data Summary, Airport Deicing Operations'' *(http://www.epa.gov/ost/guide/airport/index.html).*

The MSGP–2000 has been clarified such that compliance evaluations (Part 6.S.5.5) shall be conducted during a period when deicing activities are likely to occur (vs. a month when deicing activities would be atypical or during an extended heat wave), not necessarily during an actual storm or when intense deicing activities are occurring. This requirement is not seen as onerous, as EPA believes that most weather conditions can be reasonably anticipated and the evaluation can be planned for.

In addition, EPA has revised Part 6.S.5.4 to reflect that monthly inspections of deicing areas during the deicing season (e.g., October through April) are now allowed at airports with highly effective, rigorously implemented SWPPPs. This requirement is a reduction from the previous MSGP's weekly requirement. However, if unusually large amounts of deicing fluids are being applied, spilled or discharged, weekly inspections should be conducted and the Director may specifically require such weekly inspections. In addition, personnel who participate in deicing activities or work in these areas should, as the need arises, inform the monthly inspectors of any conditions or incidents constituting an environmental threat, especially those needing immediate attention.

H. Sector T—Treatment Works

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector T to determine whether these provisions need to be updated for the reissued MSGP. The SWPPP requirements of the 1995 MSGP already include a few special BMP requirements for this industry in addition to the MSGP's basic BMP requirements. In reviewing the information which EPA has available on this industry, EPA has identified several additional areas at treatment works facilities which we believe should be considered more closely for potential storm water controls. As a result, EPA has included additional or modified permit requirements which we believe are appropriate to include in Sector T.

Today's MSGP requires that operators of Sector T treatment works include the following additional areas or activities, where they are exposed to precipitation, in their SWPPP site map, summary of potential pollutant sources, and inspections: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving stations. An additional BMP that permittees must consider is routing storm water into the treatment works, or covering exposed materials from these additional areas or activities.

I. Sector Y—Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries

EPA has re-evaluated the provisions of the 1995 MSGP for industrial facilities in Sector Y. The 1995 MSGP included several special BMP requirements for rubber manufacturers to control zinc in storm water discharges. However, no special BMPs beyond the MSGP's basic SWPPP requirements were included in the 1995 MSGP for manufacturers of miscellaneous plastic products or miscellaneous manufacturing industries.

EPA has several ongoing programs directed toward identifying additional pollution prevention opportunities for different industrial sectors. For example, EPA's Office of Compliance has published ''sector notebooks'' for a number of industries, including the rubber and miscellaneous plastics industry (EPA 310-R–95–016). The sector notebooks are intended to facilitate a multi-media analysis of environmental issues associated with different industries and include a review of pollution prevention opportunities for the industries. As discussed below, EPA's sector notebook for the rubber and plastic products industry identifies a number of additional BMPs (beyond those in the 1995 MSGP) which could further reduce pollutants in storm water discharges from these facilities, and which have been included in the reissued MSGP.

1. Rubber Manufacturing Facilities

Today's MSGP requires that rubber manufacturing facility permittees consider the following additional BMPs (which were selected from those in the sector notebook) for the rubber product compounding and mixing area:

(1) consider the use of chemicals which are purchased in pre-weighed, sealed polyethylene bags. The sector notebook points out that some facilities place such bags directly into the banbury mixer, thereby eliminating a formerly dusty operation which could result in pollutants in storm water discharges.

(2) consider the use of containers which can be sealed for materials which are in use; also consider ensuring an airspace between the container and the cover to minimize ''puffing'' losses when the container is opened.

(3) consider the use of automatic dispensing and weighing equipment. The sector notebook observes that such equipment minimizes the chances for chemical losses due to spills.

2. Plastic Products Manufacturing Facilities

For plastic products manufacturing facilities, today's final MSGP requires that permittees consider and include (as appropriate) specific measures in the SWPPP to minimize loss of plastic resin pellets to the environment. These measures include (at a minimum) spill minimization, prompt and thorough cleanup of spills, employee education, thorough sweeping, pellet capture and disposal precautions. Additional specific guidance on minimizing loss can be found in the EPA publication entitled ''Plastic Pellets in the Aquatic Environment: Sources and Recommendations'' (EPA 842–B–92–010, December, 1992) and at the website of the Society of the Plastics Industry (www.socplas.org).

3. Industry-Sponsored Efforts

Both the rubber manufacturing and plastic products industries are also active in sponsoring studies designed to reduce the environmental impacts associated with the production, use and ultimate disposal of their products. However, in reviewing recent work in this regard, EPA has not identified any additional BMPs for storm water discharges which would be appropriate for the reissued MSGP. Therefore, only the additional BMPs noted above are included in the reissued MSGP for these industries.

IX. Summary of Responses to Comments on the Proposed MSGP

EPA received comments from 45 individuals in response to the proposed permit. A summary of the Agency's responses to those comments appears below. Responses to each comment is available from the Water Docket, whose address and hours of operation are listed in the introduction to this notice.

Section 1.2 Eligibility

Comment a: One commenter requested clarification on the responsibilities military bases, which resemble small municipalities, have with regard to non-industrial areas of the base. The commenter expressed concern that examples of co-located industrial activities in Section VI.B.3 of the fact sheet and Part 1.2.1.1 of the proposed permit could be interpreted to require coverage for all vehicle maintenance activities at a base, even those unrelated to an industrial activity. The commenter further noted that bases in urbanized areas would require base-wide storm water management programs anyway as Small Municipal Separate Storm Sewer Systems under Phase II of the Storm Water Program.

Response a: EPA agrees that municipalities and military or other governmental installations are only responsible for obtaining permits for storm water associated with industrial activity for those portions of their municipality or installations where they have a storm water discharge that is covered under the definition of ''storm water associated with industrial activity.'' Under this interpretation, even though a military base may choose to submit a single NOI for all industrial activities on the base, the SWPPP would only need to identify facilities/areas associated or not associated with industrial activities and that have a SWPPP covering the industrial activity areas. The SWPPP required under the MSGP would not need to address storm water controls for the non-industrial areas of the base. A note has been added to Part 4.1 (Storm Water Pollution Prevention Plans) of the permit to clarify the scope of the SWPPP.

Comment b: The proposed limitations on transfer of storm water discharges from a previous permit to the MSGP could result in undue restrictions. The commenter felt that there could be reasons, e.g., for consistent management of storm water across a site, etc. that either the permittee or the permitting authority would want to address all storm water at a facility under a general permit.

Response b: EPA has reconsidered the Part 1.2.3.3.2 restrictions and Part 1.2.3.3.2.1 of the proposed permit has been eliminated. Part 1.2.3.3.2.1 would only have allowed permittees to seek MSGP coverage for storm water discharges previously covered by another permit if that previous permit contained only storm water and eligible non-storm water (i.e., an individual permit for wastewater, etc. would no longer be required if coverage under the MSGP was allowed). EPA's review did identify some unintended consequences and unresolved issues that could result from this restriction.

A facility (including new facilities) that never had storm water discharges covered by an individual permit, or which was located where access to a municipal wastewater treatment plant for wastewater discharges was available, would have an opportunity for burden reduction that would not be available to a facility with even cleaner storm water that happened to have storm water discharges covered in a previous permit and could not eliminate their wastewater discharges. There could be cases were a smaller and ''cleaner'' facility would not be able to take advantage of the savings (e.g., individual permit application sampling is not required) the MSGP offered their competitors simply because they had a minor wastewater discharge that could not be eliminated.

While the main purpose of the proposed Part 1.2.3.3.2.1 restriction was to discourage dual permits at a facility, there are already many facilities that have permit coverage split between an individual permit and the MSGP and dual permit coverage would still be available in many cases anyway. Currently, some of these ''dual permit'' facilities have only wastewater under an individual permit and all their storm water discharges under the MSGP, while at others, the individual wastewater permit includes some of the storm water discharges, with the remaining storm water discharges covered by the MSGP. This ability to have split coverage in at least some situations is necessary to address situations where at least interim coverage under a general permit for a new storm water discharge is necessary or desirable from either the permittee's or the permitting authority's standpoint.

EPA has determined that the proposed restrictions in Part 1.2.3.3.2 relating to discharges for which a water quality-based limit had been developed and discharges at a facility for which a permit had been (or was in the process of being) either denied or revoked by the permitting authority were necessary to address the anti-backsliding requirements of the Clean Water Act or to ensure that discharges from a facility requiring the additional scrutiny of an individual permit application were not inadvertently allowed under the general permit. In any event, only those storm water discharges under the previous permit that met all other eligibility conditions of the MSGP could even be considered for transfer.

EPA periodically promulgates new effluent limitation guidelines, some of which, such as the those for landfills published February 2, 2000, contain storm water effluent limitation guidelines. Under Part 1.2.2.1.3 of the MSGP, a storm water discharge subject to a promulgated effluent limitation guideline is only eligible for coverage if that guideline is listed in Table 1–2. A new guideline promulgated during the term of the permit would thus alter the eligibility for the permit not only for new dischargers, but also for discharges already covered by the permit. In order to avoid the situation where a discharge would suddenly become ineligible upon promulgation of a new guideline, Part 1.2.2.1.3 has been modified to allow interim coverage under the permit where a storm water effluent guideline has been promulgated after the effective date of the permit, but the permit has not yet been modified to include the new guideline. This will allow continued coverage until the new storm water guideline could be added to the permit. Where the new guideline includes new source performance standards, ''new sources'' would need to comply with Part 1.2.4 prior to seeking permit coverage.

Section 1.4 Terminating Coverage

Comment: (Comment also addresses Section 11.1 Transfer of Permit Coverage) Several commenters viewed the submittal of an NOT by the old operator and the submittal of an NOI by the new operator in order to transfer permit coverage after a change in ownership as a new and overly burdensome requirement (Parts 1.4 and 11.1). An alternative suggested was a simple notice to the permit file of the ownership change.

Response: EPA has determined that the most effective method for accommodating and tracking a change in the owner/operator at a facility covered by the general permit is to have the old operator submit a Notice of Termination certifying that they are no longer the operator of the facility, and for the new operator to submit a Notice of Intent certifying their desire and eligibility to be covered by the general permit. In fact, this is not a new requirement since the same process was required under the 1995 MSGP (see Part II.A.4 and Part XI.A at 60 FR 51113 and 51122, respectively). The only ''new'' aspect of the process is the 30 day timeframe for submittal of the NOT by the old operator and a clarification that simple name changes in a particular company (e.g., Jones Industrial Manufacturing, Co. changing to JIMCO) can be made with a simple update to the company's NOI and a NOT would not be required. Submittal of the NOT by the old operator documents that the old operator believes he no longer needs coverage under the MSGP for any storm water discharges. In addition, EPA is more able to maintain a cleaner database of facilities actually covered by the permit both currently and in the past. The NOI/NOT process for transfers under the general permit is thus essentially a streamlined parallel process to what would otherwise be required under 40 CFR 122.61.

The permit transfer procedures at 40 CFR 122.61 are designed to avoid the time delays and resource burdens associated with issuance of a new permit for a facility just because there is a new owner/operator. Under this process, transfer of the permit to the new owner/operator cannot be made without an actual permit modification (a lengthy process especially for general permits), unless the old operator submits a thirty day advance notice and a written agreement between the parties containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The nature of a general permit is such that there is no actual permit issued to any individual facility, but rather that multiple dischargers are in effect ''registering'' their intent to use the discharge authority offered by the general permit to anyone who is eligible. This ''registration'' is accomplished by an operator's submittal of the Notice of Intent to be covered by the general permit as little as two days before they need permit coverage. In fact, regulations at 40 CFR 122.28(b)(2) specifically require submittal of an NOI in order for an operator to be authorized under a general permit for discharges of storm water associated with industrial activity. EPA thus views the requirements for the new operator to file an NOI as little as two days prior to the transfer and for the old operator to file an NOT within thirty days after the transfer to be less burdensome than the thirty day advance notice and written agreements that would otherwise be required under the permit transfer requirements of 40 CFR 122.61.

Section 1.5 Conditional Exclusion for No Exposure

Comment: EPA should insert the No Exposure Certification form and guidance within the permit since many facility operators are unaware of its existence.

Response: EPA has generated a document, ''Guidance Manual for Conditional Exclusion from Storm Water Permitting Based on ''No Exposure'' of Industrial Activities to Storm Water,'' and a separate no exposure announcement to help operators understand and apply for the conditional permitting exclusion. The guidance is available in hard copy from EPA's Water Resource Center. In addition, EPA also sent a mass mailing alerting all EPA permittees as well as stakeholder groups to the MSGP–2000 and the no exposure exclusion. To provide the No Exposure Certification in as many possible places, EPA is publishing the form and instructions as an addendum to the MSGP–2000.

Section 2.1 Notice of Intent (NOI) Deadlines

Comment: Commenters requested an extension of the 90 day timeframe for submission of their NOI to 270 days. Commenters said they needed the additional time to complete their Storm Water Pollution Prevention Plan (SWPPP), application for an alternate permit, or their endangered species consultation or adverse impact investigation. A commenter also requested clarification of coverage during the 90 days between this publication and their submission of their NOI.

Response: The fact sheet clarifies that SWPPPs are to be prepared at the time the NOI is submitted. Since most permittees are already covered under the current MSGP and have a requirement to update their SWPPP as the need arises, there is no basis for an automatic extension to 270 days. However, facilities may seek an extension up to 270 days to develop their SWPPP, or to obtain an alternate permit, on a case-by-case basis. Similarly, facilities can request an extension up to 270 days if they need to conduct an endangered species consultation or adverse impact investigation. Permittees covered under the current MSGP will continue to be covered during the next 90 days as long as they meet the conditions set forth in the 1995 MSGP.

Section 2.2 Contents of Notice of Intent (NOI)

Comment a: Clarify how to complete the NOI form in situations where an MS4 has industrial activities and is conveying the pollutants to its own storm drainage system.

Response a: The intent of Section 2.2.2.5 was to identify the municipal separate storm sewer system under the assumption that it would be under different ownership. If there is not a separate owner, this requirement is unnecessary. This section has been revised to clarify ''the name of the municipal operator if the discharge is through a municipal separate storm sewer system under separate ownership.''

Comment b: A commenter questioned whether EPA was requiring or encouraging permittees to consult FWS and NMFS in making its endangered species finding.

Response b: The facility is responsible for obtaining the threatened or endangered species list to make sure that listed specie or critical habitat is not located in or around the vicinity of your facility. That list may be obtained by phoning or mailing the FWS or NMFS, visiting EPA's website, or by some other means. Thus, the permittee is not required to contact the two agencies if he can meet his obligation in another manner.

Comment c: Do not include latitude/longitude information on the NOI.

Response c: EPA requires all regulated facilities to submit latitude and longitude information. The information is critical in overseeing compliance with endangered species assessments and coordinating compliance assistance and enforcement activities across media programs.

Section 2.3 Use of NOI Form

Comment a: Do not add check boxes related to NHPA and ESA compliance.

Response a: EPA believes the additional information improves the Agency's ability to oversee implementation of the permit and compliance with ESA and NHPA requirements. Because the permittee is already responsible for conducting the analysis, there is minimal additional burden associated with indicating on the NOI form how the analysis was conducted. Therefore, EPA intends to retain this requirement. The NOI form requires review by the Office of Management and Budget. Until the new form is approved, permittees should use the current form. EPA's ability to issue today's permit is contingent upon its compliance with ESA and NHPA; thus, provisions related to those statutes is part and parcel of today's permitting action.

Comment b: Commenters supported EPA's proposal to allow facilities to submit NOIs, notices of termination, and discharge monitoring reports electronically. However, they cautioned that EPA continue to allow hard copy filing since not all permittees have internet access.

Response b: The final permit retains the requirement of paper filing for NOIs, NOTs, and DMRs. While EPA believes that electronic filing will be incorporated as an option in the future, it is currently not available.

Section 3.3 Compliance with Water Quality Standards

NPDES regulations at 40 CFR 122.44(d)(1)(i) require that the MSGP ensure compliance with State water quality standards for all discharges which ''will cause, have the reasonable potential to cause, or contribute'' to an exceedance of a State standard. With the wide variety of facilities to be permitted under the MSGP, EPA believes that reasonable potential to cause or contribute to exceedances of water quality standards is likely to exist at least for some facilities. Therefore the MSGP must include appropriate provisions to ensure compliance with State standards. For general permits, EPA's guidance document entitled ''General Permit Program Guidance'' (February, 1988) suggests an overall narrative statement requiring compliance with State standards to address the fact that the permit will cover a wide variety of facilities subject to different standards depending on their location. Part 3.3 of the proposed MSGP included a narrative statement in accordance with this guidance to ensure compliance with 40 CFR 122.44(d)(1)(i). Part 1.2.3.5 of the proposed MSGP also included an exclusion from permit coverage for facilities which EPA has determined may cause or contribute to violations of State standards. Commenters raised a number of concerns regarding the provisions of the proposed MSGP related to compliance with State standards. However, after review of the comments, EPA believes that the provisions of the proposed MSGP were appropriate and these provisions have been retained in the final MSGP. Following below are EPA responses to the specific issues raised by the commenters:

Lack of Coverage for Facilities With Reasonable Potential

Comment a: A commenter was puzzled by the exclusion from coverage in Part 1.2.3.5 of the proposed MSGP and requested additional explanation.

Response a: EPA believes that facilities which are shown to cause, or have the reasonable potential to cause or contribute to exceedances of State standards may be more appropriately permitted under individual permits or a separate general permit with alternate permit requirements designed to ensure compliance with State standards. This is the basis for the exclusion. Part 1.2.3.5 also provides, however, that MSGP coverage may be available if the control measures in the storm water pollution prevention plan (SWPPP) are sufficient to ensure compliance with State standards.

Comment b: Part 1.2.3.5 of the proposed MSGP could prove burdensome and could lead to permit backlogs depending on the extent of its use.

Response b: Given the large number of facilities covered by the MSGP, it is not practical for EPA to individually review the status of all facilities covered by the MSGP prior to submittal of the NOI. EPA has developed eligibility criteria for coverage under the MSGP–2000 which should, if applied appropriately by the facility operator, screen out facilities which have ''reasonable potential'' to exceed a state standard. In addition, where EPA determines there is a ''reasonable potential,'' the Director will require the facility to submit an individual permit or take other appropriate action.

Comment c: MSGP coverage should not be allowed until the absence of reasonable potential had been demonstrated by the discharger.

Response c: As noted above, EPA does not believe this is practical for all facilities given the large number of dischargers covered by the permit. Moreover, as discussed in EPA's ''Interim Permitting Policy for Water Quality-Based Effluent Limitations in Storm Water Permits'' (61 FR 43761, November 26, 1996), there will likely be circumstances where inadequate information is available to perform the reasonable potential analysis.

Are Discharges with Reasonable Potential a Permit Violation?

Comment d: Several commenters objected to Part 3.3 of the proposed MSGP which indicated that discharges which have occurred would be violations of the MSGP if they are later shown to have the reasonable potential to cause or contribute to exceedances of State standards.

Response d: EPA believes that such discharges are appropriately characterized by the MSGP as violations. The narrative statement in the MSGP requiring compliance with water quality standards in effect incorporates into the permit all numeric effluent limitations which are necessary to ensure compliance with State standards. When a discharge is shown to have reasonable potential, this implies that discharges are occurring which would exceed the permit limits needed to ensure compliance with State standards. Since the narrative statement incorporates all limits needed to ensure compliance with State standards, the discharges are appropriately characterized as violations of the permit.

Process for Terminating Coverage Under the MSGP

Comment e: Several commenters expressed concern regarding the process for terminating coverage under the MSGP and ensuring due process for dischargers to contest such actions by EPA.

Response e: EPA believes that the MSGP does ensure due process for dischargers. Part 9.12 of the MSGP provides that EPA may require an individual permit application from a discharger, or require the discharger to seek coverage under an alternate general permit. If an individual permit application were required, a draft permit would be prepared and a full opportunity would be provided to the discharger in accordance with 40 CFR Part 124 to comment on the draft permit and contest any final determination. Further, any alternate general permit would provide (in accordance with 40 CFR 122.28(b)(3)(iii)) that the discharger could seek coverage under an individual permit rather than the alternate general permit. Such a request would also be processed in accordance with the procedures at 40 CFR Part 124.

Comment f: A number of commenters also asked whether a notice of violation of Part 3.3 of the MSGP for violations of State water quality standards would be in writing.

Response f: Dischargers would be notified in writing by EPA of any violation of Part 3.3.

Permit as a Shield Concerns

Comment g: Section 402(k) of the Clean Water Act shields permittees from the requirements of Part 3.3 of the MSGP to comply with water quality standards.

Response g: EPA disagrees with the commenters on this matter. Section 402(k) provides that compliance with an NPDES permit is considered to be compliance, for purposes of section 309 and 505 enforcement, with sections 301, 302, 306, 307 and 403 of the Clean Water Act. However, the violations which are envisioned by Part 3.3 of the MSGP would be violations of an NPDES permit itself, *i.e.*, the water quality-based effluent limitations which are incorporated into the MSGP by virtue of the narrative statement. Section 402(k) does not provide a shield for such violations.

Concerns about Applying State Water Quality Standards to Storm Water

Comment h: Water quality standards cannot apply to storm water discharges since special wet weather standards have not been developed to address episodic events.

Response h: EPA disagrees that State water quality standards cannot apply in the absence of special wet weather standards. Section 402(p)(3)(A) of the Clean Water Act specifically requires that industrial storm water dischargers comply with State water quality standards. EPA has recognized, however, the difficulties in developing appropriate water quality-based effluent limitations for storm water discharges. In response to concerns such as those raised by the commenter, EPA has developed an ''Interim Permitting Policy for Water Quality-Based Effluent Limitations in Storm Water Permits' (61 FR 43761, November 26, 1996). Where numeric water quality-based effluent limitations are infeasible (due for example to inadequate information on which to base the limitations), best management practices (BMPs) such as those in the SWPPP would serve as the water quality-based effluent limitations.

Comment i: Clarify whether mixing zones would apply to the storm water discharges.

Response i: Mixing zones would apply to the extent that State water quality standards provide for their use.

Required Actions if Violations of Standards Occur

Comment j: A commenter was unclear concerning the modifications of the SWPPP that would be required by Part 3.3 of the MSGP if violations of State water quality standards occur.

Response j: The SWPPP must be modified to include additional BMPs to the extent necessary to prevent future violations.

Comment k: Clarify who would determine the additional control measures that would be required by Part 3.3 of the MSGP.

Response k: The discharger would at least initially be responsible for determining the additional control measures. However, Part 4.10 of the MSGP also provides that EPA may require modifications of the SWPPP if it proves to be inadequate.

Can a Reasonable Potential Analysis Occur at Any Time During the Permit Term?

Comment l: Part 3.3 of the MSGP should not require a reasonable potential analysis at any time during the term of the permit.

Response l: The information to support a reasonable potential determination would be based on additional information that becomes available concerning a particular discharge (from monitoring results, for example). As such, the permit appropriately provides that a reasonable potential analysis (possibly leading to an individual permit or separate general permit) may be required at such a time.

Comment m: Discharges of a pollutant which increase during the term of the permit should not be considered a permit violation.

Response m: EPA disagrees with the commenter on this issue. The narrative statement in Part 3.3 of the MSGP requires that dischargers comply with all State water quality standards throughout the term of the permit. Dischargers must ensure that, if there are increases in the discharges of a particular pollutant, the increases are not sufficient to cause or contribute to exceedances of water quality standards.

Questions Regarding the Benchmark Concentrations

Comment n: Part 3.3 of the proposed MSGP would undermine EPA's use of the benchmark values in the MSGP.

Response n: EPA disagrees with the commenters in this regard. The benchmark values are concentrations which are used to evaluate whether a generally effective SWPPP is being implemented. The SWPPP is required to ensure compliance with the technology-based discharge requirements of the Clean Water Act. Exceedance of a benchmark value is not a permit violation. However, if a permittee complies with the benchmarks, the permittee is eligible for the monitoring waiver in year 4 of the term of the permit and this provides an incentive to implement an effective SWPPP. Part 3.3 of the MSGP is required to ensure compliance with the water quality-based requirements of the Clean Water Act, which are in addition to the technology-based requirements. Part 3.3 of the MSGP does not undermine the benchmarks. Part 3.3 is simply a separate requirement of the Clean Water Act which must be included in the permit in addition to the technology-based requirements.

General Comment on Water Quality Standards Requirements

Comment o: One commenter lodged a general objection to Part 3.3 of the proposed MSGP, but did not elaborate on specific concerns.

Response o: As discussed above, EPA believes that Part 3.3 is appropriate and necessary to ensure compliance with State water quality standards. As such, Part 3.3 was retained in the final MSGP.

Section 4.1 Storm Water Pollution Prevention Plan (SWPPP) Requirements

Comment a: EPA should not measure progress solely on the number of BMPs applied.

Response a: As stated, EPA's intention in requiring the comprehensive site compliance evaluation is to determine the effectiveness of BMPs in use at the site, and to assess compliance with the terms and conditions of the permit. Additional new BMPs are not prescribed as part of this requirement; the options to include BMPs to replace those which are not working appropriately, or to augment existing BMPs to ensure better performance, rests solely with the facility operator, based on the findings of the compliance evaluation.

Comment b: Clarify the frequency of training required.

Response b: Some industrial sectors covered by this permit are required to provide training at least once per year. In other sectors, it is left to the discretion of the operator. EPA's fact sheet recommends that facilities conduct employee training annually at a minimum, and acknowledges that, for some facilities, a more frequent training schedule may be appropriate to ensure that personnel at all levels of responsibility are informed of the components and goals of the site's SWPPP.

Comment c: Clarify the term ''locally available.''

Response c: EPA intends the term ''locally available'' to mean a facility office which need not actually be located on-site, but co-located with other facility operations. It is not necessary for a permittee to maintain a local presence near an unstaffed site for the purposes of maintaining availability of the SWPPP.

Comment d: Fourteen days is an unrealistic timeframe for modifying a SWPPP in response to a discharge of a reportable quantity of oil.

Response d: EPA does not consider the requirement to revise the SWPPP within 14 days after a discharge of a reportable quantity of oil to be unrealistic. Changes to accommodate a description of the release, date and circumstances of the release, as well as a description of the actions taken to address the problem and any necessary changes to the BMPs to prevent future releases are inherently necessary to prevent water quality degradation.

Comment e: It is standard practice to keep a copy of their SWPPPs with their permit and, therefore, there is no objection to this requirement.

Response e: EPA acknowledges that many industrial facilities already keep a copy of the storm water permit with their SWPPP, and the Agency is formalizing that practice as a requirement of the permit for all facilities.

Section 4.2 Contents of Plan

Comment a: A commenter believed EPA was requiring velocity dissipation devices to minimize erosion due to flow velocity.

Response a: EPA's intention is to require facilities to evaluate the need for velocity dissipation devices where it is necessary to minimize erosion due to flow velocity. Facilities should use their best judgment when considering if velocity dissipation devices are needed. The language in the permit has been clarified.

Comment b: Specify a set of minimum management practices for coverage under the permit.

Response b: Due to the variety of industries covered by the Multi-Sector General Permit, there is no ''minimum'' list of best management practices that would suitably address the multiple situations found at different industrial sites. EPA considers it sufficient to outline minimum criteria that each facility operator must consider to minimize discharges from their property, and allow facility operators to identify and implement BMPs that are appropriate for their site.

Comment c: Do not require the SWPPP to identify oil spills or leaks below reportable quantities. Only those sites that have not been cleaned up to appropriate levels should be included in the site description and shown on the site map.

Comment d: EPA has not changed the basic intent of this permit requirement: a facility must keep a record of significant spills or leaks of both hazardous substances or oil and, for releases in excess of reportable quantities under 40 CFR Parts 117 or 302, revise its pollution prevention plan as necessary to prevent the reoccurrence of such releases. A spill or leak may not meet the threshold of a ''reportable quantity'' but may still be sufficiently significant to cause water quality impairment, and therefore should be acknowledged and mitigated by the permittee. EPA does not intend that ''reportable quantity'' defines the minimum amount of a substance which should be appropriately managed. In regards to including previous spill and/or leak areas in the site map and associated descriptions, the Agency views the inclusion of all areas where spills have occurred over the last three years from the date of NOI submittal as important information which may be useful in assessing future risks.

Comment d: The provision prohibiting discharge of ''solid materials'' is too broad and should be eliminated.

Response d: EPA intends the reference to ''solid materials, including floating debris'' and ''Off-site tracking of raw, final, or waste materials or sediment, and the generation of dust'' as having the generally accepted plain language meanings, and that facility operators should use their best professional judgment in applying this requirement to their discharge. The reference is not necessarily meant to apply in particular to suspended soil. EPA has purposefully allowed for reasonable flexibility in allowing each facility to determine whether ''solid materials,'' ''floating debris'' and/or ''dust'' are a component of their storm water discharge. The Agency acknowledges that many areas have state or local ordinances prohibiting the off-site tracking and generation of dust; therefore, this requirement does not pose a hardship on facility operators. While not prohibiting the discharge of waters containing soils, the permit still requires that discharges must comply with state/local water quality standards.

Comment e: The requirement for ''routine inspections'' and ''records of inspections'' are too broad.

Response e: EPA acknowledges that most industrial facilities conduct regular inspections of plant conditions. As discussed in Part 4.2.7.1.5 of the permit, facility operators must explicitly outline in the SWPPP the frequency of regular inspections at their facility which will incorporate inspections of industrial activities or materials that are exposed to storm water. Records of these specific storm water inspections, along with records of any followup actions taken as a result of these inspections, must be kept with the SWPPP. This facility-specific schedule of periodic inspections is what EPA is referring to as ''routine facility inspections.''

Comment f: An evaluation of groundwater impacts or concerns is beyond the scope of a stormwater pollution prevention plan.

Response f: In some cases, groundwater beneath a facility may be hydrologically connected to surface waters. EPA's intent for including an evaluation of impacts to groundwater when considering appropriate BMPs is to ensure that facility operators are fully cognizant of the hydrology of their area, and have evaluated any appropriate BMPs in the event that such a situation exists for their property. If there are no possible impacts to groundwater, this fact should be acknowledged in the SWPPP.

Section 4.4 Non-Storm Water Discharges

Comment a: Include swimming pool discharges as an allowable storm water discharge.

Response a: EPA does not include swimming pool discharge as an allowable non-storm water discharge in the Multi-Sector General Permit, as this is a general permit to cover storm water discharges from industrial activity. The Agency is unclear as to how many industrial facilities have swimming pools that would necessitate this specific exemption. The inclusion of nonchlorinated swimming pool discharges as an allowable non-storm water discharge will be better suited to the upcoming EPA Small Multiple Separate Storm Sewer General Permit, which will be available by December 2002.

Comment b: The permit should allow for case-by-case determinations for inclusion of de minimus non stormwater sources.

Response b: By its very nature, a general permit is meant to cover many similar discharges from a variety of similar sources. Case-by-case determinations for de minimus non-stormwater discharges would be extremely time-intensive, and it is not possible to provide for such individual determinations in the context of a general permit. Specific examples of de minimus discharges were not provided by the commenter; therefore, the Agency is not inclined to include such a provision at this time.

Comment c: Delete ''drinking fountain water:'' from Section 1.2.2.2.3 and cite only ''potable water including water line flushings.''

Response c: EPA agrees with the issues presented by the commenter, and that the term ''drinking fountain water,'' in itself, is imprecise. Both the draft MSGP fact sheet and permit specifically authorize potable water as an allowable non-storm water discharge. The ''drinking fountain water'' language has been deleted.

Section 4.7 Copy of Permit Requirements

Comment: Recommend electronic website access in lieu of paper copy of permit.

Response: The new requirement that a hard copy of the Multi-Sector General Permit be kept with a facility's Storm Water Pollution Prevention Plan is intended to ensure that the permit requirements are easily and readily available to all facility staff who are or may be responsible for implementing the provisions of the permit. Internet access may not be available to staff in all situations; therefore, for ease of reference, EPA is requiring that at least one copy of the permit be retained along with the SWPPP. The sections referring to EPA's acceptance of the electronic medium is contingent, in both cases cited by the commenter, upon the future viability of electronic submittal of NOIs and DMRs to the Agency.

Section 4.9 Timeline

Comment a: The fact sheet and permit need to provide consistent timeframes for SWPPP revisions.

Response a: The fact sheet and permit language were consistent on revising the SWPPP within 14 days of the site evaluation, but were somewhat confusing on how long the permittee had to implement the revisions. To clarify this time period, EPA has revised Part 4.9.3 of the permit to state: ''If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event, or not more than 12 weeks after completion of the comprehensive site evaluation.''

Comment b: Thirty days to correct deficiencies in the SWPPP following notification by the Director is insufficient.

Response b: EPA intends for corrections to the Storm Water Pollution Prevention Plan to be accomplished in a timely manner, particularly when deficiencies are identified formally by the Director. The Agency feels that thirty days, as outlined in the existing permit language, is a reasonable amount of time for such changes to be made; if revisions are significant, the permittee may request, and the Director can provide, additional time for revisions to be accomplished.

Comment c: Fourteen days to modify a SWPPP is insufficient.

Response c: The Agency feels that revising the Storm Water Pollution Prevention Plan appropriately to address deficiencies within 14 days is a reasonable timeframe in which to address changes administratively; additional time is provided to actually put those revisions into place.

Comment d: The SWPPP must be completed and in place prior to issuance of the permit.

Response d: Part 4.1 of the permit states that a SWPPP must be prepared for the facility before submitting a Notice of Intent for permit coverage. EPA's issuance of the MSGP–2000 does not automatically confer coverage to permittees; therefore, EPA feels the requirement that a site-specific SWPPP be in place for the facility operations prior to seeking coverage by way of the submittal of a NOI is sufficient to prevent environmental degradation.

Section 4.12 Additional Requirement: EPCRA Section 313 Reporting

Comment: Many commenters supported removal of EPCRA Section 313 reporting requirements from the permit. Two commenters objected to identifying areas with pollutants that must be reported under EPCRA Section 313 and to develop appropriate storm water controls for these areas.

Response: EPA acknowledges the general support for revisions to this section. The intent of these modifications is to eliminate the redundant requirements of the existing MSGP for permittees subject to reporting requirements under Section 313 of EPCRA, which includes the 20+ categories of Toxic Release Inventory chemicals. The Agency believes that the MSGP–2000 places no additional burden on facility operators with TRI chemicals. Identification of EPCRA 313 chemicals in the SWPPP acknowledges that these chemicals are pollutants of concern. Facilities with any of these pollutants need to develop appropriate storm water controls to contain them. As noted in the fact sheet, EPA believes these concerns have been addressed through existing state and federal requirements which can be referenced in the SWPPP.

Section 4.13 Public Availability for Review

Comment a: The public should be able to obtain access to and comment upon a SWPPP and ''no exposure'' claim before they are finalized.

Response a: EPA has, in response to this comment, included a provision in the final permit requiring facility operators to make a hard copy of their SWPPP available to the public when requested in writing. EPA believes this requirement is an acceptable compromise between the facility operator's concerns about having members of the public at their site and the need of the public to understand potential impacts on their environment. EPA does not receive SWPPPs routinely, and, therefore, cannot make them available at its offices or provide them to local government offices. As with the previous MSGP, members of the public have the option of contacting the NOI Center or the Regional EPA Storm Water Coordinators directly to inquire about a facility's permit status.

EPA does not intend to require public comment on SWPPPs, nor require public hearings, because SWPPPs are intended to be modified as necessary to address changes at the facility or when periodic inspections indicate that a portion of the SWPPP is proving to be ineffective. Requirements for public comment and public hearings would delay needed modifications to, not to mention development of, the SWPPP, be burdensome and serve as disincentives to plan updates.

At any time the Agency can conclude that a facility is no longer eligible for coverage under a general permit and require the facility to apply for a general permit. In that event, there would be significant opportunity for public input in the decision-making process.

Comment b: The following should be available in paper copy and on the web: NOI, SWPPP, and ''no exposure'' certification.

Response b: EPA has found that having a central location for processing NOIs is an efficient and effective way of managing the tremendous amount of data which the Storm Water program generates. Very shortly, members of the public will be able to access information from the NOI database online. The NOI database contains facility information, including the type of industrial activity taking place, facility contact information, and receiving water body information. Also available online will be information on facilities that have submitted ''no exposure certifications.'' Regarding SWPPPs, EPA does not receive them routinely and, therefore, cannot make them available on-line. EPA has, in response to this comment, included a provision in the final permit requiring facility operators to make a hard copy of their SWPPP available to the public when requested in writing. EPA believes this requirement is an acceptable compromise between the facility operator's concerns about having members of the public at their site and the need of the public to understand potential impacts on their environment.

Section 5.1 Types of Monitoring Requirements and Limitations

Comment a: A commenter requested language clarification for the first paragraph under Part 5.1, Quarterly Visual Monitoring.

Response a: Quarterly visual monitoring is required for all permittees covered under the MSGP. The visual inspection must cover all outfalls at the facility from which there are storm water discharges associated with industrial activity.

Comment b: A commenter indicated that Part 5.1.1.4 was clear regarding the visual monitoring waiver for inactive and unstaffed sites. However, it was unclear if a similar waiver for benchmark monitoring applies to inactive and unstaffed sites.

Response b: EPA has clarified in Part 5 that a permittee may exercise a waiver for benchmark monitoring at unstaffed and inactive sites.

Section 5.3 General Monitoring Waivers

Comment a: Commenters supported the adverse sampling condition waiver, as long as the permittee doubles sampling during the next event or eliminates the substitute sampling requirement for areas with extended frozen conditions.

Response a: EPA has decided to keep this temporary waiver, since the main purpose of this specific waiver is to allow the permittees the opportunity to take samples under no adverse nor threatening weather conditions.

Comment b: Allow permittees to waive benchmark monitoring in years 2 and 4 of the MSGP–2000 with the result of the 1995–MSGP; waive difficult logistical conditions or location access similar to those for unstaffed/inactive facilities; and impractical sample collection at large facilities.

Response b: Under Section 402 of the CWA, EPA is required to issue permits which apply and ensure compliance with any applicable requirements of sections 301, 302, 306, 307, and 403. Since these permits are issued with fixed terms not exceeding five (5) years, EPA needs to ensure that permittees continue to comply with applicable requirements. EPA believes that benchmark monitoring is not overly burdensome and provides useful information to the permittee and the Agency. Therefore, EPA will require permittees covered under the reissued MSGP to ensure continued compliance with permit conditions and requirements. In addition, EPA has determined that the general monitoring waivers provided in the previous permit are adequate, and that additional waivers are not needed. With regard to problems facilities encounter when monitoring their storm water discharges, such as difficult logistical conditions, access to discharge locations or impractical sample collection at large facilities, EPA recommends permittees review the ''NPDES Storm Water Sampling Guidance Document'' which suggest solutions to these sampling problems.

Section 6.E Sector E—Glass, Clay, Cement, Concrete and Gypsum Products

Comment a: Separate the concrete pipe manufacturing from the cement, ready mixed and concrete block manufacturing sector.

Response a: Based on the characterization of the concrete pipe manufacturing industry and the cement, ready mixed and concrete block manufacturing industry, EPA has determined that the two industries are similar and, thus, has retained the industrial sectors as described in the 1995 permit.

Comment b: Section 6.E.3.1 of the draft permit was not reflective of the September 30, 1998 modification.

Response b: The commenter is correct. The final permit has been changed to reflect the September 30, 1998 modification which removed the limitations of coverage for various industries. Paragraph 6.E.3 has been removed and the remaining paragraphs have been renumbered accordingly.

Section 6.F Sector F—Primary Metals

Comment a: Do not propose any new BMPs for the steel industry in the MSGP–2000.

Response a: Similarly to the 1995 MSGP, the MSGP–2000 prefers the implementation of structural and non-structural BMPs for stormwater management from Primary Metals facilities. It is up to the individual operators to decide which BMPs most effectively meet their needs. This does not preclude the use of additional or new technologies should they be found to be more effective in any given application.

Comment b: The BMPs provided at Parts 6.F.3.2 and 6.F.3.3 omit the most obvious qualifier, which is that inventories of exposed material and housekeeping should be mandated by the MSGP only where the exposed materials have a potential to contact storm water that is discharged from a point source to a water of the United States. In many cases, the types of materials and activities discussed in the above referenced parts occur in areas where precipitation is collected and contained, and is not discharged. Thus, site inventories and BAT practices discussed in these parts are not relevant except in areas where they affect storm water discharges authorized by the MSGP. Parts 6.F.3.2 and 6.F.3.3 should be clarified (similarly to Part 6.F.3.1) with a statement that these activities are required only in areas where such activities could result in a discharge of pollutants to waters of the United States.

Response b: One of the underlying premises of the MSGP is that if there is a potential for contact between storm water and environmental contaminants, then the facility should apply for coverage under the MSGP. If there is no potential for contact, the facility may be able to submit a ''no exposure'' certification form, and not be required to obtain permit coverage. Where there is a potential for contact between storm water and industrial activities and/or materials, then the operator needs to obtain permit coverage and take appropriate measures to mitigate the discharge of pollutants.

Comment c: Part 6.F.3.4 includes a requirement for inspections performed under the 2000–MSGP to, among other things, evaluate air pollution control equipment. This activity does not belong under the MSGP. It is a Clean Air Act requirement and an activity performed under each facility's Clean Air Act permit. Such inspections under the MSGP are redundant, inappropriate and extend EPA's CWA authority into the CAA. Inspections of air pollution control equipment should not be a component of any SWPPP or compliance certification under the CWA.

Response c: EPA understands why inspection requirements which routinely fall under the purview of one environmental program (in this case the Air Program) would appear inappropriate under another environmental program (in this case the Water Program). However, if one looks at the potential sources of pollution at primary metals facilities, one will soon discover that one of the principal sources of contamination is from the air pollution control devices. The purpose of the storm water regulations is to keep storm water from coming into contact with any contaminants, regardless of the environmental media from which it arose. If inspections are routinely conducted at a facility pursuant to one environmental statute, that same inspection will generally be accepted by another program. For example, if the facility routinely inspects its air pollution control devices as a requirement of its CAA permit, that same inspection, with the possibility of a few additional observations, *e.g.,* to see if there is any evidence of run off, should also be accepted as part of the SWPPP. The SWPPP can cross reference inspection protocols for the CAA permit. Thus, EPA does not agree with the commenter that these requirements are either redundant, inappropriate or extend EPA authority.

Section 6.G. Sector G —Metal Mining (Ore Mining and Dressing)

Comment a: Include Table G–4, published in the August 7, 1998 modifications, in MSGP–2000. Also, table titles in this section are confusing since they appear to imply that effluent guideline limitations apply to waste rock and overburden piles.

Response a: We have included the revised table G–4 from the August 7, 1998 modification in the fact sheet for today's permit. The titles of tables G–1 and G–2 are consistent with the titles in the other sectors of the final permit. All monitoring tables in Part 6 of the permit are titled ''SECTOR–SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING.'' The Agency doesn't not believe that this title is misleading because each table contains a column labeled ''Numeric Limitation'' which either contains a numerical value or is blank. For those Sectors where there are no values listed in the numeric limitation column it is clear that numeric limitations do not apply. EPA recognizes that benchmark concentrations are not effluent limitations and is provided specific language in the permit to that effect.

Comment b: The commenter opposes EPA's disallowance of sampling waivers from monitoring requirements for waste rock and overburden piles. Another commenter argued that another waiver based on ''not present or no exposure'' had also been deleted. A third commenter noted that monitoring requirements were also inconsistent with the 1998 permit modifications.

Response b: The restriction on sampling waivers was not intended to exclude the ''Adverse Climatic Conditions Waiver'' in Part 5.3.1 of the permit. The final permit has been revised to correct this error. Also, Part 6.G.7.2 has been modified to reflect that the monitoring requirements only apply to discharges from active ore mining and dressing facilities and that these requirements remain unchanged from the 1998 permit modification. The second waiver in Part 5.3 which is based on ''not present or no exposure'' was not part of the August 1998 notice, and was not intended for sector G facilities.

Comment c: The limitation on coverage for adit drainage and contaminated springs or seeps should be modified to exclude only those that do not result from precipitation events. The proposed Certification of Discharge language is confusing since it implies an obligation for testing or evaluation of mining-related discharges that are composed entirely of non-storm water covered by an NPDES permit.

Response c: Adit drainage and contaminated springs and seeps are discharges that originate below the surface of the ground. Often they discharge during dry periods and, while in some instances these flows may increase in response to a storm event, they may continue to flow well after the precipitation has ended. Therefore, EPA has determined that the restriction (*i.e.,* prohibition) for MSGP coverage of discharges from adit drainage, contaminated springs and seeps should remain as proposed.

The ''Certification of Discharge Testing'' language has been modified to clarify that certification must be provided to show that any mining-related discharge has been ''tested or evaluated for the presence of non-storm water discharges.'' Additional wording has been added to Part 6.G.6.1.6.6 to make it consistent with the language in the 1995 MSGP.

Comment d: Provide guidance in Section 6.G.6.1.6.6 on what type of test should be performed.

Response d: The language has been modified to allow for a certification based on ''tested or evaluated'' information. Additional wording has been added to Part 6.G.6.1.6.6 to make it consistent with the language in the 1995 MSGP.

Comment e: The definition of ''reclamation phase'' is inconsistent with most state programs.

Response e: The definition of the three general phases of mining was taken from the fact sheet to the 1995 MSGP. The intent was to recognize that ''mining'' is comprised of several distinct activities, not to set a standard for each phase. EPA acknowledges that reclamation requirements are typically set by state programs, and therefore the permit language defining the reclamation phase has been modified to reflect other post-mining land uses.

Comment f: In reformatting the permit language, EPA introduced new requirements which are inconsistent with the settlement EPA reached with NMA in 1998.

Response f: The draft MSGP–2000 intended to incorporate all the requirements from the 1998 notice resulting from the settlement with NMA. However, in making the changes and converting to a more ''readable'' format some unintended errors occurred. The revisions to the monitoring requirements have been made so the final permit language is consistent with the 1998 **Federal Register** publication (63 FR 42534, Aug 7, 1998).

Comment g: Delete the phrase ''directly or indirectly'' from coverage of ''storm water discharges that have come into contact (directly or indirectly) with any overburden, raw material, intermediate product* * *'' since it is inconsistent with prior versions of the permit.

Response g: The storm water regulations (Section 122.25(b)(14)(iii)) require permit coverage for ''facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products* * *'' When revisions were made to the draft MSGP 2000 language to make the permit more ''readable,'' some of the words were changed. In order to be consistent with the storm water regulations, the permit language has been revised. The words ''come into contact (directly or indirectly)'' have been deleted and replaced with ''contaminated by contact or that has come into contact.''

Comment h: EPA was incorrect in stating that all facilities permitted in this sector are ''no discharge'' facilities.

Response h: The monitoring discussion in the Fact Sheet to the permit is a summary of the data available at the time the draft permit was published for public comment. The main focus of the summary was on data from the second year of permit coverage. Of those sector G facilities that submitted information in year 2 of the permit none of them reported a discharge. The 1998 MSGP modification which reflected the settlement with NMA and added monitoring requirements for sector G was much later in the permit term. The final fact sheet language has been changed to recognize the later data and discharge status of sector G facilities covered by the permit.

Comment i: Water technically qualifying as mine drainage but which meets all applicable surface water quality standards should be approved for use in lieu of fresh water for dust control on roads at mine sites.

Response i: The quality of the mine drainage can change from source to source and over time within the same mine. The MSGP would need to specify a process (*e.g.,* monitoring frequency) to ensure that the quality of the mine drainage is protective of water quality. This type of facility specific considerations and potential monitoring requirements would be better addressed under an individual permit issued to the facility.

Sections 6.G and 6.J Construction Requirements for Sector G—Metal Mining and Sector J—Mineral Mining

Comment a: Commenters questioned why EPA was requiring coverage under a construction general permit for earth disturbing activities during the ''exploration and construction phase'' of a mining operation.

Response a: This requirement was originally contained in the 1995 MSGP Fact Sheet for Sector J (it was inadvertently not duplicated in the metal and coal mining [Sector G] sectors). It therefore represents a clarification or technical correction to the original MSGP. To clarify the applicability of the MSGP regarding construction activity at metal mining sites and to make metal mining requirements consistent with mineral mining provisions (Sector J), Sector G has been modified to indicate that earth-disturbing activities occurring in the ''exploration and construction phase'' of a mining operation must be covered under EPA's Construction General Permit (63 FR 7858, February 17, 1998) or under an individual permit if the area disturbed is one acre or more. Earth-disturbing activities during exploration/construction affecting less than one acre must be covered under the MSGP–2000. If permittees then opt to actively mine the site they are required to transition to the MSGP–2000 (they should terminate their coverage under the CGP, but there is no requirement to do so). This procedure removes commenters' ''dual-permit requirement'' fear. Once in the active phase, any subsequent mine enlargement would be covered under the MSGP–2000. All phases of a mining operation must be covered which includes the ''reclamation phase.'' EPA believes the appropriate level of environmental protection for initial land-disturbing mining activities is a construction permit. SWPPP requirements under a construction permit are more effective for the often temporary conditions found during the initial phase versus that which would be appropriate for a more permanent mining operation. Many of the BMPs and other SWPPP requirements of the Construction General Permit could be incorporated in the MSGP–2000 SWPPP, thereby minimizing any duplicative efforts.

Comment b: For Sector J for Region 9, the proposed MSGP only authorized mine dewatering discharges from crushed stone, construction sand and gravel, and industrial sand mines in Arizona. For Regions 1, 2, 6, and 10, coverage was proposed throughout the areas of these regions covered by the MSGP. Expressions of interest in MSGP coverage for these discharges have been received for other areas, such as Indian country in Nevada and California.

Response b: For consistency with the other regions, coverage for the discharges has been extended throughout the areas of Regions 3, 8 and 9 covered by the permit, provided the dischargers meet all other permit eligibility requirements.

Section 6.I Sector I—Oil and Gas Extraction

Comment: One commenter expressed concern that while refineries were covered under Sector I—Oil and Gas Extraction, refining was not usually considered ''oil and gas extraction'' and the title of Sector I could thus cause refinery operators to overlook permit conditions that could apply to them.

Response: EPA welcomes this suggestion to make the permit easier to use and the title for Sector I has been changed to ''Oil and Gas Extraction and Refining'' in Table 1–1 and in Part 6.I. Note however, that any storm water at a refinery that is subject to storm water effluent limitation guidelines at 40 CFR 419 is not eligible for permit coverage.

Section 6.R Sector R—Ship and Boat Building or Repair Yards

Comment: One commenter requested that the provisions of part 6.R.4.3.1. be clarified to note that pressure washing to remove paint would require a separate NPDES permit.

Response: EPA agrees that if pressure washing occurs to remove paint, the discharge of that wash water would require separate NPDES permit coverage. EPA also intends for the discharge of wash waters removing marine growth to be permitted separately. The source of the discharge is not storm water and, as a general rule, the MSGP only authorizes the discharge of storm water. The non-storm water discharges that are authorized by the MSGP are a specific list found in Part 1.2.2.2. of the permit and the list does not include pressure wash waters.

Section 6.S Sector S—Air Transportation

Comment: Commenters had concerns regarding the execution of site compliance evaluations and inspections of deicing areas. They also requested EPA to limit the inspection obligation to once per month during periods of deicing operations.

Response: The MSGP–2000 has been clarified to state that compliance evaluations shall be conducted during a period when deicing activities are likely to occur (vs. a month when deicing activities would be atypical or during an extended heat wave), not necessarily during an actual storm or when intense deicing activities are occurring. This requirement is not seen as onerous, as EPA believes that most weather conditions can be reasonably anticipated and the evaluation can be planned for. EPA generally agrees that regularly scheduled, monthly inspections of deicing areas during the deicing season (*e.g.,* October through April) are sufficient at airports with highly effective, rigorously implemented SWPPPs. However, if unusually large amounts of deicing fluids are being applied, spilled or discharged, weekly inspections should be conducted and the Director may specifically require such weekly inspections. In addition, personnel who participate in deicing activities or work in these areas should, as the need arises, inform the monthly inspectors of any conditions or incidents constituting an environmental threat, especially those needing immediate attention. EPA requires permittees to record, to the best of their ability, the quantity of all deicing chemicals applied on a monthly basis (not just glycols and urea, *e.g.,* potassium acetate), as discharges of large quantities of these chemicals can have an adverse impact on receiving waters. The capability to record usage of chemicals should not depend on the type of chemical used. EPA never intended to provide a comprehensive list of technologies and BMP options for airport operators to consider, nor to provide a discussion of the relative merits of each. EPA's discussion was simply an introduction of the many options available and was intended to stimulate thought on the variety of BMPs available. EPA intends that storm water personnel use their best professional judgment to select site-appropriate measures for inclusion in their SWPPPs. For a more thorough source of information on deicing fluid control and airport deicing operations in general, stakeholders can check the EPA publication ''Preliminary Data Summary, Airport Deicing Operations'' at http://www.epa.gov/ost/guide/airport/index.html.

Section 6.T Sector T—Treatment Works

Comment: Clarify that treatment works smaller than 1.0 MGD are not defined as industrial activities and, therefore, are not subject to the permit.

Response: The final permit language has been modified to be consistent with the industrial definition of § 122.26(b)(14)(ix). The requirements of Sector T are intended to apply only to those treatment works with a design flow of 1.0 MGD or more, or required to have an approved pretreatment program.

Section 8 Retention of Records

Comment: Clarify the Retention of Records language.

Response: EPA has clarified the Retention of Records language used in this permit. Part 8.1 states that the permittee will retain, for three (3) years after the permit expires or is terminated, the SWPPP and all documents/reports needed to complete their Notice of Intent form. In addition, Part 9.16.2.1 addresses the retention of records for the permit monitoring requirements for three (3) years from the date of sample, measurement, evaluation or inspection, or report. Permittees are required to submit Discharge Monitoring Reports for compliance and/or analytical monitoring.

Section 9 Standard Permit Conditions

Comment a: Several comments were received on Part 9.12.1 for requiring coverage under an individual permit or an alternative general permit. Commenters suggest that the permittee be allowed to appeal a Director's decision; provide for determination of non eligibility and semblance of surety available by a permittee who demonstrates eligibility and compliance with the MSGP; and authorize automatic transfer provided all storm water permitting conditions and obligations are met.

Response a: EPA may modify, revoke and reissue, or terminate a permit during its term. Causes for modification, revocation and reissuance, and termination are set forth in 40 CFR § 122.62 and 122.64. Specific causes may include: noncompliance by the permittee with any condition of the permit; failure in the application or during the permit issuance process to disclose fully all relevant facts; determination that the permitted discharge endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or there is a change in any condition that requires either a temporary or a permanent reduction or elimination of any discharges controlled by the permit. In addition, EPA recently published a final rule which revises certain regulations pertaining to the NPDES program, including the procedures for appealing an EPA determination on NPDES permits. See *Amendments to Streamline the National Pollutant Discharge Elimination System Program Regulations; Round II*, 65 Fed. Reg. 30886 (May 15, 2000). Included in the rule are revisions to the permit appeals process that replace evidentiary hearing procedures with direct appeal to the Environmental Appeals Board (EAB). The website for the EAB is ''http://www.epa.gov/eab/''. The webpage has a frequently asked question section, ''http://www.epa.gov/eab/eabfaq.htm''. Questions 1 through 9 deal with filing issues, which the commenter can refer to for instructions on how to proceed in filing an appeal with EAB. EPA does not allow automatic transfer from individual permits into other individual or general permits since EPA needs to maintain adequate records of permittees and make periodic evaluations of the adequacy of their measures to comply with permit requirements.

Comment b: EPA should extend coverage to facilities wishing to apply after the expiration date of the MSGP until the permit is reissued.

Response b: Where EPA fails to reissue a permit prior to the expiration of a previous permit, EPA has the authority to administratively extend the permit for facilities already covered. However, EPA does not have the authority to provide coverage to ''new'' facilities seeking coverage under an expired permit. This concern is not applicable in this instance to the MSGP since the MSGP–2000 was issued before the MSGP–1995 expired.

Section 13 Permit Conditions Applicable to Specific States, Indian Country Lands

Comment: The Agency should not require compliance with provisions of state rules that it cannot specifically identify. For example, EPA requires compliance with state anti-degradation provisions. The Agency provides no assistance with regard to how a small business might somehow ascertain what those provisions are, who has them, and how they might apply to the facility's discharge. See 65 Fed. Reg. at 17021. The Agency must specify precisely how a company would obtain appropriate data and how it should apply that data to its operations. Without this necessary guidance, this new provision should be removed from the final permit.

Response: The permit states that discharges are not covered if they violate, or contribute to the violation of, a state water quality standard. An anti-degradation policy is one component of a state's water quality standards program. The permittee is responsible for checking to ensure compliance with these provisions. Facility operators can check with the EPA official listed in this permit to obtain the name of the appropriate state contact.

Section I.A General Opposition to Proposed Changes

Comment: A commenter objected to several of the proposed modifications to the ''Limitations on Coverage'' provisions in the Proposed MSGP–2000, including the proposed revisions to the Endangered Species Act requirements (Section 1.2.3.6), the addition of the antidegradation provision (Section 1.2.3.9), the addition of the impaired waters and TMDL provisions (Section 1.2.3.8), and the addition of the compliance with water quality standards provisions in Section 3.3.

Response: The Agency acknowledges the comment. Justifications for each of the positions cited by the commenter are provided in the fact sheet accompanying the permit. Specific objections to these provisions are addressed elsewhere in the comment response document.

Section I.B General Support to Proposed Changes

Comment a: Several commenters supported EPA's continued use of a general NPDES permit for regulating storm water discharges associated with industrial activity. The commenters indicated that this was an efficient and effective means for achieving the goals of the Clean Water Act.

Response a: EPA agrees with the commenters regarding the appropriateness of general permits for the majority of industrial storm water discharges. The issuance of the final MSGP is consistent with these comments.

Comment b: A commenter supported the proposal to authorize incidental windblown mist discharges from cooling towers as an authorized non-storm water discharge under the MSGP.

Response b: These discharges are included in the final MSGP consistent with the recommendation of the commenter.

Comment c: A commenter supported the provision in the proposed MSGP to allow termination of permit coverage based on the ''no exposure exemption'' (40 CFR 122.26(g)) provided under EPA's Phase II storm water regulations of December 8, 1999 (64 *Fed. Reg.* 68722).

Response c: Although the no exposure exemption would be available whether or not it is specifically included in the

MSGP, EPA has retained the provision in the final MSGP to highlight its availability for those facilities which qualify.

Section I.C Fact Sheet

Comment a: It is imperative that EPA conduct an environmental justice analysis for the MSGP to ensure that the permit is consistent with the goals of EPA's Environmental Justice Strategy of April 3, 1995, the President's 1994 Executive Order on Environmental Justice and Title VI of the Civil Rights Act. The notice of intent (NOI) must include demographic information. EPA must seek comments of minority and low-income communities regarding the MSGP.

Response a: EPA disagrees with the commenter that an environmental justice analysis is necessary prior to the reissuance of the MSGP. Regarding Title VI requirements, EPA has recently proposed guidance (65 *Fed. Reg.* 39649, June 27, 2000) for assisting recipients of Federal funding which administer environmental programs (such as state environmental agencies), as well as guidance for investigating alleged disparate environmental impacts stemming from permitting programs administered by these agencies. The guidance is also appropriate for EPA permits, such as the MSGP.

The Title VI guidance encourages permitting authorities to integrate environmental justice into their permitting programs. However, an environmental justice analysis is not required for every permit issued by a state permitting authority or by EPA. No information was provided by the commenter that a disparate impact on minorities would exist as a result of the MSGP. The MSGP includes numerous effluent limitations and other conditions which should be protective of water quality for all neighborhoods in which permitted facilities are present. EPA does intend to integrate environmental justice considerations explicitly into its permitting programs as outlined in the Title VI guidance. However, this will likely be a longer term process (extending beyond the time frame for reissuance of the MSGP) given the many complexities of the issue.

EPA's Environmental Justice Strategy of April 3, 1995 (developed pursuant to the President's 1994 Executive Order) has similar goals as Title VI of the Civil Rights Act. Again, however, an environmental justice analysis is not required for every permit issuance. The integration of the goals of the Environmental Justice Strategy into the NPDES permit program will also take time given the many complexities of the environmental justice issue.

EPA is committed to implementing the Executive Order on Environmental Justice. As a practical matter, environmental justice concerns are community specific. EPA will work with a specific community that may express concerns related to a specific source or other environmental burdens. If and when a community raises such issues, EPA can then consider a proper course of action. In the case of the MSGP which will largely permit existing facilities, EPA will engage the community that has raised the issue and, if appropriate, work with the State and local agencies to address their concerns. If violations of any applicable standards are identified, EPA can pursue possible enforcement actions. The MSGP also provides that an alternate general permit could be issued for any geographic area which may be identified in the future as subject to disparate environmental impacts.

EPA has public noticed its intent to reissue the MSGP and has requested comments throughout the areas potentially affected by the permit, including areas where minority and low-income communities are present. EPA believes that its outreach activities have been sufficient for the permitting action which was proposed. However, EPA's Environmental Justice Strategy also provides for additional outreach activities in the future which may include outreach to minority and low-income communities specifically regarding the MSGP.

EPA disagrees that demographic information should be required with the NOI. The NOI does include location information for industrial facilities seeking coverage under the permit. Using this information it is possible to locate facilities covered by the permit relative to the locations of different demographic groups. As such, it is not necessary for the NOI to include demographic information.

Comment b: A commenter expressed concern that some non-storm water discharges may be improperly characterized as storm water by certain facilities. The commenter recommended that EPA carefully review permit applications and conduct inspections to ensure that such discharges are treated as point source discharges and not covered by the MSGP.

Response b: Point source discharges would violate the Clean Water Act unless they are authorized by a separate NPDES permit. The MSGP also requires that operators review their facilities for the presence of unpermitted non-storm water discharges which are not authorized by the MSGP. When such discharges are located, the MSGP requires that the discharges be permitted or terminated. This requirement should minimize the possibility that inappropriate non-storm water discharges are discharged under the MSGP. As recommended by the commenter, EPA does conduct periodic inspections of facilities permitted under the NPDES permit program to evaluate the compliance status of a facility with the requirements of the Clean Water Act, including the presence of any unpermitted discharges. Although the permit application for the MSGP (the notice of intent) does not specifically address the issue of non-storm water discharges, EPA believes that the other requirements of the MSGP, along with EPA's inspection program, adequately address the commenter's concern.

Section II.A Organization and Clarity

Comment a: Virtually all commenters supported EPA's effort to make the MSGP smaller and easier to understand. Several comments did express concern that the reorganization and clarification of the permit may have resulted in some substantial changes in permit requirements that may not have been identified and explained in the preamble to the proposed permit. The issue of whether or not explanation and guidance contained in the 1995 MSGP preamble could still be relied upon was also raised.

Response a: EPA went to great lengths to make the permit shorter and easier to understand and believes all substantive changes were identified and discussed in the preamble to the proposed permit. Responses to specific comments on areas where a commenter felt that adequate explanation for changes was not included in the proposal are provided in responses to that comment. With regard to the more specific explanation of sector-specific activities, etc. in the preamble to the 1995 MSGP, this information was incorporated by reference into the proposal of today's permit and may still be relied upon to the extent it does not conflict with the MSGP–2000 documents or is superceded by later guidance. Commenters noted several instances where EPA unintentionally changed requirements through the reformatting. EPA has corrected the permit and identified these instances throughout the comment response document.

Comment b: Based on EPA's use of incorporation by reference in the proposed permit's preamble to avoid reprinting material from the 1995 MSGP's preamble, one commenter expressed concern that the requirement in Part 4.7 to have a copy of the final permit with the Storm Water Pollution Prevention Plan would be difficult if the entire permit was not in a single package. This commenter also was concerned that references to multiple Internet sites for more information would further compound this problem. The commenter further suggested that a copy of the permit and relevant guidance be included with the NOI ''confirmation'' letter sent by EPA in response to a complete NOI. Another commenter supported making all relevant information available in a single document.

Response b: The entire permit, appropriate addendums, the preamble ''fact sheet,'' and comment response summary are being published today in the **Federal Register** and will, therefore, be easily available from several Internet sites and from Federal Depository Libraries. The information not repeated in the proposed permit notice was primarily background and fact sheet information from the preamble to the 1995 MSGP. While the preamble and response to comments sections of the final permit notice will undoubtedly be valuable to many permittees, the Part 4.7 requirement to have a copy of the permit language with the Storm Water Pollution Prevention Plan refers only to the permit language itself, including addendums. Based on experience with the previous permit, EPA believes the benefits of keeping the size and complexity of the permit to manageable (*i.e.,* less intimidating, easier to use) level far outweigh the benefit of making all supporting and guidance information, much of which will apply to only a small portion of potential permittees, available in a single document. EPA does expect that for convenience, many permittees will simply attach a copy of the entire **Federal Register** notice of the final permit to comply with Part 4.7.

EPA believes the references throughout the permit and preamble to various Internet sites is a sensible alternative to publishing information, only a small part of which may apply to any one facility or which will be changing over time and quickly become outdated. For example, due to periodic updates that must be made to the endangered species list based on new species being listed or old ones delisted, the county-species list was not published with the final permit. This omission saves tax dollars on publication, keeps the size of the permit package down (the current list would double the size of the permit while any one facility only needs to look at a page or so of information), and avoids the inadvertent use of an outdated species list that could result not only in failure to consider potential adverse effects on an endangered species, but also negate a discharger's permit coverage. EPA relies heavily on electronic distribution of documents and guidance, but will be able to provide hard copy or telephone-based information to those who have no access to the Internet or Federal Depository Libraries.

As noted above, the complete permit has been printed and EPA intends to make guidance available, primarily through the Internet. The suggestion to include a copy of the permit and guidance with the NOI ''confirmation'' letter is impractical since most of this information would have been necessary to develop the Storm Water Pollution Prevention Plan that must be developed before the NOI can be submitted.

Section III Geographic Coverage of Proposed MSGP

Comment: Several commenters and attendees of meetings on the proposed permit identified an inconsistency between Part 6.J.3 of the permit, where mine dewatering discharges from construction sand and gravel, industrial sand, and crushed stone mines were apparently eligible only in Arizona and both the previous permit and the preamble to the proposed MSGP–2000 where such discharges were also eligible in all of the permits for Region 1, 2, 6, and 10. One commenter referred to pages 17025 and 17034 of the preamble to the proposed permit in support of their belief that the proposed permit had been intended to provide coverage in Regions 1, 2, 6, and 10 and in Arizona.

Response: The typographical error in Part 6.J.3 has been corrected. As supported by item 4 on page 17025 and item 2 on page 17034 of the **Federal Register** notice of the proposed permit (65 FR 17025 and 17034), coverage for mine dewatering discharges from construction sand and gravel, industrial sand, and crushed stone mines in not only Arizona, but also Regions 1, 2, 6, and 10 was intended.

Section V.A Historic Preservation

Comment a: It would be more in keeping with balancing the agency's CWA mandate and NHPA obligation to not preclude general permit coverage for those discharges that may affect historic properties. Instead, require the general permittee to notify the agency of the existence of a listed historic property that will be affected along with any preventive or mitigation measures, if necessary, that it plans to implement. EPA could then decide if any further consideration or action is warranted, including any comment by the Council. The obligations established under § 106 are placed upon the agency, not on the permittee.

Response a: EPA agrees and acknowledges that NHPA Section 106 imposes obligations only on federal agencies and not on third parties. EPA's action in issuing permits, however, triggers NHPA Section 106. In order to issue a general permit, EPA included historic preservation-related application and eligibility provisions in order to ensure that it could ''filter'' out permitting activities that might otherwise trigger advanced procedures under NHPA Section 106. Section 110(k) of the Act prohibits a Federal agency from granting a loan, loan guarantee, permit, license or other assistance to an applicant who intends to avoid requirements of section 106 (64 FR 95 May 18, 1999). To meet this responsibility, EPA requires the applicant to do one of the following: (1) Determine that historic properties are not in the path of permit activities, (2) determine that permit activities have no impact on historic properties, or (3) the permittee reaches agreement with appropriate authorities on measures to mitigate or prevent adverse effects. Thus, it is quite possible for facilities having an impact on historic properties to be covered by the MSGP. Authorization to discharge under the MSGP is a privilege, not a right, which carries with it certain procedural and timing advantages for the permittee. Therefore, it is incumbent upon the permittee, not EPA, to conduct whatever investigations and consultations are necessary consistent with EPA's obligation to satisfy NHPA provisions.

Comment b: The notice states that the provisions in Part 1.2.3.7, are ''likely to change as a result of consultations'' under the NHPA. The procedures set forth in Addendum B are described as being ''models'' of what the NHPA guidance ''may look like.'' These provisions are critical for permittees to determine their eligibility for coverage under MSGP–2000, and any substantive changes in these areas should be subject to review and comment by the regulated community before they are adopted.

Response b: There are no changes to these provisions as a result of NHPA consultations.

Comment c: Part 2.1.2.2, which deals with discharges that are authorized under the 1995 MSGP, but not clearly eligible for coverage under this permit, does not allow adequate transition time for those permittees who do not have up-to-date determinations pursuant to the NHPA.

Response c: Within 90 days the permittee must apply for MSGP coverage and certify his compliance with other permit provisions. He then has up to 180 additional days of interim coverage under the MSGP while he conducts the consultation and determines whether he meets the criteria for coverage under the MSGP. EPA believes that 270 days is a sufficient period to conduct and conclude this consultation and take whatever action is necessary to ensure continued permit coverage.

Comment d: EPA states that, ''For existing dischargers * * * a simple visual inspection may be sufficient * * * '' (emphasis added). This statement is somewhat disingenuous because a ''simple visual inspection'' is rarely sufficient to determine historic eligibility of an area because many historic resources are often located underground. EPA should provide reasonable guidance worded specifically to shield permittees from liability.

Response d: EPA believes that, for existing dischargers who do not need to construct BMPs for permit coverage, a simple visual inspection may be sufficient to determine whether historic properties are affected. However, for facilities which are new industrial storm water dischargers and for existing facilities which are planning to construct BMPs for permit eligibility, applicants should conduct further inquiry to determine whether historic properties may be affected by the storm water discharge or BMPs to control the discharge. In such instances, applicants should first determine whether there are any historic properties or places listed on the National Register or if any are eligible for listing on the register (*e.g.,* they are ''eligible for listing''). Thus, the Agency does not imply that a visual inspection is always sufficient. In instances of uncertainty, the permittee is encouraged to consult with authorities who can advise on the likelihood of historic properties above or below ground.

Given the Agency's obligation to comply with the NHPA and its efforts to coordinate that obligation with the implementation of general permits, the historic preservation-related eligibility restrictions cannot provide an ironclad shield from liability. The permit guidance provides a common sense approach to an historic property assessment. Facility operators are encouraged to consult with local authorities who can advise on the likelihood of historic properties at the facility.

Comment e: Portions of the text are reproduced and other portions not reproduced in columns 1 and 2 of page 17018 of the notice. See 65 F.R. at 17018. Due to this problem, the commenter is unable to provide any comments on EPA's proposed new changes to the MSGP since he is uncertain what EPA intends or proposes. The commenter suggests that EPA fix the language related to the proposed MSGP and re-issue that correction for public review and comment.

Response e: EPA apologizes for the typing error which resulted in a number of sentences being listed twice on p. 1018. Despite this confusion, EPA believes the intent of the section is clear and does not require reproposal.

Section V.B Endangered Species

Comment a: The term ''unacceptable effects'' is used almost interchangeably with ''likely to adversely affect'' (See 65 Fed. Reg. 17051), which is similarly undefined in the permit and in pertinent regulation. The correct term for purposes of ESA compliance is the ''no jeopardy'' standard set forth in Section 7 of the ESA (17 U.S.C § 1536(a)(2)).

Response a: EPA agrees with the commenter regarding the term ''avoid unacceptable effects.'' Therefore, EPA has deleted the term and uses the ''no jeopardy'' language as stated in part 1.2.3.6.6.

Comment b: The definition of ''discharge-related activities'' is so all-encompassing that it could include virtually all activities at a mine, from drilling and blasting to loading, hauling and dumping and equipment maintenance, in addition to any activities that are part of a Storm Water Pollution Prevention Plan (SWPPP). There is no justification for a requirement to certify ESA compliance for all of these activities in order to obtain coverage under the MSGP. This requirement clearly exceeds EPA's authority under the Clean Water Act.

Response b: The endangered species provision covers only those activities that are associated with storm water industrial activity. The phrase ''discharge-related activities'' is intended to clarify that EPA considers a broad range of activities related to storm water discharges to be covered by the permit and, therefore, subject to ESA and NHPA provisions. This broader list of activities could result in environmental impairment if not addressed through a SWPPP. Since the permit covers this broad range, and EPA's permit authority is subject to ESA provisions, then this broader range of activities is subject to the ''no jeopardy'' finding. BMPs, whether already in place or added, which serve to satisfy the criteria for coverage under the MSGP, are thus subject to the endangered species provisions.

Comment c: While transitional discharge authorization is available for up to 270 days from the date of publication of the permit in the **Federal Register**, that transitional coverage is only available if the permittee submits an application for an alternative permit (most likely an individual permit) within 90 days after publication. Since formal Section 7 consultation is nominally a 135-day process (as stated in the Construction General Permit, see 63 Fed. Reg. 7872), permittees, in order to ensure continuous coverage, would be required to prepare and submit an application for an individual permit before they knew whether they were eligible for coverage under MSGP–2000. This is an unnecessary burden, on both the permittee and the agency. EPA should extend these time limits—for submission of an application for an alternative permit to 180 days, and for transitional coverage to one year.

Response c: EPA will retain the requirement that all applicants must submit their Notice of Intent (NOI) in 90 days. Those applicants who are entering into endangered species consultations or adverse impact investigations could apply for extensions up to 180 days and be covered by an interim permit until their application is completed. EPA believes that 270 days is a sufficient period to conduct and conclude this consultation and take whatever action is necessary to ensure continued permit coverage. The County Species list is available on EPA's web site or by contacting a local official. EPA will update its web site list every 90 days.

Comment d: EPA indicates that the proposed species-related requirements could change, before final issuance, based on consultation with the Fish and Wildlife Service. The public will not have an opportunity to participate in that process, including through commenting on any additional requirements suggested by the Service. If the Service does suggest any substantial changes in MSGP–2000, the public should have an opportunity to review and comment on those changes before EPA makes a decision as to whether to incorporate them into the final permit.

Response d: There are no changes to these provisions as a result of NHPA and ESA consultations, except that, based on comments to the proposed permit, EPA has deleted the inclusion of proposed species on the endangered species list.

Comment e: The duty triggered by the section of the Endangered Species Act (ESA) upon which EPA relies falls not upon the discharger but upon EPA. Thus under EPA's proposal, it would be EPA's duty to assess the impact of each discharger applying for coverage, and if this provision is not removed, EPA loses the benefit of the general permit. The action of adopting the general permit itself triggers EPA's duty, and so EPA, not the discharger, must assess ESA impacts now, not after the fact of the permit.

Response e: EPA is bound by the ESA and attempted to coordinate general permit implementation with its ESA obligations. Authorization to discharge under the MSGP is a privilege which carries with it certain procedural and timing advantages for the permittee. Therefore, it is incumbent upon the permittee, not EPA, to conduct whatever investigations and consultations are necessary to satisfy the ESA-related eligibility provisions. Since EPA cannot predetermine which facilities will apply for coverage under the MSGP, it is impossible for EPA to conduct the site-specific assessments required under the ESA at the time of general permit issuance.

Comment f: Despite previous consultation on the problems of earlier MSGP drafts, certain problems persist, including the gray area language that has fueled citizen suits against permittees. Not only has the agency failed to adequately address this issue, it has increased the liability potential by increasing the requirements for permittees to comply with other agency rules. EPA should clarify language to eliminate the potential for liability for permittees and should reduce the cost and paperwork burdens for compliance with ESA and NHPA.

Response f: Given the operation of the regulatory innovation, the ''general permit,'' EPA cannot provide an ironclad shield from liability in the way the commenter proposes. The permit guidance provides a common sense approach to endangered species and historic property assessments. Facility operators are encouraged to consult with local authorities who can advise on the likelihood of endangered or threatened species, critical habitat, or historic properties at the facility. EPA believes the additional burden associated with the expanded NOI form is minimal because permittees are required to make the findings which are reflected on the form. The additional information provides greater assurance that the assessment has been conducted, but does not in itself constitute the requirement for the assessment. EPA acknowledges that, until such time as the revised form has been cleared by OMB, permittees will continue to use the current NOI form (as modified slightly to conform to changes made elsewhere to the permit).

Comment g: The endangered species section of the permit relating to endangered species is cumbersome and appears to go beyond the intent of the Clean Water Act and beyond the EPA's authority set in the CWA.

Response g: EPA acknowledges the comment, but disagrees. EPA believes these provisions are essential to carry out its responsibility not to issue a permit which could jeopardize an endangered or threatened species, or critical habitat. EPA has consulted with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service to ensure compliance with the Endangered Species Act. The ''discharge-related activities'' restriction on eligibility also implements the Agency's obligations under NHPA Section 106.

Comment h: The permit should clarify that coverage of the MSGP, and certification by the permittee, need address only new impacts resulting from new changes in operations for which discharges are covered and authorized by the MSGP. In other words, the ''baseline'' for assessment of effects or impacts should be the date of reissuance of the MSGP or, if later, initiation of new activities to be covered by the MSGP.

Response h: All activities covered by the permit, whether new or existing, are subject to the provisions. It is inappropriate to interpret that these provisions apply only to new activities.

Comment i: The endangered species section suggests that a potential permittee utilize ''due diligence'' in determining whether or not a potential impact to an endangered or threatened species may exist. This language is too vague and subjective—differing interpretations what constitutes due diligence exist. This is particularly true when dealing with an issue as complex as impact to endangered species or their habitats, where the expertise necessary to make this determination is usually beyond the reach of most industrial operators. It is likely that this could become the focal point of efforts to block permit issuance by those with differing agendas. Further clarification of what is required under ''due diligence'' is required.

Response i: EPA believes that the language must provide flexibility to reflect the case-by-case decisions which must be made. In response to the commenter's concern, EPA has replaced the ''due diligence'' phrase with ''best judgment.'' Consultations with local endangered species officials is advised if the permittee is uncertain how to apply these provisions to his facility.

Comment j: Only those species that have been listed should be identified on this list and used in the determination of permit coverage; not those that have not gone through the entire listing process.

Response j: EPA acknowledges the comment and has revised the language to exclude proposed listing requirements.

Comment k: In this section, an applicant is expected to determine whether endangered species are ''in proximity'' to the stormwater discharges or discharge-related activities at the facility. In proximity is described as being ''in the path or down gradient'' or in the ''immediate vicinity of or nearby,'' the facility. These definitions are far too vague, and could refer to the presence of species located a considerable distance from a facility, not merely those located close enough to a facility to be affected by that facility's stormwater discharge. This section requires clanfication.

Response k: EPA has retained this language from the 1995 MSGP. EPA believes that the language must provide flexibility to reflect the case-by-case decisions which must be made. Consultations with local endangered species officials is advised if the permittee is uncertain how to apply these provisions to his facility.

Comment l: This section provides that ''where there are concerns that coverage for a particular discharger is not sufficiently protective of listed species (and presumably those proposed for listing as well) the Services (as well as any other interested parties) may petition EPA to require that the discharger obtain an individual NPDES permit and conduct an individual section 7 consultation as appropriate.'' It is clear that this will provide ample opportunity to those who would seek to delay or deny permit issuance, even in those circumstances where an actual impact to species or habitat does not exist. This procedure should be a formal one in which the permit remains in force until EPA, after careful and rigorous scientific evaluation of the potential impact, determines whether or not an impact exists and, if so, whether or not an alternative permit is warranted.

Response l: Opportunity for public input is an essential component of any government regulatory program. As the commenter suggests, the permit would remain in effect until such time as EPA concludes that the activity is no longer eligible for coverage under the permit.

Section V.C 303(d)

Comment a: Several commenters challenged Parts 1.2.3.8. of the permit because they believe it inaccurately applies 40 CFR 122.4(i) regarding compliance with water quality standards to discharges covered by a general permit. Several commenters believe that one doesn't have to consider 40 CFR 122.4(i) if they only add an outfall and similarly one commenter believes that new dischargers under Phase 2 do not have to consider 40 CFR 122.4(i). Commenters stated that any provisions added to the reissued MSGP regarding impaired waters or TMDLs are premature until the new TMDL rule is final. It seems that the major concern is that previously unpermitted discharges would be disallowed coverage under this Part.

Response a: EPA, in Sections 1.2.3.8.1 and 1.2.3.8.2, was merely conditioning a discharger's eligibility for coverage under the MSGP upon meeting certain existing conditions and requirements in EPA's NPDES regulations which apply in all applicable circumstances involving both individual and general permits. In doing so, EPA intended to merely restate those existing conditions and requirements as eligibility requirements under the MSGP. Specifically, EPA's intention in section 1.2.3.8.1 was to condition a new discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory conditions under 40 CFR 122.4(i). A new discharger, therefore would not be eligible for coverage under the MSGP if its discharge would ''cause or contribute to a violation of a water quality standard.'' As mentioned, this regulation is applicable to all new dischargers irrespective of the type of permit they are seeking coverage under; there is no language in this regulation that exempts new dischargers seeking coverage under a general permit. EPA, in section 1.2.3.8.1 of the MSGP, did not intend to create any confusion or change any existing interpretation of the current regulatory language referred to in that section. To avoid confusion EPA is therefore amending the language in section 1.2.3.8.1 to state that ''you are not authorized to discharge if your discharge is prohibited under 40 CFR 122.4(i).''

EPA's intention in section 1.2.3.8.2 was to condition a discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory requirements under existing 40 CFR 122.44(d)(1)(vii)(B). This section of EPA's regulations requires permitting authorities to develop effluent limits in permits that are ''consistent with the assumptions and requirements of any available wasteload allocation for the discharge prepared by the State and approved by EPA pursuant to 40 CFR 130.7'' (EPA's existing TMDL regulations). This requirement applies to all NPDES permits both individual and general permits.

Comment b: One commenter expressed confusion about what is meant by ''new discharges'' as this term is not defined in 40 CFR 122.2.

Response b: The final permit will omit the term ''new discharge'' since it is not necessary for the requirement and it has caused confusion. Today's permit will change the term ''new discharge'' to simply ''discharge'' in the first sentence of Part 1.2.3.8.1.

Comment c: Eligibility restrictions of the permit should be limited to those discharges of pollutants actually listed in a TMDL.

Response c: Section 1.2.3.8.2 of the MSGP contains the eligibility requirement that discharges be consistent with an EPA established or approved TMDL. EPA agrees with the commenter's suggestion that Section 1.2.3.8.2 should clearly state that such requirement is only applicable to facilities discharging the pollutant for which the TMDL is established. EPA is therefore, adding this language to Section 1.2.3.8.2.

Comment d: Discharges to 303(d) listed or 303(e) listed waters should be monitored for contaminants that impair or threaten water quality; however, monitoring requirements should be relaxed for other contaminants that do not impair or threaten receiving water quality. Several commenters wanted either exclusive or additional monitoring of discharges to impaired waters for pollutants of concern in lieu of the eligibility requirements based on whether or not a facility causes or contributes to the impairment.

Response d: EPA acknowledges that the MSGP may not contain monitoring requirements for a pollutant for which a waterbody is listed as impaired. This does not eliminate the burden of the discharger in determining that its effluent does not cause or contribute to a violation of water quality standards. Section 1.2.3.8.1 in the MSGP is an eligibility provision which restates existing regulatory requirements, it does not create new restrictions on any dischargers. If a discharger cannot meet the eligibility requirements, then that discharger is not authorized to discharge under the MSGP. Under existing regulations, EPA has the discretion to establish whatever eligibility requirements that it believes are appropriate. Section 1.2.3.8.1 is an eligibility provision that does no more than restate existing regulatory requirements as a condition of being authorized to discharge under the permit. It does not dictate, establish or restrict the use of any particular framework, effluent limits or permit conditions within the permit itself or describe or restate any new interpretation of the underlying regulations which it refers to.

Comment e: Several commenters were not clear how to determine or implement loadings imposed by TMDLs. Further they requested that loadings based on the TMDL be excluded from the MSGP and addressed separately so that the regulated community could have an opportunity to comment on them. One commenter stated that the eligibility requirement of Part 1.2.3.8. is not appropriate because there was no opportunity to comment on the TMDL.

Response e: It is not necessary that all dischargers receive individual wasteload allocations. EPA's regulations at 40 CFR 130.2 define a wasteload allocation as the portion of the receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution. EPA has interpreted this regulation to mean that each point source must be given an individual wasteload allocation when it is feasible to calculate such a wasteload allocation. EPA believes that states may find it infeasible to calculate individual wasteload allocations for all point sources covered by a specific general permit. In that case, the TMDL would establish individual wasteload allocations for dischargers subject to individual permits whereas dischargers subject to a general permit would be accounted for in the aggregate under a single wasteload allocation specific to the general permit under which they are authorized to discharge.

In addition, wasteload allocations can be expressed in different ways, including, percent loading reductions. See 40 CFR 130.2(i) ''* * * TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measures. * * *'' Effluent limitations must be consistent with (but not identical to) the wasteload allocations in TMDLs. See 40 CFR 122.44(d)(1)(vii)(B). Effluent limitations for point source discharges of storm water may be narrative limitations that are expressed in terms of best management practices (BMPs). This policy is consistent with EPA's approach in its Interim Permitting

Approach For Water Quality-Based Effluent Limitations in Storm Water Permits (September 1996, EPA 833–D–96–001). This interim approach allows limits to be expressed in the form of BMPs as a means of satisfying the requirement that limits derive from and comply with water quality standards and are consistent with an EPA approved or established TMDL.

All dischargers who discharge the pollutant for which the waterbody is impaired must be accounted for in the TMDL. Every point source discharger located on the impaired waterbody and discharging the pollutant for which the waterbody is impaired must be accounted for under a wasteload allocation. The State may choose, however, to give a discharger a wasteload allocation that would not require any reduction in loading. In other words, all facilities discharging the pollutant for which the waterbody is impaired must be subject to a wasteload allocation but all facilities subject to a wasteload allocation may not be required to reduce their loads.

Comment f: Several commenters requested guidance on how to adequately evaluate a discharge's eligibility under Part 1.2.3.8 and 1.2.3.9 of the permit.

Response f: EPA intends the analysis to be similar to what a permittee under the previous MSGP had to do in accordance with Part I.B.3.f. of that permit. The applicant must avail himself of all discharge characterization data or estimation of discharge character and determine compliance. If the permittee is able to evaluate eligibility on his own because he has access to State Water Quality Standards, 303(d) lists, TMDLs etc. (all of which are available either from the permit issuing authority or in some cases, online) then he can make his determination, document the determination process in his pollution prevention plan, and sign the NOI. In other cases, the Director may notify him that he is not eligible for coverage if such a determination is made independently, and may require an application for an individual permit.

Comment g: One commenter requested confirmation that Part 1.2.3.8.1 applies to facilities constructed after August 13, 1979 that have not yet been issued an NPDES permit.

Response g: Part 1.2.3.8.1 applies to discharges, not facilities, that have begun after August 13, 1979 that have not yet been authorized by an NPDES permit.

Section V.D—Antidegradation

Comment a: The proposed requirements do not accurately reflect States' anti-degradation policy. Commenters stated that anti-degradation does not hold a permittee accountable until a State's policy is interpreted into a permit. The State's review of the general permit under the CWA 401 is the extent of applicable anti-degradation review. Therefore, delete Part 1.2.3.9. since an individual discharger applying for general permit coverage cannot determine how the State's anti-degradation policy, especially regarding the Tier 2 ''high quality water'' provisions, will be implemented at a particular facility.

Response a: EPA, in Sections 1.2.3.8.1 and 1.2.3.8.2, was merely conditioning a discharger's eligibility for coverage under the MSGP upon meeting certain existing conditions and requirements in EPA's NPDES regulations which apply in all applicable circumstances involving both individual and general permits. In doing so, EPA intended to merely restate those existing conditions and requirements as eligibility requirements under the MSGP. Specifically, EPA's intention in section 1.2.3.8.1 was to condition a new discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory conditions under 40 CFR 122.4(i). A new discharger, therefore would not be eligible for coverage under the MSGP if its discharge would ''cause or contribute to a violation of a water quality standard.'' As mentioned, this regulation is applicable to all new dischargers irrespective of the type of permit they are seeking coverage under; there is no language in this regulation that exempts new dischargers seeking coverage under a general permit. EPA, in section 1.2.3.8.1 of the MSGP, did not intend to create any confusion or change any existing interpretation of the current regulatory language referred to in that section. To avoid confusion EPA is therefore amending the language in section 1.2.3.8.1 to state that ''you are not authorized to discharge if your discharge is prohibited under 40 CFR 122.4(i).''

EPA acknowledges that the MSGP may not contain monitoring requirements for a pollutant for which a waterbody is listed as impaired. This does not eliminate the burden of the discharger in determining that its effluent does not cause or contribute to a violation of water quality standards. Section 1.2.3.8.1 in the MSGP is an eligibility provision which restates existing regulatory requirements, it does not create new restrictions on any dischargers. If a discharger cannot meet the eligibility requirements, then that discharger is not authorized to discharge under the MSGP. Under existing regulations, EPA has the discretion to establish whatever eligibility requirements that it believes are appropriate. Again, section 1.2.3.8.1 is an eligibility provision that does no more than restate existing regulatory requirements as a condition of being authorized to discharge under the permit. It does not dictate, establish or restrict the use of any particular framework, effluent limits or permit conditions within the permit itself or describe or restate any new interpretation of the underlying regulations which it refers to.

EPA's intention in section 1.2.3.8.2 was to condition a discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory requirements under existing 40 CFR 122.44(d)(1)(vii)(B). This section of EPA's regulations requires permitting authorities to develop effluent limits in permits that are ''consistent with the assumptions and requirements of any available wasteload allocation for the discharge prepared by the State and approved by EPA pursuant to 40 CFR 130.7'' (EPA's existing TMDL regulations). This requirement applies to all NPDES permits both individual and general permits.

Wasteload allocations can be expressed in different ways, including, percent loading reductions. See 40 CFR 130.2(i) ''* * *TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measures * * *.'' Effluent limitations must be consistent with (but not identical to) the wasteload allocations in TMDLs. See 40 CFR 122.44(d)(1)(vii)(B). Effluent limitations for point source discharges of storm water may be narrative limitations that are expressed in terms of best management practices (BMPs). This policy is consistent with EPA's approach in its Interim Permitting Approach For Water Quality-Based Effluent Limitations in Storm Water Permits (September 1996, EPA 833–D–96–001). This interim approach allows limits to be expressed in the form of BMPs as a means of satisfying the requirement that limits derive from and comply with water quality standards and are consistent with an EPA approved or established TMDL.

The commenter correctly recognizes the difficulty in determining what defines ''necessary to accommodate important economic or social development'' in accordance with 40 CFR Section 131.12(a)(2). By statute, this determination involves public participation, the assurance that water quality will be protected, and several other factors. EPA would have to modify the permit for each discharge in question in order to comply with 40 CFR Section 131.12(a)(2). Individual considerations such as these are contrary to the concept of a general permit. In addition, public participation would be impossible since the permit issuing authority would not know about the particular discharge to tier 2 waters before a NOI was submitted. Therefore, a facility operator must seek coverage under an individual permit to discharge to tier 2 waters under 40 CFR Section 131.12(a)(2)'s allowable degradation provisions to satisfy the requirements for public participation and protection of water quality. The only discharges allowed coverage under today's permit are those which do not degrade the use of a tier 2 water below its existing levels, even though those existing levels exceed levels necessary to support propagation of fish, shellfish and wildlife and recreation in and on the water.

Comment b: While the eligibility requirements disallow the discharge to cause and contribute to the impaired water, the permit doesn't require monitoring for the pollutant of concern. This presents the potential for the permit issuing authority to determine that a discharge causes or contributes at a later date than the submittal of the NOI, effectively creating a violation of the permit without the permittee being able to know of it or prevent it.

Response b: There will be situations where an NOI is accepted by the permit issuing authority and coverage provided to a facility that did not meet the eligibility requirements. Other situations include changes, such as the approval of a TMDL, which may cause a discharge to no longer be eligible. Upon learning of these types of situations, the Director may either require the permittee to submit an application for an individual NPDES permit, take an enforcement action, allow the facility to eliminate the concern, or any combination of these actions.

Comment c: The eligibility requirements require the permittees to predict the final requirements of the TMDL rule and the final loadings of TMDLs approved in the future. Part 1.2.3.8.1 shouldn't be included in the permit because it inaccurately applies 122.4(i) to general permittees.

Response c: EPA, in Sections 1.2.3.8.1 and 1.2.3.8.2, was merely conditioning a discharger's eligibility for coverage under the MSGP upon meeting certain existing conditions and requirements in EPA's NPDES regulations which apply in all applicable circumstances involving both individual and general permits. In doing so, EPA intended to merely restate those existing conditions and requirements as eligibility requirements under the MSGP. Specifically, EPA's intention in section 1.2.3.8.1 was to condition a new discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory conditions under 40 CFR 122.4(i). A new discharger, therefore would not be eligible for coverage under the MSGP if its discharge would ''cause or contribute to a violation of a water quality standard.'' As mentioned, this regulation is applicable to all new dischargers irrespective of the type of permit they are seeking coverage under; there is no language in this regulation that exempts new dischargers seeking coverage under a general permit. EPA, in section 1.2.3.8.1 of the MSGP, did not intend to create any confusion or change any existing interpretation of the current regulatory language referred to in that section. To avoid confusion EPA is therefore amending the language in section 1.2.3.8.1 to state that ''you are not authorized to discharge if your discharge is prohibited under 40 CFR 122.4(i).''

EPA's intention in section 1.2.3.8.2 was to condition a discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory requirements under existing 40 CFR 122.44(d)(1)(vii)(B). This section of EPA's regulations requires permitting authorities to develop effluent limits in permits that are ''consistent with the assumptions and requirements of any available wasteload allocation for the discharge prepared by the State and approved by EPA pursuant to 40 CFR 130.7'' (EPA's existing TMDL regulations). This requirement applies to all NPDES permits both individual and general permits.

Comment d: The final permit needs to be clear that the requirements of Part 1.2.3.8.2 only apply to the pollutant of concern in the TMDL actually being discharged by the facility. This idea is in Part 1.2.3.8.1. and should be included in 1.2.3.8.2 as well. Similarly, EPA should lift the new source and new discharger restrictions if there is not a storm water component of the approved TMDL. The final permit should clarify that a facility may not have a specific allocation in an approved TMDL and as such may still be eligible for the general permit.

Response d: Section 1.2.3.8.2 of the MSGP contains the eligibility requirement that discharges be consistent with an EPA established or approved TMDL. EPA agrees with the commenter's suggestion that Section 1.2.3.8.2 should clearly state that such requirement is only applicable to facilities discharging the pollutant for which the TMDL is established. EPA is therefore, adding this language to Section 1.2.3.8.2.

Comment e: The eligibility requirements in Part 1.2.3.9 defeat the concept of efficiency of a general permit and should be removed. EPA does not have the authority to require the applicant to assess if they support the use classification of the receiving water because it increases the cost of applying for general permit coverage which has not been evaluated by EPA under the Unfunded Mandates Reform Act. Furthermore, the duty to determine whether or not a discharge supports the use classification of a receiving water is the permit issuing authority's responsibility.

Response e: The concept of the general permit is to reduce the administrative burden on EPA and the regulated community by issuing one permit for many facilities that would otherwise all have exactly the same conditions in their individual permits. If a facility is not like other ones where it would have different permit conditions it should not apply for the general permit in question. This general permit only applies to facilities that support the use classification of the receiving waters. If they do not, EPA is not obligated to change the general permit to include them. The applicant must seek alternate permit coverage. It is the permit issuing authority's responsibility to ensure that the conditions of the general permit support use classifications. It is not their responsibility to ensure that each individual discharge authorized by the permit supports the use. The eligibility requirements are there to indicate the type of facility that can be covered under the permit. The efficiency intended by a general permit is to reduce the number of individual permits and to make application for NPDES permit easier for those who qualify for the coverage under the general permit.

Comment f: The final permit needs to be clear that a facility may not have a specific allocation in an approved TMDL and as such may still be eligible for the general permit.

Response f: EPA agrees in part with the commenter that there may be circumstances under which it is not necessary that all dischargers receive individual wasteload allocations. EPA's regulations at 40 CFR 130.2 define a wasteload allocation as the portion of the receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution. EPA has interpreted this regulation to mean that each point source must be given an individual wasteload allocation when it is feasible to calculate such a wasteload allocation. EPA believes that states may find it infeasible to calculate individual wasteload allocations for all point sources covered by a specific general permit. In that case, the TMDL would establish individual wasteload allocations for dischargers subject to individual permits, whereas dischargers subject to a general permits would be accounted for in the aggregate under a single wasteload allocation specific to the general permit under which they are authorized to discharge.

Comment g: Lift the new source/new discharger restriction if there is not a storm water component of the approved TMDL.

Response g: EPA, in Sections 1.2.3.8.1 and 1.2.3.8.2, was merely conditioning a discharger's eligibility for coverage under the MSGP upon meeting certain existing conditions and requirements in EPA's NPDES regulations which apply in all applicable circumstances involving both individual and general permits. In doing so, EPA intended to merely restate those existing conditions and requirements as eligibility requirements under the MSGP. Specifically, EPA's intention in section 1.2.3.8.1 was to condition a new discharger's eligibility for coverage under the MSGP upon meeting the existing regulatory conditions under 40 CFR 122.4(i). A new discharger, therefore would not be eligible for coverage under the MSGP if its discharge would ''cause or contribute to a violation of a water quality standard.'' As mentioned, this regulation is applicable to all new dischargers irrespective of the type of permit they are seeking coverage under; there is no language in this regulation that exempts new dischargers seeking coverage under a general permit. EPA, in section 1.2.3.8.1 of the MSGP, did not intend to create any confusion or change any existing interpretation of the current regulatory language referred to in that section. To avoid confusion EPA is therefore amending the language in section 1.2.3.8.1 to state that ''you are not authorized to discharge if your discharge is prohibited under 40 CFR 122.4(i).''

Section V.E Discharges Not Previously Covered by an Individual Permit

Comment: One commenter requested clarification of the permit requirement at Part 1.2.3.3.2.3 to include any specific storm water BMPs from the old individual permit in the Storm Water Pollution Prevention Plan when transferring from an individual permit to the MSGP. The commenter interpreted this condition to mean that only those specific storm water BMPs from the old individual permit (and areas associated with outfalls from the old permit) needed to be included in the Plan, and noted an apparent inconsistency on page 17021, Item F, of the preamble which states that the Plan must address the entire facility.

Response: When transferring from an individual permit to the MSGP, the requirement at Part 1.2.3.3.2.3 to include any specific storm water BMPs from the old individual permit in the Storm Water Pollution Prevention Plan is in addition to and not in lieu of the basic requirements in Part 4. However, the BMPs brought over from the old individual permit may satisfy one or more of the ''basic'' Storm Water Pollution Prevention Plan requirements under Part 4 and/or the sector-specific requirements under Part 6. There could be areas at a facility (*e.g.,* employee parking lots) that do not need to be addressed under the permit (and SWPPP) unless the runoff from such areas commingles with storm water associated with industrial activity (or was previously permitted).

Section VI.A Notification Requirements

Comment a: The commenter supported the use of electronic filing of NOIs, but expressed concern that facilities without Internet access would be at a disadvantage.

Response a: It is not the intention of EPA to only accept electronic submittals. Electronic submittal is another alternative which, hopefully, will be available to the regulated community in the near future.

Comment b: The commenter does not support any changes to the NOI form, and expects any changes to comply with the Paperwork Reduction Act.

Response b: Any changes to the NOI form that result in an increase in burden for the applicant must first be reviewed and approved by the Office of Management and Budget. Part of this review includes compliance with the requirements of the Paperwork Reduction Act. Changes to the NOI form published in today's permit were limited to those that provide clarification in information, as well as those changes that reflect changes in the storm water permits issued by EPA. EPA has determined that these changes do not represent an increase in burden for completing the NOI form. As noted in Section 2.2, the more extensive changes listed in the March 30, 2000 proposal need to complete their OMB review before they can be included in the NOI form.

Comment c: A commenter supported inclusion of the no exposure certification form as an addendum to the MSGP–2000.

Response c: EPA agrees that providing the form with the permit is a convenience for facilities qualifying for the no exposure exemption. The certification form is an addendum to the permit.

Section VI.B Special Conditions

Comment a: The Agency is shifting its responsibility regarding meeting minimum technology standards in NPDES permits to the discharger.

Response a: EPA expects that when a facility submits an NOI they are familiar with both the permit and their facility. They should be able to determine their eligibility. The permitting authority may concur with the facility's assessment, or not. EPA does not believe that it has shifted its responsibility on this matter.

Comment b: There was a request to clarify the requirements in the MSGP–2000 regarding co-located facilities.

Response b: A facility is considered co-located if there is a second industrial activity occurring which meets the definition of storm water discharge associated with industrial activity. For example, a facility operates an auto salvage yard and also has an area onsite for scrap recycling. The facility as a whole would meet the requirements for Sector M—Auto salvage. The area where scrap recycling occurs would meet the requirements for Sector N—Scrap Recycling. Any storm water discharges from the scrap recycling area needs to meet the requirements for both sectors. The second activity may or may not be related to the primary industrial activity. The determination as to whether something is co-located rests in the definition of storm water discharges associated with industrial activity. If a second activity exists at a facility which meets one of the categories in the definition, then the facility has co-located industrial activities.

Section VI.C Common Pollution Prevention Plan Requirements

Comment a: A commenter expressed concern about various interpretations and implementation of the storm water program, including incorporation of effluent limits, and stressed ''* * * It is imperative that the Agency maintains that SWPPP requirements be interpreted and implemented in a practicable and economically feasible manner.''

Response a: EPA believes that proper implementation of storm water BMPS will achieve compliance with water quality standards. EPA is responsible for implementation of the storm water program in eight states, various territories, including Puerto Rico and District of Columbia; and various Indian Country lands throughout the country. For the remaining 42 states, the state agency is responsible for program implementation. They have the authority to interpret and implement the program as appropriate for their state. It continues to be EPA's policy not to include effluent limitations in storm water permits. However, a state may choose to follow a different policy than EPA's.

Comment b: There is not a specific mention of catch basin inserts or fillers on the listing of BMPs.

Response b: In discussions concerning BMPs, EPA attempted to provide some examples of various types of BMPs. By no means is the listing intended to be all inclusive. EPA acknowledges that there are other BMPs, such as catch basin inserts or fillers, that were not mentioned in discussions but may be appropriate in various circumstances.

Section VI.E Monitoring and Reporting Requirements

Comment a: Monitoring results are an unreliable indicator of a discharge problem and they do not provide confirmation of a problem. Permittees cannot use results to support facility management.

Response a: EPA believes that since analytic monitoring has been performed by substantial numbers of permittees only during the fourth year of the 1995 MSGP (many facilities complying with monitoring requirements in the fourth year were covered under the earlier baseline general permit during the second monitoring year and, consequently, had no equivalent monitoring requirement), it is premature to make any final conclusions regarding the value of the Agency's acquisition of the monitoring data or to consider dropping the monitoring. In essence, the fourth-year monitoring data set EPA received represents the baseline of pollutant discharge information under the sector-specific industrial general storm water permit. Several rounds of monitoring significantly enhances the utility of the results for evaluating the effectiveness of management practices at the site as well as for the industry sector as a whole. EPA commits to using data from the 1995 and 2000 permits to evaluate the effectiveness of management practices on an industry sector basis and to evaluate the need for changes in monitoring protocols for the next permit.

EPA acknowledges that, considering the small number of samples required per monitoring year (four), and the vagaries of storm water discharges, it may be difficult to determine or confirm the existence of a discharge problem as a commenter claimed. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job. EPA believes there is presently no alternative that provides stakeholders with an equivalent indicator of program effectiveness.

Comment b: Monitoring results are not necessarily an indicator of BMP effectiveness and EPA never justified that they are.

Response b: While not practicable for EPA to require an increase in monitoring, operators are encouraged to sample more frequently to improve the statistical validity of their results. Unless the proper data acquisition protocol for making a valid BMP effectiveness determination is rigorously followed, any other method used to assess BMP effectiveness would be qualitative, and therefore less reliable. The least subjective approach, and most beneficial to operators and stakeholders, EPA believes, remains a combination of visual and analytic monitoring, using analyte benchmark levels to target potential problems. Statistical uncertainties inherent in the monitoring results will necessitate both operators and EPA exercising best professional judgment in interpreting the results. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job.

Comment c: Alternate test methods can be used for determining effectiveness of BMPs at a facility, and benchmarks will need modifying to account for variability in test methods.

Response c: A technically valid, deterministic investigation of BMP effectiveness would necessarily involve collecting discharge pollutant load data before and after the BMP. The constraints inherent in monitoring preclude requiring this kind of investigation. All other methods used to make an assessment of SWPPP/BMP effectiveness are qualitative. The least subjective approach, and most beneficial to operators and stakeholders, EPA believes, is a combination of visual and analytic monitoring, using analyte benchmark levels (or ''targets'') as an indicator of potential problems. Vagaries of storm discharges and statistical concerns will necessitate operators and EPA exercising best professional judgment in interpreting the results of any monitoring. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job.

Comment d: (a) The presumption of an impact on water quality standards by storm water is inappropriate given the episodic nature of storms. (b) EPA recognizes that during a storm, water quality standards will not always be met, so EPA shouldn't rely on water quality standards at a discharge point to determine if a facility is in compliance. (c) Monitoring has marginal value in assessing and protecting water quality.

Response d: (a) It is true that many impacts of storm water are short-term and that many pollutants are not really toxic or bioaccumulative. A short term water quality standard violation is not necessarily going to persist long enough to be toxic. (b) In the absence of establishing discharge pollutant loads that correlate directly to a receiving water, as would be done for an individual permit, EPA settled on benchmark levels which would, under nearly all scenarios, be protective of water quality standards. Recognizing the shortcomings of these generic pollutant levels, EPA only intends for them to be used as indicators of possible problems and as a flag to reevaluate the SWPPP—not as a trigger to begin mandatory SWPPP or operational revisions unless, after employing BPJ, the operator deems such revisions are necessary. (c) While end-of-pipe/end-of-property analytic monitoring for storm water may not reflect potential impacts to water quality, EPA does not intend to use the data for that purpose.

Comment e: EPA needs to reevaluate the validity of benchmark values.

Response e: Universal benchmark levels cannot be established; the next best thing would be storm water pollutant loadings vis-a-vis water segment-specific TMDLs. But when used as a target or indicator, without requiring specific corrective actions beyond using BPJ to reassess present conditions and make any changes deemed necessary, the present benchmarks are adequate. In specific situations operators may reasonably conclude, after analyzing monitoring results above benchmarks, their present SWPPPs/BMPs are adequately protective of water quality, or that other conditions such as discharging to low-quality, ephemeral streams may obviate the need for SWPPP/BMP revisions.

Comment f: Monitoring diverts resources from more effective implementation of SWPPPs. EPA should focus on pollution prevention, instead.

Response f: In developing the monitoring requirements, *i.e.,* pollutants of concern, monitoring waivers, etc., along with providing sampling and monitoring guidances, EPA endeavored to make the financial burden as minimal as possible. Four quarterly samples is a minimal data set for evaluating the effectiveness of SWPPPs. Those least able to afford expansive monitoring programs, *i.e.,* small businesses, likely have few outfalls to begin with. EPA believes that if monitoring is required at a facility, it should be planned for and budgeted as a cost of doing business.

Comment g: Permittees fear benchmark limits would be viewed as effluent limitations.

Response g: EPA agrees that benchmark limits are not effluent limitations and should not be used, in and of themselves, as the basis for issuing an enforcement violation.

Comment h: Storm water discharge variability can be caused by atmospheric/dry deposition, run on and fate in transport; facilities with structural leachate are at a disadvantage vis-a-vis those without the problem.

Response h: EPA acknowledges the potential for adding pollutants to a facility's discharges from external or structural sources. A permittee is, nonetheless, still legally responsible for the quality of all discharges from his/her site—but not from pollutants that may be introduced outside the boundaries of his/her property or the areas where his/hers structures, industrial activities or materials are located. Anything that increases the pollutant load in the runoff prior to leaving the site, whether originating from air deposition, run-on from nearby sites, or leachate from on-site structures, remains the responsibility of the permittee. This was affirmed in the ruling by the Environmental Appeals Board against the General Motors Corp. CPC-Pontiac Fiero Plant in December 1997.

Comment i: Allow pollutant credits for background sources of pollution.

Response i: Pollutant credits for background sources of pollution is unfeasible for storm water. Either EPA or the permittee would have to determine the pollutant loads of both the run-on and runoff to calculate pollutant credits. Resources are insufficient to implement this practice.

Comment j: Differences in monitoring results may result from changes in business conditions; changes in personnel doing monitoring can make observations/discharge examinations unreliable.

Response j: EPA published guidance on both monitoring and sampling procedures (available from EPA's Office of Water Resource Center) to standardize data collection practices.

Comment k: The same person cannot always do monitoring. Having to rely on different people is bad for consistency in recording observations and making discharge examinations.

Response k: EPA requires that personnel implementing the SWPPP be provided training as an element of the SWPPP. This training must cover program elements to ensure the quality and validity of all information collected.

Comment l: Sampling can be dangerous.

Response l: EPA provides waivers and options such that extreme weather or perilous conditions are accounted for.

Comment m: Determining whether a storm qualifies to be monitored is difficult.

Response m: EPA has always defined what constitutes a storm event worthy of monitoring. Modern weather forecasting is making it easier to anticipate and plan for qualifying storms.

Comment n: Monitoring in remote west or arid/semi-arid areas is difficult and burdensome.

Response n: EPA has always had accommodations and waivers for lack of qualifying storm events. See EPA Response o below.

Comment o: EPA should reduce analytic monitoring and visual monitoring based on average rainfall (similar to Phase II regulations).

Response o: EPA already allows permittees to skip monitoring in any quarter in which no qualifying storm events occur.

Comment p: Some discharges (in the west) occur only infrequently and sometimes only to isolated, ephemeral streams (which may have no indigenous biota).

Response p: Ephemeral streams may still eventually flow into permanent waters of the U.S.; hence, protective measures may still be needed to protect water quality. If there are truly no water quality standards established for an ephemeral stream and the outflow does not feed another water body, then it's likely there would not be a ''point source discharge'' and no permit would be required. Only those point source discharges to waters of the U.S. need to be included in a SWPPP.

Comment q: Continuation of monitoring is not justified, especially for mining sectors.

Response q: EPA believes that since analytic monitoring has been performed by substantial numbers of permittees only during the fourth year of the 1995 MSGP (many facilities complying with monitoring requirements in the fourth year were covered under the earlier baseline general permit during the second monitoring year and, consequently, had no equivalent monitoring requirement), it is premature to make any final conclusions regarding the value of the Agency's acquisition of the monitoring data or to consider dropping the monitoring. In essence, the fourth-year monitoring data set EPA received represents the baseline of pollutant discharge information under the sector-specific industrial general storm water permit. Several rounds of monitoring significantly enhance the utility of the results for evaluating the effectiveness of management practices at the site as well as for the industry sector as a whole. EPA commits to using data from the 1995 and 2000 permits to evaluate the effectiveness of management practices on an industry sector basis and to evaluate the need for changes in monitoring protocols for the next permit.

EPA acknowledges that, considering the small number of samples required per monitoring year (four), and the vagaries of storm water discharges, it may be difficult to determine or confirm the existence of a discharge problem as a commenter claimed. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job. EPA believes there is presently no alternative that provides stakeholders with an equivalent indicator of program effectiveness.

Comment r: EPA has not provided guidance on monitoring snow melt events.

Response r: EPA does not have any specific guidance on this matter at the present time. Guidance may be developed in the future. In the interim, however, EPA believes that facilities should be able to obtain reasonably representative samples using their best judgment. Two important points must be considered to ensure the snow melt sample is representative: (1) The melted runoff must come in contact with any pollutants of concern present and not be overly ''contaminated'' with concentrated surficial deposits of hydrocarbons, dirt, salt, etc., and (2) the melted runoff must have characteristics that approximate those of a monitor-qualifying rain storm (0.1 inch runoff volume, sampled within the first ½ up to 1 hour).

Comment s: (a) In addition to monitoring results, EPA should also require submission of a description of storm water controls being implemented. (b) EPA should require facilities to monitor for pollutants similar to what would be done under an individual permit (to ensure BMPs are being implemented). (c) Monitoring will aid the permittee, permitting authority and the public in understanding the sources and toxicity of storm water at a site.

Response s: (a) EPA already requires that all BMPs and other controls be described in the SWPPP, including inspections, maintenance, etc. Any BMP changes or additions must be added to an updated SWPPP, so EPA will not require this information be formally submitted. If EPA needs to inspect a facility or determine an enforcement issue, the facility's SWPPP will be reviewed for BMP information. (b) Customizing a facility's monitoring requirements is tantamount to writing an individual permit for the facility, which would require the same application package as for an individual permit. This is an option for those facilities where discharges or receiving waters are a concern but, otherwise, EPA believes the requirements of the present general permit with the identified pollutants of concern is sufficient for a large majority of facilities. (c) EPA agrees that monitoring can be used as an indicator of potential problems or toxicity concerns.

Comment t: Submit Discharge Monitoring Reports (DMRs) along with NOIs to prove compliance. If no DMRs were submitted under the current MSGP, require quarterly monitoring for all five years of MSGP–2000.

Response t: DMR and NOI submission deadlines have not coincided in the past and, from a regulatory perspective, it is not feasible to link them. Past instances of non-compliance are an enforcement issue with established penalties in the CFRs, but these instances do not automatically preclude future permit coverage nor can EPA include separate ''penalties'' such as 5-year monitoring in the permit for them.

Comment u: Analytic monitoring may be good for general info, which may be of use to the facility and regulatory agency, but it should not be required under the permit. Only visual monitoring should be required. One commenter indicated that analytic monitoring may be good for watershed-wide indications of general trends.

Response u: EPA believes that since analytic monitoring has been performed by substantial numbers of permittees only during the fourth year of the 1995 MSGP (many facilities complying with monitoring requirements in the fourth year were covered under the earlier baseline general permit during the second monitoring year and, consequently, had no equivalent monitoring requirement), it is premature to make any final conclusions regarding the value of the Agency's acquisition of the monitoring data or to consider dropping the monitoring. In essence, the fourth-year monitoring data set EPA received represents the baseline of pollutant discharge information under the sector-specific industrial general storm water permit. Several rounds of monitoring significantly enhance the utility of the results for evaluating the effectiveness of management practices at the site as well as for the industry sector as a whole. EPA commits to using data from the 1995 and 2000 permits to evaluate the effectiveness of management practices on an industry sector basis and to evaluate the need for changes in monitoring protocols for the next permit.

EPA acknowledges that, considering the small number of samples required per monitoring year (four), and the vagaries of storm water discharges, it may be difficult to determine or confirm the existence of a discharge problem. When viewed as an indicator, analytic levels considerably above benchmark values can serve as a flag to the operator that his SWPPP needs to be reevaluated and that pollutant loads may need to be reduced. Conversely, analytic levels below or near benchmarks can confirm to the operator that his SWPPP is doing its intended job. EPA believes there is presently no alternative that provides stakeholders with an equivalent indicator of program effectiveness. A technically valid, deterministic investigation of BMP effectiveness would necessarily involve collecting discharge pollutant load data before and after the BMP. The constraints inherent in monitoring preclude requiring this kind of investigation. All other methods used to make an assessment of SWPPP/BMP effectiveness are qualitative. Quarterly visual monitoring of storm water discharges has always been a permit requirement, for many of the same reasons why commenters favor it, and will continue to be so. The least subjective approach, and most beneficial to operators and stakeholders, EPA believes, is a combination of visual and analytic monitoring, using analyte benchmark levels (or ''targets'') as an indicator of potential problems. Variability of storm discharges and statistical concerns will necessitate operators and EPA exercising best professional judgement in interpreting the results of any monitoring.

Monitoring in impaired water bodies would focus attention on the problem water bodies and possible pollutant sources. However, not all impaired water bodies and their impairments have been determined. The goal of EPA's storm water program is also to protect and maintain water quality, not just remediate impaired waters, so focusing on impaired waters only does not fulfill all the program's responsibilities.

Comment v: If monitoring results are below the benchmark, facilities should not be required to monitor unless there are major changes to the facility.

Response v: Several rounds of monitoring significantly enhances the utility of the results for evaluating the effectiveness of management practices at the site as well as for the industry sector as a whole. EPA is keeping the monitoring requirement for all specified sectors at least one more time to provide stakeholders with continued assurance that SWPPPs are being implemented, concerted efforts to protect water quality are ongoing, and a mechanism is in place to indicate potential problems. The previous second year monitoring waiver for facilities with pollutant levels below the benchmark level is being retained.

Comment w: Substantially identical outfalls reduces burden and is beneficial to SWPPP implementation.

Response w: Noted.

Visual Monitoring

Comment x: Numerous commenters supported dropping analytic monitoring from the MSGP–2000 in favor of just requiring quarterly visual monitoring. Commenters claimed visual monitoring is adequate to ensure compliance and environmental protection (especially coupled with training), and is least burdensome.

Response x: Quarterly visual monitoring of storm water discharges has always been a permit requirement, for many of the same reasons why commenters favor it, and will continue to be so. EPA will also be retaining analytic monitoring because we believe the best way to ensure SWPPP effectiveness and protection of water quality is through a combination of visual and analytic monitoring. The reasons for not adopting visual monitoring only are explained further in the rationale for justifying quarterly analytic monitoring.

Comment y: Operators need flexibility to collect representative samples for visual monitoring.

Response y: EPA believes the same representative sample reduction provided for analytic monitoring is inappropriate for the quarterly visual monitoring. A visual examination of all discharges is the least that operators can do to ensure all discharges are clean and would provide greater confirmation to themselves and other stakeholders that the representative discharge sample reduction claimed for analytic monitoring is, in fact, justified.

Comment z: Support visual monitoring with use of field test kits, which are cheaper and easier than 40 CFR 136.

Response z: Field test kits have not yet been confirmed as being as reliable as currently required analytical methods. Therefore, EPA is not allowing the use of kits in place of currently required analytical methods at this time.

Comment aa: Make visual evaluations standard.

Response aa: EPA has standard protocols for storm water sampling (the storm water sampling guidance can be obtained from EPA's Office of Water Resource Center at 202–260–7786) and the permit describes the examination procedures, parameters to be examined, meaning of results, etc.

Comment bb: Visual monitoring should be reduced commensurately in arid climates.

Response bb: EPA already allows permittees to document in their monitoring records that no discharge occurred during a monitoring quarter.

Annual Reporting

Comment cc: One option suggested by commenters was for an annual report, possibly using a standardized form, to be submitted to EPA detailing the permittee's SWPPP highlights and revisions/additions, inspections, compliance evaluations, visual monitoring results, etc. One comment against this option stated that the volume of data submitted would be too great for the Agency to evaluate. Other opponents to this option indicated that the reports would not contain enough information to evaluate SWPPP effectiveness, ensure water quality protection, or provide the information necessary to make long-term management plans. Commenters in support of the annual report concept held that it would provide a record of the permittee's commitment to storm water control, was better for evaluating SWPPP effectiveness, and would provide information to EPA to determine if sampling or a site inspection is needed.

Response cc: Information on SWPPP highlights and revisions/additions, inspections, compliance evaluations, visual monitoring results, etc. is already required to be documented in a facility's SWPPP, which, if deemed necessary, must be provided to EPA on demand. If no monitoring data were available, an annual report could be used to ensure that a facility is implementing its SWPPP. The reports could also be used to prioritize sites for inspection. However, EPA agrees that it would be very burdensome to review all the reports and very difficult to assess the effectiveness of a facility's SWPPP based on that review alone. The subjectivity inherent in annual reporting makes it an undesirable substitute for analytic monitoring. Documenting the kind of information in the annual report is already a SWPPP requirement and is, therefore, available to operators for assessing and improving their storm water programs. For these reasons, EPA will not require reports containing essentially the same information required in SWPPPs to be submitted in lieu of analytic monitoring.

Group Monitoring

Comment dd: Commenters also suggested group monitoring. In this option a consortium of like permittees would do sampling at one facility, possibly on a rotating basis. The sample results would represent all the facilities in the consortium. A variation of group monitoring is for the consortium to retain a consultant to do representative sampling and provide storm water program guidance and evaluations. Supporters of this concept said it may allow for comparisons of effectiveness of different SWPPP practices (*e.g.,* sweeping vs. catchment basin for solids control). One commenter pointed out that the feasibility of the group concept is suspect due to the fact that individual facilities may have different topography, soil and other natural conditions.

Response dd: EPA believes that technically valid BMP comparisons could be done under this type of program. However, it would be difficult and very resource-intensive for EPA to establish criteria for group eligibility and then monitor to ensure that groups met these criteria.

Watershed Monitoring

Comment ee: Commenters suggested conducting watershed monitoring rather than monitoring at the facility. This option involves replacing the monitoring of discrete storm water discharges with ambient receiving water monitoring on a watershed basis.

Response ee: Watershed monitoring is invaluable to making real conclusions regarding storm water impacts of water quality, and will be employed in making total maximum daily load (TMDL) determinations. However, watershed monitoring cannot replace facility-specific storm water discharge monitoring to determine the loads contributed by the facilities and to evaluate the effectiveness of the SWPPP.

Monitoring Only in Impaired Waters

Comment ff: Several commenters supported requiring monitoring only in impaired water bodies and for pollutants that cause the impairment.

Response ff: Although this option would focus attention on the problem water bodies and possible pollutant sources, EPA and a commenter point out that not all impaired water bodies and their impairments have been determined. The goal of EPA's storm water program is also to protect and maintain water quality, not just remediate impaired waters, so focusing on impaired waters only does not fulfill all the program's responsibilities.

Section VII Cost Estimates for Common Permit Requirements

Comment: EPA incorrectly estimated costs associated with the original MSGP. The new permit imposes even more costs. EPA must better estimate these costs, especially for small businesses. EPA should conduct a Regulatory Flexibility Analysis as well as perform a Small Business Regulatory Enforcement Fairness Act (SBREFA) consultation.

Response: The Regulatory Flexibility Act (RFA), as amended by the Small Business Regulatory Enforcement Fairness Act (SBREFA) generally requires an agency to prepare a regulatory flexibility analysis for any rule subject to notice and comment rulemaking requirements under the Administrative Procedure Act or any other statute. Under section 605(b) of the RFA, however, if the head of an agency certifies that a rule will not have a significant economic impact on a substantial number of small entities, the statute does not require the agency to prepare a regulatory flexibility analysis.

The MSGP–2000 provides facilities the option of obtaining a general permit rather than applying for individual permits; it does not extend coverage of the existing NPDES regulations. Therefore, the costs associated with obtaining a permit were already addressed when the NPDES regulations were issued. Furthermore, the MSGP–2000 is intended to reduce costs by providing a streamlined procedure for obtaining permit coverage. For these reasons, there was no requirement on EPA to conduct a separate analysis to support the MSGP–2000.

X. Economic Impact (Executive Order 12866)

Under Executive Order 12866 [58 FR 51735 (October 4, 1993)], the Agency must determine whether the regulatory action is ''significant'' and therefore subject to OMB review and the requirements of the Executive Order. The Order defines ''significant regulatory action'' as one that is likely to result in a rule that may have an annual effect on the economy of $100 million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or State, local, or tribal governments or communities; create a serious inconsistency or otherwise interfere with an action taken or planned by another agency; materially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in the Executive Order.

EPA has determined that the reissued MSGP is not a ''significant regulatory action'' under the terms of Executive Order 12866 and is therefore not subject to formal OMB review prior to proposal.

XI. Unfunded Mandates Reform Act

Section 201 of the Unfunded Mandates Reform Act (UMRA), Public Law 104–4, generally requires Federal agencies to assess the effects of their ''regulatory actions'' on State, local, and tribal governments and the private sector. UMRA uses the term ''regulatory actions'' to refer to regulations. (See, *e.g.,* UMRA section 201, ''Each agency shall * * * assess the effects of Federal regulatory actions * * * (other than to the extent that such regulations incorporate requirements specifically set forth in law)'' (emphasis added)). UMRA section 102 defines ''regulation'' by reference to 2 U.S.C. 658 which in turn defines ''regulation'' and ''rule'' by reference to section 601(2) of the Regulatory Flexibility Act (RFA). That section of the RFA defines ''rule'' as ''any rule for which the agency publishes a notice of proposed rulemaking pursuant to section 553(b) of [the Administrative Procedure Act (APA)], or any other law * * * ''

As discussed in the RFA section of this notice, NPDES general permits are not ''rules'' under the APA and thus not subject to the APA requirement to publish a notice of proposed rulemaking. NPDES general permits are also not subject to such a requirement under the CWA. While EPA publishes a notice to solicit public comment on draft general permits, it does so pursuant to the CWA section 402(a) requirement to provide ''an opportunity for a hearing.'' Thus, NPDES general permits are not ''rules'' for RFA or UMRA purposes.

EPA has determined that today's MSGP reissuance does not result in expenditures of $100 million or more for State, local and Tribal governments, in the aggregate, or the private sector in any one year.

The Agency also believes that the final MSGP will not significantly nor uniquely affect small governments. For UMRA purposes, ''small governments'' is defined by reference to the definition of ''small governmental jurisdiction'' under the RFA. (See UMRA section 102(1), referencing 2 U.S.C. 658, which references section 601(5) of the RFA.) ''Small governmental jurisdiction'' means governments of cities, counties, towns, etc., with a population of less than 50,000, unless the agency establishes an alternative definition.

Today's final MSGP also will not uniquely affect small governments because compliance with the final permit conditions affects small governments in the same manner as any other entities seeking coverage under the final permit.

XII. Paperwork Reduction Act

EPA has reviewed the requirements imposed on regulated facilities resulting from the final MSGP under the Paperwork Reduction Act of 1980, 44 U.S.C. 3501 *et seq.* The information collection requirements of the MSGP have already been approved in previous submissions made for the NPDES permit program under the provisions of the CWA.

XIII. Regulatory Flexibility Act

The Agency has determined that the final MSGP being published today is not subject to the Regulatory Flexibility Act (''RFA''), which generally requires an agency to conduct a regulatory flexibility analysis of any significant impact the rule will have on a substantial number of small entities. By its terms, the RFA only applies to rules subject to notice-and-comment rulemaking requirements under the Administrative Procedure Act (''APA'') or any other statute. Today's final MSGP is not subject to notice and comment requirements under the APA or any other statute because the APA defines ''rules'' in a manner that excludes permits. See APA section 551(4), (6), and (8).

APA section 553 does not require public notice and opportunity for comment for interpretative rules or general statements of policy. In addition to finalizing the new MSGP, today's notice repeats for the convenience of the reader an interpretation of existing regulations promulgated almost twenty years ago. The action would impose no new or additional requirements.

Authorization to Discharge Under the National Pollutant Discharge Elimination System

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 *et seq.*), operators of discharges associated with industrial activities that submit a complete Notice of Intent in accordance with Part 2.2 for a discharge that is located in an area specified in Part 1.1 and eligible for permit coverage under Part 1.2 are authorized to discharge pollutants to waters of the United States in accordance with the conditions and requirements set forth herein.

This permit becomes effective on October 30, 2000.

This permit and the authorization to discharge expire at midnight, October 30, 2005.

Signed and issued this 15th day of September, 2000.

Linda M. Murphy,

Director, Office of Ecosystem Protection, Region 1.

Signed and issued this 15th day of September, 2000.

Kathleen C. Callahan,

Director, Division of Environmental Planning and Protection, Region 2.

Signed and issued this 15th day of September, 2000.

Joseph T. Piotrowski,

Acting Director, Water Protection Division, Region 3.

Signed and issued this 12th day of September, 2000.

Douglas Mundrick,

Acting Deputy Division Director, Water Management Division, Region 4.

Signed and issued this 27th day of September, 2000.

Sam Becker,

Acting Director, Water Quality Protection Division, Region 6.

Signed and issued this 2d day of October, 2000.

Stephen S. Tuber,

Acting Assistant Regional Administrator, Office of Partnerships and Regulatory Assistance, Region 8.

Signed and issued this 28th day of September, 2000.

Alexis Strauss,

Director, Water Division, Region 9.

Signed and issued this 14th day of September, 2000.

Michael A. Bussell,

Deputy Director, Office of Water, Region 10.

NPDES Multi-Sector General Permits for Storm Water Discharges Associated With Industrial Activities

Table of Contents

Note: In the Spirit of the Agency's "Readable Regulations" policy, this permit was written as much as practicable in a more reader-friendly, plain language format that should make it easier for people less familiar with traditional EPA permits and regulations to read and understand the permit requirements. Terms like "you" and "your" are used to refer to the party(ies) that are operators of a discharge, applicants, permittees, etc. Terms like "must" are used instead of ''shall.'' Phrasing such as ''If you. * * * '' is used to identify conditions that may not apply to all permittees.

1. Coverage Under This Permit

1.1 Permit Area

The permit language is structured as if it were a single permit, with State, Indian country land or other area-specific conditions contained in Part 13. Permit coverage is actually provided by legally separate and distinctly numbered permits, all of which are contained herein, and which cover each of the areas listed in Parts 1.1.1 through 1.1.10.

Note: EPA can only provide permit coverage for areas and classes of discharges not within the scope of a State's NPDES authorization. For discharges not described in an area of coverage below, please contact the appropriate State NPDES permitting authority to obtain a permit.

1.1.1 EPA Region 1: CT, MA, ME, NH, RI, VT

The states of Connecticut, Rhode Island, and Vermont are the NPDES Permitting Authority for the majority of discharges within their respective states.

Permit No.	Areas of coverage/where EPA is permitting authority
CTR05*##I	Indian country lands within the State of Connecticut.
MAR05*###	Commonwealth of Massachusetts, except Indian country lands.
MAR05*##I	Indian country lands within the Commonwealth of Massachusetts.
MER05*###	State of Maine, except Indian country lands.
MER05*##I	Indian country lands within the State of Maine.
NHR05*###	State of New Hampshire.
RIR05*##I	Indian country lands within the State of Rhode Island.
VTR05*##F	Federal Facilities in the State of Vermont.

1.1.2 EPA Region 2: NJ, NY, PR, VI

The state of New York is the NPDES Permitting Authority for the majority of discharges within that state. New Jersey and the Virgin Islands are the NPDES Permitting Authority for all discharges within their respective states.

Permit No.	Areas of coverage/where EPA is permitting authority
PRR05*###	The Commonwealth of Puerto Rico.

1.1.3 EPA REGION 3: DE, DC, MD, PA, VA, WV

The state of Delaware is the NPDES Permitting Authority for the majority of discharges within that state. Maryland, Pennsylvania, and Virginia, West Virginia are the NPDES Permitting Authority for all discharges within these states.

Permit No.	Areas of coverage/where EPA is permitting authority
DCR05*###	The District of Columbia.
DER05*##F	Federal Facilities in the State of Delaware.

1.1.4 EPA Region 4: AL, FL, GA, KY, MS, NC, SC, TN

The states of Alabama, Florida, Mississippi, and North Carolina are the NPDES Permitting Authority for the majority of discharges within their respective states. Georgia, Kentucky, South Carolina and Tennessee are the NPDES Permitting Authority for all discharges within their respective states.

Permit No.	Areas of coverage/where EPA is permitting authority
ALR05*##I	Indian country lands within the State of Alabama.
FLR05*##I	Indian country lands within the State of Florida.
MSR05*##I	Indian country lands within the State of Mississippi.
NCR05*##I	Indian country lands within the State of North Carolina.

1.1.5 EPA Region 5: IL, IN, MI, MN, OH, WI

Coverage Not Available.

1.1.6 EPA Region 6: AR, LA, OK, TX, NM (Except See Region 9 for Navajo Lands, and See Region 8 for Ute Mountain Reservation Lands)

The states of Louisiana, Oklahoma, and Texas are the NPDES Permitting Authority for the majority of discharges within their respective states. Arkansas is the NPDES Permitting Authority for all discharges within that state.

Permit No.	Areas of coverage/where EPA is permitting authority
LAR05*##I	Indian country lands within the State of Louisiana.
NMR05*###	The State of New Mexico, except Indian country lands.
NMR05*##I	Indian country lands within the State of New Mexico, except Navajo Reservation Lands that are covered under Arizona permit AZR05*##I listed in Part 1.1.9 and Ute Mountain Reservation Lands that are covered under Colorado permit COR05*##I listed in Part 1.1.8.
OKR05*##I	Indian country lands within the State of Oklahoma.
OKR05*##F	Facilities in the State of Oklahoma not under the jurisdiction of the Oklahoma Department of Environmental Quality, except those on Indian country lands. EPA-jurisdiction facilities include SIC codes 1311, 1381, 1382, 1389 and 5171 and point source (but not non-point source) discharges associated with agricultural production, services, and silviculture.

Permit No.	Areas of coverage/where EPA is permitting authority
TXR05*##F	Facilities in the State of Texas not under the jurisdiction of the Texas Natural Resource Conservation Commission, except those on Indian country lands. EPA-jurisdiction facilities include SIC codes 1311, 1321, 1381, 1382, and 1389 (other than oil field service company ''home base'' facilities).
TXR05*##I	Indian country lands within the State of Texas.

1.1.7 EPA Region 7: IA, KS, MO, NE

Coverage Not Available.

1.1.8 EPA Region 8: CO, MT, ND, SD, WY, UT (Except See Region 9 for Goshute Reservation and Navajo Reservation Lands), the Ute Mountain Reservation in NM, and the Pine Ridge Reservation in NE

The states of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming are the NPDES Permitting Authority for the majority of discharges within their respective states.

Permit No.	Areas of coverage/where EPA is permitting authority
COR05*##F	Federal Facilities in the State of Colorado, except those located on Indian country lands which are covered under Colorado permit CORO5*##I below.
COR05*##I	Indian country lands within the State of Colorado, including the portion of the Ute Mountain Reservation located in New Mexico.
MTR05*##I	Reserved.
NDR05*##I	Indian country lands within the State of North Dakota, including that portion of the Standing Rock Reservation located in South Dakota except Indian country within the former boundaries of the Lake Traverse Reservation that is covered under South Dakota permit SDR05*##I listed below.
SDR05*##I	Indian country lands within the State of South Dakota, including the portion of the Pine Ridge Reservation located in Nebraska and the portion of Indian country within the former boundaries of the Lake Traverse Reservation located in North Dakota except for the Standing Rock Reservation that is covered under North Dakota permit NDR05*##I listed above.
UTR05*##I	Indian country lands within the State of Utah, except Goshute and Navajo Reservation lands that are covered under Arizona permit AZR05*##I (Goshute) listed in Part 1.1.9 and Nevada permit NVR05*##I (Navajo) listed in Part 1.1.9.
WYR05*##I	Indian country lands within the State of Wyoming.

1.1.9 EPA Region 9: CA, HI, NV, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Goshute Reservation in UT and NV, the Navajo Reservation in UT, NM, and AZ, the Duck Valley Reservation in ID, and the Fort McDermitt Reservation in OR

The states of California and Nevada are the NPDES Permitting Authority for the majority of discharges within their respective states. Hawaii is the NPDES Permitting Authority for all discharges within that state.

Permit No.	Areas of coverage/where EPA is permitting authority
ASR05*###	The Island of American Samoa.
AZR05*###	The State of Arizona, except Indian country lands.
AZR05*##I	Indian country lands within the State of Arizona, including Navajo Reservation lands in New Mexico and Utah.
CAR05*##I	Indian country lands within the State of California.
GUR05*###	The Island of Guam.
JAR05*###	Johnston Atoll.
MWR05*###	Midway Island and Wake Island.
NIR05*###	Commonwealth of the Northern Mariana Islands.
NVR05*##I	Indian country lands within the State of Nevada, including the Duck Valley Reservation in Idaho, the Fort McDermitt Reservation in Oregon and the Goshute Reservation in Utah.

1.1.10 Region 10: AK, ID (Except See Region 9 for Duck Valley Reservation Lands), OR (Except See Region 9 for Fort McDermitt Reservation), WA

The states of Oregon and Washington are the NPDES Permitting Authority for the majority of discharges within their respective states. The 1995 Multi-Sector General Permit was issued in the State of Alaska on February 9, 1996 (61 FR 5247) and the terms and conditions of the 1995 permit are effective for facilities in Alaska through February 9, 2001. EPA will reissue this permit for the State of Alaska at a future date.

Permit No.	Areas of coverage/where EPA is permitting authority
AKR05*##I	Indian country lands within Alaska.
IDR05*###	The State of Idaho, except Indian country lands.
IDR05*##I	Indian country lands within the State of Idaho, except Duck Valley Reservation lands which are covered under Nevada permit NVR05*##I listed in Part 1.1.9.
ORR05*##I	Indian country lands within the State of Oregon except Fort McDermitt Reservation lands that are covered under Nevada permit NVR05*##I listed in Part 1.1.9.
WAR05*##I	Indian country lands within the State of Washington.
WAR05*##F	Federal Facilities in the State of Washington, except those located on Indian country lands.

1.2 Eligibility

You must maintain permit eligibility to discharge under this permit. Any discharges that are not compliant with the eligibility conditions of this permit are not authorized by the permit and you must either apply for a separate permit to cover those ineligible discharges or take necessary steps to make the discharges eligible for coverage.

1.2.1 Facilities Covered

Your permit eligibility is limited to discharges from facilities in the ''sectors'' of industrial activity based on Standard Industrial Classification (SIC) codes and Industrial Activity Codes summarized in Table 1–1. References to ''sectors'' in this permit (*e.g.*, sector-specific monitoring requirements, *etc.*) refer to these sectors.

TABLE 1–1.—SECTORS OF INDUSTRIAL ACTIVITY COVERED BY THIS PERMIT

SIC code or activity code [1]	Activity represented
Sector A: Timber Products	
2411	Log Storage and Handling (Wet deck storage areas only authorized if no chemical additives are used in the spray water or applied to the logs).
2421	General Sawmills and Planning Mills.
2426	Hardwood Dimension and Flooring Mills.
2429	Special Product Sawmills, Not Elsewhere Classified.
2431–2439 (except 2434)	Millwork, Veneer, Plywood, and Structural Wood (see Sector W).
2448, 2449	Wood Containers.
2451, 2452	Wood Buildings and Mobile Homes.
2491	Wood Preserving.
2493	Reconstituted Wood Products.
2499	Wood Products, Not Elsewhere Classified.
Sector B: Paper and Allied Products	
2611	Pulp Mills.
2621	Paper Mills.
2631	Paperboard Mills.
2652–2657	Paperboard Containers and Boxes.
2671–2679	Converted Paper and Paperboard Products, Except Containers and Boxes.
Sector C: Chemical and Allied Products	
2812–2819	Industrial Inorganic Chemicals.
2821–2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass.
2833–2836	Medicinal chemicals and botanical products; pharmaceutical preparations; in vitro and in vivo diagnostic substances; biological products, except diagnostic substances.
2841–2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations.
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products.
2861–2869	Industrial Organic Chemicals.
2873–2879	Agricultural Chemicals.
2873	Facilities that Make Fertilizer Solely from Leather Scraps and Leather Dust.
2891–2899	Miscellaneous Chemical Products.
3952 (limited to list)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors.
Sector D: Asphalt Paving and Roofing Materials and Lubricants	
2951, 2952	Asphalt Paving and Roofing Materials.
2992, 2999	Miscellaneous Products of Petroleum and Coal.
Sector E: Glass Clay, Cement, Concrete, and Gypsum Products	
3211	Flat Glass.
3221, 3229	Glass and Glassware, Pressed or Blown.
3231	Glass Products Made of Purchased Glass.
3241	Hydraulic Cement.
3251–3259	Structural Clay Products.
3261–3269	Pottery and Related Products.
3271–3275	Concrete, Gypsum and Plaster Products.
3291–3299	Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products.
Sector F: Primary Metals	
3312–3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills.
3321–3325	Iron and Steel Foundries.
3331–3339	Primary Smelting and Refining of Nonferrous Metals.
3341	Secondary Smelting and Refining of Nonferrous Metals.
3351–3357	Rolling, Drawing, and Extruding of Nonferrous Metals.

TABLE 1–1.—SECTORS OF INDUSTRIAL ACTIVITY COVERED BY THIS PERMIT—Continued

SIC code or activity code [1]	Activity represented
3363–3369	Nonferrous Foundries (Castings).
3398, 3399	Miscellaneous Primary Metal Products.
Sector G: Metal Mining (Ore Mining and Dressing)	
1011	Iron Ores.
1021	Copper Ores.
1031	Lead and Zinc Ores.
1041, 1044	Gold and Silver Ores.
1061	Ferroalloy Ores, Except Vanadium.
1081	Metal Mining Services.
1094, 1099	Miscellaneous Metal Ores.
Sector H: Coal Mines and Coal Mining Related Facilities	
1221–1241	Coal Mines and Coal Mining-Related Facilities.
Sector I: Oil and Gas Extraction and Refining	
1311	Crude Petroleum and Natural Gas.
1321	Natural Gas Liquids.
1381–1389	Oil and Gas Field Services.
2911	Petroleum Refineries.
Sector J: Mineral Mining and Dressing	
1411	Dimension Stone.
1422–1429	Crushed and Broken Stone, Including Rip Rap.
1442, 1446	Sand and Gravel
1455, 1459	Clay, Ceramic, and Refractory Materials.
1474–1479	Chemical and Fertilizer Mineral Mining.
1481	Nonmetallic Minerals Services, Except Fuels.
1499	Miscellaneous Nonmetallic Minerals, Except Fuels.
Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities	
HZ	Hazardous Waste Treatment Storage or Disposal.
Sector L: Landfills and Land Application Sites	
LF	Landfills, Land Application Sites, and Open Dumps.
Sector M: Automobile Salvage Yards	
5015	Automobile Salvage Yards.
Sector N: Scrap Recycling Facilities	
5093	Scrap Recycling Facilities.
Sector O: Steam Electric Generating Facilities	
SE	Steam Electric Generating Facilities.
Sector P: Land Transportation and Warehousing	
4011, 4013	Railroad Transportation.
4111–4173	Local and Highway Passenger Transportation.
4212–4231	Motor Freight Transportation and Warehousing.
4311	United States Postal Service.
5171	Petroleum Bulk Stations and Terminals.
Sector Q: Water Transportation	
4412–4499	Water Transportation.
Sector R: Ship and Boat Building or Repairing Yards	
3731,3732	Ship and Boat Building or Repairing Yards.
Sector S: Air Transportation	
4512–4581	Air Transportation Facilities.

TABLE 1–1.—SECTORS OF INDUSTRIAL ACTIVITY COVERED BY THIS PERMIT—Continued

SIC code or activity code [1]	Activity represented
Sector T: Treatment Works	
TW	Treatment Works.
Sector U: Food and Kindred Products	
2011–2015	Meat Products.
2021–2026	Dairy Products.
2032	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties.
2041–2048	Grain Mill Products.
2051–2053	Bakery Products.
2061–2068	Sugar and Confectionery Products.
2074–2079	Fats and Oils.
2082–2087	Beverages.
2091–2099	Miscellaneous Food Preparations and Kindred Products.
2111–2141	Tobacco Products.
Sector V: Textile Mills, Apparel, and Other Fabric Product Manufacturing, Leather and Leather Products	
2211–2299	Textile Mill Products.
2311–2399	Apparel and Other Finished Products Made From Fabrics and Similar Materials.
3131–3199 (except 3111)	Leather and Leather Products, except Leather Tanning and Finishing (see Sector Z).
Sector W: Furniture and Fixtures	
2434	Wood Kitchen Cabinets.
2511–2599	Furniture and Fixtures.
Sector X: Printing and Publishing	
2711–2796	Printing, Publishing, and Allied Industries.
Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries.	
3011	Tires and Inner Tubes.
3021	Rubber and Plastics Footwear.
3052, 3053	Gaskets, Packing, and Sealing Devices and Rubber and Plastics Hose and Belting.
3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified.
3081–3089	Miscellaneous Plastics Products.
3931	Musical Instruments.
3942–3949	Dolls, Toys, Games and Sporting and Athletic Goods.
3951–3955 (except 3952 facilities as specified in Sector C).	Pens, Pencils,and Other Artists' Materials.
3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal.
3991–3999	Miscellaneous Manufacturing Industries.
3411–3499	Fabricated Metal Products, Except Machinery and Transportation Equipment.
3911–3915	Jewelry, Silverware, and Plated Ware.
Sector AB: Transportation Equipment, Industrial or Commercial Machinery	
3511–3599 (except 3571–3579)	Industrial and Commercial Machinery (except Computer and Office Equipment) (see Sector AC).
3711–3799 (except 3731, 3732)	Transportation Equipment (except Ship and Boat Building and Repairing) (see Sector R).
Sector AC: Electronic, Electrical, Photographic, and Optical Goods	
3571–3579	Computer and Office Equipment.
3612–3699	Electronic, Electrical Equipment and Components, except Computer Equipment.
3812	Measuring, Analyzing and Controlling Instrument; Photographic and Optical Goods.
Sector AD: Non-Classified Facilities	
N/A	Other storm water discharges designated by the Director as needing a permit (see 40 CFR 122.26(g)(1)(I)) or any facility discharging storm water associated with industrial activity not described by any of Sectors A–AC. **Note:** Facilities may not elect to be covered under Sector AD. Only the Director may assign a facility to Sector AD.

[1] A complete list of SIC codes (and conversions from the newer North American Industry Classification System (NAICS)) can be obtained from the Internet at *http://www.census.gov/epcd/www/naics.html* or in paper form from various locations in the document entitled ''Handbook of Standard Industrial Classifications,'' Office of Management and Budget, 1987. Industrial activity codes are provided on the Multi-Sector General Permit Notice of Intent (NOI) application form (EPA Form Number 3510–6).

1.2.1.1 *Co-located Activities.* If you have co-located industrial activities on-site that are described in a sector(s) other than your primary sector, you must comply with all other applicable sector-specific conditions found in Part 6 for the co-located industrial activities. The extra sector-specific requirements are applied only to those areas of your facility where the extra-sector activities occur. An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the storm water regulations, and identified by the MSGP–2000 SIC code list. For example, unless you are actually hauling substantial amounts of freight or materials with your own truck fleet or are providing a trucking service to outsiders, simple maintenance of vehicles used at your facility is unlikely to meet the SIC code group 42 description of a motor freight transportation facility. Even though Sector P may not apply, the runoff from your vehicle maintenance facility would likely still be considered storm water associated with industrial activity. As such, your SWPPP must still address the runoff from the vehicle maintenance facility—although not necessarily with the same degree of detail as required by Sector P—but you would not be required to monitor as per Sector P.

If runoff from co-located activities commingles, you must monitor the discharge as per the requirements of all applicable sectors (regardless of the actual location of the discharge). If you comply with all applicable requirements from all applicable sections of Part 6 for the co-located industrial activities, the discharges from these co-located activities are authorized by this permit.

1.2.2 Discharges Covered

1.2.2.1 *Allowable Storm Water Discharges.* Subject to compliance with the terms and conditions of this permit, you are authorized to discharge pollutants in:

1.2.2.1.1 Discharges of storm water runoff associated with industrial activities as defined in 40 CFR 122.26 (b)(14)(i–ix and xi) from the sectors of industry described in Table 1–1, and that are specifically identified by outfall or discharge location in the Storm Water Pollution Prevention Plan (see Part 4.2.2.3.7);

1.2.2.1.2 Non-storm water discharges as noted in Part 1.2.2.2 or otherwise specifically allowed by the permit;

1.2.2.1.3 Discharges subject to an effluent guideline listed in Table 1–2 that also meet all other eligibility requirements of the permit. Interim coverage is also available for discharges subject to a new storm water effluent limitation guideline promulgated after the effective date of this permit. Discharges subject to a New Source Performance Standard (NSPS) effluent guideline must also meet the requirements of Part 1.2.4.;

1.2.2.1.4 Discharges designated by the Director as needing a storm water permit under 40 CFR 122.26(a)(1)(v) or under 122.26(a)(9) and 122.26(g)(1)(i); and

1.2.2.1.5 Discharges comprised of a discharge listed in Parts 1.2.2.1.1 to 1.2.2.1.4 above commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

TABLE 1–2.—EFFLUENT GUIDELINES APPLICABLE TO DISCHARGES THAT MAY BE ELIGIBLE FOR PERMIT COVERAGE

Effluent guideline	New source performance standards included in effluent guidelines?	Sectors with affected facilities
Runoff from material storage piles at cement manufacturing facilities [40 CFR Part 411 Subpart C (established February 23, 1977)].	Yes	E
Contaminated runoff from phosphate fertilizer manufacturing facilities [40 CFR Part 418 Subpart A (established April 8, 1974)].	Yes	C
Coal pile runoff at steam electric generating facilities [40 CFR Part 423 (established November 19, 1982)]	Yes	O
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas [40 CFR Part 429, Subpart I (established January 26, 1981)].	Yes	A
Mine dewatering discharges at crushed stone mines [40 CFR part 436, Subpart B]	No	J
Mine dewatering discharges at construction sand and gravel mines [40 CFR part 436, Subpart C]	No	J
Mine dewatering discharges at industrial sand mines [40 CFR part 436, Subpart D]	No	J
Runoff from asphalt emulsion facilities [40 CFR Part 443 Subpart A (established July 24, 1975)]	Yes	D
Runoff from landfills, [40 CFR Part 445, Subpart A and B (established February 2, 2000]	Yes	K & L

1.2.2.2 *Allowable Non-Storm Water Discharges.* You are also authorized for the following non-storm water discharges, provided the non-storm water component of your discharge is in compliance with Part 4.4.2 (non-storm water discharges):

1.2.2.2.1 Discharges from fire fighting activities;

1.2.2.2.2 Fire hydrant flushings;

1.2.2.2.3 Potable water including water line flushings;

1.2.2.2.4 Uncontaminated air conditioning or compressor condensate;

1.2.2.2.5 Irrigation drainage;

1.2.2.2.6 Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;

1.2.2.2.7 Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

1.2.2.2.8 Routine external building wash down which does not use detergents;

1.2.2.2.9 Uncontaminated ground water or spring water;

1.2.2.2.10 Foundation or footing drains where flows are not contaminated with process materials such as solvents;

1.2.2.2.11 Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but NOT intentional discharges from the cooling tower (*e.g.*, "piped" cooling tower blowdown or drains).

1.2.3 Limitations on Coverage

1.2.3.1 *Prohibition on Discharges Mixed with Non-Storm Water.* You are not authorized for discharges that are mixed with sources of non-storm water. This exclusion does not apply to discharges identified in Part 1.2.2.2, provided the discharges are in compliance with Part 4.4.2 (Storm

Water Pollution Prevention Plan requirements for authorized non-storm water discharges), and to any discharge explicitly authorized by the permit.

1.2.3.2 *Storm Water Discharges Associated with Construction Activity.* You are not authorized for storm water discharges associated with construction activity as defined in 40 CFR 122.26(b)(14)(x) or 40 CFR 122.26(b)(15).

1.2.3.3 *Discharges Currently or Previously Covered by Another Permit.* You are not authorized for the following:

1.2.3.3.1 Storm water discharges associated with industrial activity that are currently covered under an individual permit or an alternative general permit.

1.2.3.3.2 Discharges previously covered by an individual permit or alternative general permit (except the 1992 ''Baseline'' or the 1995 Multi-Sector NPDES General Permits for Storm Water Discharges Associated With Industrial Activity) that has expired, or been terminated at the request of the permittee unless:

1.2.3.3.2.1 The individual permit did not contain numeric water quality-based limitations developed for the storm water component of the discharge; and

1.2.3.3.2.2 The permittee includes any specific BMPs for storm water required under the individual permit in the SWPPP required under Part 4 of this permit.

1.2.3.3.3 Storm water discharges associated with industrial activity from facilities where any NPDES permit has been or is in the process of being denied, terminated, or revoked by the Director (other than in a replacement permit issuance process). Upon request, the Director may waive this exclusion if operator of the facility has since passed to a different owner/operator and new circumstances at the facility justify a waiver.

1.2.3.4 *Discharges Subject to Effluent Limitations Guidelines.* You are not authorized for discharges subject to any effluent limitation guideline that is not included in Table 1–2. For discharges subject to a New Source Performance Standard (NSPS) effluent guideline identified in Table 1–2, you must comply with Part 1.2.4 prior to being eligible for permit coverage.

1.2.3.5 *Discharge Compliance with Water Quality Standards.* You are not authorized for storm water discharges that the Director determines will cause, or have reasonable potential to cause or contribute to, violations of water quality standards. Where such determinations have been made, the Director may notify you that an individual permit application is necessary in accordance with Part 9.12. However, the Director may authorize your coverage under this permit after you have included appropriate controls and implementation procedures designed to bring your discharges into compliance with water quality standards in your Storm Water Pollution Prevention Plan.

1.2.3.6 *Endangered and Threatened Species or Critical Habitat Protection.* You are not authorized for discharges that do not avoid unacceptable effects on Federally listed endangered and threatened (''listed'') species or designated critical habitat (''critical habitat'').

Caution: Additional endangered and threatened species have been listed and critical habit designated since the 1995 MSGP was issued. Even if you were previously covered by the 1995 MSGP, you must determine eligibility for this permit through the processes described below and in Addendum A. Where applicable, you may incorporate information from your previous endangered species analysis in your documentation of eligibility for this permit.

1.2.3.6.1 Coverage under this permit is available only if your storm water discharges, allowable non-storm water discharges, and discharge-related activities are not likely to jeopardize the continued existence of any species that are listed as endangered or threatened (''listed'') under the ESA or result in the adverse modification or destruction of habitat that is designated or proposed to be designated as critical under the ESA (''critical habitat''). Submission of a signed NOI will be deemed to also constitute your certification of eligibility.

1.2.3.6.2 ''Discharge-related activities'' include: activities which cause, contribute to, or result in storm water point source pollutant discharges; and measures to control storm water discharges including the siting, construction and operation of best management practices (BMPs) to control, reduce or prevent storm water pollution.

1.2.3.6.3 *Determining Eligibility:* You must use the most recent Endangered and Threatened Species County-Species List available from EPA and the process in Addendum A (ESA Screening Process) to determine your eligibility *PRIOR* to submittal of your NOI. As of the effective date of this permit, the most current version of the List is located on the EPA Office of Water Web site at *http://www.epa.gov/owm/esalst2.htm.* You must meet one or more of the criteria in 1.2.3.6.3.1 through 1.2.3.6.3.5 below for the entire term of coverage under the permit. You must include a certification of eligibility and supporting documentation on the eligibility determination in your Storm Water Pollution Prevention Plan.

1.2.3.6.3.1 *Criteria A:* No endangered or threatened species or critical habitat are in proximity to your facility or the point where authorized discharges reach the receiving water; or

1.2.3.6.3.2 *Criteria B:* In the course of a separate federal action involving your facility (*e.g.*, EPA processing request for an individual NPDES permit, issuance of a CWA § 404 wetlands dredge and fill permit, *etc.*), formal or informal consultation with the Fish and Wildlife Service and/or the National Marine Fisheries Service (the ''Services'') under section 7 of the Endangered Species Act (ESA) has been concluded and that consultation:

(a) Addressed the effects of your storm water discharges, allowable non-storm water discharges, and discharge-related activities on listed species and critical habitat and

(b) The consultation resulted in either a no jeopardy opinion or a written concurrence by the Service on a finding that your storm water discharges, allowable non-storm water discharges, and discharge-related activities are not likely to adversely affect listed species or critical habitat; or

1.2.3.6.3.3 *Criteria C:* Your activities are authorized under section 10 of the ESA and that authorization addresses the effects of your storm water discharges, allowable non-storm water discharges, and discharge-related activities on listed species and critical habitat; or

1.2.3.6.3.4 *Criteria D:* Using best judgement, you have evaluated the effects of your storm water discharges, allowable non-storm water discharges, and discharge-related activities on listed endangered or threatened species and critical habitat and do not have reason to believe listed species or critical habitat would be adversely affected.

1.2.3.6.3.5 *Criteria E:* Your storm water discharges, allowable non-storm water discharges, and discharge-related activities were already addressed in another operator's certification of eligibility under Part 1.2.3.6.3.1 through 1.2.3.6.3.4 which included your facility's activities. By certifying eligibility under this Part, you agree to comply with any measures or controls upon which the other operator's certification was based;

1.2.3.6.4 The Director may require any permittee or applicant to provide documentation of the permittee or applicant's determination of eligibility for this permit using the procedures in Addendum A where EPA or the Fish and Wildlife and/or National Marine Fisheries Services determine that there is a potential impact on endangered or threatened species or a critical habitat.

1.2.3.6.5 You are not authorized to discharge if the discharges or discharge-related activities cause a prohibited ''take'' of endangered or threatened species (as defined under section 3 of the Endangered Species Act and 50 CFR 17.3), unless such takes are authorized under sections 7 or 10 of the Endangered Species Act.

1.2.3.6.6 You are not authorized for any discharges where the discharges or discharge-related activities are likely to jeopardize the continued existence of any species that are listed as endangered or threatened under the ESA or result in the adverse modification or destruction of habitat that is designated or proposed to be designated as critical under the ESA.

1.2.3.6.7 The Endangered Species Act (ESA) provisions upon which part 1.2.3.6 is based do not apply to state-issued permits. Should administration of all or a portion of this permit be transfer to a State as a result of that State assuming the NPDES program pursuant to Clean Water Act § 402(b), Part 1.2.3.6 will not apply to any new NOIs submitted to the State after the State assumes administration of the permit (unless otherwise provided in the state program authorization agreement). Likewise, any other permit conditions based on Part 1.2.3.6 will no longer apply to new NOIs accepted by the NPDES-authorized state.

1.2.3.7 *Storm water Discharges and Storm Water Discharge-Related Activities with Unconsidered Adverse Effects on Historic Properties.*

1.2.3.7.1 *Determining Eligibility:* In order to be eligible for coverage under this permit, you must be in compliance with the National Historic Preservation Act. Your discharges may be authorized under this permit only if:

1.2.3.7.1.1 *Criteria A:* Your storm water discharges, allowable non-storm water discharges, and discharge-related activities do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior; or

1.2.3.7.1.2 *Criteria B:* You have obtained and are in compliance with a written agreement with the State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) that outlines all measures you will undertake to mitigate or prevent adverse effect to the historic property.

1.2.3.7.2 Addendum B of this permit provides guidance and references to assist you with determining your permit eligibility concerning this provision.

1.2.3.8 *Discharges to Water Quality-Impaired or Water Quality-Limited Receiving Waters.*

1.2.3.8.1 You are not authorized to discharge if your discharge is prohibited under 40 CFR 122.4(i).

1.2.3.8.2 You are not authorized to discharge any pollutant into any water for which a Total Maximum Daily Load (TMDL) has been either established or approved by the EPA unless your discharge is consistent with that TMDL.

1.2.3.9 *Storm Water Discharges Subject to Anti-degradation Water Quality Standards.* You are not authorized for discharges that do not comply with your State or Tribe's anti-degradation policy for water quality standards. State and Tribal anti-degradation policies can be obtained from the appropriate State or Tribal environmental office or their Internet sites.

1.2.4 Discharges Subject to New Source Performance Standards (NSPS)[1 2]

1.2.4.1 *Documentation of New Source Review.* If you have a discharge(s) subject to a NSPS effluent guideline, you must obtain and retain the following on site prior to the submittal of your Notice of Intent:

1.2.4.1.1 Documentation from EPA of ''No Significant Impact'' or

1.2.4.1.2 A completed Environmental Impact Statement in accordance with an environmental review conducted by EPA pursuant to 40 CFR 6.102(a)(6).

1.2.4.2 *Initiating a New Source Review.* If the Agency's decision has not been obtained, you may use the format and procedures specified in Addendum C to submit information to EPA to initiate the process of the environmental review.

To maintain eligibility, you must implement any mitigation required of the facility as a result of the National Environmental Policy Act (NEPA) review process. Failure to implement mitigation measures upon which the Agency's NEPA finding is based is grounds for termination of permit coverage.

1.2.4.3 *NEPA Requirements after State Assumption of this Permit.* The National Environmental Policy Act (NEPA) provisions upon which part 1.2.4 is based do not apply to state-issued permits. Should administration of all or a portion of this permit be transfer to a State as a result of that State assuming the NPDES program pursuant to Clean Water Act § 402(b), Part 1.2.4 will not apply to any new NOIs submitted to the State after the State assumes administration of the permit. Likewise, any other permit conditions based on Part 1.2.4 will no longer apply to new NOIs accepted by the NPDES-authorized state.

1.3 How To Obtain Authorization Under This Permit

1.3.1 Basic Eligibility

You may be authorized under this permit only if you have a discharge of storm water associated with industrial activity from your facility. In order to obtain authorization under this permit, you must:

1.3.1.1 Meet the Part 1.2 eligibility requirements; and

1.3.1.2 Develop and implement a Storm Water Pollution Prevention Plan (SWPPP) (see definition in Part 12) according to the requirements in Part 4 of this permit.

1.3.1.3 Submit a complete Notice of Intent (NOI) in accordance with the requirements of Part 2 of this permit. Any new operator at a facility, including those who replace an operator who has previously obtained permit coverage, must submit an NOI to be covered for discharges for which they are the operator.

1.3.2 Effective Date of Permit Coverage

Unless notified by the Director to the contrary, if you submit a correctly completed NOI in accordance with the requirements of this permit, you are authorized to discharge under the terms and conditions of this permit two (2) days after the date the NOI is postmarked (but in no event, earlier than the effective date of the permit). The Director may deny coverage under this permit and require submission of an application for an individual NPDES permit based on a review of your NOI or other information (see Part 9.12). Authorization to discharge is not automatically granted two days after the NOI is mailed if your NOI is materially incomplete (*e.g.*, critical information left off, NOI unsigned, *etc.*) or if your discharge(s) is not eligible for coverage by the permit.

[1] NSPS apply only to discharges from those facilities or installations that were constructed after the promulgation of NSPS. For example, storm water discharges from areas where the production of asphalt paving and roofing emulsions occurs are subject to NSPS only if the asphalt emulsion facility was constructed after July 24, 1975.

[2] The provisions specified in Part 1.2.2.3 and Part 1.2.4 related to documenting New Source reviews are requirements of Federal programs under the National Environmental Policy Act of 1969 and will not apply to such facilities in the event that authority for the NPDES program has been assumed by the State/Tribe agency and administration of this permit has been transferred to the State/Tribe.

1.4 Terminating Coverage

1.4.1 Submitting a Notice of Termination

If you wish to terminate coverage under this permit, you must submit a Notice of Termination (NOT) in accordance with Part 11 of this permit. You must continue to comply with this permit until you submit an NOT. Your authorization to discharge under the permit terminates at midnight of the day the NOT is signed.

1.4.2 When to Submit an NOT

You must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

1.4.2.1 A new owner/operator has assumed responsibility for the facility

1.4.2.2 You have ceased operations at the facility and there no longer are discharges of storm water associated with industrial activity from the facility and you have already implemented necessary sediment and erosion controls as required by Part 4.2.7.2.2.1

1.4.3 Discharges After the NOT Is Submitted

Enforcement actions may be taken if you submit an NOT without meeting one or more of these conditions, unless you have obtained coverage under an alternate permit or have satisfied the requirements of Part 1.5.

1.5 Conditional Exclusion for No Exposure

If you are covered by this permit, but later are able to file a ''no exposure'' certification to be excluded from permitting under 40 CFR 122.26(g), you are no longer authorized by nor required to comply with this permit. If you are no longer required to have permit coverage due to a ''no exposure'' exclusion, you are not required to submit a Notice of Termination.

2. Notice of Intent Requirements

2.1 Notice of Intent (NOI) Deadlines

Your NOI must be submitted in accordance with the deadlines in Table 2–1. You must meet all applicable eligibility conditions of Part 1.2 before you submit your NOI.

TABLE 2.–1—DEADLINES FOR NOI SUBMITTAL

Category	Deadline
1. Existing discharges covered under the 1995 MSGP (see also Part 2.1.2—Interim Coverage).	December 29, 2000.
2. New discharges	Two (2) days prior to commencing operation of the facility with discharges of storm water associated with industrial activity.
3. New owner/operator of existing discharges.	Two (2) days prior to taking operational control of the facility.
4. Continued coverage when the permit expires in 2005.	See Part 9.2

Only one NOI need be submitted to cover all of your activities at the facility (*e.g.*, you do not need to submit a separate NOI for each separate type of industrial activity located at a facility or industrial complex, provided your SWPPP covers each area for which you are an operator).

2.1.1 Submitting a Late NOI

You are not prohibited from submitting an NOI after the dates provided in Table 2–1. If a late NOI is submitted, your authorization is only for discharges that occur after permit coverage is granted. The Agency reserves the right to take appropriate enforcement actions for any unpermitted discharges.

2.1.2 Interim Permit Coverage for 1995 MSGP Permittees

If you had coverage for your facility under the 1995 MSGP, you may be eligible for continued coverage under this permit on an interim basis.

2.1.2.1 *Discharges Authorized Under the 1995 MSGP*. If permit coverage for your facility under the 1995 MSGP was effective as of the date the 1995 MSGP expired (or the date this permit replaced the 1995 MSGP if earlier), your authorization is automatically continued into this replacement permit on an interim basis for up to ninety (90) days from the effective date of the permit. Interim coverage will terminate earlier than the 90 days when an NOI has been submitted and coverage either granted or denied; or after submittal of an NOT.

2.1.2.2 *Discharges Authorized Under the 1995 MSGP, But Not Clearly Eligible for Coverage Under This Permit*. If you were previously covered by the 1995 MSGP, but cannot meet (or cannot immediately determine if you meet) the eligibility requirements of this permit, you may nonetheless be authorized under this permit for a period not to exceed 270 days from the date this permit is published in the **Federal Register**, provided you submit an application for an alternative permit within 90 days from the permit publication date.

2.1.2.3 *Interim Coverage Permit Requirements*. While you are operating under interim coverage status, you must:

2.1.2.3.1 Submit a complete NOI (see Part 2.2) by the deadlines listed in Table 2–1 or Part 2.1.2.2 above.

2.1.2.3.2 Comply with the terms and conditions of the 1995 MSGP.

2.1.2.3.3 Update your Storm Water Pollution Prevention Plan to comply with the requirements of this permit within 90 days after the effective date of this permit.

2.2 Contents of Notice of Intent (NOI)

Your NOI for coverage under this permit must include the following information:

2.2.1 Permit Selection

2.2.1.1 If you were covered under the previous MSGP, provide the permit number assigned to your facility.

2.2.2 Owner/Operator Information

2.2.2.1 The name, address, and telephone number of the operator (*e.g.*, your company, etc.) filing the NOI for permit coverage;

2.2.3 Facility Information

2.2.3.1 The name (or other identifier), address, county, and latitude/longitude of the facility for which the NOI is submitted;

2.2.3.2 An indication of whether you are a Federal, State, Tribal, private, or other public entity;

2.2.3.3 An indication of whether the facility is located on Indian country lands;

2.2.3.4 Certification that a Storm Water Pollution Prevention Plan (SWPPP) meeting the requirements of Part 4 has been developed (including attaching a copy of this permit to the plan;

2.2.3.5 The name of the receiving water(s);

2.2.3.6 The name of the municipal operator if the discharge is through a municipal separate storm sewer system, unless you are the owner/operator of that municipal separate storm sewer system;

2.2.3.7 Identification of applicable sector(s) in this permit, as designated in Table 1–1, that cover the discharges associated with industrial activity you wish to cover under this permit;

2.2.3.8 Up to four 4-digit Standard Industrial Classification (SIC) codes or the 2-letter Activity Codes for hazardous waste treatment, storage, or disposal activities (HZ); land/disposal facilities that receive or have received any industrial waste (LF); steam electric power generating facilities (SE); or treatment works treating domestic sewage (TW) that best represent the principal products produced or services rendered by your facility and major co-located activities;

2.2.4 Eligibility Screening

2.2.4.1 Based on the instructions in Addendum A, whether any listed or proposed threatened or endangered species, or designated critical habitat, are in proximity to the storm water discharges or storm water discharge-related activities to be covered by this permit;

2.2.4.2 Whether any historic property listed or eligible for listing on the National Register of Historic Places is located on the facility or in proximity to the discharge;

2.2.4.3 A signed and dated certification, signed by a authorized representative of your facility and maintained with your SWPPP, as detailed in Part 9.7 that certifies the following:

''I certify under penalty of law that I have read and understand the Part 1.2 eligibility requirements for coverage under the multi-sector storm water general permit including those requirements relating to the protection of endangered or threatened species or critical habitat. To the best of my knowledge, the storm water and allowable non-storm discharges authorized by this permit (and discharged related activities), pose no jeopardy to endangered or threatened species or critical habitat, or are otherwise eligible for coverage under Part 1.2.3.6 of the permit. To the best of my knowledge, I further certify that such discharges and discharge related activities do not have an effect on properties listed or eligible for listing on the National Register or Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage under Part 1.2.3.7 of the permit. I understand that continued coverage under the multi-sector storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.2''

2.3 Use of NOI Form

You must submit the information required under Part 2.2 on the latest version of the NOI form (or photocopy thereof) contained in Addendum D. Your NOI must be signed and dated in accordance with Part 9.7 of this permit.

Note: If EPA notifies dischargers (either directly, by public notice, or by making information available on the Internet) of other NOI form options that become available at a later date (*e.g.*, electronic submission of forms), you may take advantage of those options to satisfy the NOI use and submittal requirements of Part 2.

2.4 Where To Submit

Your NOI must be signed in accordance with Part 9.7 of this permit and submitted to the Director of the NPDES Permitting Program at the following address: Storm Water Notice of Intent (4203), US EPA, 1200 Pennsylvania Avenue NW, Washington, DC 20460.

2.5 Additional Notification

If your facility discharges through a large or medium municipal separate storm sewer system (MS4), or into a MS4 that has been designated by the permitting authority, you must also submit a signed copy of the NOI to the operator of that MS4 upon request by the MS4 operator.

3. Special Conditions

3.1 Hazardous Substances or Oil

You must prevent or minimize the discharge of hazardous substances or oil in your discharge(s) in accordance with the Storm Water Pollution Prevention Plan for your facility. This permit does not relieve you of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 relating to spills or other releases of oils or hazardous substances.

3.1.1 Single Releases and Spills

Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302, occurs during a 24 hour period:

3.1.1.1 You must notify the National Response Center (NRC) (800–424–8802; in the Washington, DC, metropolitan area call 202–426–2675) in accordance with the requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 as soon as he or she has knowledge of the discharge;

3.1.1.2 You must modify your Storm Water Pollution Prevention Plan required under Part 4 within 14 calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, you must review your plan to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and you must modify your plan where appropriate.

3.1.2 Anticipated Discharges

Anticipated discharges containing a hazardous substance in an amount equal to or in excess of reporting quantities are those caused by events occurring within the scope of the relevant operating system. If your facilities has (or will have) more than one anticipated discharge per year containing a hazardous substance in an amount equal to or in excess of a reportable quantity, you must:

3.1.2.1 Submit notifications of the first release that occurs during a calendar year (or for the first year of this permit, after submittal of an NOI); and

3.1.2.2 Provide a written description in the SWPPP of the dates on which such releases occurred, the type and estimate of the amount of material released, and the circumstances leading to the releases. In addition, your SWPPP must address measures to minimize such releases.

3.1.2.3 Where a discharge of a hazardous substance or oil in excess of reporting quantities is caused by a non-storm water discharge (*e.g.,* a spill of oil into a separate storm sewer), that discharge is not authorized by the MSGP and you must report the discharge as required under 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 (see Part 3.1.1. above). In the event of a spill, the requirements of Section 311 of the CWA and other applicable provisions of Sections 301 and 402 of the CWA continue to apply.

3.2 Additional Requirements for Salt Storage

If you have storage piles of salt used for deicing or other commercial or industrial purposes, they must be enclosed or covered to prevent exposure to precipitation (except for exposure resulting from adding or removing materials from the pile). Piles do not need to be enclosed or covered where storm water from the pile is not discharged to waters of the United States or the discharges from the piles are authorized under another permit.

3.3 Discharge Compliance With Water Quality Standards

Your discharges must not be causing or have the reasonable potential to cause or contribute to a violation of a water quality standard. Where a discharge is already authorized under this permit and is later determined to cause or have the reasonable potential to cause or contribute to the violation of an applicable water quality standard, the Director will notify you of such violation(s). You must take all necessary actions to ensure future discharges do not cause or contribute to the violation of a water quality standard and document these actions in the Storm Water Pollution Prevention Plan. If violations remain or re-occur, then coverage under this permit may be terminated by the Director, and an alternative general permit or individual permit may be issued. Compliance with this requirement does not preclude any enforcement activity as provided by the Clean Water Act for the underlying violation.

4. Storm Water Pollution Prevention Plans

4.1 Storm Water Pollution Prevention Plan Requirements

You must prepare a Storm Water Pollution Prevention Plan (SWPPP) for your facility before submitting your Notice of Intent for permit coverage. Your SWPPP must be prepared in accordance with good engineering practices. Use of a registered professional engineer for SWPPP preparation is not required by the permit, but may be independently required under state law and/or local ordinance. Your SWPPP must:

4.1.1 Identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from your facility;

4.1.2 Describe and ensure implementation of practices which you will use to reduce the pollutants in storm water discharges from the facility; and

4.1.3 assure compliance with the terms and conditions of this permit.

Note: At larger installations such as military bases where there are well-defined industrial versus non-industrial areas, the SWPPP required under this Part need only address those areas with discharges of storm water associated with industrial activity. (*e.g.,* under this permit, a U.S. Air Force Base would need to address the vehicle maintenance areas associated with the ''airport'' portion of the base in the SWPPP, but would not need to address a car wash that served only the on-base housing areas.)

4.2 Contents of Plan

4.24.2.1 Pollution Prevention Team

You must identify the staff individual(s) (by name or title) that comprise the facility's storm water Pollution Prevention Team. Your Pollution Prevention Team is responsible for assisting the facility/plant manager in developing, implementing, maintaining and revising the facility's SWPPP. Responsibilities of each staff individual on the team must be listed.

4.2.2 Site Description

Your SWPPP must include the following:

4.2.2.1 *Activities at Facility.* description of the nature of the industrial activity(ies) at your facility;

4.2.2.2 *General Location Map.* a general location map (*e.g.,* U.S.G.S. quadrangle, or other map) with enough detail to identify the location of your facility and the receiving waters within one mile of the facility;

4.2.2.3 *A legible site map identifying the following:*

4.2.2.3.1 Directions of storm water flow (*e.g,* use arrows to show which ways storm water will flow);

4.2.2.3.2 Locations of all existing structural BMPs;

4.2.2.3.3 Locations of all surface water bodies;

4.2.2.3.4 Locations of potential pollutant sources identified under 4.2.4 and where significant materials are exposed to precipitation;

4.2.2.3.5 Locations where major spills or leaks identified under 4.2.5 have occurred;

4.2.2.3.6 Locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes, and liquid storage tanks;

4.2.2.3.7 Locations of storm water outfalls and an approximate outline of the area draining to each outfall;

4.2.2.3.8 Location and description of non-storm water discharges;

4.2.2.3.9 Locations of the following activities where such activities are exposed to precipitation: processing and storage areas; access roads, rail cars and tracks; the location of transfer of substance in bulk; and machinery;

4.2.2.3.10 Location and source of runoff from adjacent property containing significant quantities of pollutants of concern to the facility (an evaluation of how the quality of the storm water running onto your facility impacts your storm water discharges may be included).

4.2.3 Receiving Waters and Wetlands

You must provide the name of the nearest receiving water(s), including intermittent streams, dry sloughs, arroyos and the areal extent and description of wetland or other ''special aquatic sites '' (see Part 12 for definition) that may receive discharges from your facility.

4.2.4 Summary of Potential Pollutant Sources

You must identify each separate area at your facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. For each, separate area identified, the description must include:

4.2.4.1 *Activities in Area.* A list of the activities (*e.g.,* material storage, equipment fueling and cleaning, cutting steel beams); and

4.2.4.2 *Pollutants.* A list of the associated pollutant(s) or pollutant parameter(s) (*e.g.,* crankcase oil, iron, biochemical oxygen demand, pH, *etc.*) for each activity. The pollutant list must include all significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three (3) years before being covered under this permit and the present.

4.2.5 Spills and Leaks

You must clearly identify areas where potential spills and leaks, which can contribute pollutants to storm water discharges, can occur, and their accompanying drainage points. For areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility to be covered under this permit, you must provide a list of significant spills and leaks of toxic or hazardous pollutants that occurred during the three (3) year period prior to the date of the submission of a Notice of Intent (NOI) . Your list must be updated if significant spills or leaks occur in exposed areas of your facility during the time you are covered by the permit.

Significant spills and leaks include, but are not limited to releases of oil or hazardous substances in excess of quantities that are reportable under CWA § 311 (see 40 CFR 110.10 and 40 CFR 117.21) or section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Significant spills may also include releases of oil or hazardous substances that are not in excess of reporting requirements.

4.2.6 Sampling Data

You must provide a summary of existing storm water discharge sampling data taken at your facility. All storm water sampling data collected during the term of this permit must also be summarized and included in this part of the SWPPP.

4.2.7 Storm Water Controls

4.2.7.1 *Description of Existing and Planned BMPs.* Describe the type and location of existing non-structural and structural best management practices (BMPs) selected for each of the areas where industrial materials or activities are exposed to storm water. All the areas identified in Part 4.2.4 should have a BMP(s) identified for the area's discharges. For areas where BMPs are not currently in place, describe appropriate BMPs that you will use to control pollutants in storm water discharges. Selection of BMPs should take into consideration:

4.2.7.1.1 The quantity and nature of the pollutants, and their potential to impact the water quality of receiving waters;

4.2.7.1.2 Opportunities to combine the dual purposes of water quality protection and local flood control benefits (including physical impacts of high flows on streams—*e.g.,* bank erosion, impairment of aquatic habitat, etc.);

4.2.7.1.3 Opportunities to offset the impact of impervious areas of the facility on ground water recharge and base flows in local streams (taking into account the potential for ground water contamination—See ''User's Guide to the MSGP–2000'' section on groundwater considerations).

4.2.7.2 *BMP Types to be Considered.* The following types of structural, non-structural and other BMPs must be considered for implementation at your facility. Describe how each is, or will be, implemented. This requirement may have been fulfilled with the area-specific BMPs identified under Part 4.2.7.2, in which case the previous description is sufficient. However, many of the following BMPs may be more generalized or non site-specific and therefore not previously considered. If you determine that any of these BMPs are not appropriate for your facility, you must include an explanation of why they are not appropriate. The BMP examples listed below are not intended to be an exclusive list of BMPs that you may use. You are encouraged to keep abreast of new BMPs or new applications of existing BMPs to find the most cost effective means of permit compliance for your facility. If BMPs are being used or planned at the facility which are not listed here (*e.g.,* replacing a chemical with a less toxic alternative, adopting a new or innovative BMP, etc.), include descriptions of them in this section of the SWPPP.

4.2.7.2.1 *Non-Structural BMPs.*

4.2.7.2.1.1 *Good Housekeeping:* You must keep all exposed areas of the facility in a clean, orderly manner where such exposed areas could contribute pollutants to storm water discharges. Common problem areas include: around trash containers, storage areas and loading docks. Measures must also include: a schedule for regular pickup and disposal of garbage and waste materials; routine inspections for leaks and conditions of drums, tanks and containers.

4.2.7.2.1.2 *Minimizing Exposure:* Where practicable, industrial materials and activities should be protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, or runoff.

Note: Eliminating exposure at all industrial areas may make the facility eligible for the 40 CFR 122.26(g) ''No Exposure'' exclusion from needing to have a permit.

4.2.7.2.1.3 *Preventive Maintenance:* You must have a preventive maintenance program which includes timely inspection and maintenance of storm water management devices, (*e.g.,* cleaning oil/water separators, catch basins) as well as inspecting, testing, maintaining and repairing facility equipment and systems to avoid breakdowns or failures that may result in discharges of pollutants to surface waters.

4.2.7.2.1.4 *Spill Prevention and Response Procedures:* You must describe the procedures which will be followed for cleaning up spills or leaks. Those procedures, and necessary spill response equipment, must be made available to those employees that may cause or detect a spill or leak. Where appropriate, you must explain existing or planned material handling procedures, storage requirements, secondary containment, and equipment (*e.g.,* diversion valves), which are intended to minimize spills or leaks at the facility. Measures for cleaning up hazardous material spills or leaks must be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265.

4.2.7.2.1.5 *Routine Facility Inspections:* In addition to or as part of the comprehensive site evaluation required under Part 4.9, you must have qualified facility personnel inspect all areas of the facility where industrial materials or activities are exposed to storm water. The inspections must include an evaluation of existing storm water BMPs. Your SWPPP must identify how often these inspections will be conducted. You must correct any deficiencies in implementation of your SWP3 you find as soon as practicable, but not later than within 14 days of the inspection. You must document in your SWPPP the results of your inspections and the corrective actions you took in response to any deficiencies or opportunities for improvement that you identify.

4.2.7.2.1.6 *Employee Training:* You must describe the storm water employee training program for the facility. The description should include the topics to be covered, such as spill response, good housekeeping and material management practices, and must identify periodic dates (*e.g.,* every 6 months during the months of July and January) for such training. You must provide employee training for all employees that work in areas where industrial materials or activities are exposed to storm water, and for employees that are responsible for implementing activities identified in the SWPPP (*e.g.,* inspectors, maintenance people). The employee training should inform them of the components and goals of your SWPPP.

4.2.7.2.2 *Structural BMPs.*

4.2.7.2.2.1 *Sediment and Erosion Control:* You must identify the areas at your facility which, due to topography, land disturbance (*e.g.,* construction), or other factors, have a potential for significant soil erosion. You must describe the structural, vegetative, and/or stabilization BMPs that you will be implementing to limit erosion.

4.2.7.2.2.2 *Management of Runoff:* You must describe the traditional storm water management practices (permanent structural BMPs other than those which control the generation or source(s) of pollutants) that currently exist or that are planned for your facility. These types of BMPs typically are used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site. All BMPs that you determine are reasonable and appropriate, or are required by a State or local authority; or are necessary to maintain eligibility for the permit (see Part 1.2.3—Limitations on Coverage) must be implemented and maintained. Factors to consider when you are selecting appropriate BMPs should include: (1) The industrial materials and activities that are exposed to storm water, and the associated pollutant potential of those materials and activities; and (2) the beneficial and potential detrimental effects on surface water quality, ground water quality, receiving water base flow (dry weather stream flow), and physical integrity of receiving waters. (See ''User's Guide to the MSGP–2000'' for Considerations in Selection of BMPs) Structural measures should be placed on upland soils, avoiding wetlands and floodplains, if possible. Structural BMPs may require a separate permit under section 404 of the CWA before installation begins.

4.2.7.2.2.3 *Example BMPs:* BMPs you could use include but are not limited to: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions;

infiltration of runoff onsite; and sequential systems (which combine several practices).

4.2.7.2.3 *Other Controls.* No solid materials, including floatable debris, may be discharged to waters of the United States, except as authorized by a permit issued under section 404 of the CWA. Off-site vehicle tracking of raw, final, or waste materials or sediments, and the generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized. Velocity dissipation devices must be placed at discharge locations and along the length of any outfall channel if they are necessary to provide a non-erosive flow velocity from the structure to a water course.

4.3 Maintenance

All BMPs you identify in your SWPPP must be maintained in effective operating condition. If site inspections required by Part 4.9 identify BMPs that are not operating effectively, maintenance must be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. In the case of non-structural BMPs, the effectiveness of the BMP must be maintained by appropriate means (*e.g.,* spill response supplies available and personnel trained, *etc.*).

4.4 Non-Storm Water Discharges

4.4.1 Certification of Non-Storm Water Discharges

4.4.1.1 Your SWPPP must include a certification that all discharges (*i.e.,* outfalls) have been tested or evaluated for the presence of non-storm water. The certification must be signed in accordance with Part 9.7 of this permit, and include:

4.4.1.1.1 The date of any testing and/or evaluation;

4.4.1.1.2 Identification of potential significant sources of non-storm water at the site;

4.4.1.1.3 A description of the results of any test and/or evaluation for the presence of non-storm water discharges;

4.4.1.1.4 A description of the evaluation criteria or testing method used; and

4.4.1.1.5 A list of the outfalls or onsite drainage points that were directly observed during the test.

4.4.1.2 You do not need to sign a new certification if one was already completed for either the 1992 baseline Industrial General Permit or the 1995 Multi-sector General Permit and you have no reason to believe conditions at the facility have changed.

4.4.1.3 If you are unable to provide the certification required (testing for non-storm water discharges), you must notify the Director 180 days after submitting an NOI to be covered by this permit. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification must describe:

4.4.1.3.1 Reason(s) why certification was not possible;

4.4.1.3.2 The procedure of any test attempted;

4.4.1.3.3 The results of such test or other relevant observations; and

4.4.1.3.4 Potential sources of non-storm water discharges to the storm sewer.

4.4.1.4 A Copy of the notification must be included in the SWPPP at the facility. Non-storm water discharges to waters of the United States which are not authorized by an NPDES permit are unlawful, and must be terminated.

4.4.2 Allowable Non-Storm Water Discharges

4.4.2.1 Certain sources of non-storm water are allowable under this permit (see 1.2.2.2—Allowable Non-Storm Water Discharges). In order for these discharges to be allowed, your SWPPP must include:

4.4.2.1.1 Identification of each allowable non-storm water source;

4.4.2.1.2 The location where it is likely to be discharged; and

4.4.2.1.3 Descriptions of appropriate BMPs for each source.

4.4.2.2 Except for flows from fire fighting activities, you must identify in your SWPPP all sources of allowable non-storm water that are discharged under the authority of this permit.

4.4.2.3 If you include mist blown from cooling towers amongst your allowable non-storm water discharges, you must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower and determined that the levels of such chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard after implementation of the BMPs you have selected to control such discharges.

4.5 Documentation of Permit Eligibility Related to Endangered Species

Your SWPPP must include documentation supporting your determination of permit eligibility with regard to Part 1.2.3.6 (Endangered Species), including:

4.5.1 Information on whether listed endangered or threatened species, or critical habitat, are found in proximity to your facility;

4.5.2 Whether such species may be affected by your storm water discharges or storm water discharge-related activities;

4.5.3 Results of your Addendum A endangered species screening determinations; and

4.5.4 A description of measures necessary to protect listed endangered or threatened species, or critical habitat, including any terms or conditions that are imposed under the eligibility requirements of Part 1.2.3.6. If you fail to describe and implement such measures, your discharges are ineligible for coverage under this permit.

4.6 Documentation of Permit Eligibility Related to Historic Places

Your SWPPP must include documentation supporting your determination of permit eligibility with regard to Part 1.2.3.7 (Historic Places), including:

4.6.1 Information on whether your storm water discharges or storm water discharge-related activities would have an effect on a property that is listed or eligible for listing on the National Register of Historic Places;

4.6.2 Where effects may occur, any written agreements you have made with the State Historic Preservation Officer, Tribal Historic Preservation Officer, or other Tribal leader to mitigate those effects;

4.6.3 Results of your Addendum B historic places screening determinations; and

4.6.4 Description of measures necessary to avoid or minimize adverse impacts on places listed, or eligible for listing, on the National Register of Historic Places, including any terms or conditions that are imposed under the eligibility requirements of Part 1.2.3.7 of this permit. If you fail to describe and implement such measures, your discharges are ineligible for coverage under this permit.

4.7 Copy of Permit Requirements

You must include a copy of this permit in your SWPPP.

Note: The confirmation of coverage letter you receive from the NOI Processing Center assigning your permit number IS NOT your permit—it merely acknowledges that your NOI has been accepted and you have been authorized to discharge subject to the terms and conditions of today's permit.

4.8 Applicable State, Tribal or Local Plans

Your SWPPP must be consistent (and updated as necessary to remain consistent) with applicable State, Tribal and/or local storm water, waste disposal, sanitary sewer or septic system regulations to the extent these apply to your facility and are more stringent than the requirements of this permit.

4.9 Comprehensive Site Compliance Evaluation

4.9.1 Frequency and Inspectors

You must conduct facility inspections at least once a year. The inspections must be done by qualified personnel provided by you. The qualified personnel you use may be either your own employees or outside consultants that you have hired, provided they are knowledgeable and possess the skills to assess conditions at your facility that could impact storm water quality and assess the effectiveness of the BMPs you have chosen to use to control the quality of your storm water discharges. If you decide to conduct more frequent inspections, your SWPPP must specify the frequency of inspections.

4.9.2 Scope of the Compliance Evaluation

Your inspections must include all areas where industrial materials or activities are exposed to storm water, as identified in 4.2.4, and areas where spills and leaks have occurred within the past 3 years. Inspectors should look for: (a) Industrial materials, residue or trash on the ground that could contaminate or be washed away in storm water; (b) leaks or spills from industrial equipment, drums, barrels, tanks or similar containers; (c) offsite tracking of industrial materials or sediment where vehicles enter or exit the site; (d) tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas and (e) for evidence of, or the potential for, pollutants entering the drainage system. Results of both visual and any analytical monitoring done during the year must be taken into consideration during the evaluation. Storm water BMPs identified in your SWPPP must be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they must be inspected to see whether BMPs are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations must be inspected if possible.

4.9.3 Follow-Up Actions

Based on the results of the inspection, you must modify your SWPPP as necessary (*e.g.,* show additional controls on map required by Part 4.2.2.3; revise description of controls required by Part 4.2.7 to include additional or modified BMPs designed to correct problems identified. You must complete revisions to the SWPPP within 14 calendar days following the inspection. If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event, if practicable, but not more than twelve (12) weeks after completion of the comprehensive site evaluation.

4.9.4 Compliance Evaluation Report

You must insure a report summarizing the scope of the inspection, name(s) of personnel making the inspection, the date(s) of the inspection, and major observations relating to the implementation of the SWPPP is completed and retained as part of the SWPPP for at least three years from the date permit coverage expires or is terminated. Major observations should include: the location(s) of discharges of pollutants from the site; location(s) of BMPs that need to be maintained; location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location; and location(s) where additional BMPs are needed that did not exist at the time of inspection. You must retain a record of actions taken in accordance with Part 4.9 of this permit as part of the Storm Water Pollution Prevention Plan for at least three years from the date that permit coverage expires or is terminated. The inspection reports must identify any incidents of non-compliance. Where an inspection report does not identify any incidents of non-compliance, the report must contain a certification that the facility is in compliance with the Storm Water Pollution Prevention Plan and this permit. Both the inspection report and any reports of follow-up actions must be signed in accordance with Part 9.7 (reporting) of this permit.

4.9.5 Credit As a Routine Facility Inspection

Where compliance evaluation schedules overlap with inspections required under Part 4.2.7.2.1.5, your annual compliance evaluation may also be used as one of the Part 4.2.7.5 routine inspections.

4.10 Maintaining Updated SWPPP

You must amend the Storm Water Pollution Prevention Plan whenever:

4.10.1 there is a change in design, construction, operation, or maintenance at your facility which has a significant effect on the discharge, or potential for discharge, of pollutants from your facility;

4.10.2 During inspections, monitoring, or investigations by you or by local, State, Tribal or Federal officials it is determined the SWPPP is ineffective in eliminating or significantly minimizing pollutants from sources identified under 4.2.4, or is otherwise not achieving the general objectives of controlling pollutants in discharges from your facility.

4.11 Signature, Plan Review and Making Plans Available

4.11.1 You must sign your SWPPP in accordance with Part 9.7, and retain the plan on-site at the facility covered by this permit (see Part 8 for records retention requirements).

4.11.2 You must keep a copy of the SWPPP on-site or locally available to the Director for review at the time of an on-site inspection. You must make your SWPPP available upon request to the Director, a State, Tribal or local agency approving storm water management plans, or the operator of a municipal separate storm sewer receiving discharge from the site. Also, in the interest of the public's right to know, you must provide a copy of your SWPPP to the public if requested in writing to do so.

4.11.3 The Director may notify you at any time that your SWPPP does not meet one or more of the minimum requirements of this permit. The notification will identify provisions of this permit which are not being met, as well as the required modifications. Within thirty (30) calendar days of receipt of such notification, you must make the required changes to the SWPPP and submit to the Director a written certification that the requested changes have been made.

4.11.4 You must make the SWPPP available to the USFWS or NMFS upon request.

4.12 Additional Requirements for Storm Water Discharges Associated With Industrial Activity From Facilities Subject to EPCRA Section 313 Reporting Requirements

Potential pollutant sources for which you have reporting requirements under EPCRA 313 must be identified in your summary of potential pollutant sources as per Part 4.2.4. Note this additional requirement only applies to you if you are subject to reporting requirements under EPCRA 313.

5. Monitoring Requirements and Numeric Limitations

There are five individual and separate categories of monitoring requirements and numeric limitations that your facility may be subject to under this permit. The monitoring requirements and numeric limitations applicable to your facility depend on a number of factors, including: (1) The types of industrial activities generating storm water runoff from your facility, and (2) the state or tribe where your facility is located. Part 6 identifies monitoring requirements applicable to specific sectors of industrial activity. Part 13 contains additional requirements that apply only to facilities located in a particular State or Indian country land. You must review Parts 5, 6 and 13 of the permit to determine which monitoring requirements and numeric limitations apply to your facility. Unless otherwise specified, limitations and monitoring requirements under Parts 5, 6, and 13 are additive.

Sector-specific monitoring requirements and limitations are applied discharge by discharge at facilities with co-located activities. Where storm water from the co-located activities are co-mingled, the monitoring requirements and limitations are additive. Where more than one numeric limitation for a specific parameter applies to a discharge, compliance with the more restrictive limitation is required. Where monitoring requirements for a monitoring quarter overlap (*e.g.,* need to monitor TSS 1/year for a limit and also 1/quarter for benchmark monitoring), you may use a single sample to satisfy both monitoring requirements.

5.1 Types of Monitoring Requirements and Limitations

5.1.1 Quarterly Visual Monitoring

The requirements and procedures for quarterly visual monitoring are applicable to all facilities covered under this permit, regardless of your facility's sector of industrial activity.

5.1.1.1 You must perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The visual examination must be made during daylight hours (*e.g.,* normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, you are excused from visual monitoring for that quarter provided you document in your monitoring records that no runoff occurred. You must sign and certify the documentation in accordance with Part 9.7.

5.1.1.2 Your visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging from your facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples. All such samples must be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding measurable storm did not yield a measurable discharge, or if you are able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff from the facility during a monitoring quarter, you are excused from visual monitoring for that quarter provided you document in your monitoring records that no qualifying storm event occurred that resulted in storm water runoff during that quarter. You must sign and certify the documentation in accordance with Part 9.7.

5.1.1.3 You must maintain your visual examination reports onsite with the Storm Water Pollution Prevention Plan. The report must include the examination date and time, examination personnel, the nature of the discharge (*i.e.,* runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

5.1.1.4 Inactive and Unstaffed Sites: When you are unable to conduct visual storm water examinations at an inactive and unstaffed site, you may exercise a waiver of the monitoring requirement as long as the facility remains inactive and unstaffed. If you exercise this waiver, you must maintain a certification with the Storm Water Pollution Prevention Plan stating that the site is inactive and unstaffed and that performing visual examinations during a qualifying event is not feasible. You must sign and certify the waiver in accordance with Part 9.7.

5.1.2 Benchmark Monitoring of Discharges Associated With Specific Industrial Activities

Table 5–1 identifies the specific industrial sectors subject to the Benchmark Monitoring requirements of this permit and the industry-specific pollutants of concern. You must refer to the tables found in the individual Sectors in Part 6 for Benchmark Monitoring Cut-Off Concentrations. If your facility has co-located activities (see Part 1.2.1.1) described in more than one sector in Part 6, you must comply with all applicable benchmark monitoring requirements from each sector.

The results of benchmark monitoring are primarily for your use to determine the overall effectiveness of your SWPPP in controlling the discharge of pollutants to receiving waters. Benchmark values, included in Part 6 of this permit, are not viewed as effluent limitations. An exceedance of a benchmark value does not, in and of itself, constitute a violation of this permit. While exceedance of a benchmark value does not automatically indicate that violation of a water quality standard has occurred, it does signal that modifications to the SWPPP may be necessary. In addition, exceedance of benchmark values may identify facilities that would be more appropriately covered under an individual, or alternative general permit where more specific pollution prevention controls could be required.

TABLE 5–1.—INDUSTRY SECTORS/SUB-SECTORS SUBJECT TO BENCHMARK MONITORING

MSGP sector [1]	Industry sub-sector	Required parameters for benchmark monitoring
A	General Sawmills and Planing Mills	COD, TSS, Zinc.
	Wood Preserving Facilities	Arsenic, Copper.
	Log Storage and Handling	TSS.
	Hardwood Dimension and Flooring Mills	COD, TSS.
B	Paperboard Mills	COD.

TABLE 5–1.—INDUSTRY SECTORS/SUB-SECTORS SUBJECT TO BENCHMARK MONITORING—Continued

MSGP sector [1]	Industry sub-sector	Required parameters for benchmark monitoring
C	Industrial Inorganic Chemicals	Aluminum, Iron, Nitrate + Nitrite N.
	Plastics, Synthetic Resins, etc.	Zinc.
	Soaps, Detergents, Cosmetics, Perfumes	Nitrate + Nitrite N, Zinc.
	Agricultural Chemicals	Nitrate + Nitrite N, Lead, Iron, Zinc, Phosphorus.
D	Asphalt Paving and Roofing Materials	TSS.
E	Clay Products	Aluminum.
	Concrete Products	TSS, Iron.
F	Steel Works, Blast Furnaces, and Rolling and Finishing Mills.	Aluminum, Zinc.
	Iron and Steel Foundries	Aluminum, TSS, Copper, Iron, Zinc.
	Non-Ferrous Rolling and Drawing	Copper, Zinc.
	Non-Ferrous Foundries (Castings)	Copper, Zinc.
G [2]	Copper Ore Mining and Dressing	COD, TSS, Nitrate + Nitrite N
H	Coal Mines and Coal-Mining Related Facilities	TSS, Aluminum, Iron
J	Dimension Stone, Crushed Stone, and Nonmetallic Minerals (except fuels).	TSS.
	Sand and Gravel Mining	Nitrate + Nitrite N, TSS.
K	Hazardous Waste Treatment Storage or Disposal	Ammonia, Magnesium, COD, Arsenic, Cadmium, Cyanide, Lead, Mercury, Selenium, Silver.
L	Landfills, Land Application Sites, and Open Dumps	Iron, TSS.
M	Automobile Salvage Yards	TSS, Aluminum, Iron, Lead.
N	Scrap Recycling	Copper, Aluminum, Iron, Lead, Zinc, TSS, COD.
O	Steam Electric Generating Facilities	Iron.
Q	Water Transportation Facilities	Aluminum, Iron, Lead, Zinc.
S	Airports with deicing activities [3]	BOD, COD, Ammonia, pH.
U	Grain Mill Products	TSS.
	Fats and Oils	BOD, COD, Nitrate + Nitrite N, TSS.
Y	Rubber Products	Zinc.
AA	Fabricated Metal Products Except Coating	Iron, Aluminum, Zinc, Nitrate + Nitrite N.
	Fabricated Metal Coating and Engraving	Zinc, Nitrate + Nitrite N.

[1] Table does not include parameters for compliance monitoring under effluent limitations guidelines.
[2] See Sector G (Part 6.G) for additional monitoring discharges from waste rock and overburden piles from active ore mining or dressing facilities.
[3] Monitoring requirement is for airports with deicing activities that utilize more than 100 tons of urea or more than 100,000 gallons of ethylene glycol per year.

5.1.2.1 *Monitoring Periods for Benchmark Monitoring.* Unless otherwise specified in Part 6, benchmark monitoring periods are October 1, 2001 to September 30, 2002 (year two of the permit) and October 1, 2003 to September 30, 2004 (year four of the permit). If your facility falls within a Sector(s) required to conduct benchmark monitoring, you must monitor quarterly (4 times a year) during at least one, and potentially both, monitoring periods; unless otherwise specified in the sector-specific requirements of Part 6. Depending on the results of the 2001–2002 monitoring year, you may not be required to conduct benchmark monitoring in the 2003–2004 monitoring year (see Part 5.1.2.2).

5.1.2.2 *Benchmark Monitoring Year 2003–2004 Waivers for Facilities Testing Below Benchmark Values.* All of the provisions of Part 5.1.2.2 are available to permittees except as noted in Part 6. Waivers from benchmark monitoring are available to facilities whose discharges are below benchmark values, thus there is an incentive for facilities to improve the effectiveness of their SWPPPs in eliminating discharges of pollutants and avoid the cost of monitoring.

On both a parameter by parameter and outfall by outfall basis, you are not required to conduct sector-specific benchmark monitoring in the 2003–2004 monitoring year provided:

- You collected samples for all four quarters of the 2001–2002 monitoring year and the average concentration was below the benchmark value in Part 6; and
- You are not subject to a numeric limitation or State/Tribal-specific monitoring requirement for that parameter established in Part 5.2 or Part 13; and
- You include a certification in the SWPPP that based on current potential pollutant sources and BMPs used, discharges from the facility are reasonably expected to be essentially the same (or cleaner) compared to when the benchmark monitoring for the 2001–2002 monitoring year was done.

5.1.2.3 *Inactive and Unstaffed Sites.* If you are unable to conduct benchmark monitoring at an inactive and unstaffed site, you may exercise a waiver of the monitoring requirement as long as the facility remains inactive and unstaffed. If you exercise this waiver, you must maintain a certification with your Storm Water Pollution Prevention Plan stating that the site is inactive and unstaffed and that performing benchmark monitoring during a qualifying storm event is not feasible. You must sign and certify the waiver in accordance with Part 9.7.

5.1.3 Coal Pile Runoff

5.1.3.1 If your facility has discharges of storm water from coal storage piles, you must comply with the limitations and monitoring requirements of Table 5–2 for all discharges containing the coal pile runoff, regardless of your facility's sector of industrial activity.

TABLE 5–2.—NUMERIC LIMITATIONS FOR COAL PILE RUNOFF

Parameter	Limit	Monitoring frequency	Sample type
Total Suspended Solids (TSS)	50 mg/L, max	1/year	Grab.
pH	6.0–9.0 min. and max	1/year	Grab.

5.1.3.2 You must not dilute coal pile runoff with storm water or other flows in order to meet this limitation.

5.1.3.3 If your facility is designed, constructed and operated to treat the volume of coal pile runoff that is associated with a 10-year, 24-hour rainfall event, any untreated overflow of coal pile runoff from the treatment unit is not subject to the 50 mg/L limitation for total suspended solids.

5.1.3.4 You must collect and analyze your samples in accordance with Part 5.2.2. Results of the testing must be retained and reported in accordance with Part 8 and 9.16.

5.1.4 Compliance Monitoring for Discharges Subject to Numerical Effluent Limitation Guidelines

Table 1–2 of Part 1.2.2.1.3 of the permit identifies storm water discharges subject to effluent limitation guidelines that are authorized for coverage under the permit. Facilities subject to storm water effluent limitation guidelines are required to monitor such discharges to evaluate compliance with numerical effluent limitations. Industry-specific numerical limitations and compliance monitoring requirements are described in Part 6 of the permit.

5.1.5 Monitoring for Limitations Required by a State or Tribe

Unless otherwise specified in Part 13 (state/tribal-specific permit conditions), you must sample once per year for any permit limit established as a result of a state or tribe's conditions for certification of this permit under CWA § 401.

5.2 Monitoring Instructions

5.2.1 Monitoring Periods

If you are required to conduct monitoring on an annual or quarterly basis, you must collect your samples within the following time periods (unless otherwise specified in Part 6):

• The monitoring year is from October 1 to September 30

• If your permit coverage was effective less than one month from the end of a quarterly or yearly monitoring period, your first monitoring period starts with the next respective monitoring period. (*e.g.*, if permit coverage begins June 5th, you would not need to start quarterly sampling until the July—September quarter, but you would only have from June 5th to September 30th to complete that year's annual monitoring)

5.2.2 Collection and Analysis of Samples

You must assess your sampling requirements on an outfall by outfall basis. You must collect and analyze your samples in accordance with the requirements of Part 9.16.

5.2.2.1 *When and How to Sample.* Take a minimum of one grab sample from the discharge associated with industrial activity resulting from a storm event with at least 0.1 inch of precipitation (defined as a ''measurable'' event), providing the interval from the preceding measurable storm is at least 72 hours. The 72-hour storm interval is waived when the preceding measurable storm did not yield a measurable discharge, or if you are able to document that less than a 72-hour interval is representative for local storm events during the sampling period.

Take the grab sample during the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, sample during the first hour of discharge and describe why a grab sample during the first 30 minutes was impracticable. Submit this information on or with the discharge monitoring report (see Part 7.1). If the sampled discharge commingles with process or non-process water, attempt to sample the storm water discharge before it mixes with the non-storm water.

To get help with monitoring, consult the *Guidance Manual for the Monitoring and Reporting Requirements of the NPDES Storm Water Multi-Sector General Permit* which can be down loaded from the EPA Web Site at *www.epa.gov/OWM/sw/industry/index.htm.* It can also be ordered from the Office of Water Resource Center by calling 202–260–7786.

5.2.3 Storm Event Data

Along with the results of your monitoring, you must provide the date and duration (in hours) of the storm event(s) samples; rainfall measurements or estimates (in inches) of the storm event that generated the sampled runoff; the duration between the storm event samples and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and an estimate of the total volume (in gallons) of the discharge samples.

5.2.4 Representative Outfalls—Essential Identical Discharges

If your facility has two (2) or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials or storm water management practices occurring within the outfalls' drainage areas, you may test the effluent of just one of the outfalls and report that the quantitative data also applies to the substantially identical outfall(s). For this to be permissible, you must describe in the Storm Water Pollution Prevention Plan and include in the Discharge Monitoring Report the following: locations of the outfalls; why the outfalls are expected to discharge substantially identical effluents; estimates of the size of the drainage area (in square feet) for each of the outfalls; and an estimate of the runoff coefficient of the drainage areas (low: under 40 percent; medium: 40 to 65 percent; high: above 65 percent). Note: Page 107 of the *NPDES Storm Water Sampling Guidance Document* (EPA 800/B–92–001) lists criteria for substantially identical outfalls (available on EPA's web site at *http://www.epa.gov/owm/sw/industry/).*

5.3 General Monitoring Waivers

Unless specifically stated otherwise, the following waivers may be applied to any monitoring required under this permit.

5.3.1 Adverse Climatic Conditions Waiver

When adverse weather conditions prevent the collection of samples, take a substitute sample during a qualifying storm event in the next monitoring period, or four samples per monitoring year when weather conditions do not allow for samples to be spaced evenly during the year. Adverse conditions (*i.e.*, those which are dangerous or create inaccessibility for personnel) may include such things as local flooding, high winds, electrical storms, or situations which otherwise make sampling impracticable such as drought or extended frozen conditions.

5.3.2 Alternative Certification of ''Not Present or No Exposure''

You are not subject to the analytical monitoring requirements of Part 5.1.2 provided:

5.3.2.1 You make a certification for a given outfall, or on a pollutant-by-pollutant basis in lieu of monitoring required under Part 5.1.2, that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, or significant materials from past industrial activity that are located in areas of the facility within the drainage area of the outfall are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period; and

5.3.2.2 Your certification is signed in accordance with Part 9.7, retained in the Storm Water Pollution Prevention Plan, and submitted to EPA in accordance with Part 7. In the case of certifying that a pollutant is not present, the permittee must submit the certification along with the monitoring reports required Part 7; and

5.3.2.3 If you cannot certify for an entire period, you must submit the date exposure was eliminated and any monitoring required up until that date; and

5.3.2.4 No numeric limitation or State-specific monitoring requirement for that parameter is established in Part 5 or Part 13.

5.4 Monitoring Required by the Director

The Director may provide written notice to any facility, including those otherwise exempt from the sampling requirements of Parts 5, 6 and 12, requiring discharge sampling for a specific monitoring frequency for specific parameters. Any such notice will briefly state the reasons for the monitoring, parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

5.5 Reporting Monitoring Results

Deadlines and procedures for submitting monitoring reports are contained in Part 7.

6. Sector-Specific Requirements for Industrial Activity

You only need to comply with the additional requirements of Part 6 that apply to the sector(s) of industrial activity at your facility. These sector-specific requirements are in addition to the ''basic'' requirements specified in Parts 1–5 and 7–13 of this permit.

6.A Sector A—Timber Products

6.A.1 Covered Storm Water Discharges

The requirements in Part 6.A apply to storm water discharges associated with industrial activity from Timber Products facilities as identified by the SIC Codes specified under Sector A in Table 1–1 of Part 1.2.1.

6.A.2 Industrial Activities Covered by Sector A

The types of activities that permittees under Sector A are primarily engaged in are:

6.A.2.1 Cutting timber and pulpwood (those that have log storage or handling areas);

6.A.2.2 Mills, including merchant, lath, shingle, cooperage stock, planing, plywood and veneer;

6.A.2.3 Producing lumber and wood basic materials;

6.A.2.4 Wood preserving;

6.A.2.5 Manufacturing finished articles made entirely of wood or related materials except wood kitchen cabinet manufacturers (covered under Part 6.23);

6.A.2.6 Manufacturing wood buildings or mobile homes.

6.A.3 Special Coverage Conditions

6.A.3.1 *Prohibition of Discharges.* (See also Part 1.2.3.1) Not covered by this permit: storm water discharges from areas where there may be contact with the chemical formulations sprayed to provide surface protection. These discharges must be covered by a separate NPDES permit.

6.A.3.2 *Authorized Non-Storm Water Discharges.* (See also Part 1.2.3.1) Also authorized by this permit, provided the non-storm water component of the discharge is in compliance with SWPPP requirements in Part 4.2.7 (Controls): discharges from the spray down of lumber and wood product storage yards where no chemical additives are used in the spray down waters and no chemicals are applied to the wood during storage.

6.A.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.A.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Also identify where any of the following may be exposed to precipitation/surface runoff: processing areas; treatment chemical storage areas; treated wood and residue storage areas; wet decking areas; dry decking areas; untreated wood and residue storage areas; and treatment equipment storage areas.

6.A.4.2 *Inventory of Exposed Materials.* (See also Part 4.2.4) Where such information exists, if your facility has used chlorophenolic, creosote or chromium-copper-arsenic formulations for wood surface protection or preserving, identify the following: areas where contaminated soils, treatment equipment and stored materials still remain, and the management practices employed to minimize the contact of these materials with storm water runoff.

6.A.4.3 *Description of Storm Water Management Controls.* (See also Part 4.2.7). Describe and implement measures to address the following activities/sources: log, lumber and wood product storage areas; residue storage areas; loading and unloading areas; material handling areas; chemical storage areas; and equipment/vehicle maintenance, storage and repair areas. If your facility performs wood surface protection/preservation activities, address the specific BMPs for these activities.

6.A.4.4 *Good Housekeeping.* (See also Part 4.2.7.2.1.1). In areas where storage, loading/unloading and material handling occur, perform good housekeeping to limit the discharge of wood debris; minimize the leachate generated from decaying wood materials; and minimize the generation of dust.

6.A.4.5 *Inspections.* (See also Part 4.2.7.2.1.5). If your facility performs wood surface protection/preservation activities, inspect processing areas, transport areas and treated wood storage areas monthly to assess the usefulness of practices to minimize the deposit of treatment chemicals on unprotected soils and in areas that will come in contact with storm water discharges.

6.A.5 Monitoring and Reporting Requirements (See also Part 5)

TABLE A–1.—SECTOR-SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING

[Sector of permit affected/supplemental requirements]

Subsector (Discharge may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
General Sawmills and Planning Mills (SIC 2421)	Chemical Oxygen Demand (COD).	120.0 mg/L.	
	Total Suspended Solids (TSS).	100 mg/L.	
	Total Zinc	0.117 mg/L.	
Wood Preserving (SIC 2491)	Total Arsenic	0.16854 mg/L.	
	Total Copper	0.0636 mg/L.	
Log Storage and Handling (SIC 2411)	Total Suspended Solids (TSS).	100 mg/L.	
Wet Decking Discharges at Log Storage and Handling Areas (SIC 2411).	pH		6.0–9.0 s.u.
	Debris (woody material such as bark, twigs, branches, heartwood, or sapwood).		No Discharge of debris that will not pass through a 2.54 cm (1″) diameter round opening.
Hardwood Dimension and Flooring Mills; Special Products Sawmills, not elsewhere classified; Millwork, Veneer, Plywood and Structural Wood; Wood Containers; Wood Buildings and Mobile Homes; Reconstituted Wood Products; and Wood Products Facilities not elsewhere classified (SIC Codes 2426, 2429, 2431–2439 (except 2434), 2448, 2449, 2451, 2452, 2593, and 2499).	Chemical Oxygen Demand (COD).	120.0 mg/L.	
	Total Suspended Solids (TSS).	100.0 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 monitoring years.
[2] Monitor once per year for each monitoring year.

6.B Sector B—Paper and Allied Products Manufacturing

6.B.1 Covered Storm Water Discharges

The requirements in Part 6.B apply to storm water discharges associated with industrial activity from Paper and Allied Products Manufacturing facilities as identified by the SIC Codes specified under Sector B in Table 1–1 of Part 1.2.1.

6.B.2 Industrial Activities Covered by Sector B

The types of activities that permittees under Sector B are primarily engaged in are:

6.B.2.1 Manufacture of pulps from wood and other cellulose fibers and from rags;

6.B.2.2 Manufacture of paper and paperboard into converted products, *i.e.* paper coated off the paper machine, paper bags, paper boxes and envelopes;

6.B.2.3 Manufacture of bags of plastic film and sheet.

6.B.3 Monitoring and Reporting Requirements (See also Part 5)

TABLE B–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring and cutoff concentration [1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Paperboard Mills (SIC Code 2631)	COD	120.0 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 monitoring years

6.C Sector C—Chemical and Allied Products Manufacturing

6.C.1 Covered Storm Water Discharges

The requirements in Part 6.C apply to storm water discharges associated with industrial activity from Chemical and Allied Products Manufacturing facilities as identified by the SIC Codes specified under Sector C in Table 1–1 of Part 1.2.1.

6.C.2 Industrial Activities Covered by Sector C

The requirements listed under this Part apply to storm water discharges associated with industrial activity from a facility engaged in manufacturing the following products:

6.C.2.1 basic industrial inorganic chemicals;

6.C.2.2 plastic materials and synthetic resins, synthetic rubbers, and cellulosic and other human made fibers, except glass;

6.C.2.3 soap and other detergents, including facilities producing glycerin from vegetable and animal fats and oils; speciality cleaning, polishing and sanitation preparations; surface active preparations used as emulsifiers, wetting agents and finishing agents, including sulfonated oils; and perfumes, cosmetics and other toilet preparations;

6.C.2.4 paints (in paste and ready mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers, and sealers; paint and varnish removers; paint brush cleaners; and allied paint producers;

6.C.2.5 industrial organic chemicals;

6.C.2.6 industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile and rubber cements from vegetable, animal or synthetic plastic materials; explosives; printing ink, including gravure, screen process and lithographic inks; miscellaneous chemical preparations such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad ink, industrial compounds such as boiler and heat insulating compounds, and chemical supplies for foundries;

6.C.2.7 ink and paints, including china painting enamels, indian ink, drawing ink, platinum paints for burnt wood or leather work, paints for china painting, artists' paints and artists' water colors;

6.C.2.8 nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides and other agricultural chemicals.

6.C.3 Limitations on Coverage

6.C.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.3) Not covered by this permit: non-storm water discharges containing inks, paints or substances (hazardous, nonhazardous, *etc.*) resulting from an onsite spill, including materials collected in drip pans; washwater from material handling and processing areas; and washwater from drum, tank or container rinsing and cleaning.

6.C.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.C.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Also identify where any of the following may be exposed to precipitation/surface runoff: processing and storage areas; access roads, rail cars and tracks; areas where substances are transferred in bulk; and operating machinery.

6.C.4.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following sources and activities that have potential pollutants associated with them: loading, unloading and transfer of chemicals; outdoor storage of salt, pallets, coal, drums, containers, fuels, fueling stations; vehicle and equipment maintenance/cleaning areas; areas where the treatment, storage or disposal (on- or off-site) of waste/wastewater occur; storage tanks and other containers; processing and storage areas; access roads, rail cars and tracks; areas where the transfer of substances in bulk occurs; and areas where machinery operates.

6.C.4.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1) As part of your good housekeeping program, include a schedule for regular pickup and disposal of garbage and waste materials, or adopt other appropriate measures to reduce the potential for discharging storm water that has contacted garbage or waste materials. Routinely inspect the condition of drums, tanks and containers for potential leaks.

6.C.5 Monitoring and Reporting Requirements (See also Part 5)

TABLE C–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
Part of Permit Affected/Supplemental Requirements			
Phosphate Subcategory of the Fertilizer Manufacturing Point Source Category (40 CFR § 418.10)—applies to precipitation runoff, that during manufacturing or processing, comes into contact with any raw materials, intermediate product, finished product, by-products or waste product (SIC 2874).	Total Phosphorus (as P)		105.0 mg/L, daily max. 35 mg/L, 30-day avg.
	Fluoride		75.0 mg/L, daily max. 25.0 mg/L, 30-day avg.
Agricultural Chemicals (2873–2879)	Nitrate plus Nitrite Nitrogen	0.68 mg/L.	
	Total Recoverable Lead	0.0816 mg/L.	
	Total Recoverable Iron	1.0 mg/L.	
	Total Recoverable Zinc	0.117 mg/L.	
	Phosphorus	2.0 mg/L.	
Industrial Inorganic Chemicals (2812–2819)	Total Recoverable Aluminum	0.75 mg/L	Nitrate plus Nitrite Nitrogen
		1.0 mg/L	
	Total Recoverable Iron.	0.68 mg/L	
Soaps, Detergents, Cosmetics, and Perfumes (SIC 2841–2844).	Nitrate plus Nitrite Nitrogen	0.68 mg/L.	
	Total Recoverable Zinc	0.117 mg/L..	
Plastics, Synthetics, and Resins (SIC 2821–2824)	Total Recoverable Zinc	0.117 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.
[2] Monitor once/year for each Monitoring Year.

6.D Sector D—Asphalt Paving and Roofing Materials and Lubricant Manufacturers

6.D.1 Covered Storm Water Discharges

The requirements in Part 6.D apply to storm water discharges associated with industrial activity from Asphalt Paving and Roofing Materials and Lubricant Manufacturers facilities as identified by the SIC Codes specified under Sector D in Table 1–1 of Part 1.2.1.

6.D.2 Industrial Activities Covered by Sector D

The types of activities that permittees under Sector D are primarily engaged in are:

6.D.2.1 manufacturing asphalt paving and roofing materials;

6.D.2.2 portable asphalt plant facilities;
6.D.2.3 manufacturing lubricating oils and greases.

6.D.3 Limitations on Coverage

The following storm water discharges associated with industrial activity are not authorized by this permit:
6.D.3.1 discharges from petroleum refining facilities, including those that manufacture asphalt or asphalt products that are classified as SIC code 2911;
6.D.3.2 discharges from oil recycling facilities;
6.D.3.3 discharges associated with fats and oils rendering.

6.D.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.
6.D.4.1 *Inspections.* (See also Part 4.2.7.2.1.5) Inspect at least once per month, as part of the maintenance program, the following areas: Material storage and handling areas, liquid storage tanks, hoppers/silos, vehicle and equipment maintenance, cleaning and fueling areas, material handling vehicles, equipment and processing areas. Ensure appropriate action is taken in response to the inspection by implementing tracking or follow up procedures.

6.D.5 Monitoring and Reporting Requirements. (See also part 5)

TABLE D–1.—SECTOR-SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric Limitation [2]
Sector of Permit Affected/Supplemental Requirements			
Asphalt Paving and Roofing Materials (SIC 2951, 2952)	Total Suspended Solids (TSS).	100mg/L.	
Discharges from areas where production of asphalt paving and roofing emulsions occurs (SIC 2951, 2952).	TSS		23.0 mg/L, daily max 15.0 mg/L 30-day avg.
	Oil and Grease		15.0 mg/L daily max. 10mg/L, 30-day avg.
	pH		6.0–9.0

[1] Monitor once/quarter for the year 2 and year 4 monitoring years.
[2] Monitor once per year for each monitoring year.

6.E Sector E—Glass, Clay, Cement, Concrete, and Gypsum Products

6.E.1 Covered Storm Water Discharges

The requirements in Part 6.E apply to storm water discharges associated with industrial activity from Glass, Clay, Cement, Concrete, and Gypsum Products facilities as identified by the SIC Codes specified under Sector E in Table 1–1 of part 1.2.1.

6.E.2 Industrial Activities Covered by Sector E

The requirements listed under this permit apply to storm water discharges associated with industrial activity from a facility engaged in either manufacturing the following products or performing the following activities:
6.E.2.1 flat, pressed, or blown glass or glass containers;
6.E.2.2 hydraulic cement;
6.E.2.3 clay products including tile and brick;
6.E.2.4 pottery and porcelain electrical supplies;
6.E.2.5 concrete products;
6.E.2.6 gypsum products;
6.E.2.7 minerals and earths, ground or otherwise treated;
6.E.2.8 non-clay refractories:
6.E.2.9. lime manufacturing
6.E.2.10 cut stone and stone products
6.E.2.11 asbestos products
6.E.2.12 mineral wool and mineral wool insulation products.

6.E.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.
6.E.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify the locations of the following, as applicable: bag house or other dust control device; recycle/sedimentation pond, clarifier or other device used for the treatment of process wastewater, and the areas that drain to the treatment device.
6.E.3.2 *Good Housekeeping Measures.* (See also Part 4.2.2.3) With good housekeeping prevent or minimize the discharge of: spilled cement; aggregate (including sand or gravel); kiln dust; fly ash; settled dust; or other significant material in storm water from paved portions of the site that are exposed to storm water. Consider using regular sweeping or other equivalent measures to minimize the presence of these materials. Indicate in your SWPPP the frequency of sweeping or equivalent measures. Determine the frequency from the amount of industrial activity occurring in the area and the frequency of precipitation, but it must be performed at least once a week if cement, aggregate, kiln dust, fly ash or settled dust are being handled/processed. You must also prevent the exposure of fine granular solids (cement, fly ash, kiln dust, *etc.*) to storm water where practicable, by storing these materials in enclosed silos/hoppers, buildings or under other covering.
6.E.3.3 *Inspections.* (See also Part 4.2.7.2.1.5) Perform inspections while the facility is in operation and include all of the following areas exposed to storm water: material handling areas, above ground storage tanks, hoppers or silos, dust collection/containment systems, truck wash down/equipment cleaning areas.
6.E.3.4 *Certification.* (See also Part 4.4.1) For facilities producing ready-mix concrete, concrete block, brick or similar products, include in the non-storm water discharge certification a description of measures that insure that process waste water resulting from truck washing, mixers, transport buckets, forms or other equipment are discharged in accordance with NPDES requirements or are recycled.

6.E.4 Monitoring and Reporting Requirements. (See also Part 5)

TABLE E–1.—SECTOR-SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitaiton [2]
Sector of Permit Affected/Supplemental Requirements			
Clay Product Manufacturers (SIC 3245–3259,3261–3269)	Total Recoverable Aluminum.	0.75 mg/L	
Concrete and Gypsum Product Manufacturers (SIC 3271–3275).	TSS	100 mg/L	
	Total Recoverable Iron	1.0 mg/L	
Cement Manufacturing Facility, Material Storage Runoff: Any discharge composed of runoff that derives from the storage of materials including raw materials, intermediate products, finished products, and waste materials that are used in or derived from the manufacture of cement.	Total Suspended Solids (TTS≤.	50 mg/L daily max..	
	pH		6.0–9.0 S.U.

[1] Monitor once/quarter for the year 2 and year 4 monitoring years.
[2] Monitor once per year for each monitoring year.

6.F Sector F—Primary Metals

6.F.1 Covered Storm Water Discharges

The requirements in Part 6.F apply to storm water discharges associated with industrial activity from Primary Metals facilities as identified by the SIC Codes specified under Sector F in Table 1–1 of Part 1.2.1.

6.F.2 Industrial Activities Covered by Sector F

The types of activities under this Part are facilities primarily engaged in are:

6.F.2.1 Steel works, blast furnaces, and rolling and finishing mills including: steel wire drawing and steel nails and spikes; cold-rolled steel sheet, strip, and bars; and steel pipes and tubes;

6.F.2.2 Iron and steel foundries, including: gray and ductile iron, malleable iron, steel investment, and steel foundries not elsewhere classified;

6.F.2.3 Primary smelting and refining of nonferrous metals, including: primary smelting and refining of copper, and primary production of aluminum;

6.F.2.4 Secondary smelting and refining of nonferrous metals;

6.F.2.5 Rolling, drawing, and extruding of nonferrous metals, including: rolling, drawing, and extruding of copper; rolling, drawing and extruding of nonferrous metals except copper and aluminum; and drawing and insulating of nonferrous wire;

6.F.2.6 Nonferrous foundries (castings), including: aluminum die-casting, nonferrous die-casting, except aluminum, aluminum foundries, copper foundries, and nonferrous foundries, except copper and aluminum;

6.F.2.7 Miscellaneous primary metal products, not elsewhere classified, including: metal heat treating, and primary metal products not elsewhere classified;

Activities covered include but are not limited to storm water discharges associated with cooking operations, sintering plants, blast furnaces, smelting operations, rolling mills, casting operations, heat treating, extruding, drawing, or forging all types of ferrous and nonferrous metals, scrap and ore.

6.F.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.F.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Also identify where any of the following activities may be exposed to precipitation/surface runoff: storage or disposal of wastes such as spent solvents/baths, sand, slag/dross; liquid storage tanks/drums; processing areas including pollution control equipment (*e.g.,* baghouses); and storage areas of raw material such as coal, coke, scrap, sand, fluxes, refractories or metal in any form. In addition, indicate where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions, losses from coal/coke handling operations, etc., and which could result in a discharge of pollutants to waters of the United States.

6.F.3.2 *Inventory of Exposed Material.* (See also Part 4.2.4) Include in the inventory of materials handled at the site that potentially may be exposed to precipitation/runoff, areas where deposition of particulate matter from process air emissions or losses during material handling activities are possible.

6.F.3.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1) As part of your good housekeeping program, include: a cleaning/maintenance program for all impervious areas of the facility where particulate matter, dust or debris may accumulate, especially areas where material loading/unloading, storage, handling and processing occur; the paving of areas where vehicle traffic or material storage occur but where vegetative or other stabilization methods are not practicable (institute a sweeping program in these areas too). For unstabilized areas where sweeping is not practicable, consider using storm water management devices such as sediment traps, vegetative buffer strips, filter fabric fence, sediment filtering boom, gravel outlet protection or other equivalent measures that effectively trap or remove sediment.

6.F.3.4 *Inspections.* (See also Part 4.2.7.2.1.5) Conduct inspections routinely, or at least on a quarterly basis, and address all potential sources of pollutants, including (if applicable): air pollution control equipment (*e.g.,* baghouses, electrostatic precipitators, scrubbers and cyclones) for any signs of degradation (*e.g.,* leaks, corrosion or improper operation) that could limit their efficiency and lead to excessive emissions. Consider monitoring air flow at inlets/outlets (or use equivalent measures) to check for leaks (*e.g.*, particulate deposition) or blockage in ducts. Also inspect all process and material handling equipment (*e.g.,* conveyors, cranes and vehicles) for leaks, drips or the potential loss of material; and material storage areas (*e.g.,* piles, bins or hoppers for storing coke, coal, scrap or slag, as well as chemicals stored in tanks/drums) for signs of material losses due to wind or storm water runoff.

6.F.4 Monitoring and Reporting Requirements. (See also Part 5)

TABLE F–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Sector of permit affected/supplemental requirements—			
Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cutoff concentration [1]	Numeric limitation
Steel Works, Blast Furnaces, and Rolling and Finishing Mills (SIC 3312–3317).	Total Recoverable Aluminum	0.75 mg/L	
	Total Recoverable Zinc	0.117 mg/L.	
Iron and Steel Foundries (SIC 3321–3325)	Total Recoverable Aluminum	0.75 mg/L.	
	Total Suspended Solids	100 mg/L	
	Total Recoverable Copper	0.0636 mg/L	
	Total Recoverable Iron	1.0 mg/L	
	Total Recoverable Zinc	0.117 mg/L.	
Rolling, Drawing, and Extruding of Non-Ferrous Metals (SIC 3351–3357).	Total Recoverable Copper	0.0636 mg/L	
	Total Recoverable Zinc	0.117 mg/L.	
Non-Ferrous Foundries (SIC 3363–3369)	Total Recoverable Copper	0.636 mg/L.	
	Total Recoverable Zinc	0.117 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.G Sector G—Metal Mining (Ore Mining and Dressing)

6.G.1 Covered Storm Water Discharges

The requirements in Part 6.G apply to storm water discharges associated with industrial activity from active, temporarily inactive and inactive metal mining and ore dressing facilities, including mines abandoned on Federal Lands, as identified by the SIC Codes specified under Sector G in Table 1–1 of Part 1.2.1. Coverage is required for facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the operation.

6.G.1.1 *Covered Discharges from Inactive Facilities:* All storm water discharges.

6.G.1.2 *Covered Discharges from Active and Temporarily Inactive Facilities:* Only the storm water discharges from the following areas are covered: waste rock/overburden piles if composed entirely of storm water and not combining with mine drainage; topsoil piles; offsite haul/access roads; onsite haul/access roads constructed of waste rock/overburden/spent ore if composed entirely of storm water and not combining with mine drainage; onsite haul/access roads not constructed of waste rock/overburden/spent ore except if mine drainage is used for dust control; runoff from tailings dams/dikes when not constructed of waste rock/tailings and no process fluids are present; runoff from tailings dams/dikes when constructed of waste rock/tailings if and no process fluids are present if composed entirely of storm water and not combining with mine drainage; concentration building if no contact with material piles; mill site if no contact with material piles; office/administrative building and housing if mixed with storm water from industrial area; chemical storage area; docking facility if no excessive contact with waste product that would otherwise constitute mine drainage; explosive storage; fuel storage; vehicle/equipment maintenance area/building; parking areas (if necessary); power plant; truck wash areas if no excessive contact with waste product that would otherwise constitute mine drainage; unreclaimed, disturbed areas outside of active mining area; reclaimed areas released from reclamation bonds prior to December 17, 1990; and partially/inadequately reclaimed areas or areas not released from reclamation bonds.

6.G.2 Industrial Activities Covered by Sector G

Note: ''metal mining'' will connote any of the separate activities listed in Part 6.G.2. The types of activities that permittees under Sector G are primarily engaged in are:

6.G.2.1 exploring for metallic minerals (ores), developing mines and the mining of ores;

6.G.2.2 ore dressing and beneficiating, whether performed at co-located, dedicated mills or separate (*i.e.,* custom) mills.

6.G.3 Limitations on Coverage

6.G.3.1 *Prohibition of Storm Water Discharges.*

Storm water discharges not authorized by this permit: discharges from active metal mining facilities which are subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR Part 440).

Note: discharges that come in contact with overburden/waste rock are subject to 40 CFR Part 440, providing: the discharges drain to a point source (either naturally or as a result of intentional diversion) and they combine with ''mine drainage'' that is otherwise regulated under the Part 440 regulations. Discharges from overburden/waste rock can be covered under this permit if they are composed entirely of storm water, do not combine with sources of mine drainage that are subject to 40 CFR Part 440, and meet other eligibility criteria contained in Part 1.2.2.1.

6.G.3.2 *Prohibition of Non-Storm Water Discharges.*

Not authorized by this permit: adit drainage and contaminated springs or seeps (see also the standard Limitations on Coverage in Part 1.2.3).

6.G.4 Definitions

6.G.4.1 *Mining Operation*—typically consists of three phases, any one of which individually qualifies as a ''mining activity.'' The phases are the exploration and construction phase, the active phase, and the reclamation phase.

6.G.4.2 *Exploration and Construction Phase*—entails exploration and land disturbance activities to determine the financial viability of a site. Construction includes the building of site access roads and removal of overburden and waste rock to expose mineable minerals.

6.G.4.3 *Active Phase*—activities including each step from extraction through production of a salable product.

6.G.4.4 *Reclamation Phase*—activities intended to return the land to its pre-mining use

The following definitions are not intended to supercede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii).

6.G.4.5 *Active Metal Mining Facility*—a place where work or other activity related to the extraction, removal or recovery of metal ore is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun.

6.G.4.6 *Inactive Metal Mining Facility*—a site or portion of a site where metal mining and/or milling occurred in the past but is not an active facility as defined above, and where the inactive portion is not covered by an active mining permit issued by the applicable State or Federal government agency.

6.G.4.7 *Temporarily Inactive Metal Mining Facility*—a site or portion of a site where metal mining and/or milling occurred in the past but currently are not being actively undertaken, and the facility is covered by an active mining permit issued by the applicable State or Federal government agency.

6.G.5 Clearing, Grading and Excavation Activities

Clearing, grading and excavation activities being conducted as part of the exploration and construction phase of a mining operation cannot be covered under this permit if these activities will disturb one or more acre of land. Instead, coverage for these activities must be under the latest version of EPA's General Permit for Storm Water Discharges from Construction Activities (the ''Construction General Permit;'' **Federal Register**, Vol. 63, p. 7858 and for Region 6, **Federal Register**, Vol. 63, p. 36490), or an individual construction permit. If the area of disturbance during the initial phase is less than one acre, you must continue to comply with the requirements of the MSGP–2000.

6.G.5.1 *Requirements for Activities Disturbing 5 or More Acres of Earth.* If the one-acre limit as defined in Part 6.G.5 is attained, coverage for these activities must be under the latest version of EPA's Construction General Permit (or individual permit). You must first obtain and comply with the Construction General Permit's requirements before submitting the separate Construction General Permit Notice of Intent (NOI) form (EPA Form 3510–9). The February 17, 1998 version of the permit can be downloaded from the EPA's Web Site at *www.epa.gov/owm/sw/construction/cgp/cgp-nat.pdf* and Region 6's July 6, 1998 version of the permit at *www.epa.gov/owm/sw/construction/cgp/cgp-reg6.pdf* or obtained from the Office of Water Resource Center at (202) 260–7786. The NOI form is also available from the Web Site at *www.epa.gov/owm/sw/construction/connoi.pdf* or from your EPA Regional office at the address listed under Part 8.3. Discharges in compliance with the provisions of the Construction General Permit are also authorized under the MSGP.

6.G.5.2 *Cessation of Earth Disturbing Activities.* If exploration phase clearing, grading and excavation activities are completed and no further mining activities will occur at the site, you must comply with the requirements for terminating the Construction General Permit, *i.e.,* stabilize and revegetate the disturbed land, submit a Notice of Termination, etc. If active mining activities will ensue, you must apply for coverage under the MSGP–2000 for your storm water discharges and be prepared to implement any new requirements prior to beginning the active phase. It is recommended you terminate your coverage under the Construction General Permit, but it is not mandatory that you do so. If you choose not to terminate your construction General Permit, you will be responsible for complying with all permit conditions of the construction permit in addition to those of the MSGP–2000. The Notice of Termination form is Addendum E to this permit and is available at http://www.epa.gov/owm/sw/industry/msgp/notform.pdf.

6.G.6 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.G.6.1 *SWPPP Requirements for Active and Temporarily Inactive Metal Mining Facilities.*

6.G.6.1.1 *Nature of Industrial Activities.* (See also Part 4.2.2.1) Briefly describe the mining and associated activities that can potentially affect the storm water discharges covered by this permit, including: the total acreage within the mine site; the estimated acreage of disturbed land; the estimated acreage of land proposed to be disturbed throughout the life of the mine; and a general description of the location of the site relative to major transportation routes and communities.

6.G.6.1.2 *Site Map.* (See also Part 4.2.2.3) Also identify the locations of the following (as appropriate): mining/milling site boundaries; access and haul roads; outline of the drainage areas of each storm water outfall within the facility and indicate the types of discharges from the drainage areas; equipment storage, fueling and maintenance areas; materials handling areas; outdoor manufacturing, storage or material disposal areas; chemicals and explosives storage areas; overburden, materials, soils or waste storage areas; location of mine drainage (where water leaves mine) or other process water; tailings piles/ponds (including proposed ones); heap leach pads; off-site points of discharge for mine drainage/process water; surface waters; and boundary of tributary areas that are subject to effluent limitations guidelines.

6.G.6.1.3 *Potential Pollutant Sources.* (See also Part 4.2.4) For each area of the mine/mill site where storm water discharges associated with industrial activities occur, identify the types of pollutants (e.g., heavy metals, sediment) likely to be present in significant amounts. Consider these factors: the mineralogy of the ore and waste rock (*e.g.,* acid forming); toxicity and quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; vegetation of site (if any); history of significant leaks/spills of toxic or hazardous pollutants. Also include a summary of any existing ore or waste rock/overburden characterization data and test results for potential generation of acid rock. If any new data is acquired due to changes in ore type being mined, update your SWPPP with this information.

6.G.6.1.4 *Site Inspections.* (See also Part 4.2.7.2.1.5) Inspect active mining sites at least monthly. Inspect temporarily inactive sites at least quarterly unless adverse weather conditions make the site inaccessible.

6.G.6.1.5 *Employee Training.* (See also Part 4.2.7.2.1.6) Conduct employee training at least annually at active mining and temporarily inactive sites.

6.G.6.1.6 *Controls.* (See also Part 4.2.7) Consider each of the following BMPs. The potential pollutants identified in Part 6.G.6.1.3 shall determine the priority and appropriateness of the BMPs selected. If you determine that one or more of these BMPs are not appropriate for your facility, explain why it is not appropriate. If BMPs are implemented or planned but are not listed here (*e.g.,* substituting a less toxic chemical for a more toxic one), include descriptions of them in your SWPPP.

6.G.6.1.6.1 *Storm Water Diversions.* Consider diverting storm water away from potential pollutant sources. BMP options: interceptor/diversion controls (*e.g.,* dikes, swales, curbs or berms); pipe slope drains; subsurface drains; conveyance systems (*e.g.,* channels or gutters, open top box culverts and waterbars; rolling dips and road sloping; roadway surface water deflector, and culverts); or their equivalents.

6.G.6.1.6.2 *Sediment and Erosion Control.* (See also Part 4.2.7.2.2.1) At active and temporarily inactive sites consider a range of erosion controls within the broad categories of: flow diversion (*e.g.,* swales); stabilization (*e.g.,* temporary or permanent seeding); and structural controls (*e.g.,* sediment traps, dikes, silt fences).

6.G.6.1.6.3 *Management of Runoff.* (See also Part 4.2.7.2.2.2) Consider the potential pollutant sources given in Part 6.G.6.1.3 when determining reasonable and appropriate measures for managing runoff.

6.G.6.1.6.4 *Capping.* When capping is necessary to minimize pollutant discharges in storm water, identify the source being capped and the material used to construct the cap.

6.G.6.1.6.5 *Treatment.* If treatment of storm water (*e.g.,* chemical or physical systems, oil/water separators, artificial wetlands, etc.) from active and temporarily inactive sites is necessary to protect water quality, describe the type and location of treatment used.

6.G.6.1.6.6 *Certification of Discharge Testing.* (See also Part 4.4.1) Test or evaluate for the presence of specific mining-related non-storm water discharges such as seeps or adit discharges or discharges subject to effluent limitations guidelines (*e.g.,* 40 CFR Part 440), such as mine drainage or process water. Alternatively (if applicable), you may certify in your SWPPP that a particular discharge comprised of commingled storm water and non-storm water is covered under a separate NPDES permit; and that permit subjects the non-storm water portion to effluent limitations prior to any commingling. This certification shall identify the non-storm water discharges, the applicable NPDES permit(s), the effluent limitations placed on the non-storm water discharge by the permit(s), and the points at which the limitations are applied.

6.G.6.2 *SWPPP Requirements for Inactive Metal Mining Facilities.*

6.G.6.2.1 *Nature of Industrial Activities.* (See also Part 4.2.2.1) Briefly describe the mining and associated activities that took place at the site that can potentially affect the storm water discharges covered by this permit. Include: approximate dates of operation; total acreage within the mine and/or processing site; estimate of acres of disturbed earth; activities currently occurring onsite (*e.g.,* reclamation); a general description of site location with respect to transportation routes and communities.

6.G.6.2.2 *Site Map.* (See also Part 4.2.2.3) See Part 6.G.6.1.2 for requirements.

6.G.6.2.3 *Potential Pollutant Sources.* (See also Part 4.2.4) See Part 6.G.6.1.3 for requirements.

6.G.6.2.4 *Controls.* (See also Part 4.2.7) Consider each of the following BMPs. The potential pollutants identified in Part 6.G.6.2.3 shall determine the priority and appropriateness of the BMPs selected. If you determine that one or more of these BMPs are not appropriate for your facility, explain why it is not appropriate. If BMPs are implemented or planned but are not listed here (*e.g.,* substituting a less toxic chemical for a more toxic one), include descriptions of them in your SWPPP. The non-structural controls in the general requirements at Part 4.2.7.2.1 are not required for inactive facilities.

6.G.6.2.4.1 *Storm Water Diversions.* See Part 6.G.6.1.6.2 for requirements.

6.G.6.2.4.2 *Sediment and Erosion Control.* (See also Part 4.2.7.2.2.1) See Part 6.G.6.1.6 for requirements.

6.G.6.2.4.3 *Management of Runoff.* (See also Part 4.2.7.2.2.2)

Also consider the potential pollutant sources as described in Part 6.G.6.2.3 (Summary of Potential Pollutant Sources) when determining reasonable and appropriate measures for managing runoff.

6.G.6.2.4.4 *Capping.* See Part 6.G.6.1.7 for requirements.

6.G.6.2.4.5 *Treatment.* See Part 6.G.6.1.8 for requirements.

6.G.6.2.5 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9)

Annual site compliance evaluations may be impractical for inactive mining sites due to remote location/inaccessibility of the site; in which case conduct the evaluation at least once every 3 years. Document in the SWPPP why annual compliance evaluations are not possible. If the evaluations will be conducted more often than every 3 years, specify the frequency of evaluations.

6.G.7 Monitoring and Reporting Requirements. (See also Part 5)

6.G.7.1 *Analytic Monitoring for Copper Ore Mining and Dressing Facilities.* Active copper ore mining and dressing facilities must sample and analyze storm water discharges for the pollutants listed in Table G–1.

TABLE G–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING FOR COPPER ORE MINING AND DRESSING FACILITIES

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Copper Ore Mining and Dressing Facilities (SIC 1021)	Total Suspended Solids (TSS).	100 mg/L.	
	Nitrate plus Nitrite Nitrogen	0.68 mg/L.	
	Chemical Oxygen Demand (COD).	120 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.G.7.2 *Analytic Monitoring Requirements for Discharges From Waste Rock and Overburden Piles at Active Ore Mining and Dressing Facilities.*For discharges from waste rock and overburden piles, perform analytic monitoring at least once within the first year of permit coverage for the parameters listed in Table G–2, and twice annually thereafter for any parameters measured above the benchmark value (based on the initial sampling event) listed in Table G–2. Permittees must also conduct analytic monitoring twice annually for the parameters listed in Table G–3. The twice annual samples must be collected once between January 1 and June 30 and once between July 1 and December 31, with at least 3 months separating the storm events. The director may, however, notify you that you must perform additional monitoring to accurately characterize the quality and quantity of pollutants discharged from your waste rock/overburden piles. Monitoring requirements for discharges from waste rock and overburden piles are not eligible for the waivers in Part 5.3.2.

TABLE G–2.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING FOR DISCHARGES FROM WASTE ROCK AND OVERBURDEN PILES FROM ACTIVE ORE MINING OR DRESSING FACILITIES

Part of permit affected/supplemental requirements—			
Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cutoff concentration [1]	Numeric limitation
Iron Ores; Copper Ores; Lead and Zinc Ores; Gold and Silver Ores; Ferroalloy Ores Except Vanadium; Miscellaneous Metal Ores (SIC Codes 1011, 1021, 1031, 1041, 1044, 1061, 1081, 1094, 1099).	Total Suspended Solids (TSS)	100 mg/L.	
	Turbidity (NTUs)	5 NTUs above background.	
	pH	6.0–9.0 standard units.	
	Hardness (as $CaCO_3$)	no benchmark value.	
See above, as applicable	Antimony, Total	0.636 mg/L.	
	Arsenic, Total	0.16854 mg/L.	
	Beryllium, Total	0.13 mg/L.	
	Cadmium, Total (hardness dependent)	0.0159 mg/L.	
	Copper, Total (hardness dependent)	0.0636 mg/L.	
	Iron, Total	1.0 mg/L.	
	Lead, Total (hardness dependent)	0.0816 mg/L.	
	Manganese, Total	1.0 mg/L.	
	Mercury, Total	0.0024 mg/L.	
	Nickel, Total (hardness dependent)	1.417 mg/L.	
	Selenium, Total	0.2385 mg/L.	
	Silver, Total (hardness dependent)	0.318 mg/L.	
	Zinc, Total (hardness dependent)	0.117 mg/L.	

[1] Monitor at least once during the first year of permit coverage, and twice annually thereafter for any parameter that exceeds the benchmark value. Facilities that monitored for the full list of Table G–2 parameters during the previous permit need not sample the entire list again, however they must continue twice annual monitoring for parameters that exceeded the benchmark values in the initial sampling event.

6.G.7.2.1 Additional Analytic Monitoring Requirements for Discharges From Waste Rock and Overburden Piles.

Table G–3 contains additional monitoring requirements for specific ore mine categories. Perform the monitoring twice annually using the schedule established in Part 6.G.7.2. The initial sampling event for a pollutant parameter required in Table G–2 satisfies the requirement for the first sample of any pollutant measurement in Table G–3.

TABLE G–3.—ADDITIONAL MONOTORING REQUIREMENTS FOR DISCHARGES FROM WASTE ROCK AND OVERBURDEN PILES FROM ACTIVE ORE MINING OR DRESSING FACILITIES

Supplemental requirements—			
Type of Ore mined	Pollutants of concern		
	Total suspended solids (TSS)	pH	Metals, total
Tungsten Ore	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Zinc (H).
Nickel Ore	X	X	Arsenic, Cadmium (H), Copper (H), Lead (H), Zinc (H).
Aluminum Ore	X	X	Iron.
Mercury Ore	X	X	Nickel (H).
Iron Ore	X	X	Iron (Dissolved).
Platinum Ore	....	....	Cadmium (H), Copper (H), Mercury, Lead (H), Zinc (H).
Titanium Ore	X	X	Iron, Nickel (H), Zinc (H).
Vanadium Ore	X	X	Arsenic, Cadmium (H), Copper (H), Zinc (H).
Copper, Lead, Zinc, Gold, Silver and Molybdenum	X	X	Arsenic, Cadmium (H), Copper (H), Lead, Mercury, Zinc (H).
Uranium, Radium and Vanadium	X	X	Chemical Oxygen Demand, Arsenic, Radium (Dissolved and Total), Uranium, Zinc (H).

Note: (H) indicates that hardness must also be measured when this pollutant is measured.

6.G.7.2.2 *Reporting Requirements Storm Water Discharges From Waste Rock And Overburden Piles From Active Ore Mining or Dressing Facilities.* From active ore mining and dressing facilities, submit monitoring results for each outfall discharging storm water from waste rock and overburden piles, or certifications in accordance with Part 7. Submit monitoring reports on discharge monitoring report (DMR) forms postmarked no later than January 28 of the next year after the samples were collected.

TABLE G–4.—APPLICABILITY OF THE MULTI-SECTOR GENERAL PERMIT TO STORM WATER RUNOFF FROM ACTIVE ORE (METAL) MINING AND DRESSING SITES

Discharge/source of discharge	Note/comment
Piles	
Waste rock/overburden	If composed entirely of storm water and not combining with mine drainage. See Note below.
Topsoil	
Roads constructed of waste rock or spent ore	
Onsite haul roads	If composed entirely of storm water and not combining with mine drainage. See Note below.
Offsite haul/access roads	
Roads not constructed of waste rock or spent ore	
Onsite haul roads	Except if ''mine drainage'' is used for dust control.
Offsite haul/access roads	
Milling/concentrating	
Runoff from tailings dams/dikes when constructed of waste rock/tailings	Except if process fluids are present and only if composed entirely of storm water and not combining with mine drainage. See Note below.
Runoff from tailings dams/dikes when not constructed of waste rock/tailings	Except if process fluids are present.
Concentration building	If storm water only and no contact with piles.
Mill site	If storm water only and no contact with piles.
Ancillary areas	
Office/administrative building and housing	If mixed with storm water from the industrial area.
Chemical storage area	
Docking facility	Except if excessive contact with waste product that would otherwise constitute ''mine drainage''.
Explosive storage	
Fuel storage (oil tanks/coal piles)	
Vehicle/equipment maintenance area/building	
Parking areas	But coverage unnecessary if only employee and visitor-type parking.
Power plant	
Truck wash area	Except when excessive contact with waste product that would otherwise constitute ''mine drainage''.
Reclamation-related areas	
Any disturbed area (unreclaimed)	Only if not in active mining area.
Reclaimed areas released from reclamation bonds prior to Dec. 17 1990.	
Partially/inadequately reclaimed areas or areas not released from reclamation bond.	

Note: Storm water runoff from these sources are subject to the NPDES program for storm water unless mixed with discharges subject to the 40 CFR Part 440 that are not regulated by another permit prior to mixing. Non-storm water discharges from these sources are subject to NPDES permitting and may be subject to the effluent limitation guidelines under 40 CFR Part 440.

Discharges from overburden/waste rock and overburden/waste rock-related areas are not subject to 40 CFR Part 440 unless: (1) it drains naturally (or is intentionally diverted) to a point source; and (2) combines with ''mine drainage'' that is otherwise regulated under the Part 440 regulations. For such sources, coverage under this permit would be available if the discharge composed entirely of storm water does not combine with other sources of mine drainage that are not subject to 40 CFR Part 440, as well as meeting other eligibility criteria contained in Part I.B. of the permit. Permit applicants bear the initial responsibility for determining the applicable technology-based standard for such discharges. EPA recommends that permit applicants contact the relevant NPDES permit issuance authority for assistance to determine the nature and scope of the ''active mining area'' on a mine-by-mine basis, as well as to determine the appropriate permitting mechanism for authorizing such discharges.

6.H Sector H—Coal Mines and Coal Mining Related Facilities

6.H.1 Covered Storm Water Discharges

The requirements in Part 6.H apply to storm water discharges associated with industrial activity from Coal Mines and Coal Mining Related facilities as identified by the SIC Codes specified under Sector H in Table 1–1 of Part 1.2.1.

6.H.2 Industrial Activities Covered by Sector H

Storm water discharges from the following portions of coal mines may be eligible for this permit:

6.H.2.1 Haul roads (nonpublic roads on which coal or coal refuse is conveyed);

6.H.2.2 Access roads (nonpublic roads providing light vehicular traffic within the facility property and to public roadways);

6.H.2.3 Railroad spurs, siding and internal haulage lines (rail lines used for hauling coal within the facility property and to offsite commercial railroad lines or loading areas);

6.H.2.4 Conveyor belts, chutes and aerial tramway haulage areas (areas under and around coal or refuse conveyer areas, including transfer stations); and

6.H.2.5 Equipment storage and maintenance yards, coal handling buildings and structures, and inactive coal mines and related areas (abandoned and other inactive mines, refuse disposal sites and other mining-related areas).

6.H.3 Limitation on Coverage

6.H.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.2.2) Not covered by this permit: discharges from pollutant seeps or underground drainage from inactive coal mines and refuse disposal areas that do not result from precipitation events; and discharges from floor drains in maintenance buildings and other similar drains in mining and preparation plant areas.

6.H.3.2 *Discharges Subject to Storm Water Effluent Guidelines.* (See also Part 1.2.3.4) Not authorized by this permit: storm water discharges subject to an existing effluent limitation guideline at 40 CFR Part 434.

6.H.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4 of the MSGP.

6.H.4.1 *Other Applicable Regulations.* Most active coal mining-related areas (SIC Codes 1221–1241) are subject to sediment and erosion control regulations of the U.S. Office of Surface Mining (OSM) that enforces the Surface Mining Control and Reclamation Act (SMCRA). OSM has granted authority to most coal producing states to implement SMCRA through State SMCRA regulations. All SMCRA requirements regarding control of storm water-related pollutant discharges must be addressed in the SWPPP (directly or by reference).

6.H.4.2 *Drainage Area Site Map.* (See also Part 4.2.2.3) Also identify where any of the following may be exposed to precipitation/surface runoff: all applicable mining related areas described in Part 6.H.2; acidic spoil, refuse or unreclaimed disturbed areas, and liquid storage tanks containing pollutants such as caustics, hydraulic fluids and lubricants.

6.H.4.3 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following sources and activities that have potential pollutants associated with them: truck traffic on haul roads and resulting generation of sediment subject to runoff and dust generation; fuel or other liquid storage; pressure lines containing slurry, hydraulic fluid or other potential harmful liquids; and loading or temporary storage of acidic refuse/spoil.

6.H.4.4 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1) As part of your good housekeeping program, consider: using sweepers; covered storage; watering haul roads to minimize dust generation; and conserving vegetation (where possible) to minimize erosion.

6.H.4.5 *Preventive Maintenance.* (See also Part 4.2.7.2.1.3) Also perform inspections of storage tanks and pressure lines of fuels, lubricants, hydraulic fluid or slurry to prevent leaks due to deterioration or faulty connections; or other equivalent measures.

6.H.4.6 *Inspections of Active Mining-Related Areas and Inactive Areas Under SMCRA Bond Authority.* (See also Part 4.2.7.2.1.5) Perform quarterly inspections of areas covered by this permit, corresponding with the inspections, as performed by SMCRA inspectors, of all mining-related areas required by SMCRA. Also maintain the records of the SMCRA authority representative.

6.H.4.7 *Sediment and Erosion Control.* (See also Part 4.2.7.2.2.1) As indicated in Part 6.H.4.1 above, SMCRA requirements regarding sediment and erosion control measures are primary requirements of the SWPPP for mining-related areas subject to SMCRA authority.

6.H.4.8 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9.2) Include in your evaluation program, inspections for pollutants entering the drainage system from activities located on or near coal mining-related areas. Among the areas to be inspected: haul and access roads; railroad spurs, sliding and internal hauling lines; conveyor belts, chutes and aerial tramways; equipment storage and maintenance yards; coal handling buildings/structures; and inactive mines and related areas.

6.H.6 Monitoring and Reporting Requirements. (See also Part 5)

TABLE H–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cutoff concentration[1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Coal Mines and Related Areas (SIC 1221–1241)	Total Recoverable Aluminum	0.75 mg/L.	
	Total Recoverable Iron	1.0 mg/L.	
	Total Suspended Solids	100 mg/L..	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.I Sector I—Oil and Gas Extraction and Refining

6.I.1 Covered Storm Water Discharges

The requirements in Part 6.I apply to storm water discharges associated with industrial activity from Oil and Gas Extraction and Refining facilities as identified by the SIC Codes specified under Sector I in Table 1–1 of Part 1.2.1.

6.I.2 Industrial Activities Covered By Sector I

The types of activities that permittees under Sector I are primarily engaged in are:

6.I.2.1 Oil and gas exploration, production, processing or treatment operations, or transmission facilities;

6.I.2.2 Extraction and production of crude oil, natural gas, oil sands and shale; the production of hydrocarbon liquids and natural gas from coal; and associated oil field service, supply and repair industries.

6.I.3 Limitations On Coverage

6.I.3.1 *Prohibition of Storm Water Discharges.* This permit does not authorize contaminated storm water discharges from petroleum refining or drilling operations that are subject to nationally established BAT or BPT guidelines found at 40 CFR Parts 419 and 435, respectively. Note: most contaminated discharges at petroleum refining and drilling facilities are subject to these effluent guidelines and are not eligible for coverage by this permit.

6.I.3.2 *Prohibition of Non-Storm Water Discharges.* Not authorized by this permit: discharges of vehicle and equipment washwater, including tank cleaning operations.

Alternatively, washwater discharges must be authorized under a separate NPDES permit, or be discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements.

6.I.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.I.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: Reportable Quantity (RQ) releases; locations used for the treatment, storage or disposal of wastes; processing areas and storage areas; chemical mixing areas; construction and drilling areas; all areas subject to the effluent guidelines requirements for ''No Discharge'' in accordance with 40 CFR 435.32; and the structural controls to achieve compliance with the ''No Discharge'' requirements.

6.I.4.2 *Potential Pollutant Sources.* (See also Part 4.2.4)

Also describe the following sources and activities that have potential pollutants associated with them: chemical, cement, mud or gel mixing activities; drilling or mining activities; and equipment cleaning and rehabilitation activities. In addition, include information about the RQ release that triggered the permit application requirements; the nature of release (*e.g.,* spill of oil from a drum storage area); the amount of oil or hazardous substance released; amount of substance recovered; date of the release; cause of the release (*e.g.,* poor handling techniques and lack of containment in the area); areas affected by the release (i.e., land and water); procedure to clean up release; actions or procedures implemented to prevent or improve response to a release; and remaining potential contamination of storm water from release (taking into account human health risks, the control of drinking water intakes and the designated uses of the receiving water).

6.I.4.3 *Inspections.* (See also Part 4.2.7.2.1.5)

6.I.4.3.1 *Inspection Frequency.* Inspect all equipment and areas addressed in the SWPPP at a minimum of 6-month intervals. Routinely (but not less than quarterly) inspect equipment and vehicles which store, mix (including all on and offsite mixing tanks) or transport chemicals/hazardous materials (including those transporting supplies to oil field activities).

6.I.4.3.2 *Temporarily or Permanently Inactive Oil and Gas Extraction Facilities.* For these facilities that are remotely located and unstaffed, perform the inspections at least annually.

6.I.4.4 *Sediment and Erosion Control.* (See also Part 4.2.7.2.2.1) Unless covered by the General Permit for Construction Activity, the additional sediment and erosion control requirements for well drillings, and sand/shale mining areas include the following:

6.I.4.4.1 *Site Description:* Also include: a description of the nature of the exploration activity; estimates of the total area of site and area disturbed due to exploration activity; an estimate of runoff coefficient of the site; site drainage map, including approximate slopes; and the name of all receiving waters. All sediment and erosion control measures must be inspected once every seven days.

6.I.4.4.2 *Vegetative Controls:* Describe and implement vegetative practices designed to preserve existing vegetation where attainable and re-vegetate open areas as soon as practicable after grade drilling. Consider the following (or equivalent measures): temporary or permanent seeding, mulching, sod stabilization, vegetative buffer strips, tree protection practices. Begin implementing appropriate vegetative practices on all disturbed areas within 14 days following the last activity in that area.

6.I.4.5 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.I.4.5.1 *Vehicle and Equipment Storage Areas.* Confine vehicles/equipment awaiting or having undergone maintenance to designated areas (as marked on site map). Describe and implement measures to minimize contaminants from these areas (*e.g.,* drip pans under equipment, indoor storage, use of berms or dikes, or other equivalent measures).

6.I.4.5.2 *Material and Chemical Storage Areas.* Maintain these areas in good conditions to prevent contamination of storm water. Plainly label all hazardous materials.

6.I.4.5.3 *Chemical Mixing Areas.* (See also Part 4.4)

Describe and implement measures that prevent or minimize contamination of storm water runoff from chemical mixing areas.

6.J Sector J—Mineral Mining and Dressing

6.J.1 Covered Storm Water Discharges

The requirements in Part 6.J apply to storm water discharges associated with industrial activity from active and inactive mineral mining and dressing facilities as identified by the SIC Codes specified under Sector J in Table 1–1 of Part 1.2.1.

6.J.2 Industrial Activities Covered by Sector J

The types of activities that permittees under Sector J are primarily engaged in are:

6.J.2.1 exploring for minerals (*e.g.,* stone, sand, clay, chemical and fertilizer minerals, non-metallic minerals, etc.), developing mines and the mining of minerals; and

6.J.2.2 mineral dressing, and non-metallic mineral services.

6.J.3 Limitations on Coverage

Not authorized by this permit: most storm water discharges subject to an existing effluent limitation guideline at 40 CFR part 436. The exceptions to this limitation and which are therefore covered by the MSGP–2000 are mine dewatering discharges composed entirely of storm water or ground water seepage from: construction sand and gravel, industrial sand, and crushed stone mining facilities in Regions 1, 2, 3, 6, 8, 9, and 10.

6.J.4 Definitions

6.J.4.1 *Mining Operation*—typically consists of three-phases, any one of which individually qualifies as a ''mining activity.'' The phases are the exploration and construction phase, the active phase and the reclamation phase.

6.J.4.2 *Exploration and Construction Phase*—entails exploration and land disturbance activities to determine the financial viability of a site. Construction includes the building of site access roads and removal of overburden and waste rock to expose mineable minerals.

6.J.4.3 *Active Phase*—activities including each step from extraction through production of a salable product.

6.J.4.4 *Reclamation phase*—activities intended to return the land to its pre-mining state.

Note: The following definitions are not intended to supercede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii).

6.J.4.5 *Active Mineral Mining Facility*—a place where work or other activity related to the extraction, removal or recovery of minerals is being conducted. This definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun.

6.J.4.6 *Inactive Mineral Mining Facility*—a site or portion of a site where mineral mining and/or dressing occurred in the past but is not an active facility as defined above, and where the inactive portion is not covered by an active permit issued by the applicable State or Federal government agency.

6.J.4.7 *Temporarily Inactive Mineral Mining Facility*—a site or portion of a site where mineral mining and/or dressing occurred in the past but currently are not being actively undertaken, and the facility is covered by an active mining permit issued by the applicable State or Federal government agency.

6.J.5 Clearing, Grading and Excavation Activities

Clearing, grading and excavation activities being conducted as part of the exploration and construction phase of a mineral mining operation cannot be covered under this permit if these activities will disturb one or more acre of land. Instead, coverage for these activities must be under the latest version of EPA's General Permit for Storm Water Discharges from Construction Activities (the ''Construction General Permit;'' **Federal Register**, Vol. 63, p. 7858) and, for Region 6, **Federal Register**, Vol. 63, p. 36490), or an individual construction permit. If the area of disturbance during the initial phase is less than one acre, you must continue to comply with the requirements of the MSGP–2000.

6.J.5.1 *Obtaining Coverage Under the Construction General Permit.* If the one-acre limit as described in Part 6.J.5 is attained, coverage for these activities must be under the latest version of EPA's Construction General Permit (or individual permit). You must first obtain and comply with the Construction General Permit's requirements before submitting the separate Construction General Permit Notice of Intent (NOI) form (EPA Form 3510–9). The February 17, 1998 version of the permit can be downloaded from the EPA's Web Site at *http://www.epa.gov/owm/sw/construction/cgp/cgp-nat.pdf* or obtained from the Office of Water Resource Center at (202) 260–7786. The NOI form is also available from the Web Site at *http://www.epa.gov/owm/sw/construction/connoi.pdf* or from your EPA Regional office at the address listed under Part 8.3. Discharges in compliance with the provisions of the Construction General Permit are also authorized under the MSGP.

6.J.5.2 *Cessation of Exploration and Construction Activities.* If exploration phase clearing, grading and excavation activities are completed and no further mining activities will occur at the site, you must comply with the requirements for terminating the Construction General Permit, *i.e.,* stabilize and revegetate the disturbed land, submit a Notice of Termination, etc. If active mining operations will ensue, you must apply for coverage under the MSGP–2000 for your storm water discharges and be prepared to implement any new requirements prior to beginning the active phase. It is recommended you terminate your coverage under the construction general permit, but you are not required to do so. If you choose to not terminate, you will be responsible for complying with all permit conditions of the construction permit in addition to those of the MSGP–2000. The Notice of Termination form is available in Addendum F to this permit and at *http://www.epa.gov/owm/sw/industry/msgp/notform.pdf.*

6.J.6 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4 of the MSGP.

6.J.6.1 *Inspections.* (See also Part 4.2.7.2.1.5) Conduct quarterly visual inspections of all BMPs at active mining facilities. At temporarily or permanently inactive facilities, perform annual inspections. Include in your inspection program: assessment of the integrity of storm water discharge diversions, conveyance systems, sediment control and collection systems and containment structures; inspections to determine if soil erosion has occurred at, or as a result of vegetative BMPs, serrated slopes and benched slopes; inspections of material handling and storage areas and other potential sources of pollution for evidence of actual or potential discharges of contaminated storm water.

6.J.7 Monitoring and Reporting Requirements. (See also Part 5)

TABLE J–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
Part of Permit Affected/Supplemental Requirements			
Mine Dewatering Activities at Construction Sand and Gravel; Industrial Sand; and Crushed Stone Mining Facilities (SIC 1422–1429, 1442, 1446).	Total Suspended Solids		25 mg/L, monthly avg. 45 mg/L, daily max
	pH		6.0–9.0
Sand and Gravel Mining (SIC 1442, 1446)	Nitrate plus Nitrogen	0.68 mg/L.	
	Total Suspended Solids	100 mg/L.	

TABLE J–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING—Continued

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
Dimension and Crushed Stone and Nonmetallic Minerals (except fuels) (SIC 1411, 1422–1429, 1481, 1499).	Total Suspended Solids	100 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.
[2] Monitor once/year for Each Monitoring Year.

6.K Sector K—Hazardous Waste Treatment, Storage or Disposal Facilities

6.K.1 Covered Storm Water Discharges

The requirements in Part 6.K apply to storm water discharges associated with industrial activity from Hazardous Waste Treatment, Storage or Disposal facilities as identified by the Activity Code specified under Sector K in Table 1–1 of Part 1.2.1.

6.K.2 Industrial Activities Covered by Sector K

This permit authorizes storm water discharges associated with industrial activity from facilities that treat, store or dispose of hazardous wastes, including those that are operating under interim status or a permit under subtitle C of RCRA.

6.K.3 Limitations on Coverage

For facilities located in Region 6, coverage is limited to Hazardous Waste Treatment Storage or Disposal Facilities (TSDF's) that are self-generating or handle residential wastes only and to those facilities that only store hazardous wastes and do not treat or dispose. Those permits are issued by EPA Region 6 for Louisiana (LAR05*###), New Mexico (NMR05*###), Oklahoma (OKR05*###), and Federal Indian Reservations in these States (LAR05*##F, NMR05*##F, OKR05*##F, or TXR05*##F). Coverage under this permit is not available to commercial hazardous waste disposal/treatment facilities located in Region 6 that dispose and treat on a commercial basis any produced hazardous wastes (not their own) as a service to generators.

6.K.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not authorized by this permit: leachate, gas collection condensate, drained free liquids, contaminated ground water, laboratory-derived wastewater and contact washwater from washing truck and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.

6.K.4 Definitions

6.K.4.1 *Contaminated storm water*—storm water which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in Part 6.K.4.5. Some specific areas of a landfill that may produce contaminated storm water include (but are not limited to): the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.

6.K.4.2 *Drained free liquids*—aqueous wastes drained from waste containers (*e.g.,* drums, etc.) prior to landfilling.

6.K.4.3 *Land treatment facility*—a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

6.K.4.4 *Landfill*—an area of land or an excavation in which wastes are placed for permanent disposal, that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, a salt bed formation, an underground mine or a cave as these terms are defined in 40 CFR 257.2, 258.2 and 260.10.

6.K.4.5 *Landfill wastewater*—as defined in 40 CFR Part 445 (Landfills Point Source Category) all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated storm water, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.

6.K.4.6 *Leachate*—liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.

6.K.4.7 *Non-contaminated storm water*—storm water which does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in Part 6.K.4.5. Non-contaminated storm water includes storm water which flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

6.K.4.8 *Pile*—any non-containerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage and that is not a containment building.

6.K.4.9 *Surface impoundment*—a facility or part of a facility which is a natural topographic depression, man-made excavation or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds and lagoons.

6.K.5 Numeric Limitations, Monitoring and Reporting Requirements. (See also Part 5)

TABLE K–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK AND COMPLIANCE MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
Part of Permit Affected/Supplemental Requirements			
ALL—Industrial Activity Code ''HZ'' (Note: permit coverage limited in some States)	Ammonia	19.0 mg/L	
	Total Recoverable Magnesium.	0.0636 mg/L	
	Chemical Oxygen Demand (COD).	120.0 mg/L	
	Total Recoverable Arsenic	0.16854 mg/L	
	Total Recoverable Cadmium.	0.0159 mg/L	
	Total Cyanide	0.0636 mg/L	
	Total Recoverable Lead	0.0816 mg/L	
	Total Recoverable Mercury	0.0024 mg/L	
	Total Recoverable Selenium.	0.2385 mg/L	
	Total Recoverable Silver	0.0318 mg/L	
ALL—Industrial Activity Code ''HZ'' Subject to the Provisions of 40 CFR Part 445 Subpart A.	BOD5		220 mg/l, daily max. 56 mg/l, monthly avg. maximum.
	TSS		88 mg/l, daily max. 27 mg/l, monthly avg. maximum.
	Ammonia		10 mg/l, daily maximum. 4.9 mg/l, monthly avg. maximum.
	Alpha Terpineol		0.042 mg/l, daily max. 0.019 mg/l, monthly avg. maximum.
	Aniline		0.024 mg/l, daily max. 0.015 mg/l, monthly avg. maximum.
	Benzoic Acid		0.119 mg/l, daily max. 0.073 mg/l, monthly avg. maximum.
	Naphthalene		0.059 mg/l, daily max. 0.022 mg/l, monthly avg. maximum.
	p-Cresol		0.024 mg/l, daily max. 0.015 mg/l, monthly avg. maximum.
	Phenol		0.048 mg/l, daily max. 0.029 mg/l, monthly avg. maximum.
	Pyridine		0.072 mg/l, daily max. 0.025 mg/l, monthly avg. maximum.
	Arsenic (Total)		1.1 mg/l, daily maximum. 0.54 mg/l, monthly avg. maximum.
	Chromium (Total)		1.1 mg/l, daily maximum. 0.46 mg/l, monthly avg. maximum.
	Zinc (Total)		0.535 mg/l, daily max. 0.296 mg/l, monthly avg. maximum.
	pH		Within the range of 6–9 pH units.

[1] These benchmark monitoring cutoff concentrations apply to storm water discharges associated with industrial activity other than contaminated storm water discharges from landfills subject to the numeric effluent limitations set forth in Table K–1. Monitor once/quarter for the year 2 and year 4 monitoring years.

[2] As set forth at 40 CFR Part 445 Subpart A, these numeric limitations apply to contaminated storm water discharges from hazardous waste landfills subject to the provisions of RCRA Subtitle C at 40 CFR Parts 264 (Subpart N) and 265 (Subpart N) except for any of the facilities described below:

(a) Landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill;

(b) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes provided the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;

(c) Landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR Part 437 so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or

(d) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.

For the discharges subject to the numeric effluent limitations, monitoring for the specified parameters is required once/year during each year of the term of the permit.

6.L Sector L—Landfills, Land Application Sites and Open Dumps

6.L.1 Covered Storm Water Discharges

The requirements in Part 6.L apply to storm water discharges associated with industrial activity from Landfills and Land Application Sites and Open Dumps as identified by the Activity Codes specified under Sector L in Table 1–1 of Part 1.2.1.

6.L.2 Industrial Activities Covered by Sector L

This permit may authorize storm water discharges for Sector L facilities associated with waste disposal at landfills, land application sites and open dumps that receive or have received industrial waste, including sites subject to regulation under Subtitle D of RCRA.

6.L.3 Limitations on Coverage

6.L.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1)

Not authorized by this permit: leachate, gas collection condensate, drained free liquids, contaminated ground water, laboratory wastewater, and contact washwater from washing truck and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.

6.L.4 Definitions

6.L.4.1 *Contaminated storm water*—storm water which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater. Some specific areas of a landfill that may produce contaminated storm water include (but are not limited to): the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.

6.L.4.2 *Drained free liquids*—aqueous wastes drained from waste containers (*e.g.,* drums, etc.) prior to landfilling.

6.L.4.3 *Landfill wastewater*—as defined in 40 CFR Part 445 (Landfills Point Source Category) all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated storm water, contaminated groundwater, and wastewater from recovery pumping wells. Landfill process wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.

6.L.4.4 *Leachate*—liquid that has passed through or emerged from solid waste and contains soluble, suspended or miscible materials removed from such waste.

6.L.4.5 *Non-contaminated storm water*—storm water which does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater. Non-contaminated storm water includes storm water which flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

6.L.5 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.L.5.1 *Drainage Area Site Map.* (See also Part 4.2.2.3)

Identify where any of the following may be exposed to precipitation/surface runoff: Active and closed landfill cells or trenches, active and closed land application areas, locations where open dumping is occurring or has occurred, locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff, leachate collection and handling systems.

6.L.5.2 *Summary of Potential Pollutant Sources.* (See also Part 4.2.4)

Describe the following sources and activities that have potential pollutants associated with them: fertilizer, herbicide and pesticide application; earth/soil moving; waste hauling and loading/unloading; outdoor storage of significant materials including daily, interim and final cover material stockpiles as well as temporary waste storage areas; exposure of active and inactive landfill and land application areas; uncontrolled leachate flows; failure or leaks from leachate collection and treatment systems.

6.L.5.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

As part of your good housekeeping program, consider providing protected storage areas for pesticides, herbicides, fertilizer and other significant materials.

6.L.5.4 *Preventative Maintenance Program.* (See also Part 4.2.7.1)

As part of your preventive maintenance program, maintain: all containers used for outdoor chemical/significant materials storage to prevent leaking; all elements of leachate collection and treatment systems to prevent commingling of leachate with storm water; the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary to minimize the effects of settlement, sinking and erosion).

6.L.5.5 *Inspections.*

6.L.5.5.1 *Inspections of Active Sites.* (See also Part 4.2.7.2.1.5) Inspect operating landfills, open dumps and land application sites at least once every 7 days. Focus on areas of landfills that have not yet been finally stabilized, active land application areas, areas used for storage of material/wastes that are exposed to precipitation, stabilization and structural control measures, leachate collection and treatment systems, and locations where equipment and waste trucks enter/exit the site. Ensure that sediment and erosion control measures are operating properly. For stabilized sites and areas where land application has been completed, or where the climate is seasonally arid (annual rainfall averages from 0 to 10 inches) or semi-arid (annual rainfall averages from 10 to 20 inches), conduct inspections at least once every month.

6.L.5.5.2 *Inspections of Inactive Sites.* (See also Part 4.2.7.2.1.5) Inspect inactive landfills, open dumps and land application sites at least quarterly. Qualified personnel must inspect landfill (or open dump) stabilization and structural erosion control measures and leachate collection and treatment systems, and all closed land application areas.

6.L.5.6 *Recordkeeping and Internal Reporting.* Implement a tracking system for the types of wastes disposed of in each cell or trench of a landfill or open dump. For land application sites, track the types and quantities of wastes applied in specific areas.

6.L.5.7 *Non-Storm Water Discharge Test Certification.* (See also Part 4.) The discharge test and certification must also be conducted for the presence of leachate and vehicle washwater.

6.L.5.8 *Sediment and Erosion Control Plan.* (See also Part 4.2.7.2.2.1) Provide temporary stabilization (e.g., consider temporary seeding, mulching and placing geotextiles on the inactive portions of stockpiles): for materials stockpiled for daily, intermediate and final cover; for inactive areas of the landfill or open dump; for any landfill or open dump area that have gotten final covers but where vegetation has yet to established itself; and where waste application has been completed at land application sites but final vegetation has not yet been established.

6.L.5.9 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9.2) Evaluate areas contributing to a storm water discharge associated with industrial activities at landfills, open dumps and land application sites for evidence of, or the potential for, pollutants entering the drainage system.

6.L.6 Numeric Limitations, Monitoring and Reporting Requirements. (See also Part 5)

TABLE L–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK AND COMPLIANCE MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation [2]
Section of Permit Affected/Supplemental Requirements			
All Landfill, Land Application Sites and Open Dumps (Industrial Activity Code ''LF'').	Total Suspended Solids (TSS).	100 mg/L.	
All Landfill, Land Application Sites and Open Dumps, Except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60 (Industrial Activity Code ''LF'').	Total Recoverable Iron	1.0mg/L.	
All Landfills Which are Subject to the Requirements of 40 CFR Part 445 Subpart B (Industrial Activity Code ''LF'').	BOD5		140 mg/1, daily max. 37 mg/1, monthly ave maximum
	TSS		88 mg/l, daily max. 27 mg/1, monthly ave maximum.
	Ammonia		10 mg/1, daily max. 4.9 mg/1, monthly ave maximum.
	Alpha Terpineol		0.033 mg/1, daily max. 0.016 mg/1, monthly ave maximum.
	Benzoic Acid		0.12 mg/1, daily max. 0.071 mg/1, monthly ave maximum.
	p-Cresol		0.025 mg/1, daily max. 0.014 mg/1, monthly ave maximum.
	Phenol		0.026 mg/1, daily max. 0.015 mg/1, monthly ave maximum.
	Zinc (Total)		0.20 mg/1, daily max. 0.11 mg/1, monthly ave maximum.
	pH		Within the range of 6–9 pH units.

[1] These benchmark monitoring cutoff concentrations apply to storm water discharges associated with industrial activity other than contaminated storm water discharges from landfills subject to the numeric effluent limitations set forth in Table L–1. Monitor once/quarter for the year 2 and year 4 monitoring years.

[2] As set forth at 40 CFR Part 445 Subpart B, these numeric limitations apply to contaminated storm water discharges from MSWLFs which have not been closed in accordance with 40 CFR 258.60, and contaminated storm water discharges from those landfills which are subject to the provisions of 40 CFR Part 257 except for discharges from any of facilities described in (a) through (d) below:

(a) landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill;

(b) landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes provided the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;

(c) landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR Part 437 so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or

(d) landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.

For the discharges subject to the numeric effluent limitations, monitoring for the specified parameters is required once/year during each year of the term of the permit.

6.M Sector M—Automobile Salvage Yards

6.M.1 Covered Storm Water Discharges

The requirements in Part 6.M apply to storm water discharges associated with industrial activity from Automobile Salvage Yards as identified by the Activity Code specified under Sector M in Table 1–1 of Part 1.2.1.

6.M.2 Industrial Activities Covered by Sector M

The types of activities that permittees under Sector M are primarily engaged in are dismantling or wrecking used motor vehicles for parts recycling/resale and for scrap.

6.M.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.M.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Indicate the location of each monitoring point, and estimate the total acreage used for industrial activity including, but not limited to, dismantling, storage and maintenance of used motor vehicle parts. Also identify where any of the following may be exposed to precipitation/surface runoff: Dismantling areas; parts (*e.g.*, engine blocks, tires, hub caps, batteries, hoods, mufflers) storage areas; liquid storage tanks and drums for fuel and other fluids.

6.M.3.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Assess the potential for the following to contribute pollutants to storm water discharges: Vehicle storage areas; dismantling areas; parts storage area (*e.g.*, engine blocks, tires, hub caps, batteries, hoods, mufflers); fueling stations.

6.M.3.3 *Spill and Leak Prevention Procedures.* (See also Part 4.2.7.2.1.4) Drain vehicles intended to be dismantled of all fluids upon arrival at the site (or as soon thereafter as feasible); or employ some other equivalent means to prevent spills/leaks.

6.M.3.4 *Inspections.* (See also Part 4.2.7.2.1.5) Immediately (or as soon thereafter as feasible) inspect vehicles arriving at the site for leaks. Inspect quarterly for signs of leakage, all equipment containing oily parts, hydraulic fluids or any other types of fluids. Also inspect quarterly for signs of leakage, all vessels and areas where fluids are stored, including, but not limited to, brake fluid, transmission fluid, radiator water and antifreeze.

6.M.3.5 *Employee Training.* (See also Part 4.2.7.2.1.6) If applicable to your facility, address the following areas (at a minimum) in your employee training program: Proper handling (collection, storage, and disposal) of oil, used mineral spirits, anti-freeze and solvents.

6.M.3.6 *Management of Runoff.* (See also Part 4.2.7.2.2.2) Consider the following management practices: Berms or drainage ditches on the property line (to help prevent run-on from neighboring properties); berms for uncovered outdoor storage of oily parts, engine blocks and above-ground liquid storage; installation of detention ponds; and the installation of filtering devices and oil/water separators.

6.M.4 Monitoring and Reporting Requirements. (See also Part 5)

TABLE M–1.—SECTOR-SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation
Sector of Permit Affected/Supplemental Requirements			
Automobile Salvage Yards (SIC 5015)	Total Suspended Solids (TSS).	100.0 mg/L.	
	Total Recoverable Aluminum.	0.75 mg/L.	
	Total Recoverable Iron	1.0 mg/L.	
	Total Recoverable Lead	0.0816 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 monitoring years.

6.N Sector N—Scrap Recycling and Waste Recycling Facilities

6.N.1 Covered Storm Water Discharges

The requirements in Part N apply to storm water discharges associated with industrial activity from Scrap Recycling and Waste Recycling facilities as identified by the SIC Codes specified under Sector N in Table 1–1 of Part 1.2.1.

6.N.2 Industrial Activities Covered by Sector N

The types of activities that permittees under Sector N are primarily engaged in are:

6.N.2.1 processing, reclaiming and wholesale distribution of scrap and waste materials such as ferrous and nonferrous metals, paper, plastic, cardboard, glass, animal hides;

6.N.2.2 reclaiming and recycling liquid wastes such as used oil, antifreeze, mineral spirits and industrial solvents.

6.N.3 Coverage Under This Permit

Separate permit requirements have been established for recycling facilities that only receive source-separated recyclable materials primarily from non-industrial and residential sources (*i.e.*, common consumer products including paper, newspaper, glass, cardboard, plastic containers, aluminum and tin cans). This includes recycling facilities commonly referred to as material recovery facilities (MRF).

6.N.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.2.2) Not covered by this permit: non-storm water discharges from turnings containment areas (see also Part 6.N.5.1.3). Discharges from containment areas in the absence of a storm event are prohibited unless covered by a separate NPDES permit.

6.N.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4 of the MSGP. Part 6.N.4.1 contains a requirement that applies to all recycling facilities and is followed by Parts 6.N.4.2 to 6.N.4.4.4, which have requirements for specific types of recycling facilities. Implement and describe in your SWPPP a program to address those items that apply. Included are lists of BMP options which, along with any functional equivalents, should be considered for implementation. Selection or deselection of a particular BMP or approach is up to the best professional judgement of the operator, as long as the objective of the requirement is met.

6.N.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3)

Identify the locations of any of the following activities or sources which may be exposed to precipitation/surface runoff: scrap and waste material storage, outdoor scrap and waste processing equipment, and containment areas for turnings exposed to cutting fluids.

6.N.4.2 *Scrap and Waste Recycling Facilities (Non-Source Separated, Non-Liquid Recyclable Materials).* Requirements for facilities that receive, process and do wholesale distribution of non-liquid recyclable wastes (*e.g.*, ferrous and nonferrous metals, plastics, glass, cardboard and paper). These facilities may receive both non recyclable and recyclable materials. This section is not intended for those facilities that only accept recyclables from primarily non-industrial and residential sources.

6.N.4.2.1 *Inbound Recyclable and Waste Material Control Program.* Minimize the chance of accepting materials that could be significant sources of pollutants by conducting inspections of inbound recyclables and waste materials. BMP options: (a) Provide information/education to suppliers of scrap and recyclable waste materials on draining and properly disposing of residual fluids (*e.g.*, from vehicles and equipment engines, radiators and transmissions, oil filled transformers and individual containers or drums), prior to delivery to your facility; (b) procedures to minimize the potential of any residual fluids from coming into contact with precipitation/runoff; (c) procedures for accepting scrap lead-acid batteries (additional requirements for the handling, storage and disposal or recycling of batteries are contained in the scrap lead-acid battery program provisions in N.5.1.6); (d) training targeted for those personnel engaged in the inspection and acceptance of inbound recyclable materials. In addition, (e) liquid wastes, including used oil, must be stored in materially compatible and non-leaking containers and disposed or recycled in accordance with RCRA.

6.N.4.2.2 *Scrap and Waste Material Stockpiles/Storage (Outdoor).* Minimize contact of storm water runoff with stockpiled materials, processed materials and non-recyclable wastes. BMP options: (a) Permanent or semi-permanent covers; (b) to facilitate settling or filtering of pollutants: sediment traps, vegetated swales and strips, catch basin filters and sand filters; (c) divert runoff away from storage areas via dikes, berms, containment trenches, culverts and surface grading; (d) silt fencing; (e) oil/water separators, sumps and dry absorbents for areas where potential sources of residual fluids are stockpiled (*e.g.*, automobile engine storage areas).

6.N.4.2.3 *Stockpiling of Turnings Exposed to Cutting Fluids (Outdoor).* Minimize contact of surface runoff with residual cutting fluids. BMP options (use singularly or in combination): (a) Store all turnings exposed to cutting fluids under some form of permanent or semi-permanent cover. Storm water discharges from these areas are permitted provided the runoff is first treated by an oil/water separator or its equivalent. Identify procedures to collect, handle and dispose/recycle residual fluids which may be present; (b) establish dedicated containment areas for all turnings that have been exposed to cutting fluids. Storm water runoff from these areas can be discharged provided: The containment areas are constructed of either concrete, asphalt or other equivalent types of impermeable material; there is a barrier around the perimeter of the containment areas (*e.g.*, berms, curbing, elevated pads, etc.) to prevent contact with storm water run-on; there is a drainage collection system for runoff generated from containment areas; you have a schedule to maintain the oil/water separator (or its equivalent); and you identify procedures for properly disposing or recycling collected residual fluids.

6.N.4.2.4 *Scrap and Waste Material Stockpiles/Storage (Covered or Indoor Storage).* Minimize contact of residual liquids and particulate matter from materials stored indoors or under cover with surface runoff. BMP options: (a) Good housekeeping measures including the use of dry absorbent or wet vacuuming to contain or dispose/recycle residual liquids originating from recyclable containers; (b) not allowing washwater from tipping floors or other processing areas to discharge to the storm sewer system; (c) disconnect or seal off all floor drains connected to the storm sewer system.

6.N.4.2.5 *Scrap and Recyclable Waste Processing Areas.* Minimize surface runoff from coming in contact with scrap processing equipment. Pay attention to operations that generate visible amounts of particulate residue (*e.g.*, shredding) to minimize the contact of accumulated particulate matter and residual fluids with runoff (*i.e.*, through good housekeeping, preventive maintenance, etc.). BMP options: (a) Regularly inspect equipment for spills/leaks, and malfunctioning/worn/corroded parts or equipment; (b) a preventive maintenance program for processing equipment; (c) use of dry-absorbents or other cleanup practices to collect and dispose/recycle spilled/leaking fluids; (e) on unattended hydraulic reservoirs over 150 gallons in capacity, install such protection devices as low-level alarms or other equivalent devices, or, alternatively, secondary containment that can hold the entire volume of the reservoir; (f) containment or diversion structures such as dikes, berms, culverts, trenches, elevated concrete pads, grading to minimize contact of storm water runoff with outdoor processing equipment or stored materials; (g) oil/water separators or sumps; (h) permanent or semi-permanent covers in processing areas where there are residual fluids and grease; (i) retention/detention ponds or basins; sediment traps, vegetated swales or strips (for pollutant settling/filtration); (j) catch basin filters or sand filters.

6.N.4.2.6 *Scrap Lead-Acid Battery Program.* Properly handle, store and dispose of scrap lead-acid batteries. BMP options: (a) Segregate scrap lead-acid batteries from other scrap materials; (b) proper handling, storage and disposal of cracked or broken batteries; (c) collect and dispose leaking lead-acid battery fluid; (d) minimize/eliminate (if possible) exposure of scrap lead-acid batteries to precipitation or runoff; (e) employee training for the management of scrap batteries.

6.N.4.2.7 *Spill Prevention and Response Procedures.* (See also Part 4.2.7.2.1.4) Minimize storm water contamination at loading/unloading areas, and from equipment or container failures. BMP options: (a) Prevention and response measures for areas that are potential sources of fluid leaks/spills; (b) immediate containment and clean up of spills/leaks. If malfunctioning equipment is responsible for the spill/leak, repairs should also be conducted as soon as possible; (c) cleanup measures including the use of dry absorbents. If this method is employed, there should be an adequate supply of dry absorbent materials kept onsite and used absorbent must be properly disposed of; (d) store drums containing liquids—especially oil and lubricants—either: Indoors, in a bermed area, in overpack containers or spill pallets, or in other containment devices; (e) install overfill prevention devices on fuel pumps or tanks; (f) place drip pans or equivalent measures under leaking stationary equipment until the leak is repaired. The drip pans should be inspected for leaks and potential overflow and all liquids must be properly disposed of (as per RCRA); (g) install alarms and/or pump shut off systems on outdoor equipment with hydraulic reservoirs exceeding 150 gallons in the event of a line break. Alternatively, a secondary containment system capable of holding the entire contents of the reservoir plus room for precipitation can be used.

6.N.4.2.8 *Quarterly Inspection Program.* (See also Part 4.2.7.2.1.5) Inspect all designated areas of the facility and equipment identified in the plan quarterly.

6.N.4.2.9 *Supplier Notification Program.* As appropriate, notify major suppliers which scrap materials will not be accepted at the facility or are only accepted under certain conditions.

6.N.4.3 *Waste Recycling Facilities (Liquid Recyclable Materials).*

6.N.4.3.1 *Waste Material Storage (Indoor).* Minimize/eliminate contact between residual liquids from waste materials stored indoors and surface runoff. The plan may refer to applicable portions of other existing plans such as SPCC plans required under 40 CFR Part 112. BMP options: (a) procedures for material handling (including labeling and marking); (b) clean up spills/leaks with dry-absorbent materials or a wet vacuum system; (c) appropriate containment structures (trenching, curbing, gutters, etc.); (d) a drainage system, including appurtenances (*e.g.*, pumps or ejectors, manually operated valves), to handle discharges from diked or bermed areas. Drainage should be discharged to an appropriate treatment facility, sanitary sewer system, or otherwise disposed of properly. These discharges may require coverage under a separate NPDES wastewater permit or industrial user permit under the pretreatment program.

6.N.4.3.2 *Waste Material Storage (Outdoor).* Minimize contact between stored residual liquids and precipitation or runoff. The plan may refer to applicable portions of other existing plans such as SPCC plans required under 40 CFR Part 112. Discharges of precipitation from containment areas containing used oil must also be in accordance with applicable sections of 40 CFR Part 112. BMP options: (a) appropriate containment structures (*e.g.*, dikes, berms, curbing, pits) to store the volume of the largest tank with sufficient extra capacity for precipitation; (b) drainage control and other diversionary structures; (c) for storage tanks, provide corrosion protection and/or leak detection systems; (d) use dry-absorbent materials or a wet vacuum system to collect spills.

6.N.4.3.3 *Trucks and Rail Car Waste Transfer Areas.* Minimize pollutants in discharges from truck and rail car loading/unloading areas. Include measures to clean up minor spills/leaks resulting from the transfer of liquid wastes. BMP options: (a) containment and diversionary structures to minimize contact with precipitation or runoff; (b) use dry-clean up methods, wet vacuuming, roof coverings, or runoff controls.

6.N.4.3.4 *Quarterly Inspections.* (See also Part 4.2.7.2.1.5) At a minimum, the inspections must also include all areas where waste is generated, received, stored, treated or disposed and that are exposed to either precipitation or storm water runoff.

6.N.4.4 *Recycling Facilities (Source Separated Materials).* The following identifies considerations for facilities that receive only source-separated recyclables, primarily from non-industrial and residential sources.

6.N.4.4.1 *Inbound Recyclable Material Control.* Minimize the chance of accepting non-recyclables (*e.g.*, hazardous materials) which could be a significant source of pollutants by conducting inspections of inbound materials. BMP options: (a) information/education measures to inform suppliers of recyclables which materials are acceptable and which are not; (b) training drivers responsible for pickup of recycled material; (c) clearly marking public drop-off containers regarding which materials can be accepted; (d) reject non-recyclable wastes or household hazardous wastes at the source; (e) procedures for handling and disposal of non-recyclable material.

6.N.4.4.2 *Outdoor Storage.* Minimize exposure of recyclables to precipitation and runoff. Use good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas. Other BMP options: (a) provide totally-enclosed drop-off containers for the public; (b) install a sump/pump with each container pit and treat or discharge collected fluids to a sanitary sewer system; (c) provide dikes and curbs for secondary containment (*e.g.*, around bales of recyclable waste paper); (d) divert surface water runoff away from outside material storage areas; (e) provide covers over containment bins, dumpsters, roll-off boxes; (f) store the equivalent one days's volume of recyclable material indoors.

6.N.4.4.3 *Indoor Storage and Material Processing.* Minimize the release of pollutants from indoor storage and processing areas. BMP options: (a) schedule routine good housekeeping measures for all storage and processing areas; (b) prohibit tipping floor washwater from draining to the storm sewer system; (c) provide employee training on pollution prevention practices.

6.N.4.4.4 *Vehicle and Equipment Maintenance.* BMP options for those areas where vehicle and equipment maintenance are occurring outdoors: (a) prohibit vehicle and equipment washwater from discharging to the storm sewer system; (b) minimize or eliminate outdoor maintenance areas whenever possible; (c) establish spill prevention and clean-up procedures in fueling areas; (d) avoid topping off fuel tanks; (e) divert runoff from fueling areas; (f) store lubricants and hydraulic fluids indoors; (g) provide employee training on proper handling, storage of hydraulic fluids and lubricants.

6.N.5 Monitoring and Reporting Requirements. (See also Part 5)

TABLE N–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration[1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Scrap Recycling Facility (SIC 5093)	Chemical Oxygen Demand (COD).	120 mg/L.	
	Total Suspended Solids (TSS).	100 mg/L.	
	Total Recoverable Aluminum.	0.75 mg/L.	
	Total Recoverable Copper	0.0636 mg/L.	
	Total Recoverable Iron	1.0 mg/L.	
	Total Recoverable Lead	0.0816 mg/L.	
	Total Recoverable Zinc	0.117 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.O Sector O—Steam Electric Generating Facilities

6.O.1 Covered Storm Water Discharges

The requirements in Part 6.O apply to storm water discharges associated with industrial activity from Steam Electric Power Generating Facilities as identified by the Activity Code specified under Sector O in Table 1–1 of Part 1.2.1.

6.O.2 Industrial Activities Covered by Sector O

This permit authorizes storm water discharges from the following industrial activities at Sector O facilities:

6.O.2.1 Steam electric power generation using coal, natural gas, oil, nuclear energy, etc. to produce a steam source, including coal handling areas;

6.O.2.2 Coal pile runoff, including effluent limitations established by 40 CFR Part 423;

6.O.2.3 Dual fuel co-generation facilities.

6.O.3 Limitations on Coverage

6.O.3.1 *Prohibition of Non-Storm Water Discharges.* Not covered by this permit: non-storm water discharges subject to effluent limitations guidelines.

6.O.3.2 *Prohibition of Storm Water Discharges.* Not covered by this permit: storm water discharges from ancillary facilities (*e.g.,* fleet centers, gas turbine stations and substations) that are not contiguous to a stream electric power generating facility; and heat capture co-generation facilities.

6.O.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.O.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify the locations of any of the following activities or sources which may be exposed to precipitation / surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including but not limited to: supplies, construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer and pesticides); landfills, construction sites; stock piles areas (*e.g.,* coal or limestone piles).

6.O.4.2 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.O.4.2.1 *Fugitive Dust Emissions.* Describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. Consider such procedures to minimize the tracking of coal dust offsite as installing specially designed tires, or washing vehicles in a designated area before they leave the site and controlling the wash water.

6.O.4.2.2 *Delivery Vehicles.* Describe and implement measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving at the plant site. Consider the following: procedures to inspect delivery vehicles arriving at the plant site and ensure overall integrity of the body or container; and procedures to deal with leakage / spillage from vehicles or containers.

6.O.4.2.3 *Fuel Oil Unloading Areas.* Describe and implement measures that prevent or minimize contamination of precipitation / surface runoff from fuel oil unloading areas. Consider, at a minimum (or their equivalents): using containment curbs in unloading areas; having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any leaks / spills are immediately contained and cleaned up; using spill and overflow protection (*e.g.,* drip pans, drip diapers or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

6.O.4.2.4 *Chemical Loading / Unloading.* Describe and implement measures that prevent or minimize contamination of precipitation / surface runoff from chemical loading / unloading areas. Consider, at a minimum (or their equivalents): using containment curbs at chemical loading / unloading areas to contain spill; having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any leaks / spills are immediately contained and cleaned up; and load / unload in covered areas and store chemicals indoors.

6.O.4.2.5 *Miscellaneous Loading / Unloading Areas.* Describe and implement measures that prevent or minimize contamination of precipitation / surface runoff from loading / unloading areas. Consider, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert run-on; or locating the loading / unloading equipment and vehicles so leaks are contained in existing containment and flow diversion systems.

6.O.4.2.6 *Liquid Storage Tanks.* Describe and implement measures that prevent or minimize contamination of surface runoff from above ground liquid storage tanks. Consider using, at a minimum (or their equivalents): protective guards around tank; containment curbs; spill and overflow protection; and dry cleanup methods.

6.O.4.2.7 *Large Bulk Fuel Storage Tanks.* Describe and implement measures that prevent or minimize contamination of surface runoff from large bulk fuel storage tanks. Consider, at a minimum, using containment berms (or its equivalent). You must also comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC).

6.O.4.2.8 *Spill Reduction Measures.* Describe and implement measures to reduce the potential for an oil / chemical spill or reference the appropriate Part of your SPCC plan. At a minimum, visually inspect on a weekly basis, the structural integrity of all above ground tanks, pipelines, pumps and other related equipment, and effect any necessary repairs immediately.

6.O.4.2.9 *Oil Bearing Equipment in Switchyards.* Describe and implement measures that prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. Consider using level grades and gravel surfaces to retard flows and limit the spread of spills or collecting runoff in perimeter ditches.

6.O.4.2.10 *Residue Hauling Vehicles.* Inspect all residue hauling vehicles for proper covering over the load, adequate gate sealing and overall integrity of the container body. Repair as soon as practicable, vehicles without load covering or adequate gate sealing, or with leaking containers or beds.

6.O.4.2.11 *Ash Loading Areas.* Describe and implement procedures to reduce or control the tracking of ash/ residue from ash loading areas. Where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

6.O.4.2.12 *Areas Adjacent to Disposal Ponds or Landfills.* Describe and implement measures that prevent or minimize contamination of surface runoff from areas adjacent to disposal ponds or landfills. Develop procedures to reduce ash residue that may be tracked on to access roads traveled by residue handling vehicles, and reduce ash residue on exit roads leading into and out of residue handling areas.

6.O.4.2.13 *Landfills, Scrap Yards, Surface Impoundments, Open Dumps, General Refuse Sites.*

Address these areas in your SWPPP and include appropriate BMPs as referred to in Part 4.

6.O.4.2.14 *Vehicle Maintenance Activities.* For vehicle maintenance activities performed on the plant site, use the applicable BMPs outlined in Part 6.P.

6.O.4.2.15 *Material Storage Areas.* Describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products and construction materials stored in lay-down areas). Consider using (or their equivalents): Flat yard grades; collecting runoff in graded swales or ditches; erosion protection measures at steep outfall sites (*e.g.*, concrete chutes, riprap, stilling basins); covering lay-down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene or hypalon. Storm water run-on may be minimized by constructing an enclosure or building a berm around the area.

6.O.4.3 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9.3) As part of your evaluation, inspect the following areas on a monthly basis: Coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

6.O.5 Monitoring and Reporting Requirements. (See also Part 5)

TABLE O–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric Limitation [2]
Part of Permit Affected/Supplemental Requirements			
Steam Electric Generating Facilities (Industrial Activity Code "SE").	Total Recoverable Iron	1.0 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

[2] Note that the numeric effluent limitation guidelines for coal pile runoff at steam electric generating facilities have been adopted as a standard numeric limits for all coal pile runoff. See Part 5.1.3.

6.P Sector P—Land Transportation and Warehousing

6.P.1 Covered Storm Water Discharges

The requirements in Part 6.P apply to storm water discharges associated with industrial activity from Land Transportation and Warehousing facilities as identified by the Activity Code specified under Sector P in Table 1–1 of Part 1.2.1.

6.P.2 Industrial Activities Covered by Sector P

The types of activities that permittees under Sector P are primarily engaged in are:

6.P.2.1 vehicle and equipment maintenance (vehicle and equipment rehabilitation, mechanical repairs, painting, fueling and lubrication);

6.P.2.2 equipment cleaning.

6.P.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.P.3.1 *Drainage Site Map.* (See also Part 4.2.2.3) Identify the locations of any of the following activities or sources: Fueling stations; vehicle/equipment maintenance or cleaning areas; storage areas for vehicle/equipment with actual or potential fluid leaks; loading/ unloading areas; areas where treatment, storage or disposal of wastes occur; liquid storage tanks; processing areas; storage areas; and all monitoring areas.

6.P.3.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe and assess the potential for the following to contribute pollutants to storm water discharges: Onsite waste storage or disposal; dirt/gravel parking areas for vehicles awaiting maintenance; and fueling areas.

6.P.3.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.P.3.3.1 *Vehicle and Equipment Storage Areas.* Confine the storage of leaky or leak-prone vehicles/equipment awaiting maintenance to designated areas. Consider the following (or other equivalent measures): The use of drip pans under vehicles/equipment, indoor storage of vehicles and equipment, installation of berms or dikes, use of absorbents, roofing or covering storage areas, and cleaning pavement surfaces to remove oil and grease.

6.P.3.3.2 *Fueling Areas.* Implement and describe measures that prevent or minimize contamination of storm water runoff from fueling areas. Consider the following (or other equivalent measures): Covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing storm water runon/runoff to the fueling area; using dry cleanup methods; and treating and/or recycling collected storm water runoff.

6.P.3.3.3 *Material Storage Areas.* Maintain all material storage vessels (*e.g.*, for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of storm water and plainly label them (*e.g.*, ''Used Oil,'' ''Spent Solvents,'' etc.). Consider the following (or other equivalent measures): storing the materials indoors; installing berms/dikes around the areas; minimizing runoff of storm water to the areas; using dry cleanup methods; and treating and/or recycling collected storm water runoff.

6.P.3.3.4 *Vehicle and Equipment Cleaning Areas.* Implement and describe measures that prevent or minimize contamination of storm water runoff from all areas used for vehicle/equipment cleaning. Consider the following (or other equivalent measures): performing all cleaning operations indoors; covering the cleaning operation, ensuring that all washwater drains to a proper collection system (*i.e.*, not the storm water drainage system unless NPDES permitted); treating and/or recycling collected storm water runoff, or other equivalent measures. Note: the discharge of vehicle/equipment washwater, including tank cleaning operations, are not authorized by this permit and must be covered under a separate NPDES permit or discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements.

6.P.3.3.5 *Vehicle and Equipment Maintenance Areas.* Implement and describe measures that prevent or minimize contamination of storm water runoff from all areas used for vehicle/equipment maintenance. Consider the following (or other equivalent measures): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting wet clean up practices if these practices would result in the discharge of pollutants to storm water drainage systems; using dry cleanup methods; treating and/or recycling collected storm water runoff, minimizing run on/runoff of storm water to maintenance areas.

6.P.3.3.6 *Locomotive Sanding (Loading Sand for Traction) Areas.* Consider the following (or other equivalent measures): covering sanding areas; minimizing storm water run on/runoff; or appropriate sediment removal practices to minimize the offsite transport of sanding material by storm water.

6.P.3.4 *Inspections.* (See also Part 4.2.7.2.1.5) Inspect all the following areas/activities: storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas.

6.P.3.5 *Employee Training.* (See also Part 4.2.7.2.1.6) Train personnel at least once a year and address the following, as applicable: used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management.

6.P.3.6 *Vehicle and Equipment Washwater Requirements.* (See also Part 4.4) Attach to or reference in your SWPPP, a copy of the NPDES permit issued for vehicle/equipment washwater or, if an NPDES permit has not been issued, a copy of the pending application. If an industrial user permit is issued under a pretreatment program, attach a copy to your SWPPP. In any case, address all non-storm water permit conditions or pretreatment conditions in your SWPPP. If washwater is handled in another manner (*e.g.*, hauled offsite), describe the disposal method and attach all pertinent documentation/information (*e.g.*, frequency, volume, destination, etc.) in the plan.

6.Q Sector Q—Water Transportation

6.Q.1 Covered Storm Water Discharges

The requirements in Part 6.Q apply to storm water discharges associated with industrial activity from Water Transportation facilities as identified by the Activity Code specified under Sector Q in Table 1–1 of Part 1.2.1.

6.Q.2 Industrial Activities Covered by Sector Q

The requirements listed under this Part apply to storm water discharges associated with the following activities:

6.Q.2.1 Water transportation facilities classified in SIC Code major group 44 that have vehicle (vessel) maintenance shops and/or equipment cleaning operations including:

6.Q.2.1.1 Water transportation industry includes facilities engaged in foreign or domestic transport of freight or passengers in deep sea or inland waters;

6.Q.2.1.2 Marine cargo handling operations;

6.Q.2.1.3 Ferry operations;

6.Q.2.1.4 Towing and tugboat services;

6.Q.2.1.5 Marinas.

6.Q.3 Limitations on Coverage

6.Q.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not covered by this permit: bilge and ballast water, sanitary wastes, pressure wash water and cooling water originating from vessels.

6.Q.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.Q.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: fueling; engine maintenance/repair; vessel maintenance/repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; liquid storage areas (*e.g.*, paint, solvents, resins); and material storage areas (*e.g.*, blasting media, aluminum, steel, scrap iron).

6.Q.4.2 *Summary of Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them: outdoor manufacturing or processing activities (*i.e.*, welding, metal fabricating); and significant dust or particulate generating processes (*e.g.*, abrasive blasting, sanding, painting).

6.Q.4.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.Q.4.3.1 *Pressure Washing Area.* If pressure washing is used to remove marine growth from vessels, the discharge water must be permitted by a separate NPDES permit. Describe in the SWPPP: the measures to collect or contain the discharges from the pressures washing area; the method for the removal of the visible solids; the methods of disposal of the collected solids; and where the discharge will be released.

6.Q.4.3.2 *Blasting and Painting Area.* Implement and describe measures to prevent spent abrasives, paint chips and over spray from discharging into the receiving water or the storm sewer systems. Consider containing all blasting/painting activities or use other measures to prevent or minimize the discharge the contaminants (*e.g.*, hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). Where necessary, regularly clean storm water conveyances of deposits of abrasive blasting debris and paint chips. Detail in the SWPPP any standard operating practices relating to blasting/painting (*e.g.*, prohibiting uncontained blasting/painting over open water, or prohibiting blasting/painting during windy conditions which can render containment ineffective).

6.Q.4.3.3 *Material Storage Areas.* Store and plainly label all containerized materials (*e.g.*, fuels, paints, solvents, waste oil, antifreeze, batteries) in a protected, secure location away from drains. Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from the storage areas. Specify which materials are stored indoors and consider containment or enclosure for those stored outdoors. If abrasive blasting is performed, discus the storage and disposal of spent abrasive materials generated at the facility. Consider implementing an inventory control plan to limit the presence of potentially hazardous materials onsite.

6.Q.4.3.4 *Engine Maintenance and Repair Areas.* Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from all areas used for engine maintenance and repair. Consider the following (or their equivalents): performing all maintenance activities indoors; maintaining an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting the practice of hosing down the shop floor; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the maintenance area.

6.Q.4.3.5 *Material Handling Area.* Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from material handling operations and areas (*e.g.*, fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). Consider the following (or their equivalents): covering fueling areas; using spill/overflow protection; mixing paints and solvents in a designated area (preferably indoors or under a shed); and minimize runoff of storm water to material handling areas.

6.Q.4.3.6 *Drydock Activities.* Describe your procedures for routinely maintaining/cleaning the drydock to prevent or minimize pollutants in storm water runoff. Address the cleaning of accessible areas of the drydock prior to flooding, and final cleanup following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease or fuel spills occurring on the drydock. Consider the following (or their equivalents): sweeping rather than hosing off debris/spent blasting material from accessible areas of the drydock prior to flooding, and having absorbent materials and oil containment booms readily available to contain/cleanup any spills.

6.Q.4.3.7 *General Yard Area.* Implement and describe a schedule for routine yard maintenance and cleanup. Regularly remove from the general yard area: scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, packaging, etc.

6.Q.4.4 *Preventative Maintenance.* (See also Part 4.2.7.2.1.4) As part of your preventive maintenance program, perform timely inspection and maintenance of storm water management devices (*e.g.*, cleaning oil/water separators and sediment traps to ensure that spent abrasives, paint chips and solids will be intercepted and retained prior to entering the storm drainage system) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

6.Q.4.5 *Inspections.* (See also Part 4.2.7.2.1.5) Include the following areas in all monthly inspections: pressure washing area; blasting, sanding and painting areas; material storage areas; engine maintenance/repair areas; material handling areas; drydock area; and general yard area.

6.Q.4.6 *Employee Training.* (See also Part 4.2.7.2.1.6) As part of your employee training program, address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; disposal of spent abrasives; disposal of vessel wastewaters; spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

6.Q.4.7 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9) Conduct regularly scheduled evaluations at least once a year and address those areas contributing to a storm water discharge associated with industrial activity (*e.g.*, pressure washing area, blasting/sanding areas, painting areas, material storage areas, engine maintenance/repair areas, material handling areas, and drydock area). Inspect these sources for evidence of, or the potential for, pollutants entering the drainage system.

6.Q.5 Monitoring and Reporting Requirements. (See also Part 5)

TABLE Q–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration [1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Water Transportation Facilities (SIC 4412–4499)	Total Recoverable Aluminum..	0.75 mg/L	
	Total Recoverable Iron.	1.0 mg/L	
	Total Recoverable Lead.	0.0816 mg/L	
	Total Recoverable Zinc.	0.117 mg/L	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.R Sector R—Ship and Boat Building or Repair Yards

6.R.1 Covered Storm Water Discharges

The requirements in Part 6.R apply to storm water discharges associated with industrial activity from Ship and Boat Building or Repair Yards as identified by the Activity Codes specified under Sector R in Table 1–1 of Part 1.2.1.

6.R.2 Industrial Activities Covered by Sector R

The types of activities that permittees under Sector R are primarily engaged in are:

6.R.2.1 Ship building and repairing and boat building and repairing [3]

6.R.3 Limitations on Coverage

6.R.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not covered by this permit: discharges containing bilge and ballast water, sanitary wastes, pressure wash water and cooling water originating from vessels.

6.R.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.R.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: fueling; engine maintenance/repair; vessel maintenance/repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; liquid storage areas (*e.g.*, paint, solvents, resins); and material storage areas (*e.g.*, blasting media, aluminum, steel, scrap iron).

6.R.4.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them (if applicable): outdoor manufacturing/processing activities (*e.g.*, welding, metal fabricating); and significant dust/particulate generating processes (*e.g.*, abrasive blasting, sanding, painting).

6.R.4.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.R.4.3.1 *Pressure Washing Area.* If pressure washing is used to remove marine growth from vessels, the discharge water must be permitted as a process wastewater by a separate NPDES permit.

[3] According to the U.S. Coast Guard, a vessel 65 feet or greater in length is referred to as a ship, and a vessel smaller than 65 feet is a boat.

6.R.4.3.2 *Blasting and Painting Area.* Implement and describe measures to prevent spent abrasives, paint chips and over spray from discharging into the receiving water or the storm sewer systems. Consider containing all blasting/painting activities or use other measures to prevent the discharge of the contaminants (*e.g.*, hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). Where necessary, regularly clean storm water conveyances of deposits of abrasive blasting debris and paint chips. Detail in the SWPPP any standard operating practices relating to blasting/painting (*e.g.*, prohibiting uncontained blasting/painting over open water, or prohibiting blasting/painting during windy conditions which can render containment ineffective).

6.R.4.3.3 *Material Storage Areas.* Store and plainly label all containerized materials (*e.g.*, fuels, paints, solvents, waste oil, antifreeze, batteries) in a protected, secure location away from drains. Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from the storage areas. Specify which materials are stored indoors and consider containment or enclosure for those stored outdoors. If abrasive blasting is performed, discuss the storage and disposal of spent abrasive materials generated at the facility. Consider implementing an inventory control plan to limit the presence of potentially hazardous materials onsite.

6.R.4.3.4 *Engine Maintenance and Repair Areas.* Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from all areas used for engine maintenance and repair. Consider the following (or their equivalents): performing all maintenance activities indoors; maintaining an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting the practice of hosing down the shop floor; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the maintenance area.

6.R.4.3.5 *Material Handling Area.* Implement and describe measures to prevent or minimize the contamination of precipitation/surface runoff from material handling operations and areas (*e.g.*, fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). Consider the following (or their equivalents): covering fueling areas; using spill/overflow protection; mixing paints and solvents in a designated area (preferably indoors or under a shed); and minimize runon of storm water to material handling areas.

6.R.4.3.6 *Drydock Activities.* Describe your procedures for routinely maintaining/cleaning the drydock to prevent or minimize pollutants in storm water runoff. Address the cleaning of accessible areas of the drydock prior to flooding, and final cleanup following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease or fuel spills occurring on the drydock. Consider the following (or their equivalents): sweeping rather than hosing off debris/spent blasting material from accessible areas of the drydock prior to flooding, and having absorbent materials and oil containment booms readily available to contain/cleanup any spills.

6.R.4.3.7 *General Yard Area.* Implement and describe a schedule for routine yard maintenance and cleanup. Regularly remove from the general yard area: scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, packaging, etc.

6.R.4.4 *Preventative Maintenance.* (See also Part 4.2.7.2.1.4) As part of your preventive maintenance program, perform timely inspection and maintenance of storm water management devices (*e.g.*, cleaning oil/water separators and sediment traps to ensure that spent abrasives, paint chips and solids will be intercepted and retained prior to entering the storm drainage system) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

6.R.4.5 *Inspections.* (See also Part 4.2.7.2.1.5) Include the following areas in all monthly inspections: pressure washing area; blasting, sanding and painting areas; material storage areas; engine maintenance/repair areas; material handling areas; drydock area; and general yard area.

6.R.4.6 *Employee Training.* (See also Part 4.2.7.2.1.6) As part of your employee training program, address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; disposal of spent abrasives; disposal of vessel wastewaters; spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

6.R.4.7 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9) Conduct regularly scheduled evaluations at least once a year and address those areas contributing to a storm water discharge associated with industrial activity (*e.g.*, pressure washing area, blasting/sanding areas, painting areas, material storage areas, engine maintenance/repair areas, material handling areas, and drydock area). They must be visually inspected for evidence of, or the potential for, pollutants entering the drainage system.

6.S Sector S—Air Transportation

6.S.1 Covered Storm Water Discharges

The requirements in Part 6.S apply to storm water discharges associated with industrial activity from Air Transportation facilities as identified by the SIC Codes specified under Sector S in Table 1–1 of Part 1.2.1.

6.S.2 Industrial Activities Covered by Sector S

The types of activities that permittees under Sector S are primarily engaged in are:

6.S.2.1 Air transportation, scheduled, and air courier;

6.S.2.2 Air transportation, non scheduled;

6.S.2.3 Airports; flying fields, except those maintained by aviation clubs; and airport terminal services including: air traffic control, except government; aircraft storage at airports; aircraft upholstery repair; airfreight handling at airports; airport hangar rental; airport leasing, if operating airport; airport terminal services; and hangar operations.

6.S.2.4 Airport and aircraft service and maintenance including: aircraft cleaning and janitorial service; aircraft servicing/repairing, except on a factory basis; vehicle maintenance shops; material handling facilities; equipment clearing operations; and airport and aircraft deicing/anti-icing.

Note: ''deicing'' will generally be used to imply both deicing (removing frost, snow or ice) and anti-icing (preventing accumulation of frost, snow or ice) activities, unless specific mention is made regarding anti-icing and/or deicing activities.

6.S.3 Limitations on Coverage

Only those portions of the facility that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling and lubrication), equipment cleaning operations or deicing operations are addressed in Part 6.S.

6.S.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not covered by this permit: aircraft, ground vehicle, runway and equipment washwaters; and dry weather discharges of deicing chemicals. These discharges must be covered by a separate NPDES permit.

6.S.4 Special Conditions

6.S.4.1 *Hazardous Substances or Oil.* (See also Part 3.1) Each individual permittee is required to report spills equal to or exceeding the reportable quantity (RQ) levels specified at 40 CFR 110, 117 and 302 as described at Part 3.2. If an airport authority is the sole permittee, then the sum total of all spills at the airport must be assessed against the RQ. If the airport authority is a co-permittee with other deicing operators at the airport, such as numerous different airlines, the assessed amount must be the summation of spills by each co-permittee. If separate, distinct individual permittees exist at the airport, then the amount spilled by each separate permittee must be the assessed amount for the RQ determination.

6.S.5 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4 of the MSGP.

(See also Part 4.1) If an airport's tenant has a SWPPP for discharges from their own areas of the airport, that SWPPP must be integrated with the plan for the entire airport. Tenants of the airport facility include air passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in storm water discharges associated with industrial activity.

6.S.5.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: aircraft and runway deicing operations; fueling stations; aircraft, ground vehicle and equipment maintenance/cleaning areas; storage areas for aircraft, ground vehicles and equipment awaiting maintenance.

6.S.5.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Include in your inventory of exposed materials a description of the potential pollutant sources from the following activities: aircraft, runway, ground vehicle and equipment maintenance and cleaning; aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways and ramps). If you use deicing chemicals, you must maintain a record of the types (including the Material Safety Data Sheets [MSDS]) used and the monthly quantities, either as measured or, in the absence of metering, as estimated to the best of your knowledge. This includes all deicing chemicals, not just glycols and urea (*e.g.,* potassium acetate), because large quantities of these other chemicals can still have an adverse impact on receiving waters. Tenants or other fixed-based operations that conduct deicing operations must provide the above information to the airport authority for inclusion in any comprehensive airport SWPPPs.

6.S.5.3 *Good Housekeeping Measures.* (See also 4.2.7)

6.S.5.3.1 *Aircraft, Ground Vehicle and Equipment Maintenance Areas.* Describe and implement measures that prevent or minimize the contamination of storm water runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangers). Consider the following practices (or their equivalents): performing maintenance activities indoors; maintaining an organized inventory of material used in the maintenance areas; draining all parts of fluids prior to disposal; preventing the practice of hosing down the apron or hanger floor; using dry cleanup methods; and collecting the storm water runoff from the maintenance area and providing treatment or recycling.

6.S.5.3.2 *Aircraft, Ground Vehicle and Equipment Cleaning Areas.* Clean equipment only in the areas identified in the SWPPP and site map and clearly demarcate these areas on the ground. Describe and implement measures that prevent or minimize the contamination of storm water runoff from cleaning areas.

6.S.5.3.3 *Aircraft, Ground Vehicle and Equipment Storage Areas.* Store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only. Consider the following BMPs (or their equivalents): storing aircraft and ground vehicles indoors; using drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding the storage areas.

6.S.5.3.4 *Material Storage Areas.* Maintain the vessels of stored materials (*e.g.,* used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) in good condition, to prevent or minimize contamination of storm water. Also plainly label the vessels (e.g., ''used oil,'' ''Contaminated Jet A,'' etc.). Describe and implement measures that prevent or minimize contamination of precipitation/runoff from these areas. Consider the following BMPs (or their equivalents): storing materials indoors; storing waste materials in a centralized location; and installing berms/dikes around storage areas.

6.S.5.3.5 *Airport Fuel System and Fueling Areas.* Describe and implement measures that prevent or minimize the discharge of fuel to the storm sewer/ surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. Consider the following BMPs (or their equivalents): implementing spill and overflow practices (*e.g.,* placing absorptive materials beneath aircraft during fueling operations); using dry cleanup methods; and collecting storm water runoff.

6.S.5.3.6 *Source Reduction.* Consider alternatives to the use of urea and glycol-based deicing chemicals to reduce the aggregate amount of deicing chemicals used and/or lessen the environmental impact. Chemical options to replace ethylene glycol, propylene glycol and urea include: potassium acetate; magnesium acetate; calcium acetate; anhydrous sodium acetate.

6.S.5.3.6.1 *Runway Deicing Operation:* Evaluate, at a minimum, whether over-application of deicing chemicals occurs by analyzing application rates and adjusting as necessary, consistent with considerations of flight safety. Also consider these BMP options (or their equivalents): metered application of chemicals; pre-wetting dry chemical constituents prior to application; installing a runway ice detection system; implementing anti-icing operations as a preventive measure against ice buildup.

6.S.5.3.6.2 *Aircraft Deicing Operations:* As in Part 6.S.5.3.6.1, determine whether excessive application of deicing chemicals occurs and adjust as necessary, consistent with considerations of flight safety. EPA intends for this evaluation to be carried out by the personnel most familiar with the particular aircraft and flight operations in question (vice an outside entity such as the airport authority). Consider using alternative deicing/anti-icing agents as well as containment measures for all applied chemicals. Also consider these BMP options (or their equivalents) for reducing deicing fluid use: forced-air deicing systems, computer-controlled fixed-gantry systems, infrared technology, hot water, varying glycol content to air temperature, enclosed-basket deicing trucks, mechanical methods, solar radiation, hangar storage, aircraft covers, thermal blankets for MD–80s and DC–9s. Also consider using ice-detection systems and airport traffic flow strategies and departure slot allocation systems.

6.S.5.3.7 Management of Runoff. Where deicing operations occur, describe and implement a program to control or manage contaminated runoff to reduce the amount of pollutants being discharged from the site. Consider these BMP options (or their equivalents): a dedicated deicing facility with a runoff collection/recovery system; using vacuum/collection trucks; storing contaminated storm water/deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; collecting contaminated runoff in a wet pond for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); and directing runoff into vegetative swales or other infiltration measures. Also consider recovering deicing materials when these materials are applied during non-precipitation events (*e.g.,* covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of storm water contamination. Used deicing fluid should be recycled whenever possible.

6.S.5.4 *Inspections.* (See also Part 4.2.7.2.1.5) Specify the frequency of inspections in your SWPPP. At a minimum they must be conducted monthly during the deicing season (*e.g.,* October through April for most mid-latitude airports). If your facility needs to deice before or after this period, expand the monthly inspections to include all months during which deicing chemicals may be used. Also, if significantly or deleteriously large quantities of deicing chemicals are being spilled or discharged, or if water quality impacts have been reported, increase the frequency of your inspections to weekly until such time as the chemical spills/discharges or impacts are reduced to acceptable levels. The Director may specifically require you to increase inspections and SWPPP reevaluations as necessary.

6.S.5.5 *Comprehensive Site Compliance Evaluation.* (See also 4.9)

(See also Part 4.9)

Using only qualified personnel, conduct your annual site compliance evaluations during periods of actual deicing operations, if possible. If not practicable during active deicing or the weather is too inclement, conduct the evaluations when deicing operations are likely to occur and the materials and equipment for deicing are in place.

6.S.6 Monitoring and Reporting Requirements. (See also Part 5)

TABLE S–1.—SECTOR-SPECIFIC NUMBERIC LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark monitoring cut-off concentration[1]	Numeric limitation
Sector of Permit Affected/Supplemental Requirements			
Facilities at airports that use more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis: monitor ONLY those outfalls from the airport facility that collect runoff from areas where deicing/anti-icing activities occur (SIC 45XX).	Biochemical Oxygen Demand (BOD_5).	30 mg/L .... Chemical Oxygen Demand COD).	120.0mg/L. Ammonia 19 mg/L. pH 6/0 to 9 s.u

[1] Monitor once/quarter for the year 2 and year 4 monitoring years.

6.T Sector T—Treatment Works

6.T.1 Covered Storm Water Discharges

The requirements in Part 6.T apply to storm water discharges associated with industrial activity from Treatment Works as identified by the Activity Code specified under Sector T in Table 1–1 of Part 1.2.1.

6.T.2 Industrial Activities Covered by Sector T

The requirements listed under this Part apply to all existing point source storm water discharges associated with the following activities:

6.T.2.1 treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system used in the storage, treatment, recycling and reclamation of municipal or domestic sewage; including land dedicated to the disposal of sewage sludge; that are located within the confines of the facility with a design flow of 1.0 MGD or more; or required to have an approved pretreatment program under 40 CFR Part 403.

6.T.2.2 Not required to have permit coverage: farm lands; domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located within the facility; or areas that are in compliance with Section 405 of the CWA.

6.T.3 Limitations on Coverage

6.T.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not authorized by this permit: sanitary and industrial wastewater; and equipment/vehicle washwater.

6.T.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.T.4.1 *Site Map.* (See also Part 4.2.2.3.6) Identify where any of the following may be exposed to precipitation/surface runoff: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides and pesticides.

6.T.4.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them, as applicable: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and access roads/rail lines.

6.T.4.3 *Best Management Practices (BMPs).* (See also Part 4.2.7.2) In addition to the other BMPs considered, consider the following: routing storm water to the treatment works; or covering exposed materials (*i.e.,* from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station).

6.T.4.4 *Inspections.* (See also Part 4.2.7.2.1.5) Include the following areas in all inspections: access roads/rail lines; grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station areas.

6.T.4.5 *Employee Training.* (See also Part 4.2.7.2.1.6) At a minimum, must address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; proper procedures for using fertilizer, herbicides and pesticides.

6.T.4.6 *Wastewater and Washwater Requirements.* (See also Part 4.4) Attach to your SWPPP a copy of all your current NPDES permits issued for wastewater, industrial, vehicle and equipment washwater discharges or, if an NPDES permit has not yet been issued, a copy of the pending applications. Address any requirements/conditions from the other permits, as appropriate, in the SWPPP. If the washwater is handled in another manner, the disposal method must be described and all pertinent documentation must be attached to the plan.

6.U Sector U—Food and Kindred Products

6.U.1 Covered Storm Water Discharges

The requirements in Part 6.U apply to storm water discharges associated with industrial activity from Food and Kindred Products facilities as identified by the SIC Codes specified in Table 1–1 of Part 1.2.1.

6.U.2 Industrial Activities Covered by Sector U

The types of activities that permittees under Sector U are primarily engaged in are:

6.U.2.1 meat products;

6.U.2.2 dairy products;

6.U.2.3 canned, frozen and preserved fruits, vegetables, and food specialties;

6.U.2.4 grain mill products;

6.U.2.5 bakery products;

6.U.2.6 sugar and confectionery products;

6.U.2.7 fats and oils;

6.U.2.8 beverages;

6.U.2.9 miscellaneous food preparations and kindred products and tobacco products manufacturing.

6.U.3 Limitations on Coverage

Not covered by this permit: storm water discharges identified under Part 1.2.3 from industrial plant yards, material handling sites; refuse sites; sites used for application or disposal of process wastewaters; sites used for storage and maintenance of material handling equipment; sites used for residential wastewater treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; and storage areas for raw material and intermediate and finished products. This includes areas where industrial activity has taken place in the past and significant materials remain. ‘‘Material handling activities’’ include the storage, loading/unloading, transportation or conveyance of any raw material, intermediate product, finished product, by-product or waste product.

6.U.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.2.2) Not authorized by this permit: discharges subject to Part 1.2.2.2 include discharges containing: boiler blowdown, cooling tower overflow and blowdown, ammonia refrigeration purging and vehicle washing/clean-out operations.

6.U.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.U.4.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify the locations of the following activities if they are exposed to precipitation/runoff: vents/stacks from cooking, drying and similar operations; dry product vacuum transfer lines; animal holding pens; spoiled product; and broken product container storage areas.

6.U.4.2 *Potential Pollutant Sources.*(See also Part 4.2.4) Describe, in addition to food and kindred products processing-related industrial activities, application and storage of pest control chemicals (*e.g.,* rodenticides, insecticides, fungicides, etc.) used on plant grounds.

6.U.4.3 *Inspections.*(See also Part 4.2.7.2.1.5) Inspect on a regular basis, at a minimum, the following areas where the potential for exposure to storm water exists: loading and unloading areas for all significant materials; storage areas including associated containment areas; waste management units; vents and stacks emanating from industrial activities; spoiled product and broken product container holding areas; animal holding pens; staging areas; and air pollution control equipment.

6.U.4.4 *Employee Training.*(See also Part 4.2.7.2.1.6) Address pest control in the training program.

6.U.5 Monitoring and Reporting Requirements. (See also Part 5)

TABLE U–1. SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one Sector/Subsector)	Parameter	Benchmark monitoring cut-off concentration[1]	Numeric limitation
Part or Permit Affected/Supplemental Requirements			
Grain Mill Products (SIC 2041–2048)	Total Suspended Solids (TSS).	100 mg/L.	
Fats and Oils Products (SIC 2074–2079)	Biochemical Oxygen Demand (BOD_5).	30 mg/L.	
	Chemical Oxygen Demand (COD).	120 mg/L.	
	Nitrate plus Nitrate Nitrogen.	0.68 mg/L.	
	Total Suspended Solids (TSS).	100 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.V Sector V—Textile Mills, Apparel and Other Fabric Products

6.V.1 Covered Storm Water Discharges

The requirements in Part 6.V apply to storm water discharges associated with industrial activity from Textile Mills, Apparel, and Other Fabric Product Manufacturing as identified by the Activity Code specified under Sector V in Table 1–1 of Part 1.2.1.

6.V.2 Industrial Activities Covered by Sector V

The types of activities that permittees under Sector V are primarily engaged in are:

6.V.2.1 textile mill products, of and regarding facilities and establishments engaged in the preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage, the manufacturing of broadwoven fabrics, narrow woven fabrics, knit fabrics, and carpets and rugs from yarn;

6.V.2.2 processes involved in the dyeing and finishing of fibers, yarn fabrics, and knit apparel;

6.V.2.3 the integrated manufacturing of knit apparel and other finished articles of yarn;

6.V.2.4 the manufacturing of felt goods (wool), lace goods, non-woven fabrics, miscellaneous textiles, and other apparel products.

6.V.3 Limitations on Coverage

6.V.3.1 *Prohibition of Non-Storm Water Discharges.* (See also Part 1.2.3.1) Not authorized by this permit: discharges of wastewater (*e.g.,* wastewater resulting from wet processing or from any processes relating to the production process); reused/recycled water; and waters used in cooling towers. If you have these types of discharges from your facility, you must cover them under a separate NPDES permit.

6.V.4 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.V.4.1 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them: industrial-specific significant materials and industrial activities (*e.g.,* backwinding, beaming, bleaching, backing bonding, carbonizing, carding, cut and sew operations, desizing , drawing, dyeing locking, fulling, knitting, mercerizing, opening, packing, plying, scouring, slashing, spinning, synthetic-felt processing, textile waste processing, tufting, turning, weaving, web forming, winging, yarn spinning, and yarn texturing).

6.V.4.2 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.V.4.2.1 *Material Storage Area.* Plainly label and store all containerized materials (*e.g.,* fuels, petroleum products, solvents, dyes, etc.) in a protected area, away from drains. Describe and implement measures that prevent or minimize contamination of the storm water runoff from such storage areas, including a description of the containment area or enclosure for those materials stored outdoors. Also consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances. For storing empty chemical drums/containers, ensure the drums/containers are clean (consider triple-rinsing) and there is no contact of residuals with precipitation/runoff. Collect and dispose of washwater from these cleanings properly.

6.V.4.2.2 *Material Handling Area.* Describe and implement measures that prevent or minimize contamination of storm water runoff from material handling operations and areas. Consider the following (or their equivalents): use of spill/overflow protection; covering fueling areas; and covering/enclosing areas where the transfer of material may occur. Where applicable address the replacement or repair of leaking connections, valves, transfer lines and pipes that may carry chemicals, dyes or wastewater.

6.V.4.2.3 *Fueling Areas.* Describe and implement measures that prevent or minimize contamination of storm water runoff from fueling areas. Consider the following (or their equivalents): covering the fueling area, using spill and overflow protection, minimizing runon of storm water to the fueling areas, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the fueling area.

6.V.4.2.4 *Above Ground Storage Tank Area.* Describe and implement measures that prevent or minimize contamination of the storm water runoff from above ground storage tank areas, including the associated piping and valves. Consider the following (or their equivalents): regular cleanup of these areas; preparation of the spill prevention control and countermeasure program, provide spill and overflow protection; minimizing runoff of storm water from adjacent areas; restricting access to the area; insertion of filters in adjacent catch basins; providing absorbent booms in unbermed fueling areas; using dry cleanup methods; and permanently sealing drains within critical areas that may discharge to a storm drain.

6.V.4.3 *Inspections.* (See also Part 4.2.7.2.1.5) Inspect, at least on a monthly basis, the following activities and areas (at a minimum): transfer and transmission lines; spill prevention; good housekeeping practices; management of process waste products; all structural and non structural management practices.

6.V.4.4 *Employee Training.* (See also Part 4.2.7.2.1.6) As part of your employee training program, address, at a minimum, the following activities (as applicable): use of reused/recycling waters; solvents management; proper disposal of dyes; proper disposal of petroleum products and spent lubricants; spill prevention and control; fueling procedures; and general good housekeeping practices.

6.V.4.5 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9) Conduct regularly scheduled evaluations at least once a year and address those areas contributing to a storm water discharge associated with industrial activity for evidence of, or the potential for, pollutants entering the drainage system. Inspect, at a minimum, as appropriate: storage tank areas; waste disposal and storage areas; dumpsters and open containers stored outside; materials storage areas; engine maintenance and repair areas; material handing areas and loading dock areas.

6.W Sector W—Furniture and Fixtures

6.W.1 Covered Storm Water Discharges

The requirements in Part 6.W apply to storm water discharges associated with industrial activity from Furniture and Fixtures facilities as identified by the Activity Code specified under Sector W in Table 1–1 of Part 1.2.1.

6.W.2 Industrial Activities Covered by Sector W

The types of activities that permittees under Sector W are primarily engaged in the manufacturing of:

6.W.2.1 wood kitchen cabinets;

6.W.2.2 household furniture;

6.W.2.3 office furniture;

6.W.2.4 public buildings and related furniture;

6.W.2.5 partitions, shelving, lockers, and office and store fixtures;

6.W.2.6 miscellaneous furniture and fixtures.

6.W.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.W.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: material storage (including tanks or other vessels used for liquid or waste storage) areas; outdoor material processing areas; areas where wastes are treated, stored or disposed; access roads; and rail spurs.

6.X Sector X—Printing and Publishing

6.X.1 Covered Storm Water Discharges

The requirements in Part 6.X apply to storm water discharges associated with industrial activity from Printing and Publishing facilities as identified by the Activity Code specified under Sector X in Table 1.1 of Part 1.2.1.

6.X.2 Industrial Activities Covered by Sector X

The types of activities that permittees under Sector X are primarily engaged in are:

6.X.2.1 book printing;

6.X.2.2 commercial printing and lithographics;

6.X.2.3 plate making and related services;

6.X.2.4 commercial printing, gravure;

6.X.2.5 commercial printing not elsewhere classified.

6.X.3 Storm Water Pollution Prevention Plan Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.X.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: above ground storage tanks, drums and barrel permanently stored outside.

6.X.3.2 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them, as applicable: loading and unloading operations; outdoor storage activities; significant dust or particulate generating processes; and onsite waste disposal practices (*e.g.*, blanket wash). Also identify the pollutant or pollutant parameter (*e.g.*, oil and grease, scrap metal, etc.) associated with each pollutant source.

6.X.3.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.X.3.3.1 *Material Storage Areas.* Plainly label and store all containerized materials (*e.g.*, skids, pallets, solvents, bulk inks, and hazardous waste, empty drums, portable/mobile containers of plant debris, wood crates, steel racks, fuel oil, etc.) in a protected area, away from drains. Describe and implement measures that prevent or minimize contamination of the storm water runoff from such storage areas, including a description of the containment area or enclosure for those materials stored outdoors. Also consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances.

6.X.3.3.2 *Material Handling Area.* Describe and implement measures that prevent or minimize contamination of storm water runoff from material handling operations and areas (*e.g.*, blanket wash, mixing solvents, loading/unloading materials). Consider the following (or their equivalents): use of spill/overflow protection; covering fueling areas; and covering/enclosing areas where the transfer of materials may occur. Where applicable address the replacement or repair of leaking connections, valves, transfer lines and pipes that may carry chemicals or wastewater.

6.X.3.3.3 *Fueling Areas.* Describe and implement measures that prevent or minimize contamination of storm water runoff from fueling areas. Consider the following (or their equivalents): covering the fueling area, using spill and overflow protection, minimizing runoff of storm water to the fueling areas, using dry cleanup methods, and treating and/or recycling storm water runoff collected from the fueling area.

6.X.3.3.4 *Above Ground Storage Tank Area.* Describe and implement measures that prevent or minimize contamination of the storm water runoff from above ground storage tank areas, including the associated piping and valves. Consider the following (or their equivalents): regular cleanup of these areas; preparation of the spill prevention control and countermeasure program, provide spill and overflow protection; minimizing runoff of storm water from adjacent areas; restricting access to the area; insertion of filters in adjacent catch basins; providing absorbent booms in unbermed fueling areas; using dry cleanup methods; and permanently sealing drains within critical areas that may discharge to a storm drain.

6.X.3.4 *Employee Training.* (See also Part 4.2.7.2.1.6) As part of your employee training program, address, at a minimum, the following activities (as applicable): spent solvent management; spill prevention and control; used oil management; fueling procedures; and general good housekeeping practices.

6.Y Sector Y—Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries

6.Y.1 Covered Storm Water Discharges

The requirements in Part 6.Y apply to storm water discharges associated with industrial activity from Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries facilities as identified by the Activity

Code specified under Sector Y in Table 1–1 of Part 1.2.1.

6.Y.2 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.Y.2.1 *Potential Pollutant Sources.* (See also Part 4.2.4) Review the use of zinc at your facility and the possible pathways through which zinc may be discharged in storm water runoff.

6.Y.2.2 *Controls for Rubber Manufacturers.* (See also Part 4.2.7) Describe and implement specific controls to minimize the discharge of zinc in your storm water discharges. Parts 6.Y.2.2.1 to 6.Y.2.2.5 give possible sources of zinc to be reviewed and list some specific BMPs to be considered for implementation (or their equivalents). Some general BMP options to consider: using chemicals which are purchased in pre-weighed, sealed polyethylene bags; storing materials which are in use in sealable containers; ensuring an airspace between the container and the cover to minimize ''puffing'' losses when the container is opened; and using automatic dispensing and weighing equipment.

6.Y.2.2.1 Inadequate Housekeeping. Review the handling and storage of zinc bags at your facility. BMP options: employee training on the handling/storage of zinc bags; indoor storage of zinc bags; cleanup zinc spills without washing the zinc into the storm drain, and the use of 2,500-pound sacks of zinc rather than 50- to 100-pound sacks;

6.Y.2.2.2 Dumpsters. Reduce discharges of zinc from dumpsters. BMP options: covering the dumpster; moving the dumpster indoors; or provide a lining for the dumpster.

6.Y.2.2.3 Malfunctioning Dust Collectors or Baghouses: Review dust collectors/baghouses as possible sources in zinc in storm water runoff. Replace or repair, as appropriate, improperly operating dust collectors/baghouses.

6.Y.2.2.4 *Grinding Operations.*

Review dust generation from rubber grinding operations and, as appropriate, install a dust collection system.

6.Y.2.2.5 Zinc Stearate Coating Operations. Detail appropriate measures to prevent or clean up drips/spills of zinc stearate slurry that may be released to the storm drain. BMP option: using alternate compounds to zinc stearate.

6.Y.2.3 *Controls for Plastic Products Manufacturers.* Describe and implement specific controls to minimize the discharge of plastic resin pellets in your storm water discharges. BMPs to be considered for implementation (or their equivalents): minimizing spills; cleaning up of spills promptly and thoroughly; sweeping thoroughly; pellet capturing; employee education and disposal precautions.

6.Y.3 Monitoring and Reporting Requirements. (See also Part 5)

TABLE Y–1.—SECTOR-SPECIFIC NUMERIC EFFLUENT LIMITATIONS AND BENCHMARK MONITORING

Subsector	Parameter	Benchmark monitoring cut-off concentration	Numeric limitations
Part of Permit Affected/Supplemental Requirements			
Tires and Inner Tubes; Rubber Footwear; Gaskets, Packing and Sealing Devices; Rubber Hose and Belting; and Fabricated Rubber Products, Not Elsewhere Classified (SIC 3011–3069, rubber.	Total Recoverable Zinc	0.117 mg/L	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years.

6.Z Sector Z—Leather Tanning and Finishing

6.Z.1 Covered Storm Water Discharges

The requirements in Part 6.Z apply to storm water discharges associated with industrial activity from Leather Tanning and Finishing facilities as identified by the Activity Code specified under Sector Z in Table 1–1 of Part 1.2.1.

6.Z.2 Industrial Activities Covered by Sector Z

The types of activities that permittees under Sector Z are primarily engaged are leather tanning, curry and finishing; dry finishing operations; and haul roads, access roads and rail spurs.

6.Z.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.Z.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: processing and storage areas of the beamhouse, tanyard, and re-tan wet finishing and

6.Z.3.2 *Potential Pollutant Sources.* (See also Part 4.2.4) At a minimum, describe the following additional sources and activities that have potential pollutants associated with them (as appropriate): temporary or permanent storage of fresh and brine cured hides; extraneous hide substances and hair; leather dust, scraps, trimmings and shavings; chemical drums, bags, containers and above ground tanks; empty chemical containers and bags; spent solvents; floor sweepings/washings; refuse, waste piles and sludge; and significant dust/particulate generating processes (*e.g.,* buffing).

6.Z.3.3 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.Z.3.3.1 *Storage Areas for Raw, Semiprocessed or Finished Tannery Byproducts.* Pallets/bales of raw, semiprocessed or finished tannery byproducts (*e.g.,* splits, trimmings, shavings, etc.) should be stored indoors or protected by polyethylene wrapping, tarpaulins, roofed storage, etc. Consider placing materials on an impermeable surface, and enclosing or putting berms (or equivalent measures) around the area to prevent storm water runon/runoff.

6.Z.3.3.2 *Material Storage Areas.* Label storage containers of all materials (*e.g.,* specific chemicals, hazardous materials, spent solvents, waste materials). Describe and implement measures that prevent/minimize contact with storm water.

6.Z.3.3.3 *Buffing and Shaving Areas.* Describe and implement measures that prevent or minimize contamination of storm water runoff with leather dust from buffing/shaving areas. Consider dust collection enclosures, preventive inspection/maintenance programs or other appropriate preventive measures.

6.Z.3.3.4 *Receiving, Unloading, and Storage Areas.* Describe and implement measures that prevent or minimize contamination of storm water runoff from receiving, unloading, and storage areas. If these areas are exposed, consider (or their equivalent): Covering all hides and chemical supplies; diverting drainage to the process sewer;

or grade berming/curbing area to prevent runoff of storm water.

6.Z.3.3.5 *Outdoor Storage of Contaminated Equipment.* Describe and implement measures that prevent or minimize contact of storm water with contaminated equipment. Consider (or their equivalent): Covering equipment; diverting drainage to the process sewer; and cleaning thoroughly prior to storage.

6.Z.3.3.6 *Waste Management.* Describe and implement measures that prevent or minimize contamination of storm water runoff from waste storage areas. Consider (or their equivalent): Inspection/maintenance programs for leaking containers or spills; covering dumpsters; moving waste management activities indoors; covering waste piles with temporary covering material such as tarpaulins or polyethylene; and minimizing storm water runoff by enclosing the area or building berms around the area.

6.AA Sector AA—Fabricated Metal Products

6.AA.1 Covered Storm Water Discharges

The requirements in Part 6.AA apply to storm water discharges associated with industrial activity from Fabricated Metal Products facilities as identified by the Activity Code specified under Sector AA in Table 1–1 of Part 1.2.1.

6.AA.2 Industrial Activities Covered by Sector AA

The types of activities that permittees under Sector AA are primarily engaged in are:

6.AA.2.1 Fabricated metal products; except for electrical related industries;

6.AA.2.2 Fabricated metal products; except machinery and transportation equipment;

6.AA.2.3 Jewelry, silverware, and plated ware.

6.AA.3 Storm Water Pollution Prevention Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.AA.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: Raw metal storage areas; finished metal storage areas; scrap disposal collection sites; equipment storage areas; retention and detention basins; temporary/permanent diversion dikes or berms; right-of-way or perimeter diversion devices; sediment traps/barriers; processing areas including outside painting areas; wood preparation; recycling; and raw material storage.

6.AA.3.2 *Spills and Leaks.* (See also Part 4.2.5) When listing significant spills/leaks, pay attention to the following materials at a minimum: Chromium, toluene, pickle liquor, sulfuric acid, zinc and other water priority chemicals and hazardous chemicals and wastes.

6.AA.3.3 *Potential Pollutant Sources.* (See also Part 4.2.4) Describe the following additional sources and activities that have potential pollutants associated with them: Loading and unloading operations for paints, chemicals and raw materials; outdoor storage activities for raw materials, paints, empty containers, corn cob, chemicals, and scrap metals; outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, brazing, etc; onsite waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingots pieces, refuse and waste piles.

6.AA.3.4 *Good Housekeeping Measures.* (See also Part 4.2.7.2.1.1)

6.AA.3.4.1 *Raw Steel Handling Storage.* Describe and implement measures controlling or recovering scrap metals, fines and iron dust. Include measures for containing materials within storage handling areas.

6.AA.3.4.2 *Paints and Painting Equipment.* Describe and implement measures to prevent or minimize exposure of paint and painting equipment to storm water.

6.AA.3.5 *Spill Prevention and Response Procedures.* (See also Part 4.2.7.2.1.4) Ensure the necessary equipment to implement a clean up is available to personnel. The following areas should be addressed:

6.AA.3.5.1 *Metal Fabricating Areas.* Describe and implement measures for maintaining clean, dry, orderly conditions in these areas. Consider the use of dry clean-up techniques.

6.AA.3.5.2 *Storage Areas for Raw Metal.* Describe and implement measures to keep these areas free of condition that could cause spills or leakage of materials. Consider the following (or their equivalents): maintaining storage areas such that there is easy access in the event of a spill; and labeling stored materials to aid in identifying spill contents.

6.AA.3.5.3 *Receiving, Unloading, and Storage Areas.* Describe and implement measures to prevent spills and leaks; plan for quick remedial clean up; and instruct employees on clean-up techniques and procedures.

6.AA.3.5.4 *Storage of Equipment.* Describe and implement measures for preparing equipment for storage and the proper storage of equipment. Consider the following (or their equivalents): protecting with covers; storing indoors; and cleaning potential pollutants from equipment to be stored outdoors.

6.AA.3.5.5 *Metal Working Fluid Storage Areas.* Describe and implement measures for storage of metal working fluids.

6.AA.3.5.6 *Cleaners and Rinse Water.* Describe and implement measures: to control/cleanup spills of solvents and other liquid cleaners; control sand buildup and disbursement from sand-blasting operations; and prevent exposure of recyclable wastes. Substitute environmentally-benign cleaners when possible.

6.AA.3.5.7 *Lubricating Oil and Hydraulic Fluid Operations.* Consider using monitoring equipment or other devices to detect and control leaks/overflows. Consider installing perimeter controls such as dikes, curbs, grass filter strips or other equivalent measures.

6.AA.3.5.8 *Chemical Storage Areas.* Describe and implement proper storage methods that prevent storm water contamination and accidental spillage. Include a program to inspect containers and identify proper disposal methods.

6.AA.3.6 *Inspections.* (See also Part 4.2.7.2.1.5) Include, at a minimum, the following areas in all inspections: raw metal storage areas; finished product storage areas; material and chemical storage areas; recycling areas; loading and unloading areas; equipment storage areas; paint areas; vehicle fueling and maintenance areas.

6.AA.3.7 *Comprehensive Site Compliance Evaluation.* (See also Part 4.9.2) As part of your evaluation, also inspect: areas associated with the storage of raw metals; storage of spent solvents and chemicals; outdoor paint areas; and drainage from roof. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel and other related materials.

6.AA.4 Monitoring and Reporting Requirements

(See also Part 5)

TABLE AA–1.—SECTOR-SPECIFIC NUMERIC LIMITATIONS AND BENCHMARK MONITORING

Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark, monitoring, cutoff, concentration[1]	Numeric limitation
Part of Permit Affected/Supplemental Requirements			
Fabricated Metal Products Except Coating (SIC 3411–3471, 3482–3499, 3911–3915).	Total Recoverable Aluminum.	0.75 mg/L.	
	Total Recoverable Iron	1.0 mg/L.	
	Total Recoverable Zinc	0.117 mg/L.	
	Nitrate plus Nitrite Nitrogen	0.68 mg/L.	
Fabricated Metal Coating and Engraving (SIC 3479)	Total Recoverable Zinc	0.117 mg/L.	
	Nitrate plus Nitrite Nitrogen	0.68 mg/L.	

[1] Monitor once/quarter for the year 2 and year 4 Monitoring Years

6.AB Sector AB—Transportation Equipment, Industrial or Commercial Machinery

6.AB.1 Covered Storm Water Discharges

The requirements in Part 6.AB apply to storm water discharges associated with industrial activity from Transportation Equipment, Industrial or Commercial Machinery facilities as identified by the Activity Code specified under Sector AB in Table 1–1 of Part 1.2.1.

6.AB.2 Industrial Activities Covered by Sector AB

The types of activities that permittees under Sector AB are primarily engaged in are:

6.AB.2.1 Industrial and Commercial Machinery (except Computer and Office Equipment) (see Sector AC); and

6.AB.2.2 Transportation Equipment (except Ship and Boat Building and Repairing) (see Sector R).

6.AB.3 Storm Water Pollution Plan (SWPPP) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

6.AB.3.1 *Drainage Area Site Map.* (See also Part 4.2.2.3) Identify where any of the following may be exposed to precipitation/surface runoff: vents and stacks from metal processing and similar operations.

6.AB.3.2 *Non-Storm Water Discharges.* (See also Part 4.4) If your facility has a separate NPDES permit (or has applied for a permit) authorizing discharges of wastewater, attach a copy of the permit (or the application) to your SWPPP. Any new wastewater permits issued/reissued to you must then replace the old one in your SWPPP. If you discharge wastewater, other than solely domestic wastewater, to a Publicly Owned Treatment Works (POTW), you must notify the POTW of the discharge (identify the types of wastewater discharged, including any storm water). As proof of this notification, attach to your SWPPP a copy of the permit issued to your facility by the POTW or a copy of your notification to the POTW.

6.AC Sector AC—Electronic, Electrical Equipment and Components, Photographic and Optical Goods

6.AC.1 Covered Storm Water Discharges

The requirements in Part 6.AC apply to storm water discharges associated with industrial activity from facilities that manufacture Electronic, Electrical Equipment and Components, Photographic and Optical Goods as identified by the SIC Codes specified in Table 1–1 of Part 1.2.1.

6.AC.2 Industrial Activities Covered by Sector AC

The types of manufacturing activities that permittees under Sector AC are primarily engaged in are:

6.AC.2.1 Measuring, analyzing, and controlling instruments;

6.AC.2.2 Photographic, medical and optical goods;

6.AC.2.3 Watches and clocks; and

6.AC.2.4 Computer and office equipment.

6.AC.3 Additional Requirements

No additional sector-specific requirements apply to this sector.

6.AD Storm Water Discharges Designated by the Director as Requiring Permits

6.AD.1 Covered Storm Water Discharges

Sector AD is used to provide permit coverage for facilities designated by the Director as needing a storm water permit, or any discharges of industrial activity that do not meet the description of an industrial activity covered by Sectors A–AC. Therefore, almost any type of storm water discharge could be covered under this sector. You must be assigned to Sector AD by the Director and may NOT choose sector AD as the sector describing your activities on your own.

6.AD.1.1 *Eligibility for Permit Coverage.* Because this Sector only covers discharges designated by the Director as needing a storm water permit (which is an atypical circumstance) or your facility's industrial activities were inadvertently left out of Sectors A–AC, and your facility may or may not normally be discharging storm water associated with industrial activity, you must obtain the Director's written permission to use this permit prior to submitting a Notice of Intent. If you are authorized to use this permit, you will be required to ensure your discharges meet the basic eligibility provisions of this permit at Part 1.2.

6.AD.2 Storm Water Pollution Prevention Plan (SWPPP) Requirements

The Director will establish any additional Storm Water Pollution Prevention Plan requirements for your facility at the time of accepting your Notice of Intent to be covered by this permit. Additional requirements would be based on the nature of activities at your facility and your storm water discharges.

6.AD.3 Monitoring and Reporting Requirements

The Director will establish any additional monitoring and reporting requirements for your facility at the time of accepting your Notice of Intent to be covered by this permit. Additional requirements would be based on the nature of activities at your facility and your storm water discharges.

7. Reporting

7.1 Reporting Results of Monitoring

Depending on the types of monitoring required for your facility, you may have to submit the results of your monitoring or you may only have to keep the results with your Storm Water Pollution Prevention Plan. You must follow the reporting requirements and deadlines in Table 7–1 that apply to the types of monitoring that apply to your facility.

If required by the conditions of the permit that apply to your facility, you must submit analytical monitoring results obtained from each outfall associated with industrial activity (or a certification as per 5.3.1) on a Discharge Monitoring Report (DMR) form (one form must be submitted for each storm event sampled). An example of a form is found in the Guidance Manual for the Monitoring and Reporting Requirements of the NPDES Storm Water Multi-Sector General Permit. A copy of the DMR is also available on the Internet at *http://www.epa.gov/owm/sw/permits-and-forms/index.htm.* The signed DMR must be sent to: MSGP DMR (4203), US EPA, 1200 Pennsylvania Avenue NW., Washington, DC 20460.

Note: If EPA notifies dischargers (either directly, by public notice or by making information available on the Internet) of other DMR form options that become available at a later date (*e.g.*, electronic submission of forms), you may take advantage of those options to satisfy the DMR use and submission requirements of Part 7.

TABLE 7–1.—DMR/ALTERNATIVE CERTIFICATION SUBMISSION DEADLINES

Type of monitoring	Reporting deadline (postmark)
Monitoring for Numeric Limitation	Submit results by the 28th day of the month following the monitoring period.
Benchmark Monitoring:	
Monitoring Year 2001–2002	Save and submit all results for year in one package by January 28, 2003.
Monitoring Year 2003–2004	Save and submit all results for year in one package by January 28, 2005.
Biannual Monitoring for Metal Mining Facilities (see Part 6.G).	Save and submit all results for year in one package by January 28 of the year following the monitoring year.
Visual Monitoring	Retain results with SWPPP—do not submit unless requested to do so by Permitting Authority.
State/Tribal/Territory—Specific Monitoring	See Part 13 (conditions for specific States, Indian country, and Territories).

7.2 Additional Reporting for Dischargers to a Large or Medium Municipal Separate Storm Sewer System

If you discharge storm water discharge associated with industrial activity through a large or medium municipal separate storm sewer system (systems serving a population of 100,000 or more), you must also submit signed copies of your discharge monitoring reports to the operator of the municipal separate storm sewer system in accordance with the dates provided in Table 7–1.

7.3 Miscellaneous Reports

You must submit any other reports required by this permit to the Director of the NPDES program at the address of the appropriate Regional Office listed in Part 8.3.

8. Retention of Records

8.1 Documents

In addition to the requirements of Part 9.16.2, you must retain copies of Storm Water Pollution Prevention Plans and all reports and certifications required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the facility's coverage under this permit expires or is terminated. This period may be extended by request of the Director at any time.

8.2 Accessibility

You must retain a copy of the Storm Water Pollution Prevention Plan required by this permit (including a copy of the permit language) at the facility (or other local location accessible to the Director, a State, Tribal or Territorial agency with jurisdiction over water quality protection; local government officials; or the operator of a municipal separate storm sewer receiving discharges from the site) from the date of permit coverage to the date of permit coverage ceases. You must make a copy of your Storm Water Pollution Prevention Plan available to the public if requested to do so in writing.

8.3 Addresses

Except for the submittal of NOIs and NOTs (see Parts 2.1 and 11.2, respectively), all written correspondence concerning discharges in any State, Indian country land, Territory, or from any Federal facility covered under this permit and directed to the EPA, including the submittal of individual permit applications, must be sent to the address of the appropriate EPA Regional Office listed below:

8.3.1 Region 1: CT, MA, ME, NH, RI, VT

EPA Region 1, Office of Ecosystem Protection, One Congress Street—CMU, Boston, MA 02114.

8.3.2 Region 2: NJ, NY, PR, VI

United States EPA, Region 2, Caribbean Environmental Protection Division, Environmental Management Branch, Centro Europa Building, 1492 Ponce de Leon Ave., Suite 417, San Juan, PR 00907–4127.

8.3.3 Region 3: DE, DC, MD, PA, VA, WV

EPA Region 3, Water Protection Division (3WP13), Storm Water Coordinator, 1650 Arch Street, Philadelphia, PA 19103.

8.3.4 Region 4: AL, FL, GA, KY, MS, NC, SC, TN

Environmental Protection Agency, Region 4, Clean Water Act Enforcement Section, Water Programs Enforcement Branch, Water Management Division, Atlanta Federal Center, 61 Forsyth Street, SW., Atlanta, GA 30303.

8.3.5 Region 5: IL, IN, MI, MN, OH, WI

(Coverage Not Available Under This Permit.)

8.3.6 Region 6: AR, LA, OK, TX, NM

(Except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands)

United States EPA, Region 6, Storm Water Staff, Enforcement and Compliance Assurance Division (GEN–WC), EPA SW MSGP, P.O. Box 50625, Dallas, TX 75205.

8.3.7 Region 7:

(Coverage Not Available Under This Permit.)

8.3.8 Region 8: CO, MT, ND, SD, WY, UT

(Except see Region 9 for Goshute Reservation and Navajo Reservation lands), the Ute Mountain Reservation in NM, and the Pine Ridge Reservation in NE

United States EPA, Region 8, Ecosystems Protection Program (8EPR–

EP), Storm Water Staff, 999 18th Street, Suite 300, Denver, CO 80202–2466.

8.3.9 Region 9: AZ, CA, HI, NV, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Goshute Reservation in UT and NV, the Navajo Reservation in UT, NM, and AZ, the Duck Valley Reservation in ID, Fort McDermitt Reservation in OR

United States EPA, Region 9, Water Management Division, WTR–5, Storm Water Staff, 75 Hawthorne Street, San Francisco, CA 94105.

8.3.10 Region 10: ID, WA, OR

(Except see Region 9 for Fort McDermitt Reservation.)

United States EPA, Region 10, Office of Water OW–130, 1200 6th Avenue, Seattle, WA 98101.

8.4 State, Tribal, and Other Agencies

See Part 13 for addresses of States or Tribes that require submission of information to their agencies.

9. Standard Permit Conditions

9.1 Duty To Comply

9.1.1 You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of CWA and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

9.1.2 *Penalties for Violations of Permit Conditions:* The Director will adjust the civil and administrative penalties listed below in accordance with the Civil Monetary Penalty Inflation Adjustment Rule (**Federal Register:** December 31, 1996, Volume 61, Number 252, pages 69359–69366, as corrected, March 20, 1997, Volume 62, Number 54, pages 13514–13517) as mandated by the Debt Collection Improvement Act of 1996 for inflation on a periodic basis. This rule allows EPA's penalties to keep pace with inflation. The Agency is required to review its penalties at least once every four years thereafter and to adjust them as necessary for inflation according to a specified formula. The civil and administrative penalties listed below were adjusted for inflation starting in 1996.

9.1.2.1 *Criminal Penalties.*

9.1.2.1.1 *Negligent Violations.*

The CWA provides that any person who negligently violates permit conditions implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

9.1.2.1.2 *Knowing Violations.* The CWA provides that any person who knowingly violates permit conditions implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both.

9.1.2.1.3 *Knowing Endangerment.* The CWA provides that any person who knowingly violates permit conditions implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both.

9.1.2.1.4 *False Statement.* The CWA provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for not more than two years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See section 309(c)(4) of the Clean Water Act.)

9.1.2.2 *Civil Penalties.* The CWA provides that any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $27,500 per day for each violation.

9.1.2.3 *Administrative Penalties.* The CWA provides that any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:

9.1.2.3.1 *Class I Penalty.* Not to exceed $11,000 per violation nor shall the maximum amount exceed $27,500.

9.1.2.3.2 *Class II Penalty.* Not to exceed $11,000 per day for each day during which the violation continues nor shall the maximum amount exceed $137,500.

9.2 Continuation of the Expired General Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedures Act and remain in force and effect. Any permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

9.2.1 Reissuance or replacement of this permit, at which time you must comply with the Notice of Intent conditions of the new permit to maintain authorization to discharge; or

9.2.2 Your submittal of a Notice of Termination; or

9.2.3 Issuance of an individual permit for your discharges; or

9.2.4 A formal permit decision by the Director not to reissue this general permit, at which time you must seek coverage under an alternative general permit or an individual permit.

9.3 Need To Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

9.4 Duty To Mitigate

You must take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

9.5 Duty To Provide Information

You must furnish to the Director or an authorized representative of the Director any information which is requested to determine compliance with this permit or other information.

9.6 Other Information

If you become aware that you have failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Director, you must promptly submit such facts or information.

9.7 Signatory Requirements

All Notices of Intent, Notices of Termination, Storm Water Pollution Prevention Plans, reports, certifications or information either submitted to the Director or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by you, must be signed as follows:

9.7.1 All notices of intent and notices of termination must be signed as follows:

9.7.1.1 *For a corporation:* By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

9.7.1.2 *For a partnership or sole proprietorship:* By a general partner or the proprietor, respectively; or

9.7.1.3 *For a municipality, State, Federal, or other public agency:* By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (1) The chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (*e.g.,* Regional Administrators of EPA).

9.7.2 All reports required by this permit and other information must be signed as follows:

9.7.2.1 All reports required by this permit and other information requested by the Director or authorized representative of the Director must be signed by a person described in Part 9.7.1 or by a duly authorized representative of that person.

9.7.2.2 A person is a duly authorized representative only if the authorization is made in writing by a person described Part 9.7.1 and submitted to the Director.

9.7.2.3 The authorization must specify either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).

9.7.3 *Changes to Authorization.* If the information on the NOI filed for permit coverage is no longer accurate because a different operator has responsibility for the overall operation of the facility, a new Notice of Intent satisfying the requirements of Part 2 must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative. The change in authorization must be submitted within the time frame specified in Part 2.1, and sent to the address specified in Part 2.4.

9.7.4 *Certification.* Any person signing documents under Part 9.7 must make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

9.8 Penalties for Falsification of Reports

Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two years, or by both.

9.9 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve you from any responsibilities, liabilities, or penalties to which you are or may be subject under section 311 of the CWA or section 106 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

9.10 Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

9.11 Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

9.12 Requiring Coverage Under an Individual Permit or an Alternative General Permit

9.12.1 Eligibility for this permit does not confer a vested right to coverage under the permit.

The Director may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Director to take action under this paragraph. Where the Director requires a permittee authorized to discharge under this permit to apply for an individual NPDES permit, the Director will notify you in writing that a permit application is required. This notification will include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for you to file the application, and a statement that on the effective date of issuance or denial of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit will automatically terminate. Applications must be submitted to the appropriate Regional Office indicated in Part 8.3 of this permit. The Director may grant additional time to submit the application upon request of the applicant. If a permittee fails to submit in a timely manner an individual NPDES permit application as required by the Director under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified by the Director for application submittal.

9.12.2 Any permittee authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. In such cases, you must submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with reasons supporting the request, to the Director at the address for the appropriate Regional

Office indicated in Part 8.3 of this permit. The request may be granted by issuance of any individual permit or an alternative general permit if the reasons cited by you are adequate to support the request.

9.12.3 When an individual NPDES permit is issued to a permittee otherwise subject to this permit, or the permittee is authorized to discharge under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Director.

9.12.4 The Director's notification that coverage under an alternative permit is required does not imply that any discharge that did not or does not meet the eligibility requirements of Part 1.2 is or has been covered by this permit.

9.13 State/Tribal Environmental Laws

9.13.1 Nothing in this permit will be construed to preclude the institution of any legal action or relieve you from any responsibilities, liabilities, or penalties established pursuant to any applicable State/Tribal law or regulation under authority preserved by section 510 of the Act.

9.13.2 No condition of this permit releases you from any responsibility or requirements under other environmental statutes or regulations.

9.14 Proper Operation and Maintenance

You must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by you to achieve compliance with the conditions of this permit and with the requirements of Storm Water Pollution Prevention Plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of this permit.

9.15 Inspection and Entry

You must allow the Director or an authorized representative of EPA, the State/Tribe, or, in the case of a facility which discharges through a municipal separate storm sewer, an authorized representative of the municipal owner/operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

9.15.1 Enter upon the your premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

9.15.2 Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

9.15.3 Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

9.16 Monitoring and Records

9.16.1 *Representative Samples/Measurements.* Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.

9.16.2 *Retention of Records.*

9.16.2.1 You must retain records of all monitoring information, and copies of all monitoring reports required by this permit for at least three (3) years from the date of sample, measurement, evaluation or inspection, or report. This period may be extended by request of the Director at any time. Permittees must submit any such records to the Director upon request.

9.16.2.2 You must retain the Storm Water Pollution Prevention Plan developed in accordance with Part 4 of this permit, including the certification required under Section 2.2.4.3 of this permit, for at least 3 years after the last modification or amendment is made to the plan.

9.16.3 *Records Contents.* Records of monitoring information must include:

9.16.3.1 The date, exact place, and time of sampling or measurements;

9.16.3.2 The initials or name(s) of the individual(s) who performed the sampling or measurements;

9.16.3.3 The date(s) analyses were performed;

9.16.3.4 The time(s) analyses were initiated;

9.16.3.5 The initials or name(s) of the individual(s) who performed the analyses;

9.16.3.6 References and written procedures, when available, for the analytical techniques or methods used; and

9.16.3.7 The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

9.16.4 *Approved Monitoring Methods.* Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

9.17 Permit Actions

This permit may be modified; revoked and reissued; or terminated for cause. Your filing of a request for a permit modification; revocation and reissuance; or your submittal of a notification of planned changes or anticipated non-compliance does not automatically stay any permit condition.

10. Reopener Clause

10.1 Water Quality Protection

If there is evidence indicating that the storm water discharges authorized by this permit cause, have the reasonable potential to cause, or contribute to a violation of a water quality standard, you may be required to obtain an individual permit or an alternative general permit in accordance with Part 3.3 of this permit, or the permit may be modified to include different limitations and/or requirements.

10.2 Procedures for Modification or Revocation

Permit modification or revocation will be conducted according to 40 CFR 122.62, 122.63, 122.64 and 124.5.

11. Transfer or Termination of Coverage

11.1 Transfer of Permit Coverage

Automatic transfers of permit coverage under 40 CFR 122.61(b) are not allowed for this general permit.

11.1.1 Transfer of coverage from one operator to a different operator (*e.g.,* facility sold to a new company): the new owner/operator must complete and file an NOI in accordance with Part 1.3 at least 2 days prior to taking over operational control of the facility. The old owner/operator must file an NOT (Notice of Termination) within thirty (30) days after the new owner/operator has assumed responsibility for the facility.

11.1.2 Simple name changes of the permittee (*e.g.,* Company ''A'' changes name to ''ABC, Inc.'' or Company ''B'' buys out Company ''A'') may be done by filing an amended NOI referencing the facility's assigned permit number and requesting a simple name change.

11.2 Notice of Termination (NOT)

You must submit a completed Notice of Termination (NOT) that is signed in accordance with Part 9.7 when one or more of the conditions contained in Part 1.4 (Terminating Coverage) have been met. The NOT form found in Addendum E will be used unless it has been replaced by a revised version by the Director. The Notice of Termination must include the following information:

11.2.1 The NPDES permit number for the storm water discharge identified by the Notice of Termination;

11.2.2 An indication of whether the storm water discharges associated with industrial activity have been eliminated (*i.e.,* regulated discharges of storm water are being terminated); you are no longer an operator of the facility; or you have obtained coverage under an alternative permit;

11.2.3 The name, address and telephone number of the permittee submitting the Notice of Termination;

11.2.4 The name and the street address (or a description of location if no street address is available) of the facility for which the notification is submitted;

11.2.5 The latitude and longitude of the facility; and

11.2.6 The following certification, signed in accordance with Part 9.7 (signatory requirements) of this permit. For facilities with more than one permittee and/or operator, you need only make this certification for those portions of the facility where the you were authorized under this permit and not for areas where the you were not an operator:

I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that authorized by a general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this Notice of Termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

11.3 Addresses

All Notices of Termination must be submitted using the form provided by the Director (or a photocopy thereof) to the address specified on the NOT form.

11.4 Facilities Eligible for ''No Exposure'' Exemption for Storm Water Permitting

By filing a certification of ''No Exposure'' under 40 CFR 122.26(g), you are automatically removed from permit coverage and a NOT to terminate permit coverage is not required.

12. Definitions

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Commencement of Construction the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities.

Control Measure as used in this permit, refers to any Best Management Practice or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

CWA means the Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. 1251 *et seq.*

Director means the Regional Administrator of the Environmental Protection Agency or an authorized representative.

Discharge when used without qualification means the ''discharge of a pollutant.''

Discharge of Storm Water Associated with Construction Activity as used in this permit, refers to a discharge of pollutants in storm water runoff from areas where soil disturbing activities (*e.g.,* clearing, grading, or excavation), construction materials or equipment storage or maintenance (*e.g.,* fill piles, borrow areas, concrete truck washout, fueling), or other industrial storm water directly related to the construction process (*e.g.,* concrete or asphalt batch plants) are located. (See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15) for the two regulatory definitions on regulated storm water associated with construction sites).

Discharge of Storm Water Associated with Industrial Activity is defined at 40 CFR 122.26(b)(14).

Facility or Activity means any NPDES ''point source'' or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the NPDES program.

Flow-Weighted Composite Sample means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

Indian country, as defined in 18 USC 1151, means: (a) All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a state; and (c) all Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe.

Industrial Activity as used in this permit refers to the eleven categories of industrial activities included in the definition of ''discharges of storm water associated with industrial activity''.

Industrial Storm Water as used in this permit refers to storm water runoff associated with the definition of ''discharges of storm water associated with industrial activity''.

Large and Medium Municipal Separate Storm Sewer Systems are defined at 40 CFR 122.26(b)(4) and (7), respectively and means all municipal separate storm sewers that are either:

1. Located in an incorporated place (city) with a population of 100,000 or more as determined by the 1990 Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR 122); or
2. Located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR 122); or
3. Owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium

municipal separate storm sewer system.

Municipal Separate Storm Sewer is defined at 40 CFR 122.26.

No exposure means that all industrial materials or activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt and/or runoff.

NOI means Notice of Intent to be covered by this permit (see Part 2 of this permit.)

NOT means Notice of Termination (see Part 11.2 of this permit).

Owner or operator means the owner or operator of any ''facility or activity'' subject to regulation under the NPDES program.

Point source means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

Pollutant is defined at 40 CFR 122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial or municipal waste.

Runoff coefficient means the fraction of total rainfall that will appear at the conveyance as runoff.

Special Aquatic Sites, as defined at 40 CFR 230.3(q–1), means those sites identified in 40 CFR 230 Subpart E. They are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important and easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region. (See 40 CFR 230.10(a)(3)).

Storm Water means storm water runoff, snow melt runoff, and surface runoff and drainage.

Storm Water Associated with Industrial Activity refers to storm water, that if allowed to discharge, would constitute a ''discharge of storm water associated with industrial activity'' as defined at 40 CFR 122.26(b)(14) and incorporated here by reference.

Waters of the United States means:

1. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters, including interstate ''wetlands'';
3. All other waters such as interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:

a. Which are or could be used by interstate or foreign travelers for recreational or other purposes;
b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
c. Which are used or could be used for industrial purposes by industries in interstate commerce;

4. All impoundments of waters otherwise defined as waters of the United States under this definition;
5. Tributaries of waters identified in paragraphs (1) through (4) of this definition;
6. The territorial sea; and
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs 1. through 6. of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA (other than cooling ponds for steam electric generation stations per 40 CFR 423) which also meet the criteria of this definition) are not waters of the United States. Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

You and *Your* as used in this permit is intended to refer to the permittee, the operator, or the discharger as the context indicates and that party's facility or responsibilities. The use of ''you'' and ''your'' refers to a particular facility and not to all facilities operated by a particular entity. For example, ''you must submit'' means the permittee must submit something for that particular facility. Likewise, ''all your discharges'' would refer only to discharges at that one facility.

13. Permit Conditions Applicable to Specific States, Indian Country Lands, or Territories

The provisions of Part 13 provide modifications or additions to the applicable conditions of Parts 1 through 12 of this permit to reflect specific additional conditions required as part of the State or Tribal CWA Section 401 certification process, or Coastal Zone Management Act certification process, or as otherwise established by the permitting authority. The additional revisions and requirements listed below are set forth in connection with, and only apply to, the following States, Indian country lands and Federal facilities.

13.1 Region 1

13.1.1 *CTR05*##I:* Indian country lands within the State of Connecticut.

13.1.2 *MAR05*###:* Commonwealth of Massachusetts, except Indian country lands.

13.1.2.1 Discharges covered by the general permit must comply with the provisions of 314 CMR 3.00; 314 CMR 4.00; 314 CMR 9.00; and 310 CMR 10.00 and any other related policies adopted under the authority of the Massachusetts Clean Waters Act, M.G.L. c.21, ss. 26–53 and Wetlands Protection Act, M.G.L., s.40. Specifically, new facilities or the redevelopment of existing facilities subject to this permit must comply with applicable storm water performance standards prescribed by state regulation or policy. A permit under 314 CMR 3.04 is not required for existing facilities which meet state storm water performance standards. An application for a permit under 314 CMR 3.00 is required only when required under 314 CMR 3.04(2)(b) (designation of a discharge on a case-by-case basis) or is otherwise identified in 314 CMR 3.00 or Department policy as a discharge requiring a permit application. Department regulations and policies may be obtained through the State House Bookstore or online at *www.magnet.state.ma.us/dep.*

13.1.2.2 The department may request a copy of the Storm Water Pollution Prevention Plan (SWPPP) or conduct an inspection of any facility covered by this permit to ensure compliance with state law requirements, including state water quality standards. The Department may enforce its certification conditions.

13.1.2.3 The results of any quarterly monitoring required by this permit must be sent to the appropriate Regional

Office of the Department where the monitoring identifies violations of effluent limits or benchmarks for any parameter for which monitoring is required under this permit.

13.1.3 *MAR05*##I:* Indian country lands within the Commonwealth of Massachusetts.

13.1.4 *MER05*###:* State of Maine, except Indian country lands.

13.1.5 *MER05*##I:* Indian country lands within the State of Maine.

13.1.6 *NHR05*###:* State of New Hampshire.

13.1.7 *RIR05*##I:* Indian country lands within the State of Rhode Island.

13.1.8 *VTR05*##F:* Federal Facilities in the State of Vermont.

13.2. Region 2

13.2.1 *PRR05*###:* The Commonwealth of Puerto Rico. No additional requirements

13.3 Region 3

13.3.1 *DCR05*###:* The District of Columbia.

13.3.2 *DER05*##F:* Federal Facilities in the State of Delaware.

13.4 Region 4

13.4.1 *ALR05*##I:* Indian country lands within the State of Alabama.

13.4.2 *FLR05*##I:* Indian country lands within the State of Florida.

13.4.3 *MSR05*##I:* Indian country lands within the State of Mississippi.

13.4.4 *NCR05*##I:* Indian country lands within the State of North Carolina.

13.5 Region 5

Permit coverage not available.

13.6 Region 6

13.6.1 *LAR05*##I:* Indian Country lands within the State of Louisiana. No additional requirements.

13.6.2 *NMR05*###:* The State of New Mexico, except Indian Country lands.

13.6.2.1 *Discharges to Water Quality Impaired/Water Quality Limited Waters:* Any operator who intends to obtain authorization under the MSGP for all new and existing storm water discharges to water quality-impaired (303(d)) waters (see *http://www.nmenv.state.nm.us/)* from facilities where there is a reasonable potential to contain pollutants for which the receiving water is impaired must satisfy the following conditions prior to the authorization. Signature of the NOI (which includes certifying eligibility for permit coverage) will be deemed the operator's certification that this eligibility requirement has been satisfied.

13.6.2.1.1 Prior to submitting a Notice of Intent (NOI) for coverage under the MSGP, provide an estimate of pollutant loads in storm water discharges from the facility to the New Mexico Environment Department, Surface Water Quality Bureau (SWQB). This estimate must include the documentation upon which the estimate is based (*e.g.,* sampling data from the facility, sampling data from substantially identical outfalls at similar facilities, modeling, etc.). Existing facilities must base this estimate on actual analytical data, if available.

13.6.2.1.2 Eligibility Requirements for New Discharges.

13.6.2.1.2.1 If a Total Maximum Daily Load (TMDL) has been developed, permit coverage is available only if the operator has received notice from the SWQB confirming eligibility.

Note: Following receipt of the information required under Part 13.6.2.1.1, SWQB anticipates using the following process in making eligibility determinations for new discharges into 303(d) waters where a TMDL has been developed:

• SWQB will notify the facility operator and EPA that the estimated pollutant load is consistent with the TMDL and that the proposed storm water discharges meet the eligibility requirements of Part 1.2.3.8 of the MSGP and may be authorized under this NPDES permit; or

• SWQB will notify the facility operator and EPA that the estimated pollutant load is not consistent with the TMDL and that the proposed storm water discharges do not meet the eligibility requirements of Part 1.2.3.8 of the MSGP and can not be authorized under this NPDES permit.

13.6.2.1.2.2 If a Total Maximum Daily Load (TMDL) has not been developed, permit coverage is not available under this permit for discharges to 303(d) waters and the operator must seek coverage under a separate permit.

Note: Following receipt of the information required under Part 13.6.2.1.1, SWQB anticipates using the following process in making eligibility determinations for new discharges into 303(d) waters where a TMDL has not yet been developed: SWQB will notify the facility operator and EPA that the proposed storm water discharges do not meet the eligibility requirements of Part 1.2.3.8 of the MSGP and can not be authorized under this NPDES permit.

13.6.2.1.3 *Eligibility Requirements for Existing Discharges:*

13.6.2.1.3.1 If a Total Maximum Daily Load (TMDL) has been developed, permit coverage is available only if the operator has received notice from the SWQB confirming eligibility.

Note: Following receipt of the information required under Part 13.6.2.1.1, SWQB anticipates using the following process in making eligibility determinations for existing discharges into 303(d) waters where a TMDL has been developed:

• SWQB will notify the facility operator and EPA that the estimated pollutant load is consistent with the TMDL and that the proposed storm water discharges meet the eligibility requirements of Part 1.2.3.8 of the MSGP and may be authorized under this NPDES permit; or

• SWQB will notify the facility operator and EPA that the estimated pollutant load is not consistent with the TMDL and that the proposed storm water discharges do not meet the eligibility requirements of Part 1.2.3.8 of the MSGP and can not be authorized under this NPDES permit.

13.6.2.1.3.2 If a Total Maximum Daily Load (TMDL) has not been developed at the time of permit authorization, but is later developed during the term of this permit and identifies existing permitted discharges as having a reasonable potential to contain pollutants for which the receiving water is impaired, these discharges shall no longer be authorized by this permit unless, following notification by the SWQP:

• The operator completes revisions to his/her Storm Water Pollution Prevention Plan (SWPPP) to include additional and/or modified Best Management Practices (BMPs) designed to comply with any applicable Waste Load Allocation (WLA) established his/her discharges within 14 calendar days following notification by SWQB; and

• The operator implements the additional and/or modified BMPs before the next anticipated discharge following revision of the SWPPP; and

• A report is submitted to SWQB which documents actions taken to comply with this condition, including estimated pollutant loads, within 30 calendar days following implementation of the additional and/or modified BMPs.

13.6.2.1.4 Additional Monitoring—perform analytical monitoring for each outfall at least annually for any pollutant(s) for which the 303(d) water is impaired where there is a reasonable potential for discharges to contain any or all of these pollutants. Submit monitoring results to SWQB within 45 calendar days following sample collection. These monitoring requirements are not eligible for any waivers listed elsewhere in the permit.

13.6.2.2 Permit Eligibility Regarding Protection of Water Quality Standards and Compliance with State Anti-degradation Requirements: Storm water discharges associated with industrial activity to 303(d) waters as well as all other ‘‘waters of the State’’ that SWQB has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard and/or that do not comply with the applicable anti-degradation provisions of the State's WQS are not authorized by this permit.

Note: Upon receipt of this determination, NMED anticipates that, within a reasonable period of time, EPA will notify the general permittee to apply for and obtain an individual NPDES permit for these discharges per 40 CFR 122.28(b)(3).

13.6.2.3 Signed Copies of discharge monitoring reports, individual permit applications, the data and reports addressed in Part 13.6.2.1, and all other reports required herein, shall be submitted to the appropriate state office address: New Mexico—Program Manager, Point Source Regulation Section, Surface Water Quality Bureau, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico 87502.

13.6.3. NMR05*##I: Indian Country lands in the State of New Mexico, except Navajo Reservation lands (see Region 9) and Ute Mountain Reservation lands (see Region 8).

13.6.3.1 *Pueblo of Isleta* The following conditions apply only to discharges on the Pueblo of Isleta.

13.6.3.1.1 Copies of ''Certification of Eligibility of Coverage'' under Part 1.2.3.6.3 (Endangered Species) and Part 1.2.3.7 (Historical Properties), and their justifications, must be provided to the Tribe 10 days prior to filing the Notice of Intent (NOI).

13.6.3.1.2 A copy of the Storm Water Pollution Prevention Plan (SWPPP) must be provided to the Tribe 5 days prior to filing the NOI.

13.6.3.1.3 A copy of the NOI must be provided to the Tribe at the same time it is sent to the Environmental Protection Agency.

13.6.3.1.4 A copy of the Notice of Termination (NOT) must be provided to the Tribe at the same time it is sent to the Environmental Protection Agency.

13.6.3.1.5 Any notice of release of hazardous substances (Part 3.1.2) shall also be sent to the Tribe at the same time it is sent to the Environmental Protection Agency. Notification of a release of hazardous substances shall also be made to the Pueblo's Police Department (505–869–3030) or Governor's Office (505–869–3111) or Environment Department (505–869–5748).

13.6.3.1.6 Copies of all ''Routine Inspection Reports: (Part 4.2.7.2.1.5) and ''Comprehensive Inspection Reports'' (Part 4.9) shall be sent to the Tribe within 5 days of completion.

13.6.3.1.7 All analytical data (*e.g.*, Discharge Monitoring Reports, etc.) shall be provided to the Tribe at the same time it is provided to the EPA.

13.6.3.1.8 Exceedance of any EPA-established ''Benchmark Value'' for any pollutant will require quarterly monitoring for that pollutant until such time as analytical results from 4 consecutive quarters are below the ''Benchmark.''

13.6.3.1.9 Any permittee in Sector F shall monitor for all Clean Water Act Section 307(a) priority pollutants used in any of their processes. Monitoring shall be on a quarterly basis.

13.6.3.1.10 Any permittee in Sector M shall monitor for total oil & grease, glycols, and those solvents regulated under Safe Drinking Water Act mandates at 40 CFR 141.61(a) in addition to those parameters identified in Table M–1. Monitoring shall be on a quarterly basis.

13.6.3.1.11 Any permittee in Sector N shall monitor for PCBs in addition to those parameters identified in Table N–1. Monitoring shall be on a quarterly basis.

13.6.3.1.12 All written reports shall be sent to: Director, Environment Department, Pueblo of Isleta, Isleta, NM 87022.

13.6.3.2 *Pueblo of Nambe.* The following conditions apply only to discharges on the Pueblo of Nambe.

No additional requirements.

13.6.3.3 *Pueblo of Picuris.* The following conditions apply only to discharges on the Pueblo of Picuris.

13.6.3.4 *Pueblo of Pojoaque.* The following conditions apply only to discharges on the Pueblo of Pojoaque.

13.6.3.4.1 Notices of Intent (NOI) and notices of Termination (NOT) shall be submitted to the Pueblo of Pojoaque Environment Department at the same time they are submitted to EPA.

13.6.3.4.2 Storm Water Pollution Prevention Plans (SWPPP) shall be submitted to the Pueblo of Pojoaque Environment Department 30 days before commencement of the project.

13.6.3.4.3 If requested by the Pueblo of Pojoaque Environment Department (PPED), the permittee shall provide additional information necessary for a ''case by case'' eligibility determination to assure compliance with Pojoaque Pueblo Water Quality Standards.

Note: Upon receipt of an determination by the Pueblo of Pojoaque that discharges from a facility have the reasonable potential to be causing or contributing to a violation of Pojoaque Pueblo Water Quality Standards, EPA would notify the general permittee to either improve their Storm Water Pollution Prevention Plan to achieve compliance with Pojoaque Pueblo Water Quality Standards or apply for and obtain an individual NPDES permit for these discharges per 40 CFR 122.28(b)(3).

13.6.3.4.4 All written reports shall be sent to: Pueblo of Pojoaque Environment Department, 2 W. Gutierrez, Santa Fe, NM 87501; Phone (505) 455–2087; FAX (505) 455–2177.

13.6.3.5 *Pueblo of San Juan.* The following conditions apply only to discharges on the Pueblo of San Juan.

13.6.3.5.1 Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) shall be provided to the Pueblo five (5) days prior to the time it is provided to the Environmental Protection Agency. A copy of the Storm Water Pollution Prevention Plan shall be provided to the Pueblo five (5) days prior to the time the NOI is submitted to the Environmental Protection Agency.

13.6.3.5.2 All analytical data (*e.g.*, Discharge Monitoring Reports, etc.) shall be provided to the Pueblo at the same time it is provided to the Environmental Protection Agency. Monitoring activities must be coordinated with the Director of the Environment Department to insure consistency with the Pueblo of San Juan Surface Water Quality Monitoring Program.

13.6.3.5.3 Copies of all written reports required under the permit shall be sent to: Director, Environment Department, San Juan Pueblo, P.O. Box 717, San Juan Pueblo, NM 87566. For questions or coordination, you may contact the Director at (505) 852–4212.

13.6.3.6 *Pueblo of Sandia.* The following conditions apply only to discharges on the Pueblo of Sandia.

13.6.3.6.1 Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) shall be provided to the Pueblo at the same time it is provided to the Environmental Protection Agency. A copy of the Storm Water Pollution Prevention Plan must also be provided to the Pueblo at the time the NOI is submitted.

13.6.3.6.2 All analytical data (e.g., Discharge Monitoring Reports, etc) shall be provided to the Pueblo at the same time it is provided to the Environmental Protection Agency.

13.6.3.6.3 All written reports shall be sent to: Director, Environment Department, Pueblo of Sandia, Box 6008, Bernalillo, NM 87004.

13.6.3.7 *Pueblo of Tesuque.* The following conditions apply only to discharges on the Pueblo of Tesuque. No additional requirements.

13.6.3.8 Santa Clara Pueblo. The following conditions apply only to discharges on the Santa Clara Pueblo. No additional requirements.

13.6.3.9 *All Other Indian Country lands in New Mexico.* No additional requirements.

13.6.4. OKR05*##I: Indian Country lands within the State of Oklahoma. No additional requirements.

13.6.5. OKR05*##F: Facilities in the State of Oklahoma not under the jurisdiction of the Oklahoma Department of Environmental Quality, except those on Indian Country lands.

13.6.5.1 Ineligible Discharges to the Oklahoma Scenic Rivers System and Outstanding Resource Waters—New or proposed discharges to the Oklahoma Scenic Rivers System, including the Illinois River, Flint Creek, Barren Fork Creek, Mountain Fork, Little Lee Creek, and Big Lee Creek or to any water designated an ''Outstanding Resource Water'' (ORW) in Oklahoma's Water Quality Standards are not eligible for coverage under the MSGP. Existing discharges of storm water in these watersheds may be permitted under the MSGP only from point sources existing as of June 25, 1992, whether or not such storm water discharges were permitted as point sources prior to June 25, 1992.

13.6.6. TXR05*###: The State of Texas, except Indian Country lands.

13.6.6.1 The following limitations, independently required under the Texas Water Quality Standards (31 TAC 319.22 and 319.23), apply to discharges authorized by the permit:

13.6.6.1.1 *All Discharges to Inland Waters:* The maximum allowable concentrations of each of the hazardous metals, stated in terms of milligrams per liter (mg/l), for discharges to inland waters are as follows:

Total metal	Monthly average	Daily composite	Single grab
Arsenic	0.1	0.2	0.3
Barium	1.0	2.0	4.0
Cadmium	0.05	0.1	0.2
Chromium	0.5	1.0	5.0
Copper	0.5	1.0	2.0
Lead	0.5	1.0	1.5
Manganese	1.0	2.0	3.0
Mercury	0.005	0.005	0.01
Nickel	1.0	2.0	3.0
Selenium	0.05	0.1	0.2
Silver	0.05	0.1	0.2
Zinc	1.0	2.0	6.0

13.6.6.1.2 *All Discharges to Tidal Waters:* The maximum allowable concentrations of each of the hazardous metals, stated in terms of milligrams per liter (mg/l), for discharges to tidal waters are as follows:

Total metal	Monthly average	Daily composite	Single grab
Arsenic	0.1	0.2	0.3
Barium	1.0	2.0	4.0
Cadmium	0.1	0.2	0.3
Chromium	0.5	1.0	5.0
Copper	0.5	1.0	2.0
Lead	0.5	1.0	1.5
Manganese	1.0	2.0	3.0
Mercury	0.005	0.005	0.01
Nickel	1.0	2.0	3.0
Selenium	0.10	0.2	0.3
Silver	0.05	0.1	0.2
Zinc	1.0	2.0	6.0

13.6.6.1.3 Definitions:

Inland Waters—all surface waters in the State other than ''tidal waters'' as defined below.

Tidal Waters—those waters of the Gulf of Mexico within the jurisdiction of the State of Texas, bays and estuaries thereto, and those portions of the river systems which are subject to the ebb and flow of the tides, and to the intrusion of marine waters.

13.6.7. TXR05*##I: Indian Country lands within the State of Texas. No additional requirements.

13.7. *Region 7. Permit Coverage Not Available.*

13.8. *Region 8.*

13.8.1. COR05*##F: Federal Facilities in the State of Colorado, except those located on Indian country lands.

13.8.2. COR05*##I: Indian country lands within the State of Colorado, including the portion of the Ute Mountain Reservation located in New Mexico.

13.8.3. MTR05*##I: Reserved

13.8.4. NDR05*##I: Indian country lands within the State of North Dakota, including that portion of the Standing Rock Reservation located in South Dakota except for the Lake Traverse Reservation which is covered under South Dakota permit SDR05*##I listed below.

13.8.5. SDR05*##I: Indian country lands within the State of South Dakota, including the portion of the Pine Ridge Reservation located in Nebraska and the portion of the Lake Traverse Reservation located in North Dakota except for the Standing Rock Reservation which is covered under North Dakota permit NDR05*##I listed above.

13.8.6. UTR05*##I: Indian country lands in the State of Utah, except Goshute and Navajo reservation lands (see Region 9).

13.8.7. WYR05*##I: Indian country lands in the State of Wyoming.

13.9. *Region 9.*

13.9.1. ASR05*###: The Island of American Samoa.

13.9.1.1. Copies of NOIs shall also be submitted to the American Samoa Environmental Protection Agency at the following address concurrently with NOI submittal to EPA: American Samoa Environmental Protection Agency, Executive Office Building, Pago Pago, American Samoa 96799.

13.9.1.2. Updated storm water pollution prevention plans must be submitted to the American Samoa Environmental Protection Agency at the following address for review and approval as soon as they are completed: American Samoa Environmental Protection Agency, Executive Office Building, Pago Pago, American Samoa 96799.

13.9.2. AZR05*###: The State of Arizona, except Indian country lands.

13.9.2.1. Discharges authorized by this permit shall not cause or contribute to a violation of any applicable water quality standard of the State of Arizona (Arizona Administrative Code, Title 18, Chapter 11).

13.9.2.2. Notices of Intent (NOIs) shall also be submitted to the State of Arizona Department of Environmental Quality at the following address: Storm Water Coordinator, Arizona Department of Environmental Quality, 3033 N. Central Avenue, Phoenix, Arizona 85012. NOIs submitted to the State of Arizona shall include the well registration number if storm water associated with industrial activity is discharged to a dry well or an injection well.

13.9.2.3. Notices of Termination (NOTs) shall also be submitted to the State of Arizona Department of Environmental Quality at the following address: Storm Water Coordinator, Arizona Department of Environmental Quality, 3033 N. Central Avenue, Phoenix, Arizona 85012.

13.9.2.4. For facilities which submit a no exposure certification in accordance with Part 1.5 of the permit, the operator shall submit a copy of the no exposure certification to the State of Arizona Department of Environmental Quality at the following address: Storm Water Coordinator, Arizona Department of Environmental Quality, 3033 N. Central Avenue, Phoenix, Arizona 85012.

13.9.2.5. SARA Section 313 (Community Right to Know) facilities shall have the following requirement: Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of such chemicals. Appropriate measures to minimize discharges of Section 313 chemicals shall include: provision of secondary containment for at least the entire contents of the largest tank plus sufficient freeboard to allow for the 25-year, 24-hour precipitation event; a strong spill contingency and integrity testing plan, and/or other equivalent measures.

13.9.2.6. Delineation of Facility Areas Within the 100-Year Floodplain. All facilities or any portion of a facility that is located at or within the 100-year floodplain shall be delineated on the site map. The base flood elevation, if known, shall also be reported.

13.9.2.7. Facilities subject to monitoring and reporting requirements shall also submit Discharge Monitoring Report Form(s) (DMR) and other required monitoring information to the State of Arizona Department of Environmental Quality at the following address: Storm Water DMR Coordinator, Arizona Department of Environmental Quality, 3033 N. Central Avenue Phoenix, Arizona 85012.

13.9.2.8. The term ''Significant Sources of Non-Storm Water'' includes, but is not limited to discharges which could cause or contribute to violations of water quality standards of the State of Arizona, and discharges which could include releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or Section 102 of CERCLA (see CFR 302.4).

13.9.2.9. The term ''Base Flood Elevation'' as defined by Federal Emergency Management Agency (FEMA) is the height of the base (100-year) flood in relation to a specified datum, usually the National Geodetic Vertical Datum of 1929 of North American Vertical Datum of 1988. This is the elevation of the 100-year flood waters relative to ''mean sea level.''

13.9.2.10. The term ''100-year flood'' means the flood having a one percent chance of being equaled or exceeded in magnitude in any given year.

13.9.2.11. The term ''100-year floodplain'' means that area adjoining a river, stream, or watercourse covered by water in the event of a 100-year flood.

13.9.3. AZR05*##I: Indian country lands within the State of Arizona, including Navajo Reservation lands in New Mexico and Utah.

13.9.3.1. White Mountain Apache Tribe. The following condition applies only on the White Mountain Apache Tribe: All NOIs for proposed storm water discharge coverage shall be provided to the following address: Tribal Environmental Planning Office, Attn: Brenda Pusher-Begay, P.O. Box 1000, Whiteriver, AZ 85941.

13.9.4. CAR05*##I: Indian country lands within the State of California No additional requirements.

13.9.5. GUR05*###: The Island of Guam.

13.9.5.1. Facilities ineligible for Multi-Sector General Permit coverage which are required to submit an individual NPDES permit application must send a copy to the following address at the time of submittal to EPA: Guam Environmental Protection Agency, P.O. Box 22439 GMF, Barrigada, Guam 96921.

13.9.5.2. Copies of NOIs shall also be submitted to the following address concurrently with NOI submittal to EPA: Guam Environmental Protection Agency, P.O. Box 22439 GMF, Barrigada, Guam 96921.

13.9.5.3. Permittees required by the Director to submit an individual NPDES permit application or alternative general NPDES permit application must send a copy to the following address at the time of submittal to EPA: Guam Environmental Protection Agency, P.O. Box 22439 GMF, Barrigada, Guam 96921.

13.9.6. JAR05*###: Johnston Atoll. No additional requirements.

13.9.7. MWR05*###: Midway Island and Wake Island. No additional requirements.

13.9.8. NIR05*###: Commonwealth of the Northern Mariana Islands (CNMI)

13.9.8.1. All conditions and requirements set forth in the USEPA final NPDES MSGP must be complied with.

13.9.8.2. A storm water pollution prevention plan (SWPPP) for storm water discharges associated with industrial activity must be approved by the Director of the CNMI DEQ prior to the submission of the NOI to USEPA. The CNMI address for the submittal of the SWPPP for approval is: Commonwealth of the Northern Mariana Islands, Office of the Governor, Director, Division of Environmental Quality (DEQ), P.O. Box 501304 C.K., Saipan, MP 96950–1304.

13.9.8.3. An NOI to be covered by the storm water MSGP for discharges associated with industrial activity must be submitted to CNMI DEQ (use above address) and USEPA, Region 9, in the form prescribed by USEPA, accompanied by a SWPPP approval letter from CNMI DEQ.

13.9.8.4. The NOI must be postmarked seven (7) calendar days prior to any stormwater discharges and a copy must be submitted to the Director of CNMI DEQ (use above address) no later than seven (7) calendar days prior to any stormwater discharges.

13.9.8.5. All monitoring reports required by the MSGP must be submitted to CNMI DEQ (use above address).

13.9.8.6. In accordance with section 10.3(h) and (i) of CNMI water quality standards, CNMI DEQ reserves the right to deny coverage under the MSGP and to require submittal of an application for an individual NPDES permit based on a review of the NOI or other information made available to the Director.

13.9.9. NVR05*##I: Indian country lands within the State of Nevada, including the Duck Valley Reservation in Idaho, the Fort McDermitt Reservation in Oregon and the Goshute Reservation in Utah. No additional requirements.

13.10. *Region 10.*

13.10.1. (The terms and conditions of the 1995 Multi-Sector General Permit are effective for facilities in the State of Alaska through February 9, 2001.)

13.10.2. AKR05*##I: Indian country Lands within the State of Alaska.

13.10.3. IDR05*### The State of Idaho, except Indian country lands.

13.10.4. IDR05*##I: Indian country lands within the State of Idaho, except Duck Valley Reservation lands (see Region 9).

13.10.5. ORR05*##I: Indian country lands in the State of Oregon except Fort McDermitt Reservation lands (see Region 9).

13.10.6. WAR05*##I: Indian country lands within the State of Washington

13.10.6.1 Permittees on Chehalis Reservation lands must also meet the following conditions:

1. The permittee shall be responsible for achieving compliance with Confederated Tribes of Chehalis Reservation's Water Quality Standards, and

2. The permittee shall be responsible for submitting all Storm Water Pollution Prevention Plans to the Chehalis Tribal Department of Natural Resources at the following address for review and approval prior to the beginning of any discharge activities taking place: Confederated Tribes of Chehalis Reservation, Department of Natural Resources, 420 Howanut Road, Oakville, WA 98568.

13.10.6.2 Permittees on Puyallup Reservation lands must also meet the following conditions:

1. The permittee shall be responsible for achieving compliance with Puyallup Tribe's Water Quality Standards;

2. The permittee shall submit a copy of the Notice of Intent to be covered by the general permit to the Puyallup Tribe Environmental Department at the address listed below at the same time it is submitted to U.S. EPA;

3. The permittee shall be responsible for submitting all Storm Water Pollution Prevention Plans to the Puyallup Tribe Environmental Department at the following address for review and approval prior to the beginning of any discharge activities taking place: Puyallup Tribe Environmental Department, 2002 East 28th Street, Tacoma, WA 98404.

13.10.7. WAR05*##F: Federal Facilities in the State of Washington, except those located on Indian country lands.

13.10.7.1 Discharges authorized by this permit shall not cause or contribute to a violation of any applicable water quality standard of the State of Washington. These standards are found at Chapter 173–201A WAC (Water Quality Standards for Surface Waters), Chapter 173–204 WAC (Sediment Management Standards) and the National Toxics Rule for human health standards (57 FR 60848–60923).

13.10.7.2 Any operator of a facility in Sectors A, D, E, F, G, H, J, L, M, N, or U who intends to obtain authorization under the MSGP–2000 for all new and existing storm water discharges must conduct and report benchmark monitoring for turbidity with a cutoff concentration of 50 NTU.

Addendum A—Endangered Species Guidance

I. Assessing Permit Eligibility Regarding Endangered Species

A. Background

To meet its obligations under the Clean Water Act and the Endangered Species Act (ESA) and to promote those Acts' goals, the Environmental Protection Agency (EPA) is seeking to ensure the activities regulated by this Multi-Sector General Permit (MSGP) pose no jeopardy to endangered and threatened species and critical habitat. To ensure that those goals are met, applicants for MSGP coverage are required under Part 1.2.3.6 to assess the impacts of their storm water discharges, allowable non-storm water discharges, and discharge-related activities on Federally listed endangered and threatened species (''listed species'') and designated critical habitat (''critical habitat'') by following the process listed below. EPA strongly recommends that you follow these steps at the earliest possible stage to ensure that measures to protect listed species and critical habitat are incorporated early in your planning process.

You also have an independent ESA obligation to ensure that your activities do not result in any prohibited ''takes'' of listed species.[1] Many of the measures required in the MSGP and in these instructions to protect species may also assist you in ensuring that your activities do not result in a prohibited take of species in violation of section 9 of the ESA. If you have or plan activities in areas that harbor endangered and threatened species, you may wish to ensure that you are protected from potential takings liability under ESA section 9 by obtaining an ESA section 10 permit or, if there is a separate federal action regarding the facility, by requesting formal consultation under ESA section 7 regarding that action. If you are not sure whether to pursue a section 10 permit or a section 7 consultation for takings protection, you should confer with the appropriate Fish and Wildlife Service (FWS) and/or National Marine Fisheries Service (NMFS) (collectively the ''Services'') office.

B. How Does The Basic Eligibility Assessment Process Work?

In order to determine if you are eligible to use the permit, you need to go through a series of steps to determine:

1. Are there any listed endangered or threatened species or critical habitat in proximity to your facility or the point where your discharges reach a receiving water?

2. If there are listed species in proximity, are your discharges or discharge-related activities going to adversely affect them?

3. If adverse effects on listed species or critical habitat are likely, what can you do to eliminate or reduce these effects?

4. Have any adverse effects already been addressed under the Endangered Species Act?

5. Which, if any, of the eligibility criteria make you eligible for permit coverage?

C. What Are the Eligibility Criteria?

The Part 1.2.3.6 eligibility requirement may be satisfied by documenting that one or more of the following criteria has been met:

Criteria A. No Listed Species or Critical Habitat Are in Proximity to Your Facility or the Point Where Authorized Discharges Reach a Water of the United States (See Part 1.2.3.6.3.1)

Using the latest County Species List available from EPA and any other relevant information sources, you have determined that no listed species or critical habitat are in proximity to your facility. Listed species and critical habitat are in proximity to a facility when they are:

- Located in the path or immediate area through which or over which contaminated point source storm water flows from industrial activities to the point of discharge into the receiving water. This may also include areas where storm water from your facility enters groundwater that has a direct hydrological connection to a receiving water (*e.g.,* groundwater infiltrates at your facility and re-emerges to enter a surface waterbody within a short period of time.)
- Located in the immediate vicinity of, or nearby, the point of discharge into receiving waters.
- Located in the area of a facility where storm water BMPs are planned or are to be constructed.

Please be aware that no protection from incidental takings liability is provided under this criteria.

Criteria B. An ESA Section 7 Consultation Has Been Performed for a Separate Federal Action Regarding Your Facility (See Part 1.2.3.6.3.2)

A formal or informal ESA § 7 consultation on a separate federal action (*e.g.,* New Source review under NEPA, application for a dredge

[1] Section 9 of the ESA prohibits any person from ''taking'' a listed species (*e.g.,* harassing or harming it) unless: (1) the taking is authorized through a ''incidental take statement'' as part of undergoing ESA section 7 formal consultation; (2) where an incidental take permit is obtained under ESA section 10 (which requires the development of a habitat conservation plan); or (3) where otherwise authorized or exempted under the ESA. This prohibition applies to all entities including private individuals, businesses, and governments.

and fill permit under CWA § 404, application for an individual NPDES permit, etc.) addressed the effects of your discharges and discharge-related activities on listed species and critical habitat. If your facility was the subject of a formal consultation, it must have resulted in either a ''no jeopardy opinion'' or a ''jeopardy opinion'' and you agree to implement any reasonable and prudent alternatives or other conditions upon which the consultation was based. If your facility was the subject of an informal consultation, it must have resulted in a written concurrence by the Service(s) on a finding that the applicant's activities are not likely to adversely affect listed species or critical habitat (for informal consultation, see 50 CFR 402.13).

Criteria C. An Incidental Taking Permit Under Section 10 of the ESA was Issued for Your Facility (See Part 1.2.3.6.3.3)

You have a permit under section 10 of the ESA and that authorization addresses the effects of your wastewater and storm water discharges and discharge-related activities on listed species and critical habitat. Note: You must follow FWS/NMFS procedures when applying for an ESA section 10 permit (see 50 CFR 17.22(b)(1)).

Criteria D. You Have Determined Adverse Effects Are Not Likely (See Part 1.2.3.6.3.4)

Using best judgment, you have investigated potential effects your discharges and discharges-related activities may have on listed species and critical habitat and have no reason to believe there would be adverse effects. Any terms and/or conditions to protect listed species and critical habitat you relied on in order to determine adverse effects would be unlikely must be incorporated into your Storm Water Pollution Prevention Plan (required by the permit) and implemented in order to maintain permit eligibility.

Please be aware that no protection from incidental takings liability is provided under this criteria.

Criteria E. Your Facility Was Covered Under the Eligibility Certification of Another Operator for the Facility Area (See Part 1.2.3.6.3.5)

Your storm water discharges, allowable non-storm water discharges, and discharge-related activities were already addressed in another operator's certification of eligibility under Part 1.2.3.6.3 which covered your facility. By certifying eligibility under Part 1.2.3.6.3.4, you agree to comply with any measures or controls upon which the other operator's certification under Part 1.2.3.6.3 was based.

Please be aware that in order to meet the permit eligibility requirements by relying on another operator's certification of eligibility, the other operator's certification must apply to the location of your facility and must address the effects from your storm water discharges, allowable non-storm water discharges, and discharge-related activities on listed species and critical habitat. This situation will typically occur where an ownership of a facility covered by this permit changes or when there are multiple operators within an industrial park or an airport. However, before you rely on another operator's certification, you should carefully review that certification along with any supporting information. You also need to confirm that no additional species have been listed or critical habitat designated in the area of your facility since the other operator's endangered species assessment was done. If you do not believe that the other operator's certification provides adequate coverage for your facility, you should provide your own independent endangered species assessment and certification.

Please be aware that no protection from incidental takings liability is provided under this criteria.

D. What Procedures Do I Use To Determine if the Eligibility Criteria Can Be Satisfied?

Caution: Additional endangered and threatened species have been listed and critical habit designated since the 1995 MSGP was issued and will continue to be added after the effective date of this permit. You must verify any earlier determination of eligibility is still valid before relying on that assessment to certify eligibility for this permit. Where applicable, you may incorporate information from your previous endangered species analysis in your documentation of eligibility for this permit.

To determine eligibility, you must assess (or have previously assessed) the potential effects of your storm water discharges, allowable non-storm water discharges and discharge-related activities on listed species and critical habitat. PRIOR to completing and submitting a Notice of Intent (NOI) form, you must follow the steps outlined below and document the results of your eligibility determination.

Step One: Are There Any Endangered Species or Critical Habitat in Your County (or Other Area) and, if so, Are They in Proximity to Your Facility or Discharge Locations?

1–A. *Check for Listed Species* Look in the latest county species list to see if any listed species are found where your facility and discharge point(s) are located. If you are located close to the border of a county or your facility is located in one county and your discharge points are located in another, you must look under both counties. Since species are listed and de-listed periodically, you will need the most current list at the time you are doing your endangered species assessment. EPA's most current county-species list is on the Internet at *http://www.epa.gov/owm/esalst2.htm.*

=>Proceed to 1–B.

1–B. *Check for Critical Habitat* Some (but not all) listed species have designated critical habitat. Exact locations of such habitat is provided in the endangered species regulations at 50 CFR part 17 and part 226. To determine if facility or discharge locations are within designated critical habitat, you should either:

- Review those regulations (which can be found in many larger libraries); or
- Contact the nearest Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS) Office. A list of FWS and NMFS offices is found at section II of this Addendum.; or
- Contact the State Natural Heritage centers. These centers compile and disseminate information on Federally listed and other protected species. They frequently have the most current information on listed species and critical habitat. A list of these centers is provided in section III of the Addendum.

=>Proceed to 1–C.

1–C. *Check for Proximity* If there are listed species in your county, are they in proximity to your facility or discharge locations? You will need to use the proximity criteria in Eligibility Criteria A to determine if the listed species are in your part of the county. The area in proximity to be searched/surveyed for listed species will vary with the size of the facility, the nature and quantity of the storm water discharges, and the type of receiving waters. Given the number of facilities potentially covered by the MSGP, no specific method to determine whether species are in proximity is required for permit coverage under the MSGP. Instead, you should use the method or methods which best allow you to determine to the best of your knowledge whether species are in proximity to your particular facility. These methods may include:

- Conducting visual inspections. This method may be particularly suitable for facilities that are smaller in size, facilities located in non-natural settings such as highly urbanized areas or industrial parks where there is little or no nature habitat; and facilities that discharge directly into municipal storm water collection systems. For other facilities, a visual survey of the facility site and storm water drainage areas may be insufficient to determine whether species are likely to be located in proximity to the discharge.
- Contacting the nearest State Wildlife Agency or U.S. Fish and Wildlife Service (FWS) or National Marine Fisheries Service (NMFS) offices. Many endangered and threatened species are found in well-defined areas or habitats. That information is frequently known to state or federal wildlife agencies. FWS has offices in every state. NMFS has regional offices in: Gloucester, Massachusetts; St. Petersburg, Florida; Long Beach, California; Portland, Oregon; and Juneau, Alaska.
- Contacting local/regional conservation groups. These groups inventory species and their locations and maintain lists of sightings and habitats.
- Conducting a formal biological survey. Larger facilities with extensive storm water discharges may choose to conduct biological surveys as the most effective way to assess whether species are located in proximity and whether there are likely adverse effects.

If neither your facility nor discharge locations are located in designated critical habitat, then you need not consider impacts to critical habitat when following Steps Two through Five below. If your facility or discharge locations are located within critical habitat, then you must look at impacts to critical habitat when following Steps Two through Five. EPA notes that many measures imposed to protect listed species under these steps will also protect critical habitat. However, obligations to protect habitat under this permit are separate from those to protect listed species. Thus, meeting the eligibility requirements of this permit may require measures to protect critical habitat that are separate from those to protect listed species.

=> Proceed to 1–D

1–D. *Check for Criteria ''A'' Eligibility* IF NO SPECIES WERE LISTED FOR YOUR COUNTY OR THE SPECIES THAT WERE LISTED WERE NOT IN PROXIMITY TO YOUR DISCHARGE *AND* YOUR FACILITY AND DISCHARGE LOCATIONS WERE NOT IN PROXIMITY TO CRITICAL HABITAT, YOU ARE ELIGIBLE UNDER CRITERIA ''A''. Document your endangered species assessment and certify eligibility under Part 1.2.3.6.3.1 of the permit. Congratulations, go to Step Five!

=> If there were listed species or critical habitat, proceed to Step Two

Step Two: Can You Meet Eligibility Criteria ''B'', ''C'', or ''E''?

2–A *Check for Criteria ''B'', ''C'', or ''E'' Basis* Do one of the following apply:

- There was a completed consultation under ESA § 7 for your facility (Criteria B) => proceed to 2–B
- There is a previously issued ESA § 10 permit for your facility (Criteria C) => proceed to 2–C
- Another operator previously certified eligibility for the area where your facility is located (Criteria E) => proceed to 2–D

=> If no, proceed to Step Three

2–B *Check for Criteria ''B'' Eligibility* Did the previously completed ESA § 7 consultation consider all currently listed species and critical habitat and address your storm water, allowable non-storm water, and discharge related activities?

=> If no, proceed to Step Three

2-B–1 Did the ESA § 7 consultation result in either a ''no jeopardy'' opinion by the Service (for formal consultations) or a concurrence by the service that your activities would be ''unlikely to adversely affect'' listed species or critical habitat?

=> If no, proceed to Step Three

2–B–2 IF YOU AGREE TO IMPLEMENT ANY MEASURES UPON WHICH THE CONSULTATION WAS CONDITIONED, YOU ARE ELIGIBLE UNDER CRITERIA ''B''. Incorporate any necessary measures into your Storm Water Pollution Prevention Plan, document your endangered species assessment, and certify eligibility under Part 1.2.3.6.3.2. Congratulations, go to Step Five!

=> If you do not agree to implement conditions upon which the consultation was based, proceed to Step Three

2–C *Check for Criteria ''C'' Eligibility* IF YOUR ESA § 10 PERMIT CONSIDERED ALL CURRENTLY LISTED SPECIES AND CRITICAL HABITAT AND ADDRESSES YOUR STORM WATER, ALLOWABLE NON-STORM WATER, AND DISCHARGE RELATED ACTIVITIES, YOU ARE ELIGIBLE UNDER CRITERIA ''C''. Incorporate any necessary measures into your Storm Water Pollution Prevention Plan, document your endangered species assessment, and certify eligibility under Part 1.2.3.6.3.3 of the permit. Congratulations, go to Step Five!

=> If your ESA § 10 permit did not meet these criteria, proceed to Step Three

2–D Check for Criteria ''E'' Eligibility Did the other operator's certification of eligibility consider all currently listed species and critical habitat and address your storm water, allowable non-storm water, and discharge related activities?

=> If no, proceed to Step Three

2–D–1 IF YOU AGREE TO IMPLEMENT ANY MEASURES UPON WHICH THE OTHER OPERATOR'S CERTIFICATION WAS BASED, YOU ARE ELIGIBLE UNDER CRITERIA ''E''. Incorporate any necessary measures into your Storm Water Pollution Prevention Plan, document your endangered species assessment, and certify eligibility under Part 1.2.3.6.3.5 of the Permit. Congratulations, go to Step Five!

=> If you do not agree to implement conditions upon which another operator's certification was based, proceed to Step Three

Step Three: Are Listed Species or Critical Habitat Likely To Be Adversely Affected by Your Facility's Storm Water Discharges, Allowable Non-storm Water Discharges, or Discharge-related Activities?

If you are unable to certify eligibility under Criteria A, B, C, or E, you must assess whether your storm water discharges, allowable non-storm water discharges, and discharge-related activities are likely to pose jeopardy to listed species or critical habitat. ''Storm water discharge-related activities'' include:

Activities which cause, contribute to, or result in point source storm water pollutant discharges; and

Measures to control storm water discharges and allowable non-storm water discharges including the siting, construction, operation of best management practices (BMPs) to control, reduce or prevent water pollution.

Effects from storm water discharges, allowable non-storm water discharges, and discharge-related activities which could pose jeopardy include:

Hydrological. Wastewater or storm water discharges may cause siltation, sedimentation or induce other changes in receiving waters such as temperature, salinity or pH. These effects will vary with the amount of wastewater or storm water discharged and the volume and condition of the receiving water. Where a discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.

Habitat. Excavation, site development, grading, and other surface disturbance activities, including the installation or placement of wastewater or storm water ponds or BMPs, may adversely affect listed species or their habitat. Wastewater or storm water associated with facility operation may drain or inundate listed species habitat.

Toxicity. In some cases, pollutants in wastewater or storm water may have toxic effects on listed species.

The scope of effects to consider will vary with each facility. If you are having difficulty in determining whether your facility is likely to pose jeopardy to a listed specie or critical habitat, then the appropriate office of the FWS, NMFS, or Natural Heritage Center listed in Sections II and III of this Addendum should be contacted for assistance.

Document the results of your assessment and make a preliminary determination on whether or not there would likely be any jeopardy to listed species or critical habitat. You will need to determine that your activities are either ''unlikely to adversely affect'' or ''may adversely affect''. Your determination may be based on measures that you implement to avoid, eliminate, or minimize adverse affects.

=> Proceed to Step Four

Step Four: Can You Meet Eligibility Criteria ''D''?

Using best judgment, can you determine your facility's storm water discharges, allowable non-storm water discharges, and discharge-related activities are unlikely to pose jeopardy to listed species or critical habitat?

4–A IF STEP THREE DETERMINATION IS ''UNLIKELY TO ADVERSELY AFFECT'', YOU ARE ELIGIBLE UNDER CRITERIA ''D''. Incorporate appropriate measures upon which your eligibility was based into your Storm Water Pollution Prevention Plan and certify eligibility under Part 1.2.3.6.3.4 of the permit. Congratulations, go to Step Five.

=> If there may be adverse effects, proceed to Step 4–B

4–B *Step Three (or Step 4–A–1) Determination is ''May Adversely Affect''* You must contact the Service(s) to discuss your findings and measures you could implement to avoid, eliminate, or minimize adverse affects.

4–B–1 IF YOU AND THE SERVICE(S) REACH AGREEMENT ON MEASURES TO AVOID ADVERSE EFFECTS, YOU ARE ELIGIBLE UNDER CRITERIA ''D''. Incorporate appropriate measures upon which your eligibility was based into your Storm Water Pollution Prevention Plan and certify eligibility under Part 1.2.3.6.3.4 of the permit. Congratulations, go to Step Five.

4–C *Endangered Species Issues Cannot be Resolved* If you cannot reach agreement with the Service(s) on measures to avoid, eliminate, or reduce adverse effects to an acceptable level; and if any likely adverse effects cannot otherwise be addressed through meeting the other criteria of Part 1.2.3.6; then you are not eligible for coverage under the MSGP at this time and must seek coverage under an individual permit. Proceed to 40 CFR 122.26(c) for individual permit application requirements.

Step Five: Submit Notice of Intent and Document Results of the Eligibility Determination

Once all other Part 1.2 eligibility requirements have been met, you may submit the Notice of Intent (NOI). Signature and submittal of the NOI is also deemed to constitute your certification, under penalty of law, of your eligibility for permit coverage.

You must include documentation of Part 1.2.3.6 eligibility in the pollution prevention plan required for the facility. Documentation required for the various eligibility criteria are as follows:

Criteria A—A copy of the County-Species List pages with the county(ies) where your facility and discharges are located and a statement on how you determined that no listed species or critical habitat was in proximity to your discharge.
Criteria B—A copy of the Service(s)'s Biological Opinion or concurrence on a finding of ''unlikely to adversely effect'' regarding the ESA § 7 consultation.
Criteria C—A copy of the Service(s)'s letter transmitting the ESA § 10 authorization.
Criteria D—Documentation on how you determined adverse effects on listed species and critical habitat were unlikely.
Criteria E—A copy of the documents originally used by the other operator of your facility (or area including your facility) to satisfy the documentation requirement of Criteria A, B, C or D.

E. Duty To Implement Terms and Conditions Upon Which Eligibility Was Determined

You must comply with any terms and conditions imposed under the eligibility requirements of Part 1.2.3.6.3 to ensure that your storm water discharges, allowable non-storm water discharges, and discharge-related activities do not pose jeopardy to listed species and/or critical habitat. You must incorporate such terms and conditions in your facility's Storm Water Pollution Prevention Plan as required by the permit. If the eligibility requirements of Part 1.2.3.6 cannot be met, then you may not receive coverage under this permit. You should then consider applying to the permitting authority for an individual permit.

II. U.S. Fish and Wildlife Service Offices

National Website For Endangered Species Information. Endangered Species Home page: http://www.fws.gov/r9endspp/endspp.html

Regional, State, Field and Project Offices

USFWS, Region One—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD Ecological Services, 911 NE 11 Avenue, Portland, OR 97232–4181, (503) 231–6121

State, Field, and Project Offices (Region One)

Field Supervisor, U.S. Fish and Wildlife Service, P.O. Box 50088, 300 Ala Moana Blvd., Rm 3108, Honolulu, HI 96850
Field Supervisor, U.S. Fish and Wildlife Service, Upper Columbia R. Basin F&W Office, 11103 East Montgomery Drive, Ste 2, Spokane, WA 99306
State Supervisor, U.S. Fish and Wildlife Service, Oregon Fish and Wildlife Office, 2600 S.E 98th Avenue Suite 100, Portland, OR 97266
Field Supervisor, U.S. Fish and Wildlife Service, Snake River Basin F&W Office, 1387 South Vinnell Way, Room 368, Boise, Idaho 83709
State Supervisor, U.S. Fish and Wildlife Service, Nevada State Office, 4600 Kietzke Lane, Building C, Rm. 125, Reno, NV 89502–5093
State Supervisor, U.S. Fish and Wildlife Service, Western Washington F&W Office, 510 Desmond Dr., Suite 102, Lacey, WA 98503–1273
Field Supervisor, U.S. Fish and Wildlife Service, Klamath Falls F&W Office, 6600 Washburn Way, Klamath Falls, OR 97603
Field Supervisor, U.S. Fish and Wildlife Service, Klamath River F&W Office, 1215 South Main, Suite 212, Yreka, CA 96097–1006
Field Supervisor, U.S. Fish and Wildlife Service, Carlsbad Fish and Wildlife Office, 2730 Loker Avenue West, Carlsbad, CA 92008
Field Supervisor, U.S. Fish and Wildlife Service, Ventura Field Office, 2493 Portola Road, Suite B, Ventura, CA 93003
Project Leader, U.S. Fish and Wildlife Service, Coastal California Fish and Wildlife Office, 1125 16th St., Rm. 209, Arcata, CA 95521–5582
Project Leader, U.S. Fish and Wildlife Service, Northern Central Valley F&W Office, 10959 Tyler Road, Red Bluff, CA 96080
State Supervisor, U.S. Fish and Wildlife Service, California State Office, 3310 El Camino Avenue, Suite 120, Sacramento, CA 95821–6340
Field Supervisor, U.S. Fish and Wildlife Service, Sacramento Fish & Wildlife Office, 3310 El Camino Avenue, Suite 120, Sacramento, CA 95821–6340

USFWS Region Two—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD Ecological Services, P.O. Box 1306, Albuquerque, NM 87103

State, Field, and Project Offices (Region Two)

Field Supervisor, U.S. Fish and Wildlife Service, Corpus Christi Field Office, 6300 Ocean Dr., Campus Box 338, Corpus Christi, TX 78412
Field Supervisor, U.S. Fish and Wildlife Service, Arlington Field Office, 711 Stadium Dr., East, Suite 252, Arlington, TX 76011
Field Supervisor, U.S. Fish and Wildlife Service, Clear Lake Field Office, 17629 El Camino Real, Suite 211, Houston, TX 77058
Field Supervisor, U.S. Fish and Wildlife Service, Oklahoma Field Office, 222 S. Houston, Suite a, Tulsa, OK 74127
Field Supervisor, U.S. Fish and Wildlife Service, New Mexico Field Office, 2105 Osuna, NE, Albuquerque, NM 87113
Field Supervisor, U.S. Fish and Wildlife Service, Austin Ecological Serv. Field Office, 10711 Burnet Road, Suite 200, Austin, TX 78758
Field Supervisor, U.S. Fish and Wildlife Service, Arizona State Office, 2321 W. Royal Palm Road, Suite 103, Phoenix, AZ 85021–4951

USFWS Region Three—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD Ecological Services, BHW Federal Bldg, 1 Federal Drive, Fort Snelling, MN 55111–4056

State, Field, and Project Offices (Region Three)

Field Supervisor, U.S. Fish and Wildlife Service, Chicago, Illinois Field Office, 1000 Hart Rd., Suite 180, Barrington, IL 60010
Field Supervisor, U.S. Fish and Wildlife Service, East Lansing Field Office, 2651 Coolidge Road, East Lansing, MI 48823
Field Supervisor, U.S. Fish and Wildlife Service, Reynoldsburg Field Office, 6950 Americana Parkway, Suite H, Reynoldsburg, OH 43068–4132
Field Supervisor, U.S. Fish and Wildlife Service, Bloomington Field Office, 620 South Walker Street, Bloomington, IN 47403–2121
Field Supervisor, U.S. Fish and Wildlife Service, Twin Cities E.S. Field Office, 4101 East 80th Street, Bloomington, MN 55425–1665
Field Supervisor, U.S. Fish and Wildlife Service, Columbia Field Office, 608 East Cherry Street, Room 200, Columbia, MO 65201–7712
Field Supervisor, U.S. Fish and Wildlife Service, Green Bay Field Office, 1015 Challenger Court, Green Bay, WI 54311–8331
Field Supervisor, U.S. Fish and Wildlife Service, Rock Island Field Office, 4469 48th Avenue Court, Rock Island, IL 61201
Field Supervisor, U.S. Fish and Wildlife Service, Marion Suboffice, Route 3, Box 328, Marion, IL 62959–4565

USFWS Region Four—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD—Ecological Services, 1875 Century Blvd., Suite 200, Atlanta, GA 30345

State, Field, and Project Offices (Region Four)

Field Supervisor, U.S. Fish and Wildlife Service, Panama City Field Office, 1612 June Avenue, Panama City, FL 32405–3721
Field Supervisor, U.S. Fish and Wildlife Service, South Florida Ecosystem Field Office, 1360 U.S. Hwy 1, #5; P.O. Box 2676, Vero Beach, FL 32961–2676
Field Supervisor, U.S. Fish and Wildlife Service, Caribbean Field Office, P.O. Box 491, Boqueron, PR 00622
Field Supervisor, U.S. Fish and Wildlife Service, Puerto Rican Parrot Field Office, P.O. Box 1600, Rio Grande, PR 00745
Field Supervisor, U.S. Fish and Wildlife Service, Brunswick Field Office, 4270 Norwich Street, Brunswick, GA 31520–2523
Field Supervisor, U.S. Fish and Wildlife Service, Jacksonville Field Office, 6620 Southpoint Drive S., Suite 310, Jacksonville, FL 32216–0912
Field Supervisor, U.S. Fish and Wildlife Service, Charleston Field Office, 217 Ft. Johnson Road, P.O. Box 12559, Charleston, SC 29422–2559
Field Supervisor, U.S. Fish and Wildlife Service, Clemson F.O., Dept. of Forest Resources, 261 Lehotsky Hall, Box 341003, Clemson, SC 29634–1003
Field Supervisor, U.S. Fish and Wildlife Service, Raleigh Field Office, P.O. Box 33726, Raleigh, NC 27636–3726
Field Supervisor, U.S. Fish and Wildlife Service, Cookeville Field Office, 446 Neal Street, Cookeville, TN 38501

Field Supervisor, U.S. Fish and Wildlife Service, Asheville Field Office, 160 Zillicoa Street, Asheville, NC 28801
Field Supervisor, U.S. Fish and Wildlife Service, Daphne Field Office, P.O. Drawer 1190, Daphne, AL 36526
Field Supervisor, U.S. Fish and Wildlife Service, Vicksburg Field Office, 2524 S. Frontage Road, Suite B, Vicksburg, MS 39180–5269
Field Supervisor, U.S. Fish and Wildlife Svc., Lafayette Field Office, Brandywine II, Suite 102, 825 Kaliste Saloom Road, Lafayette, LA 70508
Field Supervisor, U.S. Fish and Wildlife Service, Jackson Field Office, 6578 Dogwood View Pkwy Suite A, Jackson, MS 39213

Region Five—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD Ecological Services, 300 Westgate Center Drive, Hadley, MA 01035–9589

State, Field and Project Offices (Region Five)

Project Leader, U.S. Fish and Wildlife Service, Delaware Bay Estuary Project, 2610 Whitehall Neck Road, Smyrna, DE 19977
Project Leader, U.S. Fish and Wildlife Service, Southern New England/NYBCE Program, Shoreline Plaza, Route 1A, P.O. Box 307, Charlestown, RI 02813
Project Leader, U.S. Fish and Wildlife Service, Gulf of Maine Project, 4 R Fundy Road, Falmouth, ME 04105
Project Leader U.S. Fish and Wildlife Service, Chesapeake Bay Field, Office, 177 Admiral Cochrane Drive, Annapolis, Maryland 21401
Project Leader, U.S. Fish and Wildlife Service, Virginia Field Office, P.O. Box 99, 6669 Short Lane, Gloucester, VA 23061
Project Leader, U.S. Fish and Wildlife Service, Southwestern Virginia Field Office, P.O. Box 2345, Abingdon, VA 24212
Project Leader, U.S. Fish and Wildlife Service, New England Field Office, 22 Bridge St., Unit #1, Concord, New Hampshire 03301–4986
Project Leader, U.S. Fish and Wildlife Service, Maine Field Office, 1033 South Main St., Old Town, Maine 04468
Project Leader, U.S. Fish and Wildlife Service, Rhode Island Field Office, Shoreline Plaza, Route 1A; P.O. Box 307, Charlestown, Rhode Island 02813
Project Leader, U.S. Fish and Wildlife Service, Vermont Field Office, 11 Lincoln Street, Winston Prouty Federal Building, Essex Junction, VT 05452
Project Leader, U.S. Fish and Wildlife Service, New Jersey Field Office, 927 North Main St., Bldg. D1, Pleasantville, New Jersey 08232
Project Leader, U.S. Fish and Wildlife Service, New York Field Office, 3817 Luker Road, Cortland, New York 13045
Project Leader, U.S. Fish and Wildlife Service, Long Island Field Office, P.O. Box 608, Islip, New York 11751–0608
Project Leader, U.S. Fish and Wildlife Service, Pennsylvania Field Office, 315 S. Allen St., Suite 322, State College, Pennsylvania 16801
Project Leader, U.S. Fish and Wildlife Service, Eastern Pennsylvania Field Office, 11 Hap Arnold Boulevard, Box H, Tobyhanna, Pennsylvania 18466–0080
Project Leader, U.S. Fish and Wildlife Service, West Virginia Field Office, Route 250, S.—Elkins Shopping Plaza, Elkins, West Virginia 26241

Region Six—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD-Ecological Services, P.O. Box 25486, DFC, Denver, CO 80225

State, Field, and Project Offices (Region Six)

Field Supervisor, U.S. Fish and Wildlife Service, Montana Field Office, 100 N. Park, Suite 320, Helena, MT 59601
Sub-Office Supervisor, U.S. Fish and Wildlife Service, Billings Sub-Office, 2900 4th Ave. North-Rm 301, Billings, MT 59101
Sub-Office Supervisor, U.S. Fish and Wildlife Service, Kalispell Sub-Office, 780 Creston Hatchery Road, Kalispell, MT 59901
Grizzly Bear Recovery Coordinator, U.S. Fish and Wildlife Service, Forestry Sciences Lab, University of Montana, Missoula, MT 59812
Field Supervisor, U.S. Fish and Wildlife Service, North Dakota Field Office, 1500 Capitol Avenue, Bismarck, ND 58501
Field Supervisor, U.S. Fish and Wildlife Service, Nebraska Field Office, 203 W. 2nd Street; Federal Bldg., 2nd Floor, Grand Island, NE 68801
Field Supervisor, U.S. Fish and Wildlife Service, Kansas Field Office, 315 Houston, Suite E, Manhattan, KS 66502
Field Supervisor, U.S. Fish and Wildlife Service, South Dakota Field Office, 420 S. Garfield Ave., Suite 400, Pierre, SD 57501–5408
Field Supervisor, U.S. Fish and Wildlife Service, Salt Lake City Field Office, Lincoln Plaza, 145 East 1300 South—Suite 404, Salt Lake City, UT 84115
Field Supervisor, U.S. Fish and Wildlife Service, Colorado Field Office, 730 Simms, Suite 290, Golden, CO 80401–4798
Field Supervisor, U.S. Fish and Wildlife Service, Western Colorado Field Office, 764 Horizon Drive South, Annex A, Grand Junction, CO 81506–3946
Field Supervisor, U.S. Fish and Wildlife Service, Wyoming Field Office, 4000 Morrie Avenue, Cheyenne, WY 82001
E.S. Coordinator, U.S. Fish and Wildlife Service, Rocky Mountain Arsenal, National Wildlife Area, Building 111, Commerce City, CO 80022–1748
Colorado River Recovery Coordinator, U.S. Fish and Wildlife Service, P.O. Box 25486, DFC, Denver, CO 80225
U.S. Fish and Wildlife Service, Laramie Black Footed Ferret Office, 410 Grand Ave., Suite 315, Laramie, WY 80270

Region Seven—Regional Office

Division Chief, Endangered Species, U.S. Fish and Wildlife Service, ARD Ecological Services, 1011 E. Tudor Road, Anchorage, AK 99503

State, Field, and Project Offices (Region Seven)

Field Supervisor, U.S. Fish and Wildlife Service, Ecological Services, 605 West 4th Avenue, Room G–62, Anchorage, AK 99501
Field Supervisor, U.S. Fish and Wildlife Service, Ecological Services, 101 12th Avenue, Box 19 (Room 232), Fairbanks, AK 99701
Field Supervisor, U.S. Fish and Wildlife Service, Ketchikan Sub-office, 103 Main Street, P.O. Box 3193, Ketchikan, AK 99901
Field Supervisor, U.S. Fish and Wildlife Service, Ecological Services, 300 Vintage Blvd., Suite 201, Juneau, AK 99801
Region Eight—Has not yet been created out of the other FWS Regions at the time of this posting.

Region Nine

Janet Ady—Outreach, U.S. Fish and Wildlife Service, National Conservation Training Center, Route 3, Box 49, Kearneysville, WV 25430
Dan Benfield—Training, U.S. Fish and Wildlife Service, National Conservation Training Center, Route 3, Box 49, Kearneysville, WV 25430

III. National Marine Fisheries Service Offices

The National Marine Fisheries Service is developing a database to provide county and territorial water (up to three miles offshore) information on the presence of endangered and threatened species and critical habitat. The database should be found at the ''Office of Protected Resources'' site on the NMFS Homepage at http://www.nmfs.gov.

Regional and Field Offices—Northeast Region

Protected Resources Program, National Marine Fisheries Service, Northeast Region, One Blackburn Drive, Gloucester, Massachusetts 01930
Milford Field Office, National Marine Fisheries Service, 212 Rogers Avenue, Milford, Connecticut 06460
Oxford Field Office, National Marine Fisheries Service, 904 So. Morris Street, Oxford, Maryland 21654
Sandy Hook Field Office, James J. Howard Marine Sciences Laboratory, National Marine Fisheries Service, 74 Magruder Road, Highlands, New Jersey 07732
Protected Species Branch, National Marine Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, Massachusetts 02543

Southeast Region

Protective Species Management Branch, National Marine Fisheries Service, Southeast Region, 9721 Executive Center Drive, St. Petersburg, Florida 33702–2432

Northwest Region

Protected Species Division, National Marine Fisheries Service, Northwest Region, 525 NE Oregon, Suite 500, Portland, Oregon 97232–2737
Boise Field Office, National Marine Fisheries Service, 1387 S. Vinnel Way, Suite 377, Boise, Idaho 83709
Olympia Field Office, National Marine Fisheries Service, 510 Desmond Drive, SE, Suite 103, Lacey, Washington 98503

Roseburg Field Office, National Marine Fisheries Service, 2900 Stewart Parkway NW, Roseburg, Oregon 97470

Rufus Field Office, National Marine Fisheries Service, P.O. Box 67, 704 ''E'' 1st, Rufus, Oregon 97050

Southwest Region

Protected Species Management Division, Southwest Region, National Marine Fisheries Service, 501 West Ocean Blvd., Suite 4200, Long Beach, California 90802–4213

Arcata Field Office, National Marine Fisheries Service, 1125 16th Street, Room 209, Arcata, California 95521

Eureka Field Office, National Marine Fisheries Service, 1330 Bayshore Way, Eureka, California 95501

Pacific Islands Area Field Office, National Marine Fisheries Service, 2570 Dole Street, Room 106, Honolulu, Hawaii 96822–2396

Santa Rosa Field Office, Protected Resources Program, National Marine Fisheries Service, 777 Sonoma Avenue, Room 325, Santa Rosa, California 95404

Alaska Region

Protected Resources Management, Division, Alaska Region, National Marine Fisheries Service, 709 West 9th Street, Federal Building 461, P.O. Box 21767, Juneau, Alaska 99802

Anchorage Office, 222 West 7th Avenue, Box 10, Anchorage, Alaska 99513–7577

IV. Natural Heritage Centers

The Natural Heritage Network comprises 85 biodiversity data centers throughout the Western Hemisphere. These centers collect, organize, and share data relating to endangered and threatened species and habitat. The network was developed to inform land-use decisions for developers, corporations, conservationists, and government agencies and is also consulted for research and educational purposes. The centers maintain a Natural Heritage Network Control Server Website (http://www.heritage.tnc.org) which provides website and other access to a large number of specific biodiversity centers. Some of these centers are listed below:

Alabama Natural Heritage Program, Huntingdon College, Massey Hall, 1500 East Fairview Avenue, Montgomery, AL 36106–2148, (334) 834–4519 Fax: (334) 834–5439, Internet: alnhp@wsnet.com

Alaska Natural Heritage Program, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501, 907/257–2702 Fax: 907/258–9139, Program Director: David Duffy, 257–2707, Internet: afdcd1@orion.alaska.edu

Arizona Heritage Data Management System, Arizona Game & Fish Department, WM–H, 2221 W. Greenway Road, Phoenix, AZ 85023, 602/789–3612 Fax: 602/789–3928, Internet: hdms@gf.state.az.us Internet: hdms1@gf.state.az.us

Arkansas Natural Heritage Commission, Suite 1500, Tower Building, 323 Center Street, Little Rock, AR 72201, 501/324–9150 Fax: 501/324–9618, Director: Harold K. Grimmett, –9614

California Natural Heritage Division, Department of Fish & Game, 1220 S Street, Sacramento, CA 95814, 916/322–2493 Fax: 916/324–0475

Colorado Natural Heritage Program, Colorado State University, 254 General Services Building, Fort Collins, CO 80523, 970/491–1309 Fax: 970/491–3349

Connecticut Natural Diversity Database, Natural Resources Center, Department of Environmental Protection, 79 Elm Street, Store Level, Hartford, CT 06106–5127, 860/424–3540 Fax: 860/424–4058

Delaware Natural Heritage Program, Division of Fish & Wildlife, Department of Natural Resources & Environmental Control, 4876 Hay Point Landing Road Smyrna, DE 19977, 302/653–2880 Fax: 302/653–3431

District of Columbia Natural Heritage Program, 13025 Riley's Lock Road, Poolesville, MD 20837, 301/427–1302 Fax: 301/427–1355

Florida Natural Areas Inventory, 1018 Thomasville Road, Suite 200–C, Tallahassee, FL 32303, 904/224–8207 Fax: 904/681–9364

Florida Natural Areas Inventory, Eglin Air Force Base, P.O. Box 1150, Niceville, FL 32588, 904/883–6451 Fax: 904/682–8381

Georgia Natural Heritage Program, Wildlife Resources Division, Georgia Department of Natural Resources, 2117 U.S. Highway 278 S.E., Social Circle, GA 30279, 706/557–3032 or 770/918–6411, Fax: 706/557–3033 or 706/557–3040 Internet: natural_heritage@mail.dnr.state.ga.us

Hawaii Natural Heritage Program, The Nature Conservancy of Hawaii, 1116 Smith Street, Suite 201, Honolulu, HI 96817, 808/537–4508 Fax: 808/545–2019

Idaho Conservation Data Center, Department of Fish & Game, 600 South Walnut Street, Box 25, Boise, ID 83707–0025, 208/334–3402 Fax: 208/334–2114

Illinois Natural Heritage Division, Department of Natural Resources, Division of Natural Heritage, 524 South Second Street, Springfield, IL 62701–1787, 217/785–8774 Fax: 217/785–8277

Illinois Nature Preserves Commission, Director: Carolyn Grosboll, Deputy Dir/Steward: Randy Heidorn, Deputy Dir/Protect: Don McFall, Office Specialist: Karen Tish, 217/785–8774 Fax: 217/785–8277

Indiana Natural Heritage Data Center, Division of Nature Preserves, Department of Natural Resources, 402 West Washington Street, Room W267, Indianapolis, IN 46204, 317/232–4052 Fax: 317/233–0133

Iowa Natural Areas Inventory, Department of Natural Resources, Wallace State Office Building, Des Moines, IA 50319–0034, Fax: 515/281–6794, Coordinator/Zoologist: Daryl Howell, 515/281–8524

Kansas Natural Heritage Inventory, Kansas Biological Survey, 2041 Constant Avenue, Lawrence, KS 66047–2906, 913/864–3453 Fax: 913/864–5093

Kentucky Natural Heritage Program, Kentucky State Nature Preserves Commission, 801 Schenkel Lane, Frankfort, KY 40601, 502/573–2886 Fax: 502/573–2355

Louisiana Natural Heritage Program, Department of Wildlife & Fisheries, P.O. Box 98000, Baton Rouge, LA 70898–9000, 504/765–2821 Fax: 504/765–2607

Maine Natural Areas Program, Department of Conservation (FedEx/UPS: 159 Hospital Street), 93 State House Station, Augusta, ME 04333–0093, 207/287–8044 Fax: 207/287–8040, Internet: mnap@state.me.us Web site: http://www.state.me.us/doc/mnap/home.htm

Maryland Heritage & Biodiversity Conservation Programs, Department of Natural Resources, Tawes State Office Building, E–1, Annapolis, MD 21401, 410/260–8540 Fax: 410/260–8595, Web site: http://www.heritage.tnc.org/nhp/us/md/

Massachusetts Natural Heritage & Endangered Species Program, Division of Fisheries & Wildlife, Route 135, Westborough, MA 01581 508/792–7270 ext. 200 Fax: 508/792–7275

Michigan Natural Features Inventory, Mason Building, 5th floor (FedEx/UPS: 530 W Allegan, 48933), Box 30444, Lansing, MI 48909–7944, 517/373–1552 Fax: 517/373–6705, Director: Leni Wilsmann, 373–7565, Internet: wilsmanl@wildlife.dnr.state.mi.us

Minnesota Natural Heritage & Nongame Research, Department of Natural Resources, 500 Lafayette Road, Box 7, St. Paul, MN 55155, 612/297–4964 Fax: 612/297–4961

Mississippi Natural Heritage Program, Museum of Natural Science, 111 North Jefferson Street, Jackson, MS 39201–2897, 601/354–7303 Fax: 601/354–7227

Missouri Natural Heritage Database, Missouri Department of Conservation, P.O. Box 180 (FedEx: 2901 West Truman Blvd), Jefferson City, MO 65102–0180, 573/751–4115 Fax: 573/526–5582

Montana Natural Heritage Program, State Library Building, 1515 E. 6th Avenue, Helena, MT 59620, 406/444–3009 Fax: 406/444–0581, Internet: mtnhp@nris.msl.mt.gov, Homepage/World Wide Web: http://nris.msl.mt.gov/mtnhp/nhp-dir.html

Navajo Natural Heritage Program, P.O. Box 1480, Window Rock, Navajo Nation, AZ 86515, (520) 871–7603, (520) 871–7069 (FAX)

Nebraska Natural Heritage Program, Game and Parks Commission, 2200 North 33rd Street, P.O. Box 30370, Lincoln, NE 68503, 402/471–5421 Fax: 402/471–5528

Nevada Natural Heritage Program, Department of Conservation & Natural Resources, 1550 E. College Parkway, Suite 145, Carson City, NV 89706–7921, 702/687–4245 Fax: 702/885–0868

New Hampshire Natural Heritage Inventory, Department of Resources & Economic Development, 172 Pembroke Street, P.O. Box 1856, Concord, NH 03302, 603/271–3623 Fax: 603/271–2629

New York Natural Heritage Program, Department of Environmental Conservation, 700 Troy-Schenectady Road, Latham, NY 12110–2400, 518/783–3932 Fax: 518/783–3916, Computer: 518/783–3946

North Carolina Heritage Program, NC Department of Environment, Health & Natural Resources, Division of Parks & Recreation, P.O. Box 27687, Raleigh, NC 27611–7687, 919–733–4181 Fax: 919/715–3085

North Dakota Natural Heritage Inventory, North Dakota Parks & Recreation

Department, 1835 Bismarck Expressway, Bismarck, ND 58504, 701/328–5357 Fax: 701/328–5363

Ohio Natural Heritage Data Base, Division of Natural Areas & Preserves, Department of Natural Resources, 1889 Fountain Square, Building F–1, Columbus, OH 43224, 614/265–6453 Fax: 614/267–3096

Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, 111 East Chesapeake Street, University of Oklahoma, Norman, OK 73019–0575, 405/325–1985 Fax: 405/325–7702, Web site: http://obssun02.uoknor.edu/biosurvey/onhi/home.html

Oregon Natural Heritage Program, Oregon Field Office, 821 SE 14th Avenue, Portland, OR 97214 503/731–3070; 230–1221 Fax: 503/230–9639

Pennsylvania Natural Diversity Inventory (East, West, Central)

* Pennsylvania Natural Diversity Inventory—East, The Nature Conservancy, 34 Airport Drive, Middletown, PA 17057, 717/948–3962 Fax: 717/948–3957
* Pennsylvania Natural Diversity Inventory—West, Western Pennsylvania Conservancy, Natural Areas Program, 316 Fourth Avenue, Pittsburgh, PA 15222, 412/288–2777 Fax: 412/281–1792
* Pennsylvania Natural Diversity Inventory—Central, Bureau of Forestry, P.O. Box 8552, Harrisburg, PA 17105–8552, 717/783–0388 Fax: 717/783–5109

Puerto Rico Natural Heritage Program, Division de Patrimonio Natural, Area de Planificacion Integral, Departamento de Recursos Naturales y Ambientales de Puerto Rico, P.O. Box 5887, Puerta de Tierra, Puerto Rico 00906, Tel: 787–722–1726, Fax: 787–725–9526

Rhode Island Natural Heritage Program, Department of Environmental Management, Division of Planning & Development, 83 Park Street, Providence, RI 02903, 401/277–2776, x4308 Fax: 401/277–2069

South Carolina Heritage Trust, SC Department of Natural Resources, P.O. Box 167, Columbia, SC 29202, 803/734–3893 Fax: 803/734–6310 (Call first)

South Dakota Natural Heritage Data Base, SD Department of Game, Fish & Parks Wildlife Division, 523 E. Capitol Avenue, Pierre, SD 57501–3182, 605/773–4227 Fax: 605/773–6245

Tennessee Division of Natural Heritage, Department of Environment & Conservation, 401 Church Street, Life and Casualty Tower, 8th Floor, Nashville, TN 37243–0447, 615/532–0431 Fax: 615/532–0614

Texas Biological and Conservation Data System, 3000 South IH–35, Suite 100, Austin, TX 78704, 512/912–7011 Fax: 512/912–7058

U.S. Virgin Islands Conservation Data Center, Eastern Caribbean Center, University of the Virgin Islands, No. 2 John Brewers Bay, St. Thomas, VI 00802, (809) 693–1030 [Voice] (809) 693–1025, [Fax], Home Page: cdc.uvi.edu, E-Mail:dbarry@uvi.edu

Utah Natural Heritage Program, Division of Wildlife Resources, 1596 West North Temple, Salt Lake City, UT 84116, 801/538–4761 Fax: 801/538–4709

Vermont Nongame & Natural Heritage Program, Vermont Fish & Wildlife Department, 103 S. Main Street, 10 South, Waterbury, VT 05671–0501, 802/241–3700 Fax: 802/241–3295

Virginia Division of Natural Heritage, Department of Conservation & Recreation, Main Street Station, 1500 E. Main Street, Suite 312, Richmond, VA 23219, 804/786–7951 Fax: 804/371–2674

Washington Natural Heritage Program, Department of Natural Resources, (FedEx: 1111 Washington Street, SE), P.O. Box 47016, Olympia, WA 98504–7016, 360/902–1340 Fax: 360/902–1783

West Virginia Natural Heritage Program, Department of Natural Resources, Operations Center, Ward Road, P.O. Box 67, Elkins, WV 26241, 304/637–0245 Fax: 304/637–0250

Wisconsin Natural Heritage Program, Endangered Resources, Department of Natural Resources, 101 S. Webster Street, Box 7921, Madison, WI 53707, 608/266–7012 Fax: 608/266–2925

Wyoming Natural Diversity Database, 1604 Grand Avenue, Suite 2, Laramie, WY 82070, 307/745–5026 Fax: 307/745–5026 (Call first), Internet: wyndd@lariat.or

Addendum B—Historic Properties Guidance

Applicants must determine whether their facility's storm water discharges, allowable non-storm water discharges, or construction of best management practices (BMPs) to control such discharges, has potential to affect a property that is either listed or eligible for listing on the National Register of Historic Places.

For existing dischargers who do not need to construct BMPs for permit coverage, a simple visual inspection may be sufficient to determine whether historic properties are affected. However, for facilities which are new industrial storm water dischargers and for existing facilities which are planning to construct BMPs for permit eligibility, applicants should conduct further inquiry to determine whether historic properties may be affected by the storm water discharge or BMPs to control the discharge. In such instances, applicants should first determine whether there are any historic properties or places listed on the National Register or if any are eligible for listing on the register (*e.g.,* they are ''eligible for listing'').

Due to the large number of entities seeking coverage under this permit and the limited number of personnel available to State and Tribal Historic Preservation Officers nationwide to respond to inquiries concerning the location of historic properties, EPA suggests that applicants first access the ''National Register of Historic Places'' information listed on the National Park Service's web page (see Part I of this addendum). Addresses for State Historic Preservation Officers and Tribal Historic Preservation Officers are listed in Parts II and III of this addendum, respectively. In instances where a Tribe does not have a Tribal Historic Preservation Officer, applicants should contact the appropriate Tribal government office when responding to this permit eligibility condition. Applicants may also contact city, county or other local historical societies for assistance, especially when determining if a place or property is eligible for listing on the register.

The following three scenarios describe how applicants can meet the permit eligibility criteria for protection of historic properties under this permit:

(1) If historic properties are not identified in the path of a facility's storm water and allowable non-storm water discharges or where construction activities are planned to install BMPs to control such discharges (*e.g.,* diversion channels or retention ponds), then the applicant has met the permit eligibility criteria under Part 1.2.3.7.1.

(2) If historic properties are identified but it is determined that they will not be affected by the discharges or construction of BMPs to control the discharge, the applicant has met the permit eligibility criteria under Part 1.2.3.7.1.

(3) If historic properties are identified in the path of a facility's storm water and allowable non-storm water discharges or where construction activities are planned to install BMPs to control such discharges, and it is determined that there is the potential to adversely affect the property, the applicant can still meet the permit eligibility criteria under Part 1.2.3.7.2 if he/she obtains and complies with a written agreement with the appropriate State or Tribal Historic Preservation Officer which outlines measures the applicant will follow to mitigate or prevent those adverse effects. The contents of such a written agreement must be included in the facility's Storm Water Pollution Prevention Plan. The NOI form is being amended to include which option was selected to demonstrate compliance with NHPA provisions. EPA will notify applicants when the new NOI form takes effect.

In situations where an agreement cannot be reached between an applicant and the State or Tribal Historic Preservation Officer, applicants should contact the Advisory Council on Historic Preservation listed in Part IV of this addendum for assistance.

The term ''adverse effects'' includes but is not limited to damage, deterioration, alteration or destruction of the historic property or place. EPA encourages applicants to contact the appropriate State or Tribal Historic Preservation Officer as soon as possible in the event of a potential adverse effect to a historic property.

Applicants are reminded that they must comply with applicable State, Tribal and local laws concerning the protection of historic properties and places.

I. Internet Information on the National Register of Historic Places

An electronic listing of the ''National Register of Historic Places,'' as maintained by the National Park Service on its National Register Information System (NRIS), can be accessed on the Internet at ''http://www.nr.nps.gov/nrishome.htm''. Remember to use small case letters when accessing Internet addresses.

II. State Historic Preservation Officers (SHPO)

SHPO and Deputy SHPO List:

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Mr. Jay D. Vogt, SHPO, State Historic Preservation Office, Cultural Heritage Center, 900 Governors Drive, Pierre, SD 57501, 605–773–3458 FAX 605–773–6041, E-Mail: *jay.vogt@state.sd.us http://www.state.sd.us/state/executive/deca/cultural/histpres.htm*

Tennessee

Mr. Milton Hamilton, SHPO, Dept of Environment and Conservation, 401 Church Street, L & C Tower 21st Floor, Nashville, TN 37243–0435, 615–532–0109 FAX: 615–532–0120

Deputy: Mr. Herbert L. Harper, Tennessee Historical Commission, 2941 Lebanon Road, Nashville, TN 37243–0442, 615–532–1550 FAX: 615–532–1549, *www.state.tn.us/environment/hist/hist.htm*

Texas

Mr. F. Lawerence Oaks, SHPO, Texas Historical Commission, P.O. Box 12276, Austin, TX 78711–2276, 512–463–6100 FAX: 512–475–4872, E-Mail: *l.oaks@thc.state.tx.us*

Deputy: Mr. James Wright Steely, Dir Nat'l Reg Prog, 512–463–5868 FAX: 512–475–3122, E-Mail: *jim.steely@thc.state.tx.us*

Deputy: Mr. Stanley O. Graves, Dir, Architecture Div, 512–463–6094 FAX: 512–463–6095, E-Mail: *stan.graves@thc.state.tx.us*

Deputy: Dr. James E. Bruseth, Dir Antiquities Prot, 512–463–6096 FAX: 512–463–8927, E-Mail: *jim.bruseth@thc.state.tx.us www.thc.state.tx.us*

Utah

Mr. Max Evans, SHPO, Utah State Historical Society, 300 Rio Grande, Salt Lake City, UT 84101, 801–533–3500 FAX: 801–533–3503

Deputy: Mr. Wilson Martin, E-Mail: *wmartin@history.state.ut.us http://history.utah.org*

Vermont

Ms. Emily Wadhams, SHPO, Vermont Division for Historic Preservation, National Life Building, Drawer 20, Montpelier, VT 05620–0501, 802–828–3211, E-Mail: *ewadhams@dca.state.vt.us*

Deputy: Mr. Eric Gilbertson, Director, 802–828–3043 FAX 802–828–3206, E-Mail: *ergilbertson@ dca.state.vt.uswww.state.vt.us/dca/historic/*

Virgin Islands

Mr. Dean C. Plaskett, Esq., SHPO, Department of Planning & Natural Resources, Cyril E. King Airport, Terminal Building—Second Floor, St. Thomas, VI 00802, 340–774–3320 FAX: 340–775–5706

Deputy: Ms. Claudette C. Lewis, 340–776–8605 FAX: 340–776–7236

Virginia

Mr. H. Alexander Wise, Jr, SHPO, Department of Historic Resources, 2801 Kensington Avenue, Richmond, VA 23221, 804–367–2323 FAX: 804–367–2391, E-Mail: *awise@dhr.state.va.us*

Deputy: Kathleen Kilpatrick

Washington

Dr. Allyson Brooks, SHPO, Ofc of Archeology & Historic Preservation, PO Box 48343, 420 Golf Club Road, SE, Suite 201, Lacey, Olympia, WA 98504–8343, 360–407–0753 FAX: 360–407–6217, *allysonb@acted.wa.gov*

Deputy: Mr. Greg Griffith, 360–407–0753, E-Mail: *gregg@cted.wa.gov*

West Virginia

Ms. Renay Conlin, SHPO, West Virginia Division of Culture & History, Historic Preservation Office, 1900 Kanawha Boulevard East, Charleston, WV 25305–0300, 304–558–0220 FAX: 304–558–2779, E-Mail: *renay.conlin@wvculture.org*

Deputy: Ms. Susan Pierce, E-Mail: *susan.pierce@wvculture.org*

Wisconsin

Mr. George L. Vogt, SHPO, State Historical Society of Wisconsin, 816 State Street, Madison WI 53706, 608–264–6500 FAX: 608–264–6404, E-Mail: *glvogt@mail.shsw.wisc.edu*

Deputy: Ms. Alicia L. Goehring, E-Mail: *algoehring@ mail.shsw.wisc. edu www.shsw.wisc.edu/ahi/index.html*

Wyoming

Ms. Wendy Bredehoft, SHPO, Wyoming State Hist. Pres. Ofc., 2301 Central Avenue, 4th Floor, Cheyenne, WY 82002, 307–777–7013 FAX 307–777–3543, E-Mail: *wbrede@missc.state.wy.us*

Deputy: Judy K. Wolf, 307–777–6311, E-Mail: *jwolf@missc.state.wy.us*

Sheila Bricher-Wade, Reg Ser 307–777–6179, E-Mail: *sbrich@missc.state.wy.us*

Mary M. Hopkins, Cult Records 307–766–5324, *http://commerce.state.wy.us/cr/shpo*

Associate Members:

Navajo Nation

Dr. Alan Downer, HPO, PO Box 4950, Window Rock, AZ 86515, 520–871–6437 FAX: 520–871–7886, E-Mail: *hpd_adowner@dine.navajo.org*

Lac Du Flambeau of Lake Superior Band Chippewa Indians

Ms. Patricia A. Hrabik Sebby, THPO, PO Box 67, Lac Du Flambeau, WI 54538, 715–588–3303

Leech Lake Band of Chippewa Indians

Ms. Rose A. Kluth, THPO, Leech Lake Reservation, RR3, Box 100, Cass Lake, MN 56633, 218–335–8200 FAX: 218–335–8309, E-Mail: *rkluth@aol.com*

Turtle Mountain Band of Chippewa Indians

Mr. Kade M. Ferris, THPO, Turtle Mountain Band of Chippewa Indians, PO Box 900, Belcourt, ND 58316, E-Mail: *kferris@utma.com*

National Governors= Association, National Alliance of Preservation Commissions, National Trust for Historic Preservation, Preservation Action

NCSHPO Officers, Board and Staff

President: Judith Bittner, Alaska, Vice President: H. Alexander Wise, Jr., Secretary: Judith McDonough, Massachusetts, Treasurer: Cathryn Slater, Arkansas

Directors: Brenda Barrett, Pennsylvania, Britta Bloomberg, Minnesota, Theodore Hild, Illinois, Wilson Martin, Utah, Amos Loveday, Ohio, Ken P'Pool, Mississippi, Daniel Abeyta, California, Dorothy Guzzo, New Jersey, Jay Vogt, South Dakota, F. Lawerence Oaks, Texas, Ted Sanderson, Rhode Island, Melvena Heisch, Oklahoma

Executive Director: Nancy Miller *nmncshpo@sso.org*

Office Manager: Anita Zepp *azncshpo@sso.org*

Senior Program Manager: Andra Reinholz *andra.reinholz@nps.gov*

National Park Service—National Center—*http://www.nps.gov/*

Associate Director, Cultural Resources, Kate Stevenson, 202–208–7625

Assistant Director & Manager, Cultural Resources, 202–343–9596

Archeology and Ethnography, Frank McManamon, Program Manager, 202–343–4101

HABS/HAER Division, E. Blaine Cliver, Chief, 202–343–9618

Heritage Preservation Services Program, Pat Tiller, Chief, 202–343–9569

Preservation Initiatives Branch, Bryan Mitchell, Chief, 202–343–9558

Technical Preservation Services Branch, Sharon Park, Chief, 202–343–9584,

State, Tribal & Local Programs Branch, Joe Wallis, Chief, 202–343–9564

Museum Management Program, Ann Hitchcock, Chief Curator, 202–343–9569

National Register, History & Education, Dwight Picaithley, Chief Historian, 202–343–9536

Keeper of the National Register of Historic Places, Carol Shull, 202–343–9536

Park Hist Struct/Cult Landscape Prg, Randall Biallas, Chief Historical Architect, 202–343–9588

National Park Service—Systems Support Offices

Anchorage, 907–257–2690, Philadelphia, 215–597–0652, Denver, 303–969–2875, Atlanta, 404–562–3157, San Francisco, 415–427–1300

Advisory Council on Historic Preservation—*http://www.achp.gov*

John Fowler, Executive Director, 202–606–8503, Ron Anzalone, Assistant to Executive Director, 202–606–8505, Don Klima, Director, Office of Planning & Review, Eastern and Western Regions, 202–606–8505

National Trust—*http://www.nthp.org*

Main Number—Washington, DC, 202–588–6000
Northeast Regional Office, Wendy Nicholas, Dir, 617–523–0885
Northeast Field Office, Patrick Hauck, Sr Prog Assoc, 215–991–5778
Southern Field Office, Lisa Burcham, Sr Prog Assoc, 202–588–6107
Southern Regional Office, John Hildreth, Dir, 843–722–8552
Midwest Regional Office, Jim Mann, Dir, 312–939–5547
Southwest Field Office, Jane Jenkins, Dir, 817–332–4398
Mountains/Plains Regional Office, Barbara Pahl, Dir, 303–623–1504
Western Regional Office, Elizabeth Goldstein, Dir, 415–956–0610

Preservation Action—*www.preservationaction.org*

Susan West Montgomery, President, 202–659–0915

Council on America's Military Past—*camphart1@aol.com*

Herbert M. Hart, Executive Director, 703–912–6124, Updated September 5, 2000

III. Tribal Historic Preservation Officers (THPO)

In instances where a Tribe does not have a Tribal Historic Preservation Officer, please contact the appropriate Tribal government office when responding to this permit eligibility condition.

Tribal Historic Preservation Officers:

(THPO vacant), Tunica-Biloxi Indians of Louisiana, P.O. Box 331, Marksville, LA 71351
James Bird, Eastern Band of Cherokee Indians, Quallah Boundary, P.O. Box 455, Cherokee, NC 28719
Brenda Boyd, Mille Lacs Band of Ojibwe Indians, HCR 67, Box 194, Onamia, MN 56395
John Brown, Narragansett Indian Tribe, P.O. Box 700, Wyoming, RI 02898
Marcia Cross, Confederated Salish and Kootenai Tribes, P.O. Box 278, Pablo, MT 59855
William Day, Poarch Band of Creek Indians, 5811 Jack Springs Rd., Atmore, AL 36502
Alan S. Downer, Ph.D., Historic Preservation Dept., Navajo Nation, P.O. Box 4950, Window Rock, AZ 86515
Kade M. Ferris, Turtle Mountain Band of Chippewa Indians, P.O. Box 900, Belcourt, ND 58316
Adeline Fredin, Confederated Tribes of the Colville Reservation, P.O. Box 150, Nespelem, WA 99155
Thomas Gates, Cultural Division, Yurok Tribe, 1034 6th St., Eureka, CA 95501
David Grignon, Menominee Indian Tribe of Wisconsin, P.O. Box 910, Keshena, WI 54135–0910
Monza V. Honga, Office of Cultural Resources, Hualapai Tribe, P.O. Box 310, Peach Springs, AZ 86434
Kelly Jackson, Lac du Flambeau, P.O. Box 67, Lac du Flambeau, WI 54538
Manfred (Fred) Jaenig, Confederated Tribes of the Umatilla Reservation, P.O. Box 638, Pendleton, OR 97801
Sebastian (Bronco) LeBeau, Cheyenne River Sioux Tribe, P.O. Box 590, Eagle Butte, SD 57625
Tim Mentz, Standing Rock Sioux Tribe, P.O. Box D, Fort Yates, ND 58538
Donna Stern-McFadden, Mescalero Apache Tribe, P.O. Box 227, Mescalero, New Mexico 88340
Scott E. Stuemke, Confederated Tribes of Warm Springs, Cultural Resources Department, P.O. Box C, Warm Springs, OR 97761
Matthew Vanderhoop, Wampanoag Tribe of Gay Head (Aquinnah), 20 Black Brook Road, Aquinnah, MA 02535–9701, Phone: (508) 645–9265, Fax: (508) 645–3790
John Welch, White Mt. Apache Tribe, P.O. Box 700, Whiteriver, AZ 85941, Phone: (520) 338–5430, Fax: (520) 338–5488
Gerald White, Leech Lake Band of Chippewa Indians, Route 3, Box 100, Cass Lake, MN 56633
Louie J. Wynne, Spokane Tribe of Indians, P.O. Box 100, Wellpinit, WA 99040
For more information: National Association of Tribal Historic Preservation Officers, D. Bambi Kraus, President, 1411 K Street NW, Suite 700, Washington, DC 20005, Phone: (202) 628–8476, Fax: (202) 628–2241

IV. Advisory Council on Historic Preservation

Advisory Council on Historic Preservation, 1100 Pennsylvania Avenue, NW., Suite 809, Washington, DC 20004 Telephone: (202) 606–8503/8505, Fax: (202) 606–8647/8672, E-mail: achp@achp.gov

Addendum C—New Source Environmental Assessments

Basic Format for Environmental Assessment

This is the basic format for the Environmental Assessment prepared by EPA from the review of the applicant's Environmental Information Document (EID) required for new source NPDES permits. Comprehensive information should be provided for those items or issues that are affected; the greater the impact, the more detailed information needed. The EID should contain a brief statement addressing each item listed below, even if the item is not applicable. The statement should at least explain why the item is not applicable.

A. General Information
1. Name of applicant
2. Type of facility
3. Location of facility
4. Product manufactured

B. Description Summaries
1. Describe the proposed facility and construction activity
2. Describe all ancillary construction not directly involved with the production processes
3. Describe briefly the manufacturing processes and procedures
4. Describe the plant site, its history, and the general area

C. Environmental Concerns
1. Historical and Archeological (include a statement from the State Historical Preservation Officer)
2. Wetlands Protection and 100-year Floodplain Management (the Army Corps of Engineers must be contacted if any wetland area or floodplain is affected)
3. Agricultural Lands (a prime farmland statement from the Soil Conservation Service must be included)
4. Coastal Zone Management and Wild and Scenic Rivers
5. Endangered Species Protection and Fish and Wildlife Protection (a statement from the U.S. Fish and Wildlife Service must be included)
6. Air, Water and Land Issues: quality, effects, usage levels, municipal services used, discharges and emissions, runoff and wastewater control, geology and soils involved, land-use compatibility, solid and hazardous waste disposal, natural and man-made hazards involved.
7. Biota concerns: floral, faunal, aquatic resources, inventories and effects
8. Community Infrastructures available and resulting effects: social, economic, health, safety, educational, recreational, housing, transportation and road resources.

BILLING CODE 6560–50–P

Addendum D—Notice of Intent Form

NPDES Form 3510-6

EPA

United States Environmental Protection Agency
Washington, DC 20460

Form Approved
OMB No. 2040-0086

Notice of Intent for Storm Water Discharges Associated with INDUSTRIAL ACTIVITY Under the Multi-sector NPDES General Permit

Submission of this completed Notice of Intent (NOI) constitutes notice that the entitiy in Section B intends to be authorized to discharge pollutants to waters of the United States, from the facility or site identified in Section C, under EPA's Storm Water Multi-sector General Permit (MSGP). Submission of the NOI also constitutes notice that the party identified in Section B of this form has read, understands, and meets the eligibility conditions of Part I of the MSGP; agrees to comply with all applicable terms and conditions of the MSGP; understands that continued authorization under the MSGP is contigent on maintaining eligibility for coverage, and that implementation of the permittee's pollution prevention plan is required two days after a complete NOI is mailed. In order to be granted coverage, all information required on this form must be completed. Please read and make sure you comply with all permit requirements, including the requirement to prepare and implement a storm water pollution prevention plan.

A. Permit Selection

Permit number assigned to your facility under the previous permit:

New Permit Number (EPA Use Only)

R05

B. Facility Operator Information

1. Name:
2. Phone:
3. Mailing Address: a. Street or P.O. Box:

   b. City: c. State: d. Zip Code: –

C. Facility/Site Information

1. Facility/Site Name:
2. Location Address: a. Street:

   b. City: c. County:

   d. State: e. Zip Code: –
3. a. Latitude: ° ' " b. Longitude: ° ' "
4. a. Permit Applicant: ☐ Federal ☐ State ☐ Tribal ☐ Private ☐ Other public entity

   b. Is the facility located on Indian Country Lands? ☐ Yes ☐ No
5. Does the facility discharge storm water into:

   a. Receiving water(s)? ☐ Yes ☐ No If yes, name(s) of receiving water(s):

   b. A municipal separate storm sewer system (MS4)? ☐ Yes ☐ No

   If yes, name of the MS4 operator:
6. The 4-digit Standard Industrial Classification (SIC) codes or the 2-letter Activity Codes that best represent the principal products produced or services rendered by your facility and major co-located activities:

   Primary: Secondary (if applicable):
7. Applicable sector(s) of industrial activity, as designated in Part 1.2.1 of the MSGP, that include associated discharges that you seek to have covered under this permit (choose up to three):

☐ Sector A	☐ Sector F	☐ Sector K	☐ Sector P	☐ Sector U	☐ Sector Z
☐ Sector B	☐ Sector G	☐ Sector L	☐ Sector Q	☐ Sector V	☐ Sector AA
☐ Sector C	☐ Sector H	☐ Sector M	☐ Sector R	☐ Sector W	☐ Sector AB
☐ Sector D	☐ Sector I	☐ Sector N	☐ Sector S	☐ Sector X	☐ Sector AC
☐ Sector E	☐ Sector J	☐ Sector O	☐ Sector T	☐ Sector Y	☐ Sector AD

8. Additional Facility/Site Requirements:

   a. Based on the instructions provided in Addendum A of the MSGP, have the eligibility criteria for "listed species" and critical habitat been met? ☐ Yes ☐ No

   b. Based on the instructions provided in Addendum B of the MSGP, have the eligibility criteria for protection of historic properties been met? ☐ Yes ☐ No

D. Certification

Do you certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted? Based on your inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, do you certify that the information submitted is, to the best of your knowledge and belief, true, accurate, and complete? Do you certify that you are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations?

Print Name:

Signature: ______________________ Date:

EPA Form 3510-6 (Revised 08-2000, Expires 04-2003)

Instructions for Completing the Notice of Intent for Storm Water Discharges Associated with INDUSTRIAL ACTIVITY Under the Multi-sector General Permit

Who Must File a Notice of Intent?

Under the provisions of section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122, Federal law prohibits "point source" discharges of storm water associated with industrial activity to waters of the U.S. without a National Pollutant Discharge Elimination System (NPDES) permit. If you operate a facility which is described in Part 1.2.1. of the Multi-sector General Permit (MSGP) or if you have been designated as needing permit coverage for your storm water discharges by your NPDES permitting authority, and you meet the eligibility requirements in Part 1 of the permit, you may satisfy your CWA obligation for permit coverage by submitting a completed NOI to obtain coverage under the MSGP. If you have questions about whether you need a permit under the NPDES Storm Water Program, contact your NPDES permitting authority (i.e., your EPA Regional storm water coordinator or your State water pollution control agency).

One NOI must be submitted for each facility or site for which you are seeking permit coverage. Only one NOI need be submitted to apply for coverage for all of your activities at each facility (e.g., you do not need to submit a separate NOI for each type of industrial activity located at a facility or industrial complex, provided your storm water pollution prevention plan covers each area for which you are an operator). Finally, the NOI must be submitted in accordance with the deadlines established in Part 2.1 of the MSGP.

When to File the NOI Form

DO NOT FILE THE NOI UNTIL YOU HAVE OBTAINED A COPY OF THE MULTI-SECTOR GENERAL PERMIT. You will need it to determine your eligibility, prepare your storm water pollution prevention plan, and correctly answer all questions on the NOI form — all of which must be done before you can sign the certification statement on the NOI in good faith (and without risk of committing perjury).

If you have a new facility or are the new operator of an existing facility, this form must be postmarked at least 48 hours before you need permit coverage. If your facility was covered under the 1995 Multi-sector General Permit or if you are currently operating without a permit, see Part 2.1 of the MSGP for your deadlines. CAUTION: You must allow enough lead time to gather the information necessary to complete the NOI (especially that related to determining eligibility with regards to endangered species and historic properties) and prepare the pollution prevention plan required by Part 4 of the MSGP <u>prior</u> to submitting your NOI.

Where to File the NOI Form

NOIs must be sent to the following address (do not send Storm Water Pollution Prevention Plans (SWPPPs) to this address):

Storm Water Notice of Intent (4203)
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

(For overnight/express delivery of NOIs, add the phone number (202) 260-9541)

NOTE: While not currently available, EPA is exploring the possibility of offering the option to complete the NOI form electronically online via the Internet. If this option does become available, directions will be posted on EPA's web site. To check on the availability of the alternative Online NOI, please visit http://www.epa.gov/ow/sw. If the Online NOI is not available, you must file the NOI at the above address.

If your facility discharges through a municipal separate storm sewer system (MS4) that is permitted as a medium or large MS4 under the NPDES Storm Water Program, you must also submit a signed copy of the NOI to the operator of that MS4, in accordance with the deadlines established in Part 2.1 of the permit.

Completing the NOI Form

To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks (abbreviate if necessary to stay within the number of characters allowed for each item). Use one space for breaks between words. Please make sure you have addressed all applicable questions and have made a photocopy for your records before sending the completed form to the address above.

Section A. Permit Selection

You must indicate the NPDES storm water general permit under which you are applying for coverage. Find the generic permit "number" in Part 1.1 of the permit that covers the area where your facility is located. For example, if you are located in New Mexico (except Indian Country lands), the generic number would be NMR05*###. If you are located on Navajo lands in New Mexico, the generic permit number would be AZR05*##1. CAUTION: You <u>must</u> use the correct permit number or your permit coverage will be invalid since you are not located within the coverage area for that permit.

Section B. Facility Operator Information

1. Provide the legal name of the person, partnership, co-partnership, firm, company, corboration, association, joint stock company, trust, estate, governmental entity, or other legal entity that operates the facility or site described in this application. The name of the operator may or may not be the same as the name of the facility. The responsible party is the legal entity that controls the facility's operation, rather than the plant or site manager.
2. Provide the telephone number of the facility operator.
3. Provide the mailing address of the facility operator. Include the street address or P.O. Box, city, state, and zip code. All correspondence regarding the permit will be sent to this address, not the facility address in Section C.
4. Indicate the legal status of the facility operator as a Federal, State, Tribal private, or other public entity (other than Federal or State). This refers only to the operator, not the owner or the land the facility or site is located upon.

Section C. Facility/Site Information

1. Enter the official or legal name of the facility or site.
2. Enter the complete street address (if no street address exists, provide a geographic description [e.g., Intersection of Routes 9 and 55]), city county, state, and zip code. Do not use a P.O. Box.
3. Enter the latitude and longitude of the approximate center of the facility or site in degrees/minutes/seconds. Latitude and longitude can be obtained from U.S. Geological Survey (USGS quadrangle or topographic maps, by using a GPS unit, by calling 1-(888) ASK-USGS, by searching for your facility's address on several commercial "map" sites on the Internet, or by accessing EPA's web site at http://www.epa.gov/owm/sw/industry/index.htm and selecting Latitude and Longitude Finders under the Resources/Permit section.
4. Indicate whether the facility is located on Indian Country lands (e.g., a federally recognized reservation, etc,).
5. Indicate whether the facility or site discharges storm water into a receiving water(s) and/or a municipal separate storm sewer system (MS4). Enter the name(s) of the closest receiving water(s) and/or the MS4 (An MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, borough, county, parish, district, association, or other public body and is designed or used for collecting or conveying storm water.)
6. List your primary and secondary four 4-digit Standard Industrial Classification (SIC) codes or 2-character Activity Codes that best describe the principal products or services provided at the facility or site identified in Section C of this application. For industrial activities defined in 40 CFR 122.26(b)(If)(i)-(ix) and (xi) that do not have SIC codes that accurately describe the principal products produced or services provided, use the following 2-character Activity Codes:
   HZ = Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under subtitle C of RCRA [40 CFR 122.26(b)(If)(iv)];
   LF = Landfills, land application sites, and open dumps that receive or have received any industrial wastes, including those that are subject to regulation under subtitle D of RCRA [40 CFR 122.26(b)(If)(v)J;
   SE = Steam electric power generating facilities, including coal handling sites [40 CFR 122.26(b)(If)(vii)];
   TW = Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage [40 CFR 122.26(b)(If)(ix)]; or
   Alternatively, if your facility or site was specifically designated by your NPDES permitting authority (EPA), enter "**AD**."

Section D. Certification

Certification statement and signature. (CAUTION: An unsigned or undated NOI form will prevent the granting of permit coverage.) Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means:
(i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
(ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this certification is estimated to average 3.7 hours per certification, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose to provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection.of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Office of Environmental Information Services, Collection Services Division (2823), USEPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460. Include the OMB control number of this form on any correspondence. Do not send the completed NOI form to this address.

Addendum E—Notice of Termination Form

THIS FORM REPLACES PREVIOUS FORM 3510-7 (8-92)
Please See Instructions Before Completing This Form

Form Approved. OMB No. 2040-0086
Approval expires: 8-31-98

NPDES FORM

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notice of Termination (NOT) of Coverage Under a NPDES General Permit for Storm Water Discharges Associated with Industrial Activity

Submission of this Notice of Termination constitutes notice that the party identified in Section II of this form is no longer authorized to discharge storm water associated with industrial activity under the NPDES program. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Permit Information

NPDES Storm Water General Permit Number:

Check Here if You are No Longer the Operator of the Facility: ☐

Check Here if the Storm Water Discharge is Being Terminated: ☐

II. Facility Operator Information

Name: Phone:

Address:

City: State: ZIP Code:

III. Facility/Site Location Information

Name:

Address:

City: State: ZIP Code:

Latitude: Longitude: Quarter: Section: Township: Range:

IV. Certification: I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that are authorized by a NPDES general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this Notice of Termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

Print Name: Date:

Signature: ____________________

Instructions for Completing Notice of Termination (NOT) Form

Who May File a Notice of Termination (NOT) Form

Permittees who are presently covered under an EPA-issued National Pollutant Discharge Elimination System (NPDES) General Permit (including the 1995 Multi-Sector Permit) for Storm Water Dicharges Associated with Industrial Activity may submit a Notice of Termination (NOT) form when their facilities no longer have any storm water discharges associated with industrial activity as defined in the storm water regulations at 40 CFR 122.26(b)(14), or when they are no longer the operator of the facilities.

For construction activities, elimination of all storm water discharges associated with industrial activity occurs when disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with industrial activity from the construction site that are authorized by a NPDES general permit have otherwise been eliminated. Final stabilization means that all soil-disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% of the cover for unpaved areas and areas not covered by permanent structures has been established, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

Where to File NOT Form

Send this form to the the following address:

Storm Water Notice of Termination (4203)
401 M Street, S.W.
Washington, DC 20460

Completing the Form

Type or print, using upper-case letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. If you have any questions about this form, telephone or write the Notice of Intent Processing Center at (703) 931-3230.

EPA Form 3510-7 (8-98)

Instructions - EPA Form 3510-7
Notice of Termination (NOT) of Coverage Under The NPDES General Permit
for Storm Water Discharges Associated With Industrial Activity

Section I Permit Information

Enter the existing NPDES Storm Water General Permit number assigned to the facility or site identified in Section III. If you do not know the permit number, telephone or write your EPA Regional storm water contact person.

Indicate your reason for submitting this Notice of Termination by checking the appropriate box:

If there has been a change of operator and you are no longer the operator of the facility or site identified in Section III, check the corresponding box.

If all storm water discharges at the facility or site identified in Section III have been terminated, check the corresponding box.

Section II Facility Operator Information

Give the legal name of the person, firm, public organization, or any other entity that operates the facility or site described in this application. The name of the operator may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation, rather than the plant or site manager. Do not use a colloquial name. Enter the complete address and telephone number of the operator.

Section III Facility/Site Location Information

Enter the facility's or site's official or legal name and complete address, including city, state and ZIP code. If the facility lacks a street address, indicate the state, the latitude and longitude of the facility to the nearest 15 seconds, or the quarter, section, township, and range (to the nearest quarter section) of the approximate center of the site.

Section IV Certification

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipality, State, Federal, or other public facility: by either a principal executive officer or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 0.5 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Addendum F—No Exposure Certification Form

NPDES FORM 3510-11

EPA

United States Environmental Protection Agency
Washington, DC 20460

Form Approved
OMB No. 2040-0211

NO EXPOSURE CERTIFICATION for Exclusion from NPDES Storm Water Permitting

Submission of this No Exposure Certification constitutes notice that the entity identified in Section A does not require permit authorization for its storm water discharges associated with industrial activity in the State identified in Section B under EPA's Storm Water Multi-Sector General Permit due to the existence of a condition of no exposure.

A condition of no exposure exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the no exposure exclusion. In addition, the exclusion from NPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the no exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity in Section A is certifying that a condition of no exposure exists at its facility or site, and is obligated to comply with the terms and conditions of 40 CFR 122.26(g).

ALL INFORMATION MUST BE PROVIDED ON THIS FORM.

Detailed instructions for completing this form and obtaining the no exposure exclusion are provided on pages 3 and 4.

A. Facility Operator Information

1. Name: ____________ 2. Phone: ____________
3. Mailing Address: a. Street: ____________
   b. City: ____________ c. State: ____ d. Zip Code: _____-____

B. Facility/Site Location Information

1. Facility Name: ____________
2. a. Street Address: ____________
   b. City: ____________ c. County: ____________
   d. State: ____ e. Zip Code: _____-____
3. Is the facility located on Indian Lands? Yes ☐ No ☐
4. Is this a Federal facility? Yes ☐ No ☐
5. a. Latitude: ___ ° ___ ' ___ " b. Longitude: ___ ° ___ ' ___ "
6. a. Was the facility or site previously covered under an NPDES storm water permit? Yes ☐ No ☐
   b. If yes, enter NPDES permit number: ____________
7. SIC/Activity Codes: Primary: ____ Secondary (if applicable): ____
8. Total size of site associated with industrial activity: ____________ acres
9. a. Have you paved or roofed over a formerly exposed, pervious area in order to qualify for the no exposure exclusion? Yes ☐ No ☐
   b. If yes, please indicate approximately how much area was paved or roofed over. Completing this question does not disqualify you for the no exposure exclusion. However, your permitting authority may use this information in considering whether storm water discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.

   Less than one acre ☐ One to five acres ☐ More than five acres ☐

NPDES FORM 3510-11 EPA

NO EXPOSURE CERTIFICATION for Exclusion from NPDES Storm Water Permitting

Form Approved OMB No. 2040-0211

C. Exposure Checklist

Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) **If you answer "Yes" to any of these questions (1) through (11), you are not eligible for the no exposure exclusion.**

	Yes	No
1. Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water	☐	☐
2. Materials or residuals on the ground or in storm water inlets from spills/leaks	☐	☐
3. Materials or products from past industrial activity	☐	☐
4. Material handling equipment (except adequately maintained vehicles)	☐	☐
5. Materials or products during loading/unloading or transporting activities	☐	☐
6. Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants)	☐	☐
7. Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	☐	☐
8. Materials or products handled/stored on roads or railways owned or maintained by the discharger	☐	☐
9. Waste material (except waste in covered, non-leaking containers [e.g., dumpsters])	☐	☐
10. Application or disposal of process wastewater (unless otherwise permitted)	☐	☐
11. Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow	☐	☐

D. Certification Statement

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from NPDES storm water permitting.

I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility or site identified in this document (except as allowed under 40 CFR 122.26(g)(2)).

I understand that I am obligated to submit a no exposure certification form once every five years to the NPDES permitting authority and, if requested, to the operator of the local municipal separate storm sewer system (MS4) into which the facility discharges (where applicable). I understand that I must allow the NPDES permitting authority, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain coverage under an NPDES permit prior to any point source discharge of storm water from the facility.

Additionally, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

Print Title: |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|

Signature: ____

Date: |_|_|_|_|_|_|

NPDES FORM 3510-11

EPA

Instructions for the NO EXPOSURE CERTIFICATION for Exclusion from NPDES Storm Water Permitting

Form Approved OMB No. 2040-0211

Who May File a No Exposure Certification

Federal law at 40 CFR Part 122.26 prohibits point source discharges of storm water associated with industrial activity to waters of the U.S. without a National Pollutant Discharge Elimination System (NPDES) permit. However, NPDES permit coverage is not required for discharges of storm water associated with industrial activities identified at 40 CFR 122.26(b)(14)(i)-(ix) and (xi) if the discharger can certify that a condition of "no exposure" exists at the industrial facility or site.

Storm water discharges from construction activities identified in 40 CFR 122.26(b)(14)(x) and (b)(15) are not eligible for the no exposure exclusion.

Obtaining and Maintaining the No Exposure Exclusion

This form is used to certify that a condition of no exposure exists at the industrial facility or site described herein. This certification is only applicable in jurisdictions where EPA is the NPDES permitting authority and must be re-submitted at least once every five years.

The industrial facility operator must maintain a condition of no exposure at its facility or site in order for the no exposure exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to storm water, the facility operator must obtain coverage under an NPDES storm water permit immediately.

Where to File the No Exposure Certification Form

Mail the completed no exposure certification form to:

Storm Water No Exposure Certification (4203)
USEPA
401 M Street, SW
Washington, D.C. 20460

Completing the Form

You <u>must</u> type or print, using uppercase letters, in appropriate areas only. Enter only one character per space (i.e., between the marks). Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words. One form must be completed for each facility or site for which you are seeking to certify a condition of no exposure. Additional guidance on completing this form can be accessed through EPA's web site at www.epa.gov/owm/sw. Please make sure you have addressed all applicable questions and have made a photocopy for your records before sending the completed form to the above address.

Section A. Facility Operator Information

1. Provide the legal name of the person, firm, public organization, or any other entity that operates the facility or site described in this certification. The name of the operator may or may not be the same as the name of the facility. The operator is the legal entity that controls the facility's operation, rather than the plant or site manager.
2. Provide the telephone number of the facility operator.
3. Provide the mailing address of the operator (P.O. Box numbers may be used). Include the city, state, and zip code. All correspondence will be sent to this address.

Section B. Facility/Site Location Information

1. Enter the official or legal name of the facility or site.
2. Enter the complete street address (if no street address exists, provide a geographic description [e.g., Intersection of Routes 9 and 55]), city, county, state, and zip code. Do not use a P.O. Box number.
3. Indicate whether the facility is located on Indian Lands.
4. Indicate whether the industrial facility is operated by a department or agency of the Federal Government (see also Section 313 of the Clean Water Act).
5. Enter the latitude and longitude of the approximate center of the facility or site in degrees/minutes/seconds. Latitude and longitude can be obtained from United States Geological Survey (USGS) quadrangle or topographic maps, by calling 1-(888) ASK-USGS, or by accessing EPA's web site at <u>http://www.epa.gov/owm/sw/industry/index.htm</u> and selecting Latitude and Longitude Finders under the Resources/Permit section.

   Latitude and longitude for a facility in decimal form must be converted to degrees (°), minutes ('), and seconds (") for proper entry on the certification form. To convert decimal latitude or longitude to degrees/minutes/seconds, follow the steps in the following example.

   <u>Example</u>: Convert decimal latitude 45.1234567 to degrees (°), minutes ('), and seconds (").

   a) The numbers to the left of the decimal point are the degrees: 45°.
   b) To obtain minutes, multiply the first four numbers to the right of the decimal point by 0.006: 1234 x 0.006 = 7.404.
   c) The numbers to the left of the decimal point in the result obtained in (b) are the minutes: 7'.
   d) To obtain seconds, multiply the remaining three numbers to the right of the decimal from the result obtained in (b) by 0.06: 404 x 0.06 = 24.24. Since the numbers to the right of the decimal point are not used, the result is 24".
   e) The conversion for 45.1234567 = 45° 7' 24".
6. Indicate whether the facility was previously covered under an NPDES storm water permit. If so, include the permit number.
7. Enter the 4-digit SIC code which identifies the facility's primary activity, and second 4-digit SIC code identifying the facility's secondary activity, if applicable. SIC codes can be obtained from the <u>Standard Industrial Classification Manual, 1987</u>.
8. Enter the total size of the site associated with industrial activity in acres. Acreage may be determined by dividing square footage by 43,560, as demonstrated in the following example.

   <u>Example</u>: Convert 54,450 ft^2 to acres

   Divide 54,450 ft^2 by 43,560 square feet per acre:
   54,450 $ft^2 \div$ 43,560 ft^2/acre = 1.25 acres.
9. Check "Yes" or "No" as appropriate to indicate whether you have paved or roofed over a formerly exposed, pervious area (i.e., lawn, meadow, dirt or gravel road/parking lot) in order to qualify for no exposure. If yes, also indicate approximately how much area was paved or roofed over and is now impervious area.

NPDES FORM 3510-11

EPA

Instructions for the NO EXPOSURE CERTIFICATION for Exclusion from NPDES Storm Water Permitting

Form Approved OMB No. 2040-0211

Section C. Exposure Checklist

Check "Yes" or "No" as appropriate to describe the exposure conditions at your facility. If you answer "Yes" to **ANY** of the questions (1) through (11) in this section, a potential for exposure exists at your site and you cannot certify to a condition of no exposure. You must obtain (or already have) coverage under an NPDES storm water permit. After obtaining permit coverage, you can institute modifications to eliminate the potential for a discharge of storm water exposed to industrial activity, and then certify to a condition of no exposure.

Section D. Certification Statement

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means:

(i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or

(ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this certification is estimatedto average 1.0 hour per certification, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose to provide information to or for a Federal agency This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Office of Environmental Services, Collection Services Division (2823), USEPA, 1200 Pennsylvania Avenue, NW, Washington, D.C. 20460. Include the OMB control number of this form on any correspondence. Do not send the completed No Exposure Certification form to this address.

[FR Doc. 00–25469 Filed 10–27–00; 8:45 am]

BILLING CODE 6560–50–C

Appendix 3.

Sites Co-located with Industrial Sites

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Appendix 3

Table 3-1. Sites Co-Located with Conventional Industrial Facilities

Site ID	Consolidated Unit ID	Site Name	Conventional SWPPP	Erosion Matrix Score	FFCA Site (Y/N)
03-007		Firing site	Sigma Complex	8.8	No
03-013(a)	03-013(a)-00	Operational release	Industrial Shop SWPP	45	Yes
03-014(q)	03-012(b)-00	Wastewater treatment facility	Power Plant	14	No
03-014(x)		Wastewater treatment facility	Sigma Complex		No
03-014(y)		Wastewater treatment facility	Sigma Complex		No
03-015	03-015-00	Outfall	Sigma Complex	3.6	No
03-025(c)		Tank and/or associated equipment	TA-3 bldg 39 & 102 metal shop		No
03-026(a)		Sump	Sigma Complex		No
03-034(b)		Tank and/or associated equipment	Sigma Complex	39	No
03-037		Underground tank	Sigma Complex	3.6	No
03-045(a)		Outfall (industrial or sanitary wastewater treatment)	Power Plant	7.6	No
03-045(b)	03-012(b)-00	Industrial or sanitary wastewater treatment	Power Plant	65	Yes
03-045(c)	03-012(b)-00	Outfall	Power Plant	57.7	Yes
03-045(h)		Outfall (industrial or sanitary wastewater treatment)	Sigma Complex	38.3	No
03-047(d)		Storage area	Power Plant	15.3	No
03-049(a)		Outfall	Sigma Complex	36.8	No
03-049(b)		Operational release	Sigma Complex	3.6	No
03-051(c)		Soil contamination (vacuum pump leaking)	Sigma Complex	12.7	No
03-052(a)		Storm drainage	TA-3 bldg 39 & 102 metal shop	34.6	No
03-052(b)		Storm drainage	Sigma Complex	39.8	No
03-053	03-015-00	Operational facility	Sigma Complex		No
03-056(k)		Container storage area	Sigma Complex	3.6	No
03-056(l)		Drum storage	Sigma Complex	10.6	No
14-001(a)		Firing site (active)	DX Firnig Sites	3.6	No
14-001(b)		Firing site (active)	DX Firnig Sites	3.6	No
14-001(c)		Firing site (active)	DX Firnig Sites	3.6	No
14-001(d)		Firing site (active)	DX Firnig Sites	3.6	No
14-001(e)		Firing site (active)	DX Firnig Sites	3.6	No
14-001(f)		Firing site - bullet test facility (active)	DX - Non-HSWA Firing Sites	3.6	No
14-001(g)		Firing site - Open Burn/Open Detonation (active)	DX Firnig Sites	53.3	Yes
14-002(a)		Firing site (inactive)	DX - Non-HSWA Firing Sites	46.3	Yes
14-002(b)		Firing site (inactive)	DX - Non-HSWA Firing Sites		No
14-002(f)		Junction box at a firing site	DX - Non-HSWA Firing Sites		No
14-004(b)		Satellite accumulation area	DX Firnig Sites	3.6	No
14-005		Incinerator (active)	DX Firnig Sites	57.3	Yes
14-006		Tank and/or associated equipment	DX Firnig Sites	47.1	Yes
14-009		Surface disposal site	DX - Non-HSWA Firing Sites	53.7	Yes

Table 3-1. Sites Co-Located with Conventional Industrial Facilities

Site ID	Consolidated Unit ID	Site Name	Conventional SWPPP	Erosion Matrix Score	FFCA Site (Y/N)
14-010		Sump	DX - Non-HSWA Firing Sites	51.5	Yes
15-003		Firing site PHERMEX (active)	DX - Non-HSWA Firing Sites	15.3	No
15-004(h)		Firing site H (inactive)	DX - Non-HSWA Firing Sites	8.8	No
15-006(a)		Firing site PHERMEX (active)	DX - Non-HSWA Firing Sites	15.3	No
15-006(b)		Firing Site Ector (active)	DX - Non-HSWA Firing Sites	15.3	No
15-009(g)		Septic tank (active)	DX - Non-HSWA Firing Sites	3.6	No
15-010(c)		Drainline	DX - Non-HSWA Firing Sites	51.5	Yes
15-014(d)		Industrial or sanitary wastewater treatment	DX - Non-HSWA Firing Sites	39.8	No
15-014(l)		NPDES-permitted outfall (active)	DX - Non-HSWA Firing Sites	39.8	No
15-014(m)		Drainline and outfall (active)	DX - Non-HSWA Firing Sites	21.5	No
16-005(g)	16-010(h)-99	Burn site	Burn Ground	3.6	No
16-006(e)	16-016(c)-99	Septic system 16-385	Burn Ground	8.8	No
16-010(c)		Burn site 16-388 - RCRA Unit (active)	Burn Ground	47.2	Yes
16-010(d)		Burn site 16-399 - RCRA unit (active)	Burn Ground	50.3	Yes
16-010(e)		HE filter vessel; RCRA unit (active)	Burn Ground	14	No
16-010(f)		HE filter vessel; RCRA unit (active)	Burn Ground	14	No
16-010(h)	16-010(h)-99	Burn site	Burn Ground	8.8	No
16-010(i)		Burn site	Burn Ground	14	No
16-010(j)		Burn site - RCRA Unit	Burn Ground	14	No
16-010(k)	16-010(h)-99	Trough	Burn Ground	14	No
16-010(l)	16-010(h)-99	Trough	Burn Ground	14	No
16-010(m)	16-010(h)-99	Trough	Burn Ground	14	No
16-010(n)	16-010(h)-99	Trough	Burn Ground	14	No
16-028(a)		South drainage channel	Burn Ground	51.5	Yes
35-013(a)		Sump	Sigma Complex	3.6	No
35-016(g)		Outfall	Sigma Complex	68.3	Yes
35-016(h)		Storm drain	Sigma Complex	76.5	Yes
35-016(j)		Storm drain	Sigma Complex	24	No
36-001		Material disposal area (MDA AA)	DX - Non-HSWA Firing Sites	45.7	Yes
36-004(a)		Firing site (active)	DX - Non-HSWA Firing Sites	48.5	Yes
36-004(b)		Firing site (active)	DX - Non-HSWA Firing Sites	57.3	Yes
36-004(c)		Firing site - open detonation (active)	DX Firnig Sites	68.3	Yes
36-004(d)		Firing site (Lower Slobbovia, skunk works, burn pit) (active)	DX - Non-HSWA Firing Sites	33	No
36-004(e)		I-J Firing Site (active)	DX - Non-HSWA Firing Sites	57.3	Yes
36-006		Surface disposal site	DX - Non-HSWA Firing Sites	78	Yes
39-002(b)		Storage area	DX Firnig Sites	15.6	No
39-002(d)		Storage area	DX Firnig Sites	15.6	No

Table 3-1. Sites Co-Located with Conventional Industrial Facilities

Site ID	Consolidated Unit ID	Site Name	Conventional SWPPP	Erosion Matrix Score	FFCA Site (Y/N)
39-002(f)		Storage area	DX - Non-HSWA Firing Sites	15.6	No
39-004(a)		Firing site	DX Firnig Sites	74	Yes
39-004(c)		Firing site 39-6 (open detonation) - RCRA Unit (active)	DX Firnig Sites	74.5	Yes
39-004(d)		Firing site 39-57 (open detonation) - RCRA Unit (active)	DX Firnig Sites	74	Yes
39-004(e)		Firing site (active)	DX - Non-HSWA Firing Sites	78.5	Yes
40-006(a)		Firing site (active)	DX - Non-HSWA Firing Sites	56.2	Yes
40-006(c)		Firing site (active)	DX - Non-HSWA Firing Sites	25.3	Yes
42-001(a)		Incinerator (former location)	TA-55 Plutonium Facility	65.8	Yes
42-001(b)		Ash storage tank (former location)	TA-55 Plutonium Facility	22.3	Yes
42-001(c)		Ash storage tank (former location)	TA-55 Plutonium Facility	65.8	Yes
42-002(a)		Decontamination facility (former location)	TA-55 Plutonium Facility	65.8	Yes
42-002(b)		Decontamination facility driveway (former location)	TA-55 Plutonium Facility	65.8	Yes
50-001(a)		Waste treatment facility TA-50-1 - RCRA Unit (active)	TA-50 Radioactive Liquid Waste Treatment Facility	8.8	No
50-002(d)		Aboveground storage tank	TA-50 Radioactive Liquid Waste Treatment Facility		No
50-006(a)		Operational release	TA-50 Radioactive Liquid Waste Treatment Facility	77.8	Yes
50-006(c)		Operational release	TA-50 Radioactive Liquid Waste Treatment Facility	38.6	No
50-009		Material disposal area (MDA C)	TA-50 Radioactive Liquid Waste Treatment Facility	54.8	Yes
54-001(a)		Storage area	TA-54 Stormwater Plan	22.3	No
54-001(b)		Storage area	TA-54 Stormwater Plan		No
54-001(c)		Storage area	TA-54 Stormwater Plan		No
54-001(d)		Storage area	TA-54 Stormwater Plan	3.6	No
54-001(e)		Storage area	TA-54 Stormwater Plan		No
54-002		Storage area (gas cylinder storage area)	TA-54 Stormwater Plan		No
54-004		Material disposal area (MDA H)	TA-54 Stormwater Plan	45.6	Yes
54-005		Material disposal area (MDA J) (Pits 1-5, Shafts 1-4)	TA-54 Stormwater Plan	20.9	No
54-006		Material disposal area (MDA L) (all subsurface units such as Pit A, SI B,C,D, Shafts 1-28, 29-34)	TA-54 Stormwater Plan	10.6	No
54-007(a)		Septic system	TA-54 Stormwater Plan	20.5	No
54-007(b)		Septic system (inactive)	TA-54 Stormwater Plan	27	No
54-007(c)	54-007(c)-99	Septic system	TA-54 RANT	56	Yes
54-007(e)	54-007(c)-99	Septic system	TA-54 RANT	23.3	No
54-009		Aboveground tanks (treatment tanks)	TA-54 Stormwater Plan		No

Appendix 3
Table 3-1. Sites Co-Located with Conventional Industrial Facilities

Site ID	Consolidated Unit ID	Site Name	Conventional SWPPP	Erosion Matrix Score	FFCA Site (Y/N)
54-012(a)		Former reduction site (drum compactor)	TA-54 Stormwater Plan		No
54-012(b)		Reduction site	TA-54 Stormwater Plan	22.3	No
54-013(b)	54-013(b)-99	Material disposal area (MDA G) disposal pit (truck washing pit converted to Pit 19)	TA-54 Stormwater Plan	3.6	No
54-014(a)		Material disposal area (MDA L) storage shafts (Pb stringer shafts)	TA-54 Stormwater Plan		No
54-014(b)	54-013(b)-99	Material disposal area (MDA G) storage pit (Pit 9, TRU waste)	TA-54 Stormwater Plan	14	No
54-014(c)	54-013(b)-99	Material disposal area (MDA G) storage shafts (shafts 200-233)	TA-54 Stormwater Plan	39.8	No
54-014(d)	54-013(b)-99	Material disposal area (MDA G) storage trenches A, B, C, D	TA-54 Stormwater Plan	66.5	Yes
54-015(a)		Storage area (surface corrosive inhibitor)	TA-54 Stormwater Plan	3.6	No
54-015(b)		Pit 39- LLW disposal area (former TRU surface storage)	TA-54 Stormwater Plan	27	No
54-015(c)		Storage area, TRU Pad 1	TA-54 Stormwater Plan	3.6	No
54-015(d)		Storage area, TRU Pad 2	TA-54 Stormwater Plan	27	No
54-015(e)		Storage area, TRU Pad 3	TA-54 Stormwater Plan	3.6	No
54-015(f)		Storage area, TRU Pad 4	TA-54 Stormwater Plan	27	No
54-015(h)		Drum storage area	TA-54 RANT	22.3	No
54-015(j)		Storage area (Dome #49, mixed waste sludge)	TA-54 Stormwater Plan		No
54-015(k)	54-013(b)-99	Storage area (TRU waste mound)	TA-54 Stormwater Plan	18	No
54-016(b)		Sump	TA-54 Stormwater Plan		No
54-017	54-013(b)-99	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	TA-54 Stormwater Plan	62	Yes
54-018	54-013(b)-99	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	TA-54 Stormwater Plan	52.6	Yes
54-019	54-013(b)-99	Material disposal area (MDA G) disposal shafts (active before 11/19/80)	TA-54 Stormwater Plan	27.5	No
54-020	54-013(b)-99	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	TA-54 Stormwater Plan	53.7	Yes
55-002(c)		Container storage area	TA-55 Plutonium Facility		No
55-009		Concrete enclosure	TA-55 Plutonium Facility	10.6	No
60-001(a)		Storage area (active)	TA-60 Motorpool		No
C-03-006		One-time spill	Sigma Complex		No
C-03-014		Storage area	Sigma Complex	22.3	No
C-14-008		Building	DX - Non-HSWA Firing Sites	8.8	No
C-15-011		Former underground tank	DX - Non-HSWA Firing Sites	10.6	No

Appendix 4.

SWPPP Supporting Forms

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Appendix 4
SWPPP Supporting Forms

Blank copies of the following forms are provided in this appendix:

- Surface Water Site Assessment forms for Part A and Part B
- Site-Specific SWPPP Form
- Surface Water Sampling Field Sheet
- Inspection and Maintenance Form
- Comprehensive Site Compliance Evaluation Reports

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Constituent Assessment (Part A)

Site Information

1. PRS Number: ___________________ 2. Date/Time: ____________________

3. RRES-RS Point of Contact: _______________ 4. FMU/Point of Contact: _____ / __________________

5. Description of the historical operations of this PRS:

6. Description of the current operations of this PRS (if any):

PRS Status

7. Action/Status to Date (check all that apply) Date Completed or Anticipated

θ None

Field Investigation θ Phase I θ Phase II .... _________________

Interim Measures θ IM θ BMPs .... _________________

Accelerated Cleanup θVCA θ VCM .... _________________

Other θ Monitoring θ CMs .... _________________

Report Status θ RFI Report θ SAP .... _________________

θ NFA/DOU — If checked, supply criteria number(s): ____________

Comments:

Sample Information

Y N

θ θ 8. Have surface/sediment (depth less than 12 in.) samples been collected that reflect current site conditions?

If yes: 1) Attach data.
2) Include analyte name, value, units, location ID, sample ID, SAL, depth, and media (soil, tuff, etc.).
3) Please attach existing map that shows where samples were taken, if available.

θ θ 9. Have surface water samples been collected that reflect site conditions?

If yes: 1) Attach data.
2) Include analyte name, value, units, location ID, filtered/nonfiltered, and flow data (if available).
3) Please attach existing map that shows where samples were taken, if available.

θ θ 10. Is data pending? If yes: 1) List date data are anticipated: ________________________________
2) Provide a list of COPCs identified in RFI Work Plan as an attachment.

11. RRES-WQH Representative: ____
(Print name and title, then sign)

RRES-RS-SOP-2.01, R0	Los Alamos Environmental Restoration Project

Los Alamos National Laboratory

Surface Water Site Assessment Form

White-background items must always be filled in if site is found. Gray-background items are optional under certain conditions. Gray-background items labeled "(Opt)" are always optional.

Site Information

Site ID	PRS ID (If Site is PRS)	Nearest Struct (TA-Bldg)
		-

Setting

Topography (Check all that apply)

☐ On Mesa Top ☐ On Bench in Canyon ☐ On Canyon Floor, Not in Channel ☐ In Channel in Canyon Floor

Topography Explanation

Ground/Canopy Cover -- Leaves, Needles, Rocks, Vegetation, Trees, Structures, Asphalt, etc. (Check all that apply)

☐ Sparse (<25%) ☐ Medium (25-75%) ☐ Thick (>75%)

Ground/Canopy Cover Explanation

Slope at Area Impacted (Check all that apply)

☐ Flat (<10%) ☐ Gradual (10-30%) ☐ Steep(>30%)

Slope Explanation

Run-off

Is There Visible Evidence of Run-off Discharging from Site?

☐ Yes ☐ No

(If "No" visible evidence, skip to Run-On section)

Is Run-off Channelized? (Skip if "No" above)

☐ Yes ☐ No

Channel Type (Check just one. Skip if "No" above or at left)

☐ Man-Made ☐ Natural

Channelization Explanation (Entry required if Run-off Channelized = "Yes")

Where Does Evidence of Run-off Terminate? (Check just one. Skip if Visible Evidence of Run-off = "No")

☐ Drainage/Canyon ☐ On Bench in Canyon ☐ Other (i.e., Retention Pond, Meadow, Mesa Top)

Terminus Explanation (Entry required if Visible Evidence of Run-off = "Yes")

Los Alamos National Laboratory
Site-Specific Storm Water Pollution Prevention Plan

Site Description

Site ID:
Site Name:
SMA Number(s):
Canyon or Drainage Area:
TA:

Erosion Matrix Score:
Site Category:
Site Subcategory:
BMPs Installed (Y/N):
Map Number(s):

Description:

Site-Specific Monitoring History

Monitoring Year Start:
Status Date:
Co-located with conventional industrial activity?

Monitoring Status:

Corrective Action History

POLLUTION PREVENTIONTEAM

Member/Organization	Function	Phone	Email

Summary of Potential Pollutant Sources

Surface Soil/Sediment Sample Data - Constituents Present above Background and/or Fallout Values

Surface soil sample data available?

Inorganics	Organics	Radionuclides

Exposure Activities/Sources in Area

Significant Leaks and Spills

Non-Storm Water Discharges

Storm Water Runoff Sampling Data

Site Specific Monitoring Results

Site-specific storm water runoff data available?

Lab-Derived Constituents Present Above wSAL and/or DCG Values

Inorganics	Organics	Radionuclides

Watershed Monitoring Results

Watershed storm water runoff data available?

FFCA Monitoring Suites:
Downstream Gage Station:

Lab-Derived Constituents Present Above wSAL and/or DCG Values

Inorganics	Organics	Radionuclides

Storm Water Controls

BMPs - Non Structural Controls

Refer to Section 4.0 of LANL Storm Water Pollution Prevention Plan for SWMUs and AOCs (Sites), Revision 0

Pre-FFCA SWAT Evaluation?

Date Evaluated:

BMPs - Structural Controls

BMP Type	BMP Purpose	Description	Date Installed	Status

Los Alamos National Laboratory
Site-Specific Storm Water Pollution Prevention Plan

Comprehensive Site Compliance Evaluation (Inspection History)

Inspection Date:	
Findings:	
Work Required:	
Work Completed:	

Routine Site Inspections (Inspection History)

Site-Specific Storm Water Pollution Prevention Plan Revision History

Revision Date	SWPPP Revision Number

Documentation of Permit Eligibility Related to Endangered Species

Refer to Appendix 10 of LANL Storm Water Pollution Prevention Plan for SWMUs and AOCs (Sites), Revision 0

Documentation of Permit Eligibility Related to Historic Places

Refer to Appendix 11 of LANL Storm Water Pollution Prevention Plan for SWMUs and AOCs (Sites), Revision 0

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Los Alamos National Laboratory
Water Quality and Hydrology Group (RRES-WQH)
Surface Water Sampling Field Sheet

①

(RRES-WQH-HCP-009.1, Attachment 3)

Station Name:	**Mean Time:** **Date:**
Station Number:	**Analytical Request Record No.:**
Sampled By: ________________________	**Sample Purpose:** Baseflow Surveillance Storm Water Storm Water Permit Outfall Permit Other:

②

Req	*Parameter*	Bottle	Preserv.	Coll
	Rad (tot)	P, 2-1 gallon	HNO_3 pH<2	
	Rad (tot) 3H	G, 1-250 ml amb	None	
	Rad (filter)	P, 2-1 gal	HNO_3 pH<2	
	Metals (tot)	P, 1-1 liter	HNO_3 pH<2	
	Metals (tot) Hg	G, 1-250 ml amb	HNO_3 pH<2	
	Metals (filter) Hg	G, 1-250 ml amb	HNO_3 pH<2	
	Metals (filter)	P, 1-1 liter	HNO_3 pH<2	
	Gen Inorg (tot)	P, 1-1 liter	Cool 4°C	
	Gen Inorg CN	P, 1-250 ml	NaOH pH>12	
	Gen Inorg (tot)	P, 1-1 liter	Cool 4°C, H_2SO_4	
	Gen Inorg (filter)	P, 1-1 liter	Cool 4°C	
	Perchlorate (tot)	P, 1-250 ml	None	
	PCB (tot)	G, 1-1 liter amb	Cool 4°C	
	SVOA (tot)	G, 1-1 liter amb	Cool 4°C	
	HE (tot)	G, 1-1 liter amb	Cool 4°C	
	Diox/Furans (tot)	G, 1-1 liter amb	Cool 4°C	
	VOA (tot)	G, 2-40 ml amb	Cool 4°C, HCl	
	Toxicity	P, 1-1 gallon	Cool 4°C	
	FLOOD			
	Grab (Inorg)	P, 7-1 gallon	Cool 4°C	
	Grab (organ)	G, 3-2 liter amb	Cool 4°C	
	Grab (organ)	G, 2-40 ml amb	Cool 4°C, HCl	
		See Comments below		

QA SAMPLES							
Req		DI	Lab	Site	Bottle	Preserv	Col
	Field Blank				As specified above		
	Trip Blank				G, 2-40ml amb	4°C HCl	
	Matrix				G, 4-2 l amb	Cool 4°C	
	Matrix				P, 4-1 gal	Cool 4°C	
	Field Dupl.				As specified above		
	Equipment				As specified above		

③

FIELD MEASUREMENTS	
Q. Inst.: cfs meas. rating Est.	**Gage Ht.:** ft.
Staff:	**HWM:**
Peak Discharge:	**Other:**
pH: S.U.	**Water Temp.:** C°

SAMPLING CONDITIONS (Circle all that apply)	
Location:	wading bank station gage: at above below bridge: upstr., down str., side bridge ft mile, boat, ice, other (specify):
Sampling Site:	pool riffle open channel braided backwater sampler type:
Bottom:	bedrock rock cobble gravel sand mud concrete other (specify):
Stage Conditions:	Not determined Stable: normal low high Falling Rising Peak Other (specify:)
Hydraulic Event:	Routine Sampling Regular Flow Snowmelt Flood Drought Spill Ice cover: thickness inches Other (specify:)
Stream Color(s):	brown clear green blue gray other:
Weather:	Clear Partly cloudy Cloudy Hot Warm Cold Snow Rain: Light Medium Heavy Over Calm Light Breeze Windy Very Gusty
Stream Mixing:	Excellent Good Fair Poor

Visual Observations

Inspection Completed from sample within first half hour of flow:	Yes No

Reason if not within first half hour:________________________________

____

Provide Description

Odor:	Color:
Clarity:	Floating Solids
Settled Solids:	Suspended Solids:
Foam:	Oil Sheen:

Other indicators of possible storm water pollution:___________________

____

____

Other Observations: ____

____

____

____

____

Los Alamos National Laboratory
Water Quality and Hydrology Group (RRES-WQH)
Surface Water Sampling Field Sheet

④

(RRES-WQH-HCP-009.1, Attachment 3)

pH Meter Calibration/Measurement

Temperature	Thermometer Checked w/ASTM within $\pm$ 0.5 ^{0}C?	Yes	No	Date:	

Meter Make/Model:				Meter No.	
Electrode No.:			Electrode Type:		
pH Buffer	PH buffer Temp ^{0}C	Initial Reading	Standardized Reading	Remarks	Unfiltered sample ☐ Filtered sample ☐
___ . ____ ____					Auto temp compensated used: Yes No
___ . ____ ____					Temp correction applied to buffers: Yes No
___ . ____ ____					Stirrer Used? ☐ Yes ☐ No
___ . ____ ____					Magnetic or Manual

pH subsample from or pH measurement location **:**	Churn Sample bottle Single point at _________ station _______depth vertical avg. of __________ points

Sample Temp:	^{0}C	**Field pH:**	; ; ;	**Use:**	

Specific Conductance Meter Calibration/Measurement

Meter Make/Model:					Meter No.
Electrode No.:					
Standard Value	Standard Temp ^{0}C	Initial Reading	Adjusted Reading	Remarks	Correction Factor Applied? Yes No
					☐ Auto temp compensated meter
					☐ Manual temp compensated meter

SC subsample from or SC measurement location **:**	Churn Sample bottle Single point at _________ station ______depth vertical avg. of __________ points

Field Conductance:	; ; ;	**Use:**	

Turbidity Meter Calibration/Measurement

Meter Make/Model:	Meter No.
Turbidity measurement location or Turbidity subsample from:	Churn Sample bottle Single point at ________ station ____________depth vertical avg. of __________points
Calibration Date:	

Field Turbidity :	; ; ;	**Use:**	

Sample Preservative Information

Nitric Acid –	Lot #		**Sulfuric Acid –**	Lot #		**Hydrochloric Acid (VOA)**	
Nitric Acid –	Lot #		**Sulfuric Acid –**	Lot #		Lot #	
Nitric Acid –	Lot #		**Sodium Hydroxide –**	Lot #			

Calibration Remarks: ____

____

____

____

____

Los Alamos National Laboratory
Water Quality and Hydrology Group (RRES-WQH)
Surface Water Sampling Field Sheet

(RRES-WQH-HCP-009.1, Attachment 3)

5 Sample Identification Labels and Bar Codes		

ADDITIONAL OBSERVATIONS AND FIELD NOTES/SKETCHES

Los Alamos National Laboratory
Water Quality and Hydrology Group (RRES-WQH)
Surface Water Sampling Field Sheet

(RRES-WQH-HCP-009.1, Attachment 3)

⑥

Station Number:	Station Name:	Analytical Request Record Number:

Automated Sampler			
BOTTLE #	Date	Time	Comments (bottle type, volume, readings)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

Automated Sampler			
BOTTLE #	Date	Time	Comments (bottle type, volume, readings)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

Sampling event checked/reviewed by: Name and Initials		Date:

Relinquished By: Signature	Date	Time	Received By Signature	Date	Time

Los Alamos National Laboratory
Water Quality and Hydrology Group (RRES-WQH)
Surface Water Sampling Field Sheet

(RRES-WQH-HCP-009.1, Attachment 3)

Guidance for completing the form.

Print clearly -

1. **General information** -
   Station Name: Formal name of location where sample is collected. Ex: Los Alamos Below Ice Rink.

   Station Number: E name, location of sample collected. Ex: E026

   Sampled By: Person/persons collecting or retrieving samples

   Mean Time: Total time spent retrieving samples divided by one-half. Not real time, initial arrival at station. This should be Mountain Standard Time.

   Date: The month, day, year of personal retrieval of samples

   Analytical Request Record No: Number assigned to the set of samples. Assigned after retrieval.

   Sample Purpose: Circle the reason for the sample

2. **Sampling Reference Table**
   Req, Parameter, Bottle, Preserv, Coll.: A reference table for samples

3. **Field measurements and conditions** -

Field measurements -

Q. Inst.: Discharge, volume rate of flow, in units. How many cfs (cubic feet per second), actual measurement, rating, or estimation

Gage Ht: Point at which the water surface elevation is based on numbered gage staff. (unit = feet)

Staff: A reference point to measure gage height.

HWM: High water mark, the highest point the level of water flow. Usually seen as piled debris.

Peak Discharge: Largest volume of water flowing through sample site during a flow period.

pH: Hydrogen ion content. Water need in order to take measurement

Water Temp: Measurement of the temperature of the water. Water needed in order to take measurement. Measurement should be taken during the time of sample take.

Sample conditions -

Location: Type of area at which sample was taken. Ex: station gage, bank, boat.

Sampling Site: Type of area containing water. Ex: pool, riffle, open channel. An open channel consists of an uncontrolled waterway by artificial devices.

Sampler type: ie, ISCO, grab

Bottom: The sediment mixture of which a streambed, lake, pond, reservoir or estuary bottom is composed. Ex: rock, sand, concrete, etc.

Stage Conditions: Condition of water in the channel. Ex: rising, falling, stable, etc.

Hydraulic Event: Type of event. Ex: flood, snowmelt, routine sampling, etc.

Stream Color(s): Type or clarity of water being sampled. Ex: clear, brown, etc.

Weather: Conditions of external environment

Stream Mixing: Quality of suspended particles within the water. Good, Fair, Poor.

Visual observations – Requirement of the NPDES Storm Water Permit

Inspection Completed from sample with first half hour of flow: From start of flow a half hour pasted (yes/no)

Reason if not within first half hour: State reason as to why the sample was not taken. Ex: after work hours.

Provide description -

Odor: Can a smell be detected? If yes, describe.

Clarity: Transparency of the water.

Settled Solids: Amount of sediment collected at the bottom of sampled liquid. (unit = mm/inches)

Foam: Collection of froth, bubbles, etc. if any.

Color: Ex: brown, clear, gray, etc.

Floating Solids: Anything floating on the surface of the sample. Ex: debris, pine needles, etc.

Suspended Solids: Anything floating within the sample. Ex: debris.

Oil Sheen: The presence of oil within or upon the surface of the sample. Appears as a rainbow of colors, prismatic.

Other indicators of possible storm water pollution: Any other description of the sample not covered by the above categories.

Other Observations: Fill in as necessary to other conditions, concerns about the sample.

4. **Calibration/Measurements** – Original calibration conducted prior to leaving for the field. This is for field calibration.

pH Meter calibration

Temperature: Temperature at which the pH meter was calibrated. Use the Automated Temperature Compensations (ATC) provide by the meter.

Thermometer Checked with a certified thermometer? Yes/ No circle one. Provide a check with a certified thermometer routinely and provide reference number.

Meter Make/Model: Brand and model number of the meter used

Meter No.: Individual number of the meter. Ex: esh-1 or RRES-WQH1

Electrode No.: If applicable, electrode may not have number, no place for label.

Electrode Type: Make or kind of electrode. Ex: Beckman

pH Buffer: Level of buffer used to calibrate the meter. Ex: 4, 7, 10

pH Buffer Temp C: Temperature of the buffer in degrees Celsius.

pH Measurement

Initial Reading: First reading of the liquid before standardization.

Standardized Reading: Reading after the meter has calibrated to the buffer.

Unfiltered/Filtered Sample: Pertains to the sample collected in the field. Check Yes or No.

pH subsample from or pH measurement location: Where was the sample taken from the channel - directly or from liquid sampled automatically? EX: ISCO sampler. Most samples are taken at a single point. Use station name or station number. Note depth and number of average samples points. Ex: E# (stormwater), S# (sediment) etc.

Sample Temp: Temperature of the sample used for pH parameters, in Celsius.

Field pH: pH of the field sample. Space is provided for four different samples.

Use: Indicates which pH value reading to be recorded.

Specific conductance meter calibration/measurement

Meter Make/Model: Brand and model number of the meter used.

Meter No: Individual number of the meter. Ex: esh-1 or RRES-WQH1

Electrode No: If applicable, note individual number of electrode.

Standard Value: Value of the standard used.

Standard Temp: Temperature at which calibration took place in degrees Celsius.

Initial Reading: Reading before standardization of meter.

Adjusted Reading: Reading after standardization of meter.

Correction Factor Applied: Yes/No

SC subsample from or SC measurement location: Where the sample was taken, channel directly. Most samples are taken at a single point ie: station E# note dept and number of average samples points.

Field Conductance: evel of conductance of the field sample.

Use: Indicates which value to be recorded.

Turbidity meter calibration

Meter Make/Model: Brand and model number of the meter used.

Meter No: Individual number of the meter.

Turbidity measurement location or Turbidity subsample from: Location of the sample used to determine the turbidity - the channel directly or from an individual sample. Most samples are taken at a single point us E# (station). Note depth and number of average sample points. Single point is synonymous with a grab sample.

Field Turbidity: Value of the field sample.

Use: Indicates which value to be recorded.

Sample preservation information

Nitric Acid: Provide amount used and Lot#.

Sulfuric Acid: Provide amount used and Lot#.

Sodium Hydroxide: Provide amount used and Lot#.

Hydrochloric Acid (VOA): Provide the lot #, 40ml VOAs purchased prepreserved. Note: the preservatives are specified on the sample request/COC forms.

Calibration Remarks: Provide date meters calibrated and where calibration information is. Note anything pertain to the calibration or parameters taken.

5. **Sample Identification Labels and Bar Codes** - Attached any sample labels for field notebook here.

   Additional Observations and Field Notes/Sketches - Provide any sketches or diagrams of the location. Indicate if any photographs were taken and note other observations if necessary.

6. **Sample Retrieval**

Automated Sampler: Ex: ISCO sampler

Bottle #: Corresponds to bottle number with in the ISCO sampler.

Date: Month, day, year the sample was collected by the ISCO sampler; not the person retrieving the bottles. This information may be retrieved from the ISCO sampler.

Time: Hour and minutes the sample was collected by the ISCO sampler. This information may be retrieved from the ISCO sampler. Time is Mountain Standard Time.

Comments: Note the type of bottle the sample was collected with in (ex: poly, amber glass, or clear glass). Volume: 500 ml, 1 L, 250ml, etc. Include readings and any miscellaneous notes.

Sampling event checked/reviewed by: Checked by someone other than the person who collected and completed sheet. Sheet is checked for quality and correctness. Corrected for Mountain Standard Time, etc.

Relinquished By: Refers to the person in possession of the samples maintaining chain-of-custody

Received By: Refers to the person taking possession of the samples from the relinquished person, while maintaining chain-of-custody. Ex: the collector gives samples to SMO.

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BMP Inspection and Maintenance Form

Site or Project Name:____

Inspector:______________________________________ Date: _______________

_______ Days since last rainfall, on ________ Amount of last rainfall ________ (Inches)

Circle one: Site rain guage Metrological Tower ____________

Complete the table below with the applicable YES, NO, or N/A.

	List BMP type and location	BMP Installed Correctly	Evidence of -	Storm Water Runoff	Sediment transport	Erosion	Has damage occurred since the last inspection?	Is maintenance required?	Is there accumulated sediment?	Does accumulated sediment require removal?	Is there evidence of other potential pollutant sources?	Comments
1)												
2)												
3)												
4)												
5)												

* All Observations from the table need to be explained below:

Observations: ____

____

____

____

____

Maintenance Required: ____

____

____

____

____

Inspector's Signature: ________________________________ Date:_______________

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COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT

Name of Facility:________________________________ **Date of Inspection:**______________________

Describe Specific Evaluation Location (if only evaluating part of the facility)**:**______________________

____

Frequency of Inspection:

❒ Monthly ❒ Quarterly ❒ Semi-Annual ☒ Annual ❒ Other

Name of Inspector(s):____

____

Inspector Qualifications: ____

____

Scope:

This comprehensive site compliance evaluation shall include the inspection of all areas where industrial materials or activities are exposed to storm water, areas where spills and leaks have occurred within the past 3 years, and areas where storm water discharges have the potential to impact down gradient activities such as critical habitat and National Historic Preservation sites. Such inspections include, but are not limited to, identification of:

I. Industrial material, residues, or trash on the ground that could contaminate or be washed away in storm water
II. Leaks or spills
III. Off-site vehicle tracking
IV. Migration of raw, final, or waste material to areas exposed to storm water
V. Evidence of, or the potential for, pollutants entering the facility's storm drain system
VI. Effectiveness of storm water management measures and other BMPs identified in the plan

In addition, the completeness and implementation of the SWPP Plan shall also be evaluated.

Major Observations:____

____

____

____

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____

Follow-up Actions Required: ____

____

____

____

____

Incidents of Non-compliance: ____

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____

Noteworthy Accomplishments: ____

____

____

____

____

____

Comments: ____

____

____

____

____

____

Following the completion of the inspection, answer the following questions with Yes/No:

_________ Must the SWPPP be updated?

_________ Are New BMPs or Modifications of BMPs Required?

_________ Is a report for follow-up action required?

COMPREHENSIVE SITE COMPLIANCE EVALUATION

Certification Statement

Based on compliance of the site, decide which of the following two paragraphs must be used. The final paragraph on this page (the certification paragraph) must be used in both cases. Once complete, delete the unused paragraph and the instructions from this page.

This facility,______________________________, was inspected on ,___________________, and there were no observed incidents of non-compliance with the Storm Water Pollution Prevention Plan. I am certifying that this facility is in compliance with its Storm Water Pollution Prevention Plan and the General Permit.

OR

This facility,______________________________, was inspected on ,___________________, and there were observed incidents of non-compliance with the Storm Water Pollution Prevention Plan as described above under “Incidents of Non-compliance”. These incidences must be corrected before the next anticipated storm event, if practicable, but not more than twelve (12) weeks after the date of this inspection.

AND

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name: ____

Title: ____

Signature: ____ Date: ____________

COMPREHENSIVE SITE COMPLIANCE EVALUATION
CHECKLIST OF
AREAS REQUIRED TO BE EVALUATED

Please use the enclosed list to ensure that each area is thoroughly inspected. Place a checkmark in each box as the corresponding topic is observed. Record major observations related to the implementation of the SWPP Plan, actions taken, incidents of non-compliance, and noteworthy accomplishments in their appropriate places above. Throughout the evaluation, consider the results of both visual and analytical monitoring done during the year.

SWPP PLAN EVALUATION

Ensure that all necessary procedures are described in the SWPP. Evaluate the effectiveness of existing programs or procedures to reduce pollutant loadings into storm water discharges, ensure these programs and procedures are implemented correctly, and determine whether additional programs or procedures are needed. The following programs should be evaluated:

Good Housekeeping

❒ Check that plan describes good housekeeping procedures (storage practices, material inventory, routine area cleanup, organized work areas, operation/maintenance of equipment, and routine inspections for leaks and the condition of storage containers)

Preventive Maintenance

❒ Check that there is an active preventive maintenance program to comply with the SWPPP
❒ Make sure that the current PM program includes periodic inspections and testing, as well as records of inspections and of maintenance on equipment and systems

Visual and Analytical Monitoring

❒ Ensure that there is an existing quarterly storm water visual inspection program
❒ Ensure that there is an existing annual non-storm water visual inspection program
❒ Check that inspections are documented in the SWPPP
❒ Check that there are follow-up procedures

Employee Training

❒ Check that training is provided on spill response, good housekeeping, material management, preventive maintenance, and components and goals of the SWPPP
❒ Make sure there is a schedule for periodic training

Review and Revisions

- ❐ Check for procedures describing the review and revision of the Plan
- ❐ Check that Pollution Prevention Team Members are current
- ❐ Ensure that the description of potential pollutant sources is still accurate
- ❐ Make sure that the spills table has been updated
- ❐ Check that the site maps are current
- ❐ Check that the plan is certified by the person designated in the signatory letter
- ❐ Review the plan to see that it has been revised to reflect the October 2000 permit. Make sure that it includes a copy of the regulations and a new permit number. (This is a one-time check.)

SITE EVALUATION

Observe structural control measures, erosion control measures and/or other pollution prevention measures identified in the Plan to ensure that they are adequate and functioning correctly. Also look for general cleanliness and evidence of spills, leaks, tracking of materials, and potential pollutants. The following programs should be evaluated:

I. Storage and handling of industrial material, residues, and trash

- ❐ Check that all trash containers, storage areas, and loading docks are orderly and are regularly cleaned
- ❐ Check that there are no industrial materials, residue, or trash on the ground that could contaminate storm water
- ❐ Note that all other areas are clean and orderly

II. Leaks or Spills

- ❐ Look for new spills or leaks since the last inspection. Pay close attention to industrial equipment; drums, barrels, tanks and other similar containers; chemicals usage locations and any other susceptible locations
- ❐ Look for new high-risk areas
- ❐ Look for new non-storm water discharges

III. Vehicle Tracking

- ❐ Look for evidence of offsite tracking of industrial materials or sediment where vehicles enter or exit the site

IV. Migration of Raw, Final, or Waste Material

- ❐ Look for areas where raw, final, or waste material has been blown, tracked, or carried from areas of no exposure to areas exposed to storm water

V. Evidence of, or the Potential for, Pollutants Entering the Drainage System

Look for pollutants and potential pollutants in new areas, materials or physical features including

- ❒ Loading/unloading areas
- ❒ Outdoor storage
- ❒ Outdoor manufacturing or processing
- ❒ Dust or particulate generating processes
- ❒ On-site waste disposal activities
- ❒ Transportation or conveyance activities
- ❒ SWMUs
- ❒ Other areas, please describe: ______________________________

VI. Storm Water Management Measures

- ❒ Look for new areas of erosion or the potential for erosion
- ❒ Make sure erosion controls are provided for storm water and other discharges
- ❒ See that runoff control structures are in place
- ❒ Ensure that vegetated areas are maintained
- ❒ Inspect discharge points, where accessible, to see whether BMPs are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, inspect downstream locations.
- ❒ Note locations of BMPs that require maintenance or have proven inadequate. Also note any locations where additional BMPs are needed.
- ❒ Look for areas where storm water discharges have the potential to impact down gradient activities such as critical habitat and National Historic Preservation sites
- ❒ Note any other observations about storm water management and sediment and erosion control

Appendix 5.

Sites with Low Potential (<40) to Impact Surface Water Quality

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Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
01-002(a)-00	Septic tank				Los Alamos/Pueblo	Pueblo
16-017(g)-99	Former HE structure				Water/Canon de Valle	Canon de Valle
00-001	Sediment traps in Mortandad Canyon			22.6	Mortandad	Middle Mortandad/Ten-Site
00-004	Container storage, 6th Street Warehouses (inactive)	00-030(b)-00	Former structures, 6th Street warehouse	10.6	Los Alamos/Pueblo	Middle Los Alamos
00-011(a)	Mortar impact area			10.5	Los Alamos/Pueblo	Rendija/Barrancas/Guaje
00-011(c)	Mortar impact area			36.8	Los Alamos/Pueblo	Rendija/Barrancas/Guaje
00-011(e)	Mortar impact area			10.5	Los Alamos/Pueblo	Rendija/Barrancas/Guaje
00-015	Firing range, Rendija Canyon			39.5	Los Alamos/Pueblo	Rendija/Barrancas/Guaje
00-018(b)	Sludge-bed wastewater treatment plant				Los Alamos/Pueblo	Pueblo
00-027	Storage area, DP Road				Los Alamos/Pueblo	Middle Los Alamos
00-030(a)	Septic system, DP Road			8.8	Los Alamos/Pueblo	Middle Los Alamos
00-030(b)	Septic system 6th Street (inactive)	00-030(b)-00	Former structures, 6th Street warehouse	17.5	Los Alamos/Pueblo	Middle Los Alamos
00-030(d)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(eN)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(eS)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(f)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(h)	Septic system (near new Catholic Church)				Los Alamos/Pueblo	Pueblo
00-030(j)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(l)	Septic system, 6th Street warehouses (inactive)	00-030(b)-00	Former structures, 6th Street warehouse	22.3	Los Alamos/Pueblo	Middle Los Alamos
00-030(m)	Septic system, 6th Street warehouses (inactive)	00-030(b)-00	Former structures, 6th Street warehouse	17.5	Los Alamos/Pueblo	Middle Los Alamos
00-030(n)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(o)	Septic system				Los Alamos/Pueblo	Pueblo
00-030(p)	Septic system			3.6	Los Alamos/Pueblo	Pueblo
00-031(b)	Soil contamination beneath former motorpool (two USTs)				Los Alamos/Pueblo	Upper Los Alamos
00-033(a)	Former UST, 6th Street Warehouses			3.6	Los Alamos/Pueblo	Middle Los Alamos
00-033(b)	Outlet piping, 6th Street warehouse	00-030(b)-00	Former structures, 6th Street warehouse	10.6	Los Alamos/Pueblo	Middle Los Alamos
00-039	Underground tanks			10.6	Los Alamos/Pueblo	Pueblo
01-001(a)	Septic Tank 134	01-001(a)-99	Miscellaneous - TA-01	27.5	Los Alamos/Pueblo	Upper Los Alamos
01-001(b)	Septic Tank 135	01-001(a)-99	Miscellaneous - TA-01	30.5	Los Alamos/Pueblo	Upper Los Alamos
01-001(e)	Septic Tank 139	01-001(a)-99	Miscellaneous - TA-01	10.6	Los Alamos/Pueblo	Upper Los Alamos

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
01-001(g)	Septic Tank 141	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-001(o)	Industrial or sanitary wastewater treatment	01-001(a)-99	Miscellaneous - TA-01	15.8	Los Alamos/Pueblo	Upper Los Alamos
01-001(s)	Septic system waste line	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
01-001(t)	Septic system	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
01-001(u)	Septic system waste line	01-001(a)-99	Miscellaneous - TA-01	15.8	Los Alamos/Pueblo	Upper Los Alamos
01-003(b)	Surface disposal site	01-001(a)-99	Miscellaneous - TA-01		Los Alamos/Pueblo	Upper Los Alamos
01-006(a)	Drainlines and outfall	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-006(e)	Drainlines and outfall	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-006(g)	Drainlines and outfall	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-006(h)	Drainlines and outfall	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-006(o)	Storm drain system	01-001(a)-99	Miscellaneous - TA-01	20.5	Los Alamos/Pueblo	Upper Los Alamos
01-007(a)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
01-007(b)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
01-007(c)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
01-007(d)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	10.6	Los Alamos/Pueblo	Upper Los Alamos
01-007(e)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	15.8	Los Alamos/Pueblo	Upper Los Alamos
01-007(j)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	8.8	Los Alamos/Pueblo	Upper Los Alamos
01-007(l)	Soil contamination area	01-001(a)-99	Miscellaneous - TA-01	3.6	Los Alamos/Pueblo	Upper Los Alamos
02-003(b)	Condensate trap			39.5	Los Alamos/Pueblo	Middle Los Alamos
02-003(c)	Delay system				Los Alamos/Pueblo	Middle Los Alamos
02-003(d)	Gaseous effluent line			27.8	Los Alamos/Pueblo	Middle Los Alamos
02-004(a)	Omega West Reactor facility				Los Alamos/Pueblo	Middle Los Alamos
02-004(b)	Reactor facility effluent storage tank				Los Alamos/Pueblo	Middle Los Alamos
02-004(c)	Reactor facility effluent storage tank			39.5	Los Alamos/Pueblo	Middle Los Alamos
02-004(d)	Reactor facility effluent storage tank				Los Alamos/Pueblo	Middle Los Alamos
02-004(e)	Reactor facility acid pit				Los Alamos/Pueblo	Middle Los Alamos
02-004(f)	Reactor facility equipment building				Los Alamos/Pueblo	Middle Los Alamos
02-004(g)	Aboveground tank				Los Alamos/Pueblo	Middle Los Alamos
02-005	Drift loss, cooling tower blowdown			19.6	Los Alamos/Pueblo	Middle Los Alamos
02-006(a)	French drain			15.3	Los Alamos/Pueblo	Middle Los Alamos
02-006(c)	Drainline			15.6	Los Alamos/Pueblo	Middle Los Alamos
02-006(d)	Drainline			15.6	Los Alamos/Pueblo	Middle Los Alamos
02-006(e)	Sump			15.6	Los Alamos/Pueblo	Middle Los Alamos
02-008(c)	Outfall			20.8	Los Alamos/Pueblo	Middle Los Alamos

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
02-009(d)	Non-intentional release			20.8	Los Alamos/Pueblo	Middle Los Alamos
02-009(e)	Non-intentional release [Duplicate of 02-009(c)]				Los Alamos/Pueblo	Middle Los Alamos
02-010	Former building location			15.6	Los Alamos/Pueblo	Middle Los Alamos
02-011(b)	Former drains and outfalls			22.6	Los Alamos/Pueblo	Middle Los Alamos
02-011(c)	Storm drain			20.8	Los Alamos/Pueblo	Middle Los Alamos
02-011(d)	Former NPDES-permitted outfall			20.8	Los Alamos/Pueblo	Middle Los Alamos
02-011(e)	Former NPDES-permitted outfall [duplicate of 02-008(a)]			31.8	Los Alamos/Pueblo	Middle Los Alamos
02-012	Former underground tanks				Los Alamos/Pueblo	Middle Los Alamos
03-001(e)	Less-than-90-day storage				Pajarito	Twomile
03-001(i)	Satellite accumulation area				Sandia	Upper Sandia
03-001(k)	Less-than-90-day-storage area			10.6	Pajarito	Twomile
03-002(c)	Storage area			15.3	Sandia	Upper Sandia
03-003(a)	Storage area			25.1	Pajarito	Twomile
03-003(b)	Storage area			22.3	Pajarito	Twomile
03-003(c)	Equipment storage area - PCB only site			3.6	Sandia	Upper Sandia
03-003(l)	Storage area				Pajarito	Twomile
03-003(n)	Storage area - PCB only site	03-059-00	Storage area		Sandia	Upper Sandia
03-003(p)	Storage area			21	Pajarito	Twomile
03-004(c)	Storage area			3.6	Mortandad	Upper Mortandad
03-004(d)	Storage area			15.8	Mortandad	Upper Mortandad
03-007	Firing site			8.8	Mortandad	Upper Mortandad
03-009(i)	Surface disposal site			26.7	Sandia	Upper Sandia
03-009(j)	Surface disposal site			3.6	Los Alamos/Pueblo	Upper Los Alamos
03-011	Systematic product release			38.6	Pajarito	Twomile
03-013(i)	Operational release				Sandia	Upper Sandia
03-014(a)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(a2)	Wastewater treatment facility				Pajarito	Twomile
03-014(b)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(c)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia
03-014(d)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(e)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia
03-014(f)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(g)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
03-014(h)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia
03-014(i)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia
03-014(j)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	21	Sandia	Upper Sandia
03-014(k)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(l)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(m)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(n)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-014(o)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	11.8	Sandia	Upper Sandia
03-014(p)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	3.6	Sandia	Upper Sandia
03-014(q)	Wastewater treatment facility	03-012(b)-00	Miscellaneous - TA-03 power plant	14	Sandia	Upper Sandia
03-014(r)	Wastewater treatment facility			20.5	Sandia	Upper Sandia
03-014(s)	Wastewater treatment facility			8.8	Sandia	Upper Sandia
03-014(t)	Wastewater treatment facility			3.6	Pajarito	Twomile
03-014(u)	Wastewater treatment facility	03-014(a)-99	Wastewater treatment plant	30.5	Sandia	Upper Sandia
03-014(v)	Wastewater treatment facility				Sandia	Upper Sandia
03-014(w)	Wastewater treatment facility				Mortandad	Upper Mortandad
03-014(x)	Wastewater treatment facility				Mortandad	Upper Mortandad
03-014(y)	Wastewater treatment facility				Sandia	Upper Sandia
03-014(z)	Wastewater treatment facility				Pajarito	Twomile
03-015	Outfall	03-015-00	Drainlines and outfall	3.6	Sandia	Upper Sandia
03-021	Surface disposal site			39.8	Sandia	Upper Sandia
03-022	Sump			8.8	Pajarito	Twomile
03-025(b)	Sumps (two, inactive and active)			3.6	Pajarito	Twomile
03-025(c)	Tank and/or associated equipment				Pajarito	Twomile
03-026(a)	Sump				Mortandad	Upper Mortandad
03-026(c)	Tank and/or associated equipment				Mortandad	Upper Mortandad
03-026(d)	Tank and/or associated equipment			3.6	Pajarito	Twomile
03-027	Separation site				Sandia	Upper Sandia
03-028	Surface impoundment	03-009(a)-00	Asphalt batch plant	8.8	Sandia	Upper Sandia
03-031	Tanks and/or associated equipment				Mortandad	Upper Mortandad
03-033	Sump			34	Pajarito	Twomile
03-034(a)	Tank and/or associated equipment, radioactive liquid waste tanks				Mortandad	Upper Mortandad
03-034(b)	Tank and/or associated equipment			39	Mortandad	Upper Mortandad
03-036(a)	Aboveground tanks	03-009(a)-00	Asphalt batch plant	8.8	Sandia	Upper Sandia

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
03-036(b)	Aboveground tanks				Sandia	Upper Sandia
03-036(c)	Aboveground tanks - duplicate of 03-043(f)	03-009(a)-00	Asphalt batch plant	8.8	Sandia	Upper Sandia
03-036(d)	Aboveground tanks - duplicate of 3-043(g)	03-009(a)-00	Asphalt batch plant	8.8	Sandia	Upper Sandia
03-037	Underground tank			3.6	Sandia	Upper Sandia
03-038(a)	Acid tank	03-038(a)-00	Tanks and/or associated equipment	8.8	Los Alamos/Pueblo	Upper Los Alamos
03-038(b)	Acid tank	03-038(a)-00	Tanks and/or associated equipment	35.5	Los Alamos/Pueblo	Upper Los Alamos
03-038(f)	Waste lines				Pajarito	Twomile
03-042	Sump			29.8	Pajarito	Twomile
03-043(b)	Aboveground tank	03-009(a)-00	Asphalt batch plant	19.8	Sandia	Upper Sandia
03-043(c)	Tank and/or associated equipment			3.6	Pajarito	Twomile
03-043(d)	Aboveground tank	03-009(a)-00	Asphalt batch plant	19.8	Sandia	Upper Sandia
03-043(h)	Aboveground tank	03-009(a)-00	Asphalt batch plant	19.8	Sandia	Upper Sandia
03-045(a)	Outfall (industrial or sanitary wastewater treatment)			7.6	Sandia	Upper Sandia
03-045(e)	Outfall (industrial or sanitary wastewater treatment)			17	Sandia	Upper Sandia
03-045(f)	Outfall from drain (industrial or sanitary wastewater treatment)			3.6	Sandia	Upper Sandia
03-045(g)	Storm drain	03-009(a)-00	Asphalt batch plant	34.3	Sandia	Upper Sandia
03-045(h)	Outfall (industrial or sanitary wastewater treatment)	03-045(h)-00	Drainlines and outfalls	38.3	Mortandad	Upper Mortandad
03-046	Above ground wastewater treatment tank			3.6	Sandia	Upper Sandia
03-047(d)	Storage area			15.3	Sandia	Upper Sandia
03-049(a)	Outfall	03-045(h)-00	Drainlines and outfalls	36.8	Mortandad	Upper Mortandad
03-049(b)	Operational release	03-049(b)-00	Miscellaneous	3.6	Mortandad	Upper Mortandad
03-049(e)	Outfall			10.6	Mortandad	Upper Mortandad
03-050(a)	Exhaust emissions, off-gas scrubber of HEPA filter system	03-050(a)-00	Soil contamination		Mortandad	Upper Mortandad
03-050(d)	Exhaust emissions, off-gas scrubber of HEPA filter system	03-050(a)-00	Soil contamination	3.6	Pajarito	Twomile
03-050(f)	Exhaust emissions, off-gas scrubber of HEPA filter system	03-050(a)-00	Soil contamination	3.6	Pajarito	Twomile
03-050(g)	Exhaust emissions, off-gas scrubber of HEPA filter system	03-050(a)-00	Soil contamination	3.6	Pajarito	Twomile
03-051(c)	Soil contamination (vacuum pump leaking)			12.7	Sandia	Upper Sandia
03-052(a)	Storm drainage	03-052(a)-00	Drainlines and outfalls	34.6	Pajarito	Twomile

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
03-052(b)	Storm drainage			39.8	Sandia	Upper Sandia
03-052(e)	Storm drainage	03-052(a)-00	Drainlines and outfalls	10.6	Pajarito	Twomile
03-053	Operational facility	03-015-00	Drainlines and outfall		Sandia	Upper Sandia
03-054(c)	Outfall			3.6	Sandia	Upper Sandia
03-055(c)	Outfall				Los Alamos/Pueblo	Upper Los Alamos
03-056(a)	Storage area			3.6	Sandia	Upper Sandia
03-056(d)	Drum storage	03-014(a)-99	Wastewater treatment plant	8.8	Sandia	Upper Sandia
03-056(k)	Container storage area			3.6	Sandia	Upper Sandia
03-056(l)	Drum storage			10.6	Sandia	Upper Sandia
03-059	Storage area - PCB only site	03-059-00	Storage area	10.6	Sandia	Upper Sandia
05-002	Canyonside disposal	05-001(a)-99	Firing site - Beta Site	23.5	Mortandad	Middle Mortandad/Ten-Site
05-003	Former calibration chamber			8.8	Mortandad	Lower Mortandad/Cedro
06-001(a)	Septic system			3.6	Pajarito	Twomile
06-001(b)	Septic system			3.6	Pajarito	Twomile
06-002	Septic system (TA-6-41) receives wastewater from PRSs 06-003 and C-06-020.	06-002-00	Firing site - eastern aggregate	3.6	Pajarito	Twomile
06-003(a)	Firing site (inactive)	06-003(a)-99	Former firing site	3.6	Pajarito	Twomile
06-003(c)	Firing site used for water recovery shots (inactive)	06-002-00	Firing site - eastern aggregate	3.6	Pajarito	Twomile
06-003(d)	Firing site (inactive)			20.5	Pajarito	Twomile
06-003(e)	Firing site (inactive)			14	Pajarito	Twomile
06-003(f)	Firing site (inactive)			8.8	Pajarito	Twomile
06-003(h)	Firing site (inactive)			3.6	Pajarito	Twomile
06-005	Firing site (pit) (inactive)	06-007(a)-99	Material disposal area (MDA F)	8.8	Pajarito	Twomile
06-006	Storage area			25.1	Pajarito	Twomile
06-007(a)	Material disposal area (MDA F)	06-007(a)-99	Material disposal area (MDA F)	15.8	Pajarito	Twomile
06-007(b)	Landfill	06-007(a)-99	Material disposal area (MDA F)	15.8	Pajarito	Twomile
06-007(c)	Landfill	06-007(a)-99	Material disposal area (MDA F)	15.8	Pajarito	Twomile
06-007(d)	Landfill	06-007(a)-99	Material disposal area (MDA F)	15.8	Pajarito	Twomile
06-007(e)	Landfill	06-007(a)-99	Material disposal area (MDA F)	15.8	Pajarito	Twomile
06-007(f)	Surface disposal			15.3	Pajarito	Twomile
06-008	Underground tank	06-003(a)-99	Former firing site	8.8	Pajarito	Twomile
07-001(a)	Firing site (inactive)	07-001(a)-99	Former firing sites	33.9	Pajarito	Twomile
08-001(a)	Off-gas system				Pajarito	Starmer/Upper Pajarito
08-001(b)	Off-gas system				Pajarito	Starmer/Upper Pajarito

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
08-002	Firing site			34.6	Pajarito	Starmer/Upper Pajarito
08-003(a)	Septic system	08-003(a)-00	Septic system, drainlines, and outfall	22.3	Pajarito	Starmer/Upper Pajarito
08-004(a)	Floor drain	08-003(a)-00	Septic system, drainlines, and outfall	22.3	Pajarito	Starmer/Upper Pajarito
08-004(b)	Drainline	08-003(a)-00	Septic system, drainlines, and outfall	22.3	Pajarito	Starmer/Upper Pajarito
08-004(c)	Floor drain			22.3	Pajarito	Starmer/Upper Pajarito
08-004(d)	Drain			3.6	Water/Canon de Valle	Canon de Valle
08-009(a)	Industrial or sanitary wastewater treatment	08-003(a)-00	Septic system, drainlines, and outfall	17.5	Pajarito	Starmer/Upper Pajarito
08-009(c)	Storm drain and outfall			27.5	Pajarito	Starmer/Upper Pajarito
08-009(e)	Industrial or sanitary wastewater treatment			17.5	Pajarito	Starmer/Upper Pajarito
09-001(a)	Firing sites (inactive)	09-001(a)-99	Former firing site structures	8.8	Pajarito	Starmer/Upper Pajarito
09-001(b)	Firing sites (inactive)	09-001(a)-99	Former firing site structures	8.8	Pajarito	Starmer/Upper Pajarito
09-001(c)	Firing site (inactive)			14	Pajarito	Starmer/Upper Pajarito
09-001(d)	Firing sites (inactive)			8.8	Pajarito	Starmer/Upper Pajarito
09-002	Burn pit			3.6	Pajarito	Starmer/Upper Pajarito
09-003(a)	Settling tank	09-003(a)-99	Settling tanks and basket pit associated with Building 09-14	15.6	Pajarito	Starmer/Upper Pajarito
09-003(b)	Settling tank	09-003(a)-99	Settling tanks and basket pit associated with Building 09-14	15.6	Pajarito	Starmer/Upper Pajarito
09-003(d)	Settling tank			8.8	Pajarito	Starmer/Upper Pajarito
09-003(e)	Settling tank	09-003(a)-99	Settling tanks and basket pit associated with Building 09-14	15.6	Pajarito	Starmer/Upper Pajarito
09-003(g)	Potentially contaminated soil			8.8	Pajarito	Starmer/Upper Pajarito
09-003(h)	Potentially contaminated soil			8.8	Pajarito	Starmer/Upper Pajarito
09-003(i)	Potentially contaminated soil			22.3	Pajarito	Starmer/Upper Pajarito
09-004(a)	Settling tank	09-004(a)-99	Settling tanks	3.6	Pajarito	Starmer/Upper Pajarito
09-004(b)	Settling tank	09-004(a)-99	Settling tanks	14.6	Pajarito	Starmer/Upper Pajarito
09-004(c)	Settling tank	09-004(a)-99	Settling tanks	27.5	Pajarito	Starmer/Upper Pajarito
09-004(d)	Settling tank	09-004(a)-99	Settling tanks	26.3	Pajarito	Starmer/Upper Pajarito
09-004(e)	Settling tank	09-004(a)-99	Settling tanks	15.8	Pajarito	Starmer/Upper Pajarito
09-004(f)	Settling tank	09-004(a)-99	Settling tanks	10.6	Pajarito	Starmer/Upper Pajarito
09-004(h)	Settling tank	09-004(a)-99	Settling tanks	10.6	Pajarito	Starmer/Upper Pajarito
09-004(i)	Settling tank	09-004(a)-99	Settling tanks	15.8	Pajarito	Starmer/Upper Pajarito
09-004(j)	Settling tank	09-004(a)-99	Settling tanks	10.6	Pajarito	Starmer/Upper Pajarito
09-004(k)	Settling tank	09-004(a)-99	Settling tanks	15.8	Pajarito	Starmer/Upper Pajarito
09-004(l)	Settling tank	09-004(a)-99	Settling tanks	15.3	Pajarito	Starmer/Upper Pajarito

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
09-004(m)	Settling tank	09-004(a)-99	Settling tanks	22.3	Pajarito	Starmer/Upper Pajarito
09-004(n)	Settling tank	09-004(a)-99	Settling tanks	3.6	Pajarito	Starmer/Upper Pajarito
09-005(d)	Septic system	09-008(b)-99	Septic tanks and sewage oxidation pond	8.8	Pajarito	Starmer/Upper Pajarito
09-006	Septic tank			22.6	Pajarito	Starmer/Upper Pajarito
09-008(b)	Surface impoundment	09-008(b)-99	Septic tanks and sewage oxidation pond	30.3	Pajarito	Starmer/Upper Pajarito
09-010(a)	Storage area				Pajarito	Starmer/Upper Pajarito
09-010(b)	Storage area				Pajarito	Starmer/Upper Pajarito
09-011(c)	Storage area			10.6	Pajarito	Starmer/Upper Pajarito
09-012	Disposal pit				Pajarito	Starmer/Upper Pajarito
09-014	Camera mount				Pajarito	Starmer/Upper Pajarito
10-001(a)	Firing site (inactive)	10-001(a)-99	Firing sites (inactive)	15.6	Los Alamos/Pueblo	Bayo
10-001(b)	Firing site (inactive)	10-001(a)-99	Firing sites (inactive)	15.6	Los Alamos/Pueblo	Bayo
10-001(c)	Firing site (inactive)	10-001(a)-99	Firing sites (inactive)	20.8	Los Alamos/Pueblo	Bayo
10-001(d)	Firing site (inactive)	10-001(a)-99	Firing sites (inactive)	20.8	Los Alamos/Pueblo	Bayo
10-002(a)	Disposal pit	10-002(a)-99	Former liquid disposal complex	26	Los Alamos/Pueblo	Bayo
10-002(b)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(a)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(b)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(c)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(d)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(e)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(f)	Disposal pit	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(g)	Manholes	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(h)	Manholes	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(i)	Septic tank	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(j)	Tank	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(k)	Tank	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(l)	Tank	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(m)	Waste line	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(n)	Leach field	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-003(o)	Leach field	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-004(a)	Septic tank			26	Los Alamos/Pueblo	Bayo
10-004(b)	Septic system	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-005	Surface disposal	10-001(a)-99	Firing sites (inactive)	27.8	Los Alamos/Pueblo	Bayo

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
10-006	Burn site				Los Alamos/Pueblo	Bayo
10-007	Landfill	10-002(a)-99	Former liquid disposal complex	27.8	Los Alamos/Pueblo	Bayo
10-008	Tree Rimmed Firing Point, Bayo Canyon (inactive)	10-001(a)-99	Firing sites (inactive)	31.8	Los Alamos/Pueblo	Bayo
10-009	Former Bayo Canyon landfill			20.5	Los Alamos/Pueblo	Bayo
11-001(a)	Firing site (inactive)	11-006(a)-99	Former firing site	3.6	Water/Canon de Valle	S-Site (Martin)
11-001(b)	Firing site (inactive)			22.7	Water/Canon de Valle	S-Site (Martin)
11-002	Burn site	11-006(a)-99	Former firing site	15.3	Water/Canon de Valle	S-Site (Martin)
11-005(a)	Septic system			23.5	Water/Canon de Valle	S-Site (Martin)
11-005(b)	Septic system			8.8	Water/Canon de Valle	S-Site (Martin)
11-006(a)	Sump	11-006(a)-99	Former firing site	10.6	Water/Canon de Valle	S-Site (Martin)
11-009	Material disposal area (MDA S)			8.8	Water/Canon de Valle	Upper Water
11-011(a)	Industrial or sanitary wastewater treatment	11-011(a)-00	Outfalls	19.3	Water/Canon de Valle	S-Site (Martin)
11-011(b)	Industrial or sanitary wastewater treatment	11-011(a)-00	Outfalls	19.3	Water/Canon de Valle	S-Site (Martin)
11-011(d)	Industrial or sanitary wastewater treatment			8.8	Water/Canon de Valle	S-Site (Martin)
11-012(b)	Building			15.3	Water/Canon de Valle	S-Site (Martin)
11-012(c)	Building			8.8	Water/Canon de Valle	S-Site (Martin)
11-012(d)	Building			8.8	Water/Canon de Valle	S-Site (Martin)
12-001(a)	Firing site steel-lined chamber (inactive)	12-001(a)-99	Former firing site	3.6	Pajarito	Threemile
12-001(b)	Former firing site (inactive)	12-001(a)-99	Former firing site	8.8	Pajarito	Threemile
12-002	Open burning ground	12-001(a)-99	Former firing site	3.6	Pajarito	Threemile
12-004(a)	Radiation test facility			35	Pajarito	Threemile
12-004(b)	Pipe			8.8	Pajarito	Threemile
13-001	Firing site at P-Site (inactive)	13-001-99	Firing site, landfill, and soil contamination	3.6	Water/Canon de Valle	S-Site (Martin)
13-002	Landfill at P-Site	13-001-99	Firing site, landfill, and soil contamination	3.6	Water/Canon de Valle	S-Site (Martin)
13-003(a)	Septic tank same as 16-005(i)	13-003(a)-99	TA-13 septic system (inactive)	8.8	Water/Canon de Valle	S-Site (Martin)
13-003(b)	Septic system	13-003(a)-99	TA-13 septic system (inactive)	8.8	Water/Canon de Valle	S-Site (Martin)
13-004	Disposal pit - existence not determined			10.6	Water/Canon de Valle	Canon de Valle
14-001(f)	Firing site - bullet test facility (active)	14-002(a)-99	Former firing site	3.6	Water/Canon de Valle	Canon de Valle
14-002(b)	Firing site (inactive)	14-002(a)-99	Former firing site		Water/Canon de Valle	Canon de Valle
14-002(c)	Building	14-002(c)-99	Former firing site	36.8	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
14-002(f)	Junction box at a firing site	14-002(a)-99	Former firing site		Water/Canon de Valle	Canon de Valle
14-003	Open burning ground			8.8	Water/Canon de Valle	Canon de Valle
14-007	Septic system			3.6	Water/Canon de Valle	Canon de Valle
15-001	Surface disposal			3.6	Water/Canon de Valle	Lower Water/Indio
15-002	Disposal pit and burn site	15-002-00	Firing site - R40	3.6	Water/Canon de Valle	Potrillo/Fence
15-003	Firing site PHERMEX (active)	15-003-00	Phermex firing site	15.3	Water/Canon de Valle	Potrillo/Fence
15-004(a)	Firing Site C (inactive)			8.8	Pajarito	Threemile
15-004(b)	Firing Site A (inactive)	15-004(b)-99	Firing sites A and B (inactive)	3.6	Water/Canon de Valle	Potrillo/Fence
15-004(c)	Firing Site B (inactive)	15-004(b)-99	Firing sites A and B (inactive)	3.6	Water/Canon de Valle	Potrillo/Fence
15-004(f)	Machine firing site E-F non-RCRA (inactive) hazard but VCA uranium	15-004(f)-99	Firing site E-F (inactive)	33.2	Water/Canon de Valle	Potrillo/Fence
15-004(g)	Machine firing site (inactive)	15-004(g)-00	Firing site G (inactive)	17.5	Water/Canon de Valle	Canon de Valle
15-004(h)	Firing site H (inactive)			8.8	Water/Canon de Valle	Lower Water/Indio
15-004(i)	The Gulch firing site (inactive)				Water/Canon de Valle	Canon de Valle
15-005(b)	Container storage area			3.6	Water/Canon de Valle	Potrillo/Fence
15-005(c)	Container storage area (R-41)			3.6	Pajarito	Threemile
15-006(a)	Firing site PHERMEX (active)	15-003-00	Phermex firing site	15.3	Water/Canon de Valle	Potrillo/Fence
15-006(b)	Firing Site Ector (active)			15.3	Pajarito	Threemile
15-006(d)	Firing site R-45 (inactive)	15-006(d)-99	R-45 firing site	23.3	Pajarito	Threemile
15-007(a)	Material disposal area (MDA N) landfill	15-002-00	Firing site - R40	3.6	Water/Canon de Valle	Potrillo/Fence
15-007(c)	Shaft	15-007(c)-00	Shafts	15.3	Pajarito	Threemile
15-007(d)	Shaft	15-007(c)-00	Shafts	15.3	Pajarito	Threemile
15-008(c)	Surface disposal	15-004(g)-00	Firing site G (inactive)	8.8	Water/Canon de Valle	Canon de Valle
15-008(g)	Surface disposal	15-006(d)-99	R-45 firing site	23.3	Pajarito	Threemile
15-009(a)	Septic system	15-009(a)-00	Former structures - the Hollow	3.6	Water/Canon de Valle	Canon de Valle
15-009(b)	Septic system			8.8	Pajarito	Threemile
15-009(f)	Septic tank	15-009(f)-00	Firing site and septic systems	3.6	Water/Canon de Valle	Canon de Valle
15-009(g)	Septic tank (active)			3.6	Water/Canon de Valle	Lower Water/Indio
15-009(h)	Septic tank			8.8	Pajarito	Threemile
15-009(i)	Septic tank			3.6	Water/Canon de Valle	Canon de Valle
15-009(k)	Septic tank	15-009(f)-00	Firing site and septic systems	3.6	Water/Canon de Valle	Canon de Valle
15-010(a)	Septic system			8.8	Water/Canon de Valle	Potrillo/Fence
15-010(b)	Septic system			3.6	Pajarito	Threemile
15-011(a)	Sump	15-009(a)-00	Former structures - the Hollow	3.6	Water/Canon de Valle	Canon de Valle
15-014(a)	Industrial or sanitary wastewater treatment	15-014(a)-00	Outfalls	33.7	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
15-014(b)	Industrial or sanitary wastewater treatment	15-014(a)-00	Outfalls	33.7	Water/Canon de Valle	Canon de Valle
15-014(h)	Outfall			8.8	Pajarito	Threemile
15-014(i)	Outfall	15-009(a)-00	Former structures - the Hollow	3.6	Water/Canon de Valle	Canon de Valle
15-014(k)	Outfall	15-009(a)-00	Former structures - the Hollow	3.6	Water/Canon de Valle	Canon de Valle
15-014(l)	NPDES-permitted outfall (active)			39.8	Water/Canon de Valle	Lower Water/Indio
16-001(e)	Dry well	16-003(d)-99	Sumps and associated dry well	8.8	Water/Canon de Valle	S-Site (Martin)
16-003(b)	Sump			33.7	Water/Canon de Valle	Upper Water
16-003(c)	Sump 16-460	16-003(c)-99	Sump, associated drainline, and outfall	10.6	Water/Canon de Valle	Upper Water
16-003(d)	Sump	16-003(d)-99	Sumps and associated dry well	15.3	Water/Canon de Valle	S-Site (Martin)
16-003(e)	Sump	16-003(d)-99	Sumps and associated dry well	15.3	Water/Canon de Valle	S-Site (Martin)
16-003(g)	Sump	16-003(d)-99	Sumps and associated dry well	3.6	Water/Canon de Valle	S-Site (Martin)
16-003(h)	Sump 16-280	16-003(h)-99	Inactive sump, drainline, and outfall	29.1	Water/Canon de Valle	Canon de Valle
16-003(i)	Sump 16-265			3.6	Water/Canon de Valle	Canon de Valle
16-003(j)	Sump 16-267			17.5	Water/Canon de Valle	Canon de Valle
16-003(k)	Sumps / drainlines with 16-260	16-021(c)-99	16-260 Sumps, drainlines, and outfall	38.6	Water/Canon de Valle	Canon de Valle
16-003(l)	Sump 16-430	16-003(l)-99	Sumps, drainlines, and outfalls (inactive)	29.1	Water/Canon de Valle	Upper Water
16-003(m)	Sump	16-003(m)-99	Sump, outfall, and septic system	3.6	Water/Canon de Valle	Upper Water
16-003(n)	Sump	16-003(n)-99	HE sump	25	Water/Canon de Valle	Canon de Valle
16-003(o)	Sump- fish ladder			27.3	Water/Canon de Valle	Canon de Valle
16-003(p)	Sump at P-Site	16-029(h)-99	Sump, drainlines, and outfall	3.6	Water/Canon de Valle	Canon de Valle
16-004(a)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-004(b)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-004(c)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-004(d)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-004(e)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-004(f)	Wastewater treatment facility	16-004(a)-99	Wastewater treatment plant	31	Water/Canon de Valle	S-Site (Martin)
16-005(a)	Septic tank			3.6	Water/Canon de Valle	Upper Water
16-005(c)	Septic tank	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-005(d)	Septic tank	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-005(e)	Septic tank	16-029(c2)-99	Former structures	22.3	Water/Canon de Valle	S-Site (Martin)
16-005(g)	Burn site	16-010(h)-99	Former burning ground structures	3.6	Water/Canon de Valle	Canon de Valle
16-005(h)	Septic tank			8.8	Water/Canon de Valle	Upper Water
16-005(j)	Septic tank T-Site	16-034(b)-99	Former structures, T-Site	3.6	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-005(k)	Septic tank			8.8	Water/Canon de Valle	Upper Water
16-005(l)	Grease trap			10.6	Water/Canon de Valle	Upper Water
16-005(m)	Soil contamination area associated with former chemical pit T-Site	16-034(b)-99	Former structures, T-Site	3.6	Water/Canon de Valle	Canon de Valle
16-005(n)	Septic system			3.6	Water/Canon de Valle	Canon de Valle
16-006(a)	Septic system			3.6	Water/Canon de Valle	Canon de Valle
16-006(d)	Septic system	16-003(m)-99	Sump, outfall, and septic system	37.3	Water/Canon de Valle	Upper Water
16-006(e)	Septic system 16-385	16-016(c)-99	Burning ground	8.8	Water/Canon de Valle	Canon de Valle
16-006(h)	Pump pit	16-013-99	V-Site courtyard	15.8	Water/Canon de Valle	S-Site (Martin)
16-007(a)	Surface impoundment	16-007(a)-99	Machining buildings and settling ponds	3.6	Water/Canon de Valle	Canon de Valle
16-008(a)	Surface impoundment (90s-Line pond)	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-009(a)	Burn site			12.7	Water/Canon de Valle	Canon de Valle
16-010(a)	Burn site	16-016(c)-99	Burning ground	38.4	Water/Canon de Valle	Canon de Valle
16-010(e)	HE filter vessel; RCRA unit (active)			14	Water/Canon de Valle	Canon de Valle
16-010(f)	HE filter vessel; RCRA unit (active)			14	Water/Canon de Valle	Canon de Valle
16-010(h)	Burn site	16-010(h)-99	Former burning ground structures	8.8	Water/Canon de Valle	Canon de Valle
16-010(i)	Burn site	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-010(j)	Burn site - RCRA Unit	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-010(k)	Trough	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-010(l)	Trough	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-010(m)	Trough	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-010(n)	Trough	16-010(h)-99	Former burning ground structures	14	Water/Canon de Valle	Canon de Valle
16-011	Incinerator	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-013	Container storage, V-Site	16-013-99	V-Site courtyard	22.7	Water/Canon de Valle	S-Site (Martin)
16-015(a)	Men's locker room and laundry facility			8.8	Water/Canon de Valle	Upper Water
16-015(b)	Steam-washing facility			3.6	Water/Canon de Valle	Upper Water
16-015(c)	Operational facility	16-029(c2)-99	Former structures	22.3	Water/Canon de Valle	S-Site (Martin)
16-015(d)	Operational facility 16-51	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-016(a)	Landfill - buried metal site			17.5	Water/Canon de Valle	Upper Water
16-016(b)	Landfill			10.6	Water/Canon de Valle	Canon de Valle
16-016(e)	Surface disposal site			3.6	Water/Canon de Valle	Upper Water
16-016(f)	Landfill			29.8	Water/Canon de Valle	Upper Water
16-017(a)-99	Former HE machining building	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93		Water/Canon de Valle	Canon de Valle S-Site (Martin) Upper Water

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-017(b)-99	Former HE electroplating building	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93		Water/Canon de Valle	Canon de Valle
16-017(c)-99	Former HE machining building	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93		Water/Canon de Valle	Canon de Valle
16-017(d)-99	Former HE machining building	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93		Water/Canon de Valle	Canon de Valle
16-017(e)-99	Former HE machining building	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93		Water/Canon de Valle	Canon de Valle
16-017(f)-99	Former HE processing building	16-029(q)-99	HE machining building and associated structures		Water/Canon de Valle	Canon de Valle
16-017(h)-99	Former location of HE casting building	16-026(q)-99	20s-Line and associated structures		Water/Canon de Valle	Canon de Valle
16-017(j)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(k)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(l)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(m)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(n)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(o)-99	Former structure - storage magazine				Water/Canon de Valle	Upper Water
16-017(p)-99	Former structure - storage magazine				Water/Canon de Valle	S-Site (Martin)
16-017(q)-99	Former storage magazine located at V-Site	16-013-99	V-Site courtyard		Water/Canon de Valle	Canon de Valle
16-017(r)-99	Former nuclear assembly site / storage building	16-013-99	V-Site courtyard		Water/Canon de Valle	Canon de Valle
16-017(s)-99	Former nuclear assembly site / storage building	16-013-99	V-Site courtyard		Water/Canon de Valle	Canon de Valle
16-017(t)-99	Building 16-516, former laboratory / equipment storage building	16-013-99	V-Site courtyard		Water/Canon de Valle	Canon de Valle
16-017(u)-99	Former HE processing building	16-013-99	V-Site courtyard		Water/Canon de Valle	Canon de Valle
16-017(v)-99	Former HE processing building	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated st		Water/Canon de Valle	Canon de Valle
16-017(w)-99	Former structure - storage magazine				Water/Canon de Valle	S-Site (Martin)
16-017(x)-99	Former storage magazine	16-026(q)-99	20s-Line and associated structures		Water/Canon de Valle	Canon de Valle
16-021(a)	Systematic release site	16-029(g)-99	Sump and outfall, 16-450	27.5	Water/Canon de Valle	Upper Water
16-022(b)	Underground tank			3.6	Water/Canon de Valle	Upper Water
16-023(b)	Incinerator	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-024(a)	Magazine			3.6	Water/Canon de Valle	S-Site (Martin)
16-024(b)	Magazine			3.6	Water/Canon de Valle	Canon de Valle
16-024(d)	Magazine	16-007(a)-99	Machining buildings and settling ponds	8.8	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-024(e)	Operational facility 16-33	16-007(a)-99	Machining buildings and settling ponds	8.8	Water/Canon de Valle	Canon de Valle
16-024(h)	Magazine			8.8	Water/Canon de Valle	Canon de Valle
16-024(i)	Magazine			3.6	Water/Canon de Valle	Upper Water
16-024(j)	Magazine			10.6	Water/Canon de Valle	Upper Water
16-024(k)	Magazine			3.6	Water/Canon de Valle	Upper Water
16-024(l)	Magazine			22.3	Water/Canon de Valle	Upper Water
16-024(m)	Magazine			22.3	Water/Canon de Valle	S-Site (Martin)
16-024(n)	Magazine			22.3	Water/Canon de Valle	S-Site (Martin)
16-024(o)	Magazine			22.3	Water/Canon de Valle	Upper Water
16-024(q)	Magazine			3.6	Water/Canon de Valle	Upper Water
16-024(s)	Magazine			15.3	Water/Canon de Valle	Upper Water
16-024(t)	HE magazine			3.6	Water/Canon de Valle	Upper Water
16-024(u)	Magazine			8.8	Water/Canon de Valle	Canon de Valle
16-024(v)	Magazine			3.6	Water/Canon de Valle	Canon de Valle
16-025(a)	Abandoned radiography building, 16-39			3.6	Water/Canon de Valle	Canon de Valle
16-025(a2)	Abandoned building and appurtenances, 16-50	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-025(b)	Abandoned radiography building, 16-40			8.8	Water/Canon de Valle	Canon de Valle
16-025(b2)	Abandoned building and appurtenances	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-025(c2)	Abandoned building, 16-56			3.6	Water/Canon de Valle	Upper Water
16-025(d)	Abandoned building and appurtenances	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-025(d2)	Abandoned building, 16-480			17.5	Water/Canon de Valle	Canon de Valle
16-025(e)	Abandoned building and appurtenances	16-007(a)-99	Machining buildings and settling ponds	8.8	Water/Canon de Valle	Canon de Valle
16-025(e2)	Abandoned building, 16-106			34.6	Water/Canon de Valle	Canon de Valle
16-025(f)	Abandoned building and appurtenances, 16-32	16-007(a)-99	Machining buildings and settling ponds	8.8	Water/Canon de Valle	Canon de Valle
16-025(f2)	Abandoned building, 16-107			34.6	Water/Canon de Valle	Canon de Valle
16-025(g)	Abandoned building and appurtenances	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-025(h)	Abandoned building and appurtenances	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-025(h2)	Abandoned building, 16-109			34.6	Water/Canon de Valle	Upper Water

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-025(i)	Abandoned building and appurtenances, 16-97	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-025(j)	Abandoned building and appurtenances	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-025(k)	Abandoned building and appurtenances	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-025(l)	Abandoned building and appurtenances, 16-26	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-025(m)	Abandoned building and appurtenances	16-034(b)-99	Former structures, T-Site	8.8	Water/Canon de Valle	Canon de Valle
16-025(n)	Abandoned building and appurtenances	16-034(b)-99	Former structures, T-Site	8.8	Water/Canon de Valle	Canon de Valle
16-025(o)	Abandoned building and appurtenances	16-034(b)-99	Former structures, T-Site	8.8	Water/Canon de Valle	Canon de Valle
16-025(p)	Abandoned building and appurtenances, 16-44	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(q)	Abandoned building and appurtenances, 16-45	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(r)	Abandoned building and appurtenances, 16-46	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(s)	Abandoned building and appurtenances, 16-48	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(t)	Abandoned building and appurtenances, 16-38	16-029(y)-99	Experimental casting building, associated drainlin	3.6	Water/Canon de Valle	Upper Water
16-025(u)	Abandoned building and appurtenances, 16-42	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(v)	Abandoned building and appurtenances, 16-81	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-025(w)	Abandoned building, 16-81			22.3	Water/Canon de Valle	Upper Water
16-025(x)	Abandoned building and appurtenances	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated structures	3.6	Water/Canon de Valle	S-Site (Martin)
16-025(y)	Abandoned building and appurtenances	16-025(y)-99	Former building	22.3	Water/Canon de Valle	Upper Water
16-025(z)	Abandoned building and appurtenances	16-029(c2)-99	Former structures	22.3	Water/Canon de Valle	S-Site (Martin)
16-026(a2)	Outfall from 16-200			10.6	Water/Canon de Valle	Upper Water
16-026(b)	Outfall from building 16-307 - PCB only site	16-026(b)-99	300s-Line (west side) sumps and outfalls	15.8	Water/Canon de Valle	S-Site (Martin)
16-026(b2)	Outfall, 16-202	16-026(b2)-00	Outfalls		Water/Canon de Valle	Upper Water
16-026(c)	Outfall from building, 16-305	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)
16-026(d)	Outfall from building 16-303	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-026(d2)	Outfall from 16-435			15.8	Water/Canon de Valle	Upper Water
16-026(e)	Outfall from building 16-301	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)
16-026(e2)	Outfall from 16-415			15.8	Water/Canon de Valle	Upper Water
16-026(f)	Outfall			8.8	Water/Canon de Valle	S-Site (Martin)
16-026(f2)	Outfall and associated drainline			15.8	Water/Canon de Valle	Upper Water
16-026(g)	Outfall			15.8	Water/Canon de Valle	Canon de Valle
16-026(g2)	Outfall from 16-285			15.8	Water/Canon de Valle	Canon de Valle
16-026(h)	Outfall from 16-281			29.1	Water/Canon de Valle	Canon de Valle
16-026(i)	Outfall			15.8	Water/Canon de Valle	Canon de Valle
16-026(j2)	Outfall			15.8	Water/Canon de Valle	S-Site (Martin)
16-026(k)	Outfall and associated drainline			15.8	Water/Canon de Valle	Canon de Valle
16-026(k2)	Outfall, 16-260	16-029(j)-99	16-260 Bay 25 outfalls	15.3	Water/Canon de Valle	Canon de Valle
16-026(l)	Drainlines and outfall	16-026(l)-00	Drainlines and outfall	19.8	Water/Canon de Valle	Canon de Valle
16-026(m)	Outfall	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-026(n)	Outfall	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-026(o)	Outfall	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-026(p)	Outfall	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-026(q)	Outfall, 16-27	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-026(r)	Outfall, 16-180			3.6	Water/Canon de Valle	Canon de Valle
16-026(s)	Outfall, 16-5			3.6	Water/Canon de Valle	Upper Water
16-026(t)	Outfall and associated drainline				Water/Canon de Valle	Upper Water
16-026(u)	Outfall, 16-195			3.6	Water/Canon de Valle	Upper Water
16-026(w)	Outfall, 16-45	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-026(x)	Outfall and associated drainline			15.8	Water/Canon de Valle	Upper Water
16-026(y)	Outfall			15.8	Water/Canon de Valle	Upper Water
16-028(c)	Industrial or sanitary wastewater treatment, 16-220	16-026(l)-00	Drainlines and outfall		Water/Canon de Valle	Canon de Valle
16-028(d)	Industrial or sanitary wastewater treatment, 16-202	16-026(b2)-00	Outfalls	21.5	Water/Canon de Valle	Upper Water
16-029(a)	Sump from 300s-Line	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)
16-029(a2)	Sump, 16-55	16-025(y)-99	Former building	22.3	Water/Canon de Valle	Upper Water
16-029(b)	Sump from 300s-Line	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-029(b2)	Sump, 16-53	16-029(b2)-99	Former structures (GMX-2 HE processing building)	3.6	Water/Canon de Valle	Upper Water
16-029(c)	Sump from 300s-Line	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)
16-029(c2)	Sump	16-029(c2)-99	Former structures	22.3	Water/Canon de Valle	S-Site (Martin)
16-029(d)	Sump from 300s-Line	16-026(b)-99	300s-Line (west side) sumps and outfalls	10.6	Water/Canon de Valle	S-Site (Martin)
16-029(d2)	Sump, 16-50	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-029(e)	Sump, 16-360	16-029(e)-99	Sump and outfall, 16-360	15.3	Water/Canon de Valle	Upper Water
16-029(e2)	Sump, 16-52	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-029(f)	Sump from building 16-345			15.8	Water/Canon de Valle	S-Site (Martin)
16-029(f2)	Outfall, 16-24	16-026(q)-99	20s-Line and associated structures	3.6	Water/Canon de Valle	Upper Water
16-029(g)	Sump, 16-450	16-029(g)-99	Sump and outfall, 16-450	21.5	Water/Canon de Valle	Upper Water
16-029(g2)	Pump pit	16-013-99	V-Site courtyard	3.6	Water/Canon de Valle	S-Site (Martin)
16-029(h)	Sump at P-Site	16-029(h)-99	Sump, drainlines, and outfall	3.6	Water/Canon de Valle	S-Site (Martin)
16-029(h2)	Drainline and outfall	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-029(i)	Outfall	16-003(n)-99	HE sump	3.6	Water/Canon de Valle	Canon de Valle
16-029(j)	Outfall, 16-260	16-029(j)-99	16-260 Bay 25 outfalls	15.3	Water/Canon de Valle	Canon de Valle
16-029(k)	Sump	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-029(l)	Sump	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
16-029(m)	Sump, 16-95	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-029(n)	Sump, 16-96	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-029(o)	Sump, 16-97	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-029(p)	Sump, 16-98	16-029(h2)-99	HE machining line buildings and associated structures	8.8	Water/Canon de Valle	Canon de Valle
16-029(q)	16-99 and associated structures	16-029(q)-99	HE machining building and associated structures	10.5	Water/Canon de Valle	Canon de Valle
16-029(r)	Outfall, 16-25	16-026(q)-99	20s-Line and associated structures	3.6	Water/Canon de Valle	Upper Water
16-029(u)	Sump	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	8.8	Water/Canon de Valle	Canon de Valle
16-029(v)	Sump, 16-49	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-029(w)	Sump	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated structures	8.8	Water/Canon de Valle	S-Site (Martin)
16-029(x)	Sump	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated structures	10.6	Water/Canon de Valle	S-Site (Martin)
16-029(y)	Sump, 16-38	16-029(y)-99	Experimental casting building, associated drainlin	3.6	Water/Canon de Valle	Upper Water
16-029(z)	Sump, 16-42	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-030(a)	Outfall from 16-344, chemical storage building			3.6	Water/Canon de Valle	S-Site (Martin)
16-030(b)	Outfall and associated drainline			3.6	Water/Canon de Valle	S-Site (Martin)
16-030(c)	16-222 outfall				Water/Canon de Valle	Canon de Valle
16-030(d)	Outfall, 16-280	16-003(h)-99	Inactive sump, drainline, and outfall	32.8	Water/Canon de Valle	Canon de Valle
16-030(e)	Outfall and associated drainline				Water/Canon de Valle	Canon de Valle
16-030(f)	Outfall and associated drainline			15.8	Water/Canon de Valle	Canon de Valle
16-030(h)	Outfall, 16-430	16-003(l)-99	Sumps, drainlines, and outfalls (inactive)	29.1	Water/Canon de Valle	Upper Water
16-031(a)	Industrial or sanitary wastewater treatment, 16-372			27.9	Water/Canon de Valle	Upper Water
16-031(b)	Industrial or sanitary wastewater treatment, 16-262			3.6	Water/Canon de Valle	Canon de Valle
16-031(c)	Industrial or sanitary wastewater treatment, 16-515	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated st	15.8	Water/Canon de Valle	S-Site (Martin)
16-031(d)	Cooling tower, 16-28	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-031(e)	Outfall, industrial or sanitary wastewater treatment			8.8	Water/Canon de Valle	Upper Water
16-031(f)	Outfall, industrial or sanitary wastewater treatment			3.6	Water/Canon de Valle	Upper Water
16-031(h)	Industrial or sanitary wastewater treatment at P-Site			20.5	Water/Canon de Valle	Canon de Valle
16-032(a)	Sump, 16-45	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-032(c)	Sump, 16-26	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-033(a)	Underground tank			17.9	Water/Canon de Valle	Upper Water
16-033(b)	Underground tank			3.6	Water/Canon de Valle	Upper Water
16-033(e)	Underground tank				Water/Canon de Valle	Canon de Valle
16-033(k)	Underground storage tank <100 gallons				Water/Canon de Valle	Upper Water
16-034(a)	Soil contamination area, 16-24	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
16-034(b)	Soil contamination area, 16-490	16-034(b)-99	Former structures, T-Site	19.7	Water/Canon de Valle	Canon de Valle
16-034(c)	Soil contamination area	16-034(b)-99	Former structures, T-Site	19.7	Water/Canon de Valle	Canon de Valle
16-034(d)	Soil contamination area	16-034(b)-99	Former structures, T-Site	19.7	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
16-034(e)	Soil contamination area	16-034(b)-99	Former structures, T-Site	19.7	Water/Canon de Valle	Canon de Valle
16-034(f)	Soil contamination area	16-034(b)-99	Former structures, T-Site	19.7	Water/Canon de Valle	Canon de Valle
16-034(h)	Soil contamination area, 16-137			12.7	Water/Canon de Valle	Canon de Valle
16-034(i)	Soil contamination area			10.6	Water/Canon de Valle	Canon de Valle
16-034(j)	Soil contamination area			12.7	Water/Canon de Valle	Canon de Valle
16-034(k)	Soil contamination area			10.6	Water/Canon de Valle	Canon de Valle
16-034(l)	Soil contamination area	16-029(z)-99	Former structures, 40s-Line	3.6	Water/Canon de Valle	Upper Water
16-034(m)	Soil contamination area			22.3	Water/Canon de Valle	S-Site (Martin)
16-034(n)	Soil contamination area			22.3	Water/Canon de Valle	S-Site (Martin)
16-034(o)	Soil contamination area, 16-49	16-029(v)-99	Building footprints, drainlines, and sumps	3.6	Water/Canon de Valle	Upper Water
16-034(p)	Soil contamination area	16-029(z)-99	Former structures, 40s-Line	15.3	Water/Canon de Valle	Upper Water
16-035	Soil contamination area at P-Site	13-001-99	Firing site, landfill, and soil contamination	3.6	Water/Canon de Valle	S-Site (Martin)
16-036	Soil contamination area at P-Site	13-001-99	Firing site, landfill, and soil contamination	3.6	Water/Canon de Valle	S-Site (Martin)
18-001(a)	Lagoon	18-001(a)-00	Industrial or sanitary wastewater treatment	15.6	Pajarito	Lower Pajarito
18-001(b)	Sewer lines	18-001(a)-00	Industrial or sanitary wastewater treatment	15.6	Pajarito	Lower Pajarito
18-001(c)	Sump	18-001(c)-00	Tanks, sumps, outfalls	22.6	Pajarito	Lower Pajarito
18-002(a)	Firing site (inactive)			15.6	Pajarito	Lower Pajarito
18-002(b)	Firing site (inactive)			22.6	Pajarito	Lower Pajarito
18-002(c)	Drop tower				Pajarito	Lower Pajarito
18-003(a)	Settling pit	18-003(a)-00	Tanks, sumps, and outfalls	27.3	Pajarito	Lower Pajarito
18-003(b)	Septic system	18-003(a)-00	Tanks, sumps, and outfalls	27.3	Pajarito	Lower Pajarito
18-003(d)	Septic system			20.8	Pajarito	Lower Pajarito
18-003(e)	Septic system			15.6	Pajarito	Lower Pajarito
18-003(f)	Septic system			10.6	Pajarito	Lower Pajarito
18-003(g)	Septic system			27.8	Pajarito	Lower Pajarito
18-003(h)	Septic system			34.7	Pajarito	Lower Pajarito
18-004(a)	Waste lines containment	18-004(a)-00	Tanks, sumps, outfalls	26.6	Pajarito	Lower Pajarito
18-004(b)	Pit	18-004(a)-00	Tanks, sumps, outfalls	26.6	Pajarito	Lower Pajarito
18-005(a)	Storage area			22.6	Pajarito	Lower Pajarito
18-010(b)	Outfall			22.6	Pajarito	Lower Pajarito
18-010(c)	Outfall			22.6	Pajarito	Lower Pajarito
18-010(e)	Outfall			29.5	Pajarito	Lower Pajarito

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
18-011	Soil containment				Pajarito	Lower Pajarito
18-012(c)	Sump and drainlines			27.3	Pajarito	Lower Pajarito
18-013	Waste tank				Pajarito	Lower Pajarito
19-001	Septic system	19-001-99	Former East Gate Laboratory and septic system	8.8	Los Alamos/Pueblo	Pueblo
19-002	Surface disposal site	19-001-99	Former East Gate Laboratory and septic system	36.6	Los Alamos/Pueblo	Pueblo
19-003	Septic tank	19-001-99	Former East Gate Laboratory and septic system	8.8	Los Alamos/Pueblo	Pueblo
20-001(a)	Landfill			32.5	Sandia	Lower Sandia
20-001(b)	Landfill	20-001(b)-00	Firing site	39.5	Sandia	Lower Sandia
20-001(c)	Landfill	20-001(c)-00	Landfill	26	Sandia	Lower Sandia
20-002(b)	Firing site	20-001(c)-00	Landfill	20.8	Sandia	Lower Sandia
20-002(d)	Firing site			20.8	Sandia	Lower Sandia
20-003(a)	Control building at a firing site			20.8	Sandia	Lower Sandia
20-003(b)	Firing site			27.8	Sandia	Lower Sandia
20-004	Septic system			20.8	Sandia	Lower Sandia
20-005	Septic tank			27.8	Sandia	Lower Sandia
21-001	Container storage	21-016(a)-99	Material disposal area (MDA T)		Los Alamos/Pueblo	Middle Los Alamos
21-002(a)	Container storage areas located throughout TA-21			0	Los Alamos/Pueblo	Lower Los Alamos
21-002(b)	Container storage				Los Alamos/Pueblo	Middle Los Alamos
21-003	Container storage - RCRA Unit	21-003-99	PCB container storage and surface disposal area	33.3	Los Alamos/Pueblo	Middle Los Alamos
21-004(a)	Aboveground tank	21-024(l)-99	Tank, sump, and outfall		Los Alamos/Pueblo	Middle Los Alamos
21-004(b)	Tank and/or associated equipment	21-004(b)-99	Aboveground tanks and outfall area	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-004(c)	Tank and/or associated equipment	21-004(b)-99	Aboveground tanks and outfall area	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-006(a)	Disposal pit, building 21-2	21-006(c)-99	Miscellaneous	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-006(b)	Disposal pit	21-006(c)-99	Miscellaneous	30.5	Los Alamos/Pueblo	Middle Los Alamos
21-006(c)	Disposal pit, building 21-3	21-006(c)-99	Miscellaneous	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-006(d)	Disposal pit, building 21-3	21-006(c)-99	Miscellaneous	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-006(e)	Surface disposal site, building 21-4	21-006(e)-99	Underground seepage pits	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-006(f)	Disposal pit, building 21-4	21-006(e)-99	Underground seepage pits		Los Alamos/Pueblo	Middle Los Alamos
21-007	Incinerators	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-009	Waste treatment laboratory				Los Alamos/Pueblo	Middle Los Alamos
21-010(a)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(b)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
21-010(c)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(d)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(e)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(f)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(g)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-010(h)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-011(a)	Waste treatment facility	21-016(a)-99	Material disposal area (MDA T)	30.3	Los Alamos/Pueblo	Middle Los Alamos
21-011(b)	Sump			21	Los Alamos/Pueblo	Middle Los Alamos
21-011(d)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-011(e)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-011(f)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	15.3	Los Alamos/Pueblo	Middle Los Alamos
21-011(g)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	15.3	Los Alamos/Pueblo	Middle Los Alamos
21-011(h)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)		Los Alamos/Pueblo	Middle Los Alamos
21-011(i)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-011(j)	Aboveground tank	21-016(a)-99	Material disposal area (MDA T)	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-012(b)	Dry well			3.6	Los Alamos/Pueblo	Middle Los Alamos
21-013(a)	Surface disposal site	21-026(a)-99	Former sewage treatment plant	20.5	Los Alamos/Pueblo	Middle Los Alamos
21-013(c)	Surface disposal site			15.7	Los Alamos/Pueblo	Middle Los Alamos
21-013(d)	Surface disposal site (cold dump)	21-013(d)-99	Surface disposal areas	24.9	Los Alamos/Pueblo	Middle Los Alamos
21-013(e)	Surface disposal site	21-013(d)-99	Surface disposal areas	24.9	Los Alamos/Pueblo	Middle Los Alamos
21-013(f)	Surface disposal site	21-003-99	PCB container storage and surface disposal area	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-014	Material disposal area (MDA A)			15.8	Los Alamos/Pueblo	Middle Los Alamos
21-015	Material disposal area (MDA B)			17.9	Los Alamos/Pueblo	Middle Los Alamos
21-017(a)	Material disposal area (MDA U)	21-017(a)-99	Material disposal area (MDA U)	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-017(b)	Material disposal area (MDA U)	21-017(a)-99	Material disposal area (MDA U)	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-017(c)	Material disposal area (MDA U)	21-017(a)-99	Material disposal area (MDA U)	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-018(a)	Material disposal area (MDA V)	21-018(a)-99	Material disposal area (MDA V)	18.1	Los Alamos/Pueblo	Middle Los Alamos
21-018(b)	Material disposal area (MDA V) laundry facility	21-018(a)-99	Material disposal area (MDA V)	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-021	Systematic release (site -wide)	21-021-99	Surface soil contamination area	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-022(a)	Waste lines	21-024(l)-99	Tank, sump, and outfall	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-022(b)	Waste lines, building 21-2	21-022(b)-99	Industrial waste lines and sumps	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-022(c)	Waste lines, building 21-3	21-022(b)-99	Industrial waste lines and sumps	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-022(d)	Waste lines, building 21-4	21-022(b)-99	Industrial waste lines and sumps	21	Los Alamos/Pueblo	Middle Los Alamos
21-022(e)	Waste lines, building 21-5	21-022(b)-99	Industrial waste lines and sumps	10.6	Los Alamos/Pueblo	Middle Los Alamos

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
21-022(f)	Sump and drainlines	21-017(a)-99	Material disposal area (MDA U)	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-022(g)	Waste lines, building 21-150	21-022(b)-99	Industrial waste lines and sumps	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-022(h)	Waste lines	21-022(h)-99	Drainline and outfall	27.5	Los Alamos/Pueblo	Middle Los Alamos
21-022(i)	Tank and/or associated equipment	21-022(h)-99	Drainline and outfall	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-022(j)	Tank and/or associated equipment	21-022(h)-99	Drainline and outfall	3.6	Los Alamos/Pueblo	Middle Los Alamos
21-023(a)	Septic system, building 21-3	21-023(a)-99	Septic tanks and distribution lines	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-023(b)	Septic system, building 21-3	21-023(a)-99	Septic tanks and distribution lines	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-023(c)	Septic system	21-018(a)-99	Material disposal area (MDA V)	35.5	Los Alamos/Pueblo	Middle Los Alamos
21-023(d)	Septic system, building 21-3	21-023(a)-99	Septic tanks and distribution lines	27.5	Los Alamos/Pueblo	Middle Los Alamos
21-024(a)	Septic system			3.6	Los Alamos/Pueblo	Middle Los Alamos
21-024(b)	Septic system			15.8	Los Alamos/Pueblo	Middle Los Alamos
21-024(c)	Septic system			14	Los Alamos/Pueblo	Middle Los Alamos
21-024(d)	Septic system			24	Los Alamos/Pueblo	Middle Los Alamos
21-024(f)	Septic system			30.9	Los Alamos/Pueblo	Middle Los Alamos
21-024(g)	Septic system			17	Los Alamos/Pueblo	Middle Los Alamos
21-024(j)	Septic system			3.6	Los Alamos/Pueblo	Middle Los Alamos
21-024(k)	Septic system			3.6	Los Alamos/Pueblo	Middle Los Alamos
21-024(l)	Industrial or sanitary wastewater treatment	21-024(l)-99	Tank, sump, and outfall	8.8	Los Alamos/Pueblo	Middle Los Alamos
21-024(n)	Drainline			8.8	Los Alamos/Pueblo	Middle Los Alamos
21-026(a)	Industrial or sanitary wastewater treatment	21-026(a)-99	Former sewage treatment plant	10.6	Los Alamos/Pueblo	Middle Los Alamos
21-026(b)	Surface disposal site (sand filter / sludge drying beds)	21-026(a)-99	Former sewage treatment plant	15.8	Los Alamos/Pueblo	Middle Los Alamos
21-026(c)	Wastewater treatment facility (dosing siphon chamber)	21-026(a)-99	Former sewage treatment plant		Los Alamos/Pueblo	Middle Los Alamos
21-026(d)	Outfall	21-026(a)-99	Former sewage treatment plant	39.5	Los Alamos/Pueblo	Middle Los Alamos
21-027(c)	Industrial or sanitary wastewater treatment			8.8	Los Alamos/Pueblo	Middle Los Alamos
21-028(a)	Container storage	21-016(a)-99	Material disposal area (MDA T)		Los Alamos/Pueblo	Middle Los Alamos
21-028(c)	Container storage building 21-3				Los Alamos/Pueblo	Middle Los Alamos
21-028(d)	Container storage				Los Alamos/Pueblo	Middle Los Alamos
22-010(a)	Septic system			11.8	Pajarito	Twomile
22-010(b)	Septic system	22-015(d)-99	Septic system	27.6	Pajarito	Starmer/Upper Pajarito
22-011	Disposal pit			15.3	Pajarito	Starmer/Upper Pajarito
22-012	Decontamination facility	22-015(d)-99	Septic system	17.5	Pajarito	Starmer/Upper Pajarito

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
22-014(a)	Industrial or sanitary wastewater treatment			3.6	Pajarito	Twomile
22-015(a)	Drainlines and dry wells			34.6	Pajarito	Twomile
22-015(b)	Sump and outfall			8.8	Pajarito	Twomile
22-015(d)	Drainline and outfall	22-015(d)-99	Septic system	39.8	Pajarito	Starmer/Upper Pajarito
22-015(e)	Industrial or sanitary wastewater treatment	22-015(d)-99	Septic system	17.5	Pajarito	Starmer/Upper Pajarito
22-016	Septic system	22-015(d)-99	Septic system	27.6	Pajarito	Starmer/Upper Pajarito
26-002(a)	Former acid sump system			27	Los Alamos/Pueblo	Middle Los Alamos
26-002(b)	Former drainage system			27	Los Alamos/Pueblo	Middle Los Alamos
26-003	Septic tank			20.5	Los Alamos/Pueblo	Middle Los Alamos
27-002	Firing sites (inactive)			15.6	Pajarito	Lower Pajarito
27-003	Bazooka impact area			34.3	Pajarito	Lower Pajarito
31-001	Septic system			18.8	Los Alamos/Pueblo	Pueblo
32-001	Incinerator (former location)			3.6	Los Alamos/Pueblo	Upper Los Alamos
32-002(a)	Septic tank (former location); drainlines			15.8	Los Alamos/Pueblo	Upper Los Alamos
32-002(b)	Septic system			15.8	Los Alamos/Pueblo	Upper Los Alamos
32-003	Transformer site (former location)			33.7	Los Alamos/Pueblo	Upper Los Alamos
33-001(a)	Material disposal area (MDA E)	33-001(a)-99	Material disposal area (MDA E)	35	Chaquehui	Chaquehui
33-001(b)	Material disposal area (MDA E)	33-001(a)-99	Material disposal area (MDA E)	35	Chaquehui	Chaquehui
33-001(c)	Material disposal area (MDA E)	33-001(a)-99	Material disposal area (MDA E)	35	Chaquehui	Chaquehui
33-001(d)	Material disposal area (MDA E)	33-001(a)-99	Material disposal area (MDA E)	35	Chaquehui	Chaquehui
33-001(e)	Material disposal area (MDA E)	33-001(a)-99	Material disposal area (MDA E)	35	Chaquehui	Chaquehui
33-002(a)	Material disposal area (MDA K) - septic tank	33-002(a)-99	Material disposal area (MDA K)	15.7	Chaquehui	Chaquehui
33-002(b)	Material disposal area (MDA K) - sump	33-002(a)-99	Material disposal area (MDA K)	3.6	Chaquehui	Chaquehui
33-002(c)	Material disposal area (MDA K) - sump	33-002(a)-99	Material disposal area (MDA K)	15.3	Chaquehui	Chaquehui
33-002(d)	Material disposal area (MDA K) - drainline and outfall	33-002(a)-99	Material disposal area (MDA K)	26.2	Chaquehui	Chaquehui
33-002(e)	Material disposal area (MDA K) - drainline and outfall	33-002(a)-99	Material disposal area (MDA K)	22.7	Chaquehui	Chaquehui
33-003(a)	Material disposal area (MDA D)	33-003(a)-99	Material disposal area (MDA D)	20.5	Ancho	South Ancho
33-003(b)	Material disposal area (MDA D)	33-003(a)-99	Material disposal area (MDA D)	8.8	Ancho	South Ancho
33-004(a)	Septic system	33-004(a)-00	Firing site - Main Site	21	Chaquehui	Chaquehui
33-004(b)	Septic system			15.3	Chaquehui	Chaquehui

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
33-004(c)	Septic system			8.8	Ancho	South Ancho
33-004(g)	Outfall	33-004(g)-00	Firing site - Area 6	14	Chaquehui	Chaquehui
33-004(i)	Outfall	33-004(a)-00	Firing site - Main Site	39.8	Chaquehui	Chaquehui
33-004(k)	Outfall			14	Ancho	South Ancho
33-004(m)	Septic system			8.8	Chaquehui	Chaquehui
33-006(b)	Firing range (inactive)	33-006(b)-00	Firing site - East Site	14	Ancho	South Ancho
33-007(a)	Firing range (inactive)	33-006(b)-00	Firing site - East Site	15.8	Ancho	South Ancho
33-007(c)	Firing range (inactive)	33-004(g)-00	Firing site - Area 6	24.8	Chaquehui	Chaquehui
33-008(a)	Landfill	33-004(j)-00	Firing site - South Site	20.9	Chaquehui	Chaquehui
33-008(b)	Landfill	33-006(b)-00	Firing site - East Site	15.8	Ancho	South Ancho
33-009	Surface disposal - PCB only site			27	Chaquehui	Chaquehui
33-010(h)	Surface disposal	33-004(j)-00	Firing site - South Site	32.8	Chaquehui	Chaquehui
33-011(a)	Storage area	33-005(a)-00	Former structures - Main Site	33.2	Chaquehui	Chaquehui
33-011(c)	Storage area	33-004(j)-00	Firing site - South Site	8.8	Chaquehui	Chaquehui
33-011(d)	Storage area	33-004(a)-00	Firing site - Main Site	34.6	Chaquehui	Chaquehui
33-011(e)	Drum storage			32.5	Chaquehui	Chaquehui
33-012(a)	Drum storage - PCB only site			21	Chaquehui	Chaquehui
33-013	Storage area			10.6	Chaquehui	Chaquehui
33-014	Burn site	33-004(j)-00	Firing site - South Site	15.3	Chaquehui	Chaquehui
33-017	Operational release	33-004(a)-00	Firing site - Main Site	22.3	Chaquehui	Chaquehui
35-002	Material disposal area (MDA X)			3.6	Mortandad	Middle Mortandad/Ten-Site
35-003(a)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	27.6	Mortandad	Middle Mortandad/Ten-Site
35-003(b)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	27.6	Mortandad	Middle Mortandad/Ten-Site
35-003(c)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	27.6	Mortandad	Middle Mortandad/Ten-Site
35-003(e)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	32.5	Mortandad	Middle Mortandad/Ten-Site
35-003(f)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	32.5	Mortandad	Middle Mortandad/Ten-Site
35-003(g)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	32.5	Mortandad	Middle Mortandad/Ten-Site
35-003(j)	Wastewater treatment facility	35-003(j)-99	Former structures	34.6	Mortandad	Middle Mortandad/Ten-Site
35-003(k)	Wastewater treatment facility	35-003(j)-99	Former structures	34.6	Mortandad	Middle Mortandad/Ten-Site
35-003(m)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	32.5	Mortandad	Middle Mortandad/Ten-Site
35-003(misc)	Industrial waste lines	35-003(a)-99	Wastewater treatment plant	27.5	Mortandad	Middle Mortandad/Ten-Site
35-003(n)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	27.6	Mortandad	Middle Mortandad/Ten-Site
35-003(o)	Wastewater treatment facility	35-003(a)-99	Wastewater treatment plant	32.5	Mortandad	Middle Mortandad/Ten-Site
35-004(a)	Storage areas			3.6	Mortandad	Middle Mortandad/Ten-Site
35-004(b)	Storage areas			22.3	Mortandad	Middle Mortandad/Ten-Site

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
35-004(g)	Container storage area	35-004(g)-00	Septic system	3.6	Mortandad	Middle Mortandad/Ten-Site
35-004(m)	Container storage area	35-014(g)-00	Soil contamination area	3.6	Mortandad	Middle Mortandad/Ten-Site
35-009(a)	Septic system			22.3	Mortandad	Middle Mortandad/Ten-Site
35-009(b)	Septic system	35-004(g)-00	Septic system	3.6	Mortandad	Middle Mortandad/Ten-Site
35-009(c)	Septic system			18.3	Mortandad	Middle Mortandad/Ten-Site
35-009(d)	Septic system			32.8	Mortandad	Middle Mortandad/Ten-Site
35-009(e)	Septic system			18.3	Mortandad	Middle Mortandad/Ten-Site
35-010(a)	Sanitary lagoon	35-010(a)-99	Former surface impoundment	20.8	Mortandad	Middle Mortandad/Ten-Site
35-010(b)	Sanitary lagoon	35-010(a)-99	Former surface impoundment	20.8	Mortandad	Middle Mortandad/Ten-Site
35-010(c)	Sanitary lagoon	35-010(a)-99	Former surface impoundment	20.8	Mortandad	Middle Mortandad/Ten-Site
35-010(d)	Sand filters	35-010(a)-99	Former surface impoundment	15.6	Mortandad	Middle Mortandad/Ten-Site
35-010(e)	Discharge headwall from sand filter	35-010(a)-99	Former surface impoundment	24.8	Mortandad	Middle Mortandad/Ten-Site
35-013(a)	Sump			3.6	Mortandad	Upper Mortandad
35-013(b)	Sump			3.6	Mortandad	Middle Mortandad/Ten-Site
35-013(c)	Sump			3.6	Mortandad	Middle Mortandad/Ten-Site
35-014(a)	Operational release			10.6	Mortandad	Middle Mortandad/Ten-Site
35-014(b)	Leaking drum	35-003(j)-99	Former structures	10.6	Mortandad	Middle Mortandad/Ten-Site
35-014(d)	Operational release	35-003(j)-99	Former structures	15.8	Mortandad	Middle Mortandad/Ten-Site
35-014(f)	Soil contamination			3.6	Mortandad	Middle Mortandad/Ten-Site
35-014(g)	Soil contamination	35-014(g)-00	Soil contamination area	39.8	Mortandad	Middle Mortandad/Ten-Site
35-014(g2)	Soil contamination	35-014(g)-00	Soil contamination area	3.6	Mortandad	Middle Mortandad/Ten-Site
35-014(g3)	Soil contamination			39.8	Mortandad	Middle Mortandad/Ten-Site
35-015(a)	Soil contamination			3.6	Mortandad	Middle Mortandad/Ten-Site
35-015(b)	Waste oil treatment	35-003(j)-99	Former structures	34.6	Mortandad	Middle Mortandad/Ten-Site
35-016(j)	Storm drain			24	Mortandad	Middle Mortandad/Ten-Site
35-018(a)	Transformer			15.8	Mortandad	Middle Mortandad/Ten-Site
36-002	Sump			15.8	Pajarito	Threemile
36-003(a)	Septic system			15.3	Pajarito	Threemile
36-004(d)	Firing site (Lower Slobbovia, skunk works, burn pit) (active)			33	Water/Canon de Valle	Potrillo/Fence
39-001(a)	Landfill			20.8	Ancho	North Ancho
39-001(b)	Material disposal area (MDA Y)	39-001(b)-00	Material disposal area (MDA Y)	15.6	Ancho	North Ancho
39-002(a)	Storage area			20.8	Ancho	North Ancho
39-002(b)	Storage area			15.6	Ancho	North Ancho
39-002(c)	Storage area			29.5	Ancho	North Ancho

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
39-005	Seepage pit			15.8	Ancho	North Ancho
39-006(a)	Septic system			15.6	Ancho	North Ancho
39-007(a)	Storage area			15.6	Ancho	North Ancho
39-007(d)	Storage area			10.6	Ancho	North Ancho
39-008	Firing range (inactive)	39-001(b)-00	Material disposal area (MDA Y)	29.5	Ancho	North Ancho
39-010	Excavated soil dump			22.5	Ancho	North Ancho
40-001(b)	Septic system			14	Pajarito	Twomile
40-001(c)	Septic system			3.6	Pajarito	Starmer/Upper Pajarito
40-004	Operational release			3.6	Pajarito	Starmer/Upper Pajarito
40-005	Sump			39.8	Pajarito	Twomile
41-001	Septic system			27.3	Los Alamos/Pueblo	Upper Los Alamos
41-002(a)	Wastewater treatment facility	41-002(a)-99	TA-41 Sewage Treatment Plant	27.3	Los Alamos/Pueblo	Upper Los Alamos
41-002(b)	Wastewater treatment facility	41-002(a)-99	TA-41 Sewage Treatment Plant	33	Los Alamos/Pueblo	Upper Los Alamos
41-002(c)	Wastewater treatment facility	41-002(a)-99	TA-41 Sewage Treatment Plant	33	Los Alamos/Pueblo	Upper Los Alamos
41-003	Sump			15.6	Los Alamos/Pueblo	Upper Los Alamos
42-003	Septic system (former location)	42-001(a)-99	TA-42 incinerator complex	35.8	Mortandad	Upper Mortandad
43-001(a1)	Waste lines (pre-1981)			10.6	Los Alamos/Pueblo	Upper Los Alamos
43-001(a2)	Waste lines (post-1981)				Los Alamos/Pueblo	Upper Los Alamos
43-001(b2)	Outfall			26.7	Los Alamos/Pueblo	Upper Los Alamos
43-002	Incinerator			3.6	Los Alamos/Pueblo	Upper Los Alamos
45-002	Vehicle decontamination facility	45-001-00	Wastewater treatment plant - TA-45	27.6	Los Alamos/Pueblo	Pueblo
45-003	Waste lines	45-001-00	Wastewater treatment plant - TA-45	27.6	Los Alamos/Pueblo	Pueblo
46-003(c)	Septic system			22.3	Mortandad	Upper Canada del Buey
46-003(d)	Septic system			31.4	Mortandad	Upper Canada del Buey
46-003(f)	Septic system			29.2	Mortandad	Upper Canada del Buey
46-003(g)	Septic system			36.6	Mortandad	Upper Canada del Buey
46-003(h)	Operational release			8.8	Mortandad	Upper Canada del Buey
46-004(b)	Operational release				Mortandad	Upper Canada del Buey
46-004(b2)	Operational release			27.5	Mortandad	Upper Canada del Buey
46-004(c)	Sump			10.6	Mortandad	Upper Canada del Buey
46-004(d)	Sump	46-004(d)-99	Dry wells	10.6	Mortandad	Upper Canada del Buey
46-004(e)	Sump	46-004(d)-99	Dry wells	10.6	Mortandad	Upper Canada del Buey
46-004(e2)	Outfall from Building 46-42				Mortandad	Upper Canada del Buey
46-004(f)	Outfall			37.6	Mortandad	Upper Canada del Buey
46-004(f2)	Outfall from Building 46-31				Mortandad	Upper Canada del Buey

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
46-004(p)	Sump			3.6	Mortandad	Upper Canada del Buey
46-004(r)	Outfall			37.6	Mortandad	Upper Canada del Buey
46-004(w)	Outfall			37.6	Mortandad	Upper Canada del Buey
46-006(a)	Operational release			30.5	Mortandad	Upper Canada del Buey
46-006(b)	Operational release			10.6	Mortandad	Upper Canada del Buey
46-006(c)	Operational release			30.3	Mortandad	Upper Canada del Buey
46-006(f)	Storage area			34.6	Mortandad	Upper Canada del Buey
46-006(g)	Operational release			29.2	Mortandad	Upper Canada del Buey
46-007	Operational release			22.8	Mortandad	Upper Canada del Buey
46-008(a)	Storage area			17.5	Mortandad	Upper Canada del Buey
46-008(b)	Storage area			22.8	Mortandad	Upper Canada del Buey
46-008(d)	Storage area			10.6	Mortandad	Upper Canada del Buey
46-008(e)	Storage area			3.6	Mortandad	Upper Canada del Buey
46-008(f)	Storage area			17.5	Mortandad	Upper Canada del Buey
46-010(d)	Operational release SAA			30.1	Mortandad	Upper Canada del Buey
48-001	Air exhaust system			34	Mortandad	Upper Mortandad
48-002(a)	Container storage area			15.3	Mortandad	Upper Mortandad
48-002(b)	Container storage area			15.3	Mortandad	Upper Mortandad
48-002(e)	Container storage			10.6	Mortandad	Upper Mortandad
48-004(a)	Sumps and tanks	48-004(a)-99	Sumps and tanks	3.6	Mortandad	Upper Mortandad
48-004(b)	Sumps and tanks	48-004(a)-99	Sumps and tanks	27.5	Mortandad	Upper Mortandad
48-004(c)	Sumps and tanks	48-004(a)-99	Sumps and tanks	29.2	Mortandad	Upper Mortandad
48-005	Waste lines			10.6	Mortandad	Upper Mortandad
48-011	Disposal shaft				Mortandad	Upper Mortandad
48-012	Soil Contamination				Mortandad	Upper Mortandad
49-001(b)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	Material disposal area (MDA AB)	34.6	Ancho	North Ancho
49-001(c)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	Material disposal area (MDA AB)	17.5	Ancho	North Ancho
49-001(d)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	Material disposal area (MDA AB)	3.6	Ancho	North Ancho
49-001(e)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	Material disposal area (MDA AB)	26.7	Ancho	South Ancho
49-001(f)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	Material disposal area (MDA AB)	14	Ancho	South Ancho
49-002	Operational facility (Area 10 underground chamber)			20.5	Ancho	North Ancho

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
49-003	Leach field (Area 11 rad/chem and small shot area)			36.8	Ancho	North Ancho
49-004	Burn site and landfill (Area 6)			35	Water/Canon de Valle	Lower Water/Indio
49-006	Sump (Area 5)			3.6	Ancho	North Ancho
49-008(a)	Soil contamination (Area 5)			3.6	Ancho	North Ancho
49-008(b)	Soil contamination (Area 6)			3.6	Ancho	South Ancho
49-008(c)	Soil contamination (Area 11)			3.6	Ancho	North Ancho
49-008(d)	Firing sites (Bottle House area) soil contamination and underground chamber (inactive)			8.8	Ancho	North Ancho
50-001(a)	Waste treatment facility TA-50-1 - RCRA Unit (active)			8.8	Mortandad	Middle Mortandad/Ten-Site
50-001(b)	Waste lines and manholes				Mortandad	Middle Mortandad/Ten-Site
50-002(a)	Underground tanks			15.8	Mortandad	Middle Mortandad/Ten-Site
50-002(b)	Underground tank	50-002(b)-00	Vaulted underground tanks for TA-55 wastes	8.8	Mortandad	Middle Mortandad/Ten-Site
50-002(c)	Underground tank	50-002(b)-00	Vaulted underground tanks for TA-55 wastes	8.8	Mortandad	Middle Mortandad/Ten-Site
50-002(d)	Aboveground storage tank				Mortandad	Middle Mortandad/Ten-Site
50-003(a)	Container storage area				Mortandad	Middle Mortandad/Ten-Site
50-004(a)	Waste lines	50-004(a)-00	Historical waste lines and underground vault, Radioactive Liquid Waste Treatment Facility	38.6	Mortandad	Middle Mortandad/Ten-Site
50-004(b)	Underground tanks	50-004(a)-00	Historical waste lines and underground vault, Radioactive Liquid Waste Treatment Facility	38.6	Mortandad	Middle Mortandad/Ten-Site
50-004(c)	Waste lines	50-004(a)-00	Historical waste lines and underground vault, Radioactive Liquid Waste Treatment Facility	10.6	Mortandad	Middle Mortandad/Ten-Site
50-006(c)	Operational release			38.6	Mortandad	Middle Mortandad/Ten-Site
50-007	Incinerator			38.6	Mortandad	Middle Mortandad/Ten-Site
50-008	Reduction site			38.6	Mortandad	Middle Mortandad/Ten-Site
50-010	Decontamination facility				Mortandad	Middle Mortandad/Ten-Site
50-011(a)	Septic system			38.6	Mortandad	Middle Mortandad/Ten-Site
50-011(b)	Lift stations				Mortandad	Middle Mortandad/Ten-Site
51-001	Septic system			8.8	Mortandad	Middle Canada del Buey
52-001(d)	UHTREX equipment			3.6	Mortandad	Upper Canada del Buey
52-002(a)	Septic system			3.6	Mortandad	Middle Mortandad/Ten-Site
52-003(a)	Waste treatment facility				Mortandad	Middle Mortandad/Ten-Site

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
53-001(a)	Storage area - PCB only site			10.6	Sandia	Lower Sandia
53-001(b)	Storage area			3.6	Sandia	Lower Sandia
53-002(b)	Disposal lagoon RCRA corrective action (active)	53-002(a)-99	Former surface impoundment	3.6	Sandia	Lower Sandia
53-005	Disposal pit			18	Sandia	Lower Sandia
53-006(b)	Underground tank	53-006(b)-99	Underground tank	3.6	Sandia	Lower Sandia
53-006(c)	Underground tank	53-006(b)-99	Underground tank	3.6	Sandia	Lower Sandia
53-006(d)	Underground tank	53-006(d)-99	Underground tank	3.6	Sandia	Lower Sandia
53-006(e)	Underground tank	53-006(d)-99	Underground tank	3.6	Sandia	Lower Sandia
53-006(f)	Underground tank			3.6	Sandia	Lower Sandia
53-007(a)	Aboveground neutralizer tank			3.6	Sandia	Lower Sandia
53-009	Aboveground tanks (3)				Sandia	Lower Sandia
53-010	Container storage				Sandia	Lower Sandia
53-012(e)	Outfall			15.8	Sandia	Lower Sandia
53-013	Soil Contamination -lead storage site I				Sandia	Lower Sandia
53-015	Radioactive Liquid Waste Treatment System				Sandia	Lower Sandia
54-001(a)	Storage area			22.3	Mortandad	Middle Canada del Buey
54-001(b)	Storage area				Mortandad	Middle Canada del Buey
54-001(d)	Storage area			3.6	Mortandad	Middle Canada del Buey
54-001(e)	Storage area				Mortandad	Middle Canada del Buey
54-002	Storage area (gas cylinder storage area)				Mortandad	Middle Canada del Buey
54-005	Material disposal area (MDA J) (Pits 1-5, Shafts 1-4)			20.9	Pajarito	Starmer/Upper Pajarito
54-006	Material disposal area (MDA L) (all subsurface units such as Pit A, SI B,C,D, Shafts 1-28, 29-34)			10.6	Mortandad	Middle Canada del Buey
54-007(a)	Septic system			20.5	Pajarito	Lower Pajarito
54-007(d)	Septic system			23.3	Pajarito	Lower Pajarito
54-009	Aboveground tanks (treatment tanks)				Pajarito	Lower Pajarito
54-012(a)	Former reduction site (drum compactor)				Pajarito	Lower Pajarito
54-012(b)	Reduction site			22.3	Pajarito	Lower Pajarito
54-013(b)	Material disposal area (MDA G) disposal pit (truck washing pit converted to Pit 19)	54-013(b)-99	Material disposal area (MDA G) subsurface waste ma	3.6	Pajarito	Lower Pajarito
54-014(a)	Material disposal area (MDA L) storage shafts (Pb stringer shafts)				Pajarito	Lower Pajarito

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
54-014(b)	Material disposal area (MDA G) storage pit (Pit 9, TRU waste)	54-013(b)-99	Material disposal area (MDA G) subsurface waste ma	14	Pajarito	Lower Pajarito
54-014(c)	Material disposal area (MDA G) storage shafts (shafts 200-233)	54-013(b)-99	Material disposal area (MDA G) subsurface waste ma	39.8	Pajarito	Lower Pajarito
54-015(a)	Storage area (surface corrosive inhibitor)			3.6	Pajarito	Lower Pajarito
54-015(b)	Pit 39- LLW disposal area (former TRU surface storage)			27	Pajarito	Lower Pajarito
54-015(c)	Storage area, TRU Pad 1			3.6	Pajarito	Lower Pajarito
54-015(d)	Storage area, TRU Pad 2			27	Pajarito	Lower Pajarito
54-015(e)	Storage area, TRU Pad 3			3.6	Pajarito	Lower Pajarito
54-015(f)	Storage area, TRU Pad 4			27	Pajarito	Lower Pajarito
54-015(j)	Storage area (Dome #49, mixed waste sludge)				Pajarito	Lower Pajarito
54-015(k)	Storage area (TRU waste mound)	54-013(b)-99	Material disposal area (MDA G) subsurface waste ma	18	Pajarito	Lower Pajarito
54-016(b)	Sump				Pajarito	Lower Pajarito
54-019	Material disposal area (MDA G) disposal shafts (active before 11/19/80)	54-013(b)-99	Material disposal area (MDA G) subsurface waste ma	27.5	Pajarito	Lower Pajarito
55-008	Sumps and tanks			3.6	Mortandad	Upper Mortandad
55-009	Concrete enclosure			10.6	Mortandad	Upper Mortandad
57-001(b)	Settling ponds			22.3	Lake Fork	Lake Fork
57-001(c)	Settling pond				Lake Fork	Lake Fork
57-002	Sludge pit			15.3	Lake Fork	Lake Fork
57-004(a)	Settling ponds			15.3	Lake Fork	Lake Fork
57-004(b)	Settling pond				Lake Fork	Lake Fork
57-006	Drum and contents, Fenton Hill (removed)			15.8	Lake Fork	Lake Fork
57-007	Leach field			15.8	Lake Fork	Lake Fork
59-004	Outfall			24	Pajarito	Twomile
60-002	Storage area			3.6	Sandia	Upper Sandia
60-004(b)	Storage area			8.8	Sandia	Upper Sandia
60-004(c)	Storage area				Mortandad	Middle Mortandad/Ten-Site
60-004(d)	Storage area			8.8	Sandia	Upper Sandia
60-004(e)	Storage area			32.5	Mortandad	Middle Mortandad/Ten-Site
60-004(f)	Storage area				Sandia	Upper Sandia
60-005(a)	Surface impoundment -formerly SWMU 03-029(a)			15.3	Mortandad	Middle Mortandad/Ten-Site

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
60-006(a)	Septic system			22.3	Sandia	Upper Sandia
60-007(a)	Systematic or intent. prod. release			15.3	Sandia	Upper Sandia
61-002	Transformer storage area - PCB only site			10.6	Sandia	Upper Sandia
61-005	Landfill (Los Alamos municipal)			27	Sandia	Upper Sandia
61-006	Waste oil tank			22.3	Sandia	Upper Sandia
63-001(a)	Septic system			24	Mortandad	Middle Mortandad/Ten-Site
63-001(b)	Septic system			24	Mortandad	Middle Mortandad/Ten-Site
69-001	Incinerator and associated equipment			27.5	Pajarito	Twomile
73-001(b)	Surface disposal site (waste oil pit)	73-001(b)-99	Former landfill	22.3	Los Alamos/Pueblo	Pueblo
73-001(c)	Landfill	73-001(b)-99	Former landfill	3.6	Los Alamos/Pueblo	Pueblo
73-001(d)	Landfill	73-001(b)-99	Former landfill	22.3	Los Alamos/Pueblo	Pueblo
73-003	Steam cleaning plant	73-002-99	Miscellaneous airport structures	10.6	Los Alamos/Pueblo	Pueblo
73-004(a)	Septic tank	73-002-99	Miscellaneous airport structures	3.6	Los Alamos/Pueblo	Pueblo
73-004(b)	Septic tank	73-002-99	Miscellaneous airport structures	10.6	Los Alamos/Pueblo	Pueblo
73-004(c)	Septic system			10.6	Los Alamos/Pueblo	Pueblo
C-00-001	Guaje Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-002	Rendija Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-003	Barrancas Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-004	Bayo Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-005	Pueblo Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-006	Los Alamos Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-007	Sandia Canyon				Sandia	Sandia Canyons
C-00-008	Mortandad Canyon				Mortandad	Mortandad/Canada del Buey Canyons
C-00-009	Canada del Buey Canyon				Mortandad	Mortandad/Canada del Buey Canyons
C-00-010	TwoMile Canyon				Pajarito	Pajarito Canyons
C-00-011	Pajarito Canyon				Pajarito	Pajarito Canyons
C-00-012	Three Mile Canyon				Pajarito	Pajarito Canyons
C-00-013	Potrillo Canyon				Water/Canon de Valle	Water/Valle Canyons
C-00-014	Canon de Valle Canyon				Water/Canon de Valle	Water/Valle Canyons
C-00-015	Fence Canyon				Water/Canon de Valle	Water/Valle Canyons
C-00-016	Water Canyon				Water/Canon de Valle	Water/Valle Canyons
C-00-017	Indio Canyon				Water/Canon de Valle	Water/Valle Canyons
C-00-018	Ancho Canyon				Ancho	Ancho Canyons
C-00-019	Chaquehui Canyon				Chaquehui	Chaquehui Canyons

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
C-00-020	Mortar impact area				Los Alamos/Pueblo	Rendija/Barrancas/Guaje
C-00-021	DP Canyon				Los Alamos/Pueblo	LA/Pueblo Canyons
C-00-037	Landfill, Bandelier NM				Frijoles	Frijoles
C-00-038	Surface disposal, Bandelier NM				Frijoles	Frijoles
C-00-042	Tank (formerly part of SWMU 00-032)				Los Alamos/Pueblo	Upper Los Alamos
C-00-043	Manhole (removed)				Los Alamos/Pueblo	Pueblo
C-03-006	One-time spill				Mortandad	Upper Mortandad
C-03-014	Storage area	03-049(b)-00	Miscellaneous	22.3	Mortandad	Upper Mortandad
C-03-016	Oil metal bin			15.3	Sandia	Upper Sandia
C-06-001	Building			8.8	Pajarito	Twomile
C-06-005	Building TA-6-13 chemistry laboratory, assembly, and storage	06-002-00	Firing site - eastern aggregate	3.6	Pajarito	Twomile
C-06-006	Building TA-6-14 used for explosives pressing and storage	06-002-00	Firing site - eastern aggregate	3.6	Pajarito	Twomile
C-06-016	Building TA-6-28, magazine used for explosives storage	06-002-00	Firing site - eastern aggregate	3.6	Pajarito	Twomile
C-06-019	Building	06-003(a)-99	Former firing site		Pajarito	Twomile
C-08-010	Building			17.5	Pajarito	Starmer/Upper Pajarito
C-08-014	Laboratory				Pajarito	Starmer/Upper Pajarito
C-09-001	Soil contamination			33.7	Pajarito	Starmer/Upper Pajarito
C-10-001	Surface soil, Bayo Canyon			15.6	Los Alamos/Pueblo	Bayo
C-11-001	Laboratory	11-006(a)-99	Former firing site	3.6	Water/Canon de Valle	S-Site (Martin)
C-11-002	Laboratory			35	Water/Canon de Valle	S-Site (Martin)
C-12-001	Building				Pajarito	Threemile
C-12-002	Building				Pajarito	Threemile
C-12-003	Building				Pajarito	Starmer/Upper Pajarito
C-12-004	Building				Pajarito	Threemile
C-12-005	Building	12-001(a)-99	Former firing site		Pajarito	Threemile
C-14-001	Building			15.3	Water/Canon de Valle	Canon de Valle
C-14-003	Building			14	Water/Canon de Valle	Canon de Valle
C-14-004	Building			8.8	Water/Canon de Valle	Canon de Valle
C-14-005	Building			14	Water/Canon de Valle	Canon de Valle
C-14-006	Building			19.7	Pajarito	Threemile
C-14-007	Building			3.6	Water/Canon de Valle	Canon de Valle
C-14-008	Building	14-002(a)-99	Former firing site	8.8	Water/Canon de Valle	Canon de Valle
C-14-009	Building			29.6	Water/Canon de Valle	Canon de Valle

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
C-15-001	Surface disposal			15.7	Water/Canon de Valle	Canon de Valle
C-15-005	Former laboratory and building			3.6	Water/Canon de Valle	Potrillo/Fence
C-15-006	Building			3.6	Water/Canon de Valle	Potrillo/Fence
C-15-010	Former underground tank			8.8	Water/Canon de Valle	Canon de Valle
C-15-011	Former underground tank			10.6	Water/Canon de Valle	Lower Water/Indio
C-16-002	Building 16-262			3.6	Water/Canon de Valle	Canon de Valle
C-16-005	Building	16-029(b2)-99	Former structures (GMX-2 HE processing building)	3.6	Water/Canon de Valle	Upper Water
C-16-006	Building TA-16-148	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
C-16-011	Building TA-16-132			12.7	Water/Canon de Valle	Canon de Valle
C-16-025	Building	16-017(i)-99	Storage building	3.6	Water/Canon de Valle	Upper Water
C-16-026	Building	16-017(i)-99	Storage building	3.6	Water/Canon de Valle	Upper Water
C-16-028	Former structure			3.6	Water/Canon de Valle	Upper Water
C-16-030	Former structure			3.6	Water/Canon de Valle	Upper Water
C-16-031	Building			3.6	Water/Canon de Valle	Upper Water
C-16-060	Soil contamination area			8.8	Water/Canon de Valle	S-Site (Martin)
C-16-064	Drum storage area (HE scrap pick-up)	16-029(q)-99	HE machining building and associated structures	3.6	Water/Canon de Valle	Canon de Valle
C-16-065	Drum storage area TA-16-185	16-026(q)-99	20s-Line and associated structures	10.5	Water/Canon de Valle	Upper Water
C-16-067	Storage area	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	3.6	Water/Canon de Valle	Canon de Valle
C-16-068	Building 16-522	16-013-99	V-Site courtyard	8.8	Water/Canon de Valle	S-Site (Martin)
C-16-069	Media contamination area			3.6	Water/Canon de Valle	Upper Water
C-16-073	Underground tank			3.6	Water/Canon de Valle	Upper Water
C-16-074	Storage	16-013-99	V-Site courtyard	3.6	Water/Canon de Valle	S-Site (Martin)
C-16-075	Spill location near Building 16-340				Water/Canon de Valle	S-Site (Martin)
C-19-001	Soil contamination	19-001-99	Former East Gate Laboratory and septic system		Los Alamos/Pueblo	Pueblo
C-21-001	One-time spill Building 21-17				Los Alamos/Pueblo	Middle Los Alamos
C-21-005	One-time spill				Los Alamos/Pueblo	Middle Los Alamos
C-21-006	Non-intentional release area Building 21-2				Los Alamos/Pueblo	Middle Los Alamos
C-21-007	Non-intentional release area				Los Alamos/Pueblo	Middle Los Alamos
C-21-009	One-time spill	21-016(a)-99	Material disposal area (MDA T)		Los Alamos/Pueblo	Middle Los Alamos
C-21-012	One-time spill	21-016(a)-99	Material disposal area (MDA T)		Los Alamos/Pueblo	Middle Los Alamos
C-21-027	Machinery				Los Alamos/Pueblo	Middle Los Alamos
C-21-033	One-time spill				Los Alamos/Pueblo	Middle Los Alamos

Site ID	Site Name	Consolidated Unit ID	Consolidated Unit Name	Erosion Matrix Score	Watershed	Sub-Watershed
C-21-034	Tank				Los Alamos/Pueblo	Middle Los Alamos
C-21-035	Aboveground tank				Los Alamos/Pueblo	Middle Los Alamos
C-21-036	Aboveground tank				Los Alamos/Pueblo	Middle Los Alamos
C-21-037	Aboveground tank				Los Alamos/Pueblo	Middle Los Alamos
C-33-002	Transformer			8.8	Ancho	South Ancho
C-35-007	Soil contamination			39.5	Mortandad	Middle Mortandad/Ten-Site
C-36-006(e)	I-J Firing Site, projectile test area [duplicate of SWMU 15-006(e)] (active)			15.3	Water/Canon de Valle	Potrillo/Fence
C-45-001	Parking lot of former treatment plant (inactive)	45-001-00	Wastewater treatment plant - TA-45		Los Alamos/Pueblo	Rendija/Barrancas/Guaje
C-46-002	Stack emissions	46-004(d2)-99	Stack emissions/outfalls		Mortandad	Upper Canada del Buey
C-46-003	Stack emissions	46-004(d2)-99	Stack emissions/outfalls		Mortandad	Upper Canada del Buey
C-50-001	Transformer - PCB only site				Pajarito	Twomile
C-61-002	Subsurface contamination				Sandia	Upper Sandia

Appendix 6.

Sites with Medium Potential (40-60) and High Potential (>60) to Impact Surface Water Quality

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
Medium Potential Sites									
00-018(a)	Sludge-bed wastewater treatment plant, Pueblo Canyon	NMED				42.8	Los Alamos/Pueblo	Pueblo	No
00-019	Wastewater treatment plant, central	NMED				51.5	Los Alamos/Pueblo	Pueblo	No
00-030(g)	Septic system (near old Catholic Church parking lot)	NMED				47.2	Los Alamos/Pueblo	Pueblo	No
00-030(i)	Septic system	DOE				54.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-001(f)	Septic Tank 140 (hillside)	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	56.7	Los Alamos/Pueblo	Upper Los Alamos	No
01-003(d)	Surface disposal site	NMED				49.5	Los Alamos/Pueblo	Upper Los Alamos	No
02-003(a)	Valve house and gaseous effluent line	DOE				57.6	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-003(e)	Holding tank (near reactor water boiler)	DOE				40.5	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-006(b)	Acid waste line	NMED				51.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-007	Septic system	NMED	02-007-00	Former structures, Omega West Reactor	NMED	44.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-008(a)	Outfall	NMED				55.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-009(a)	Non-intentional release	NMED	02-007-00	Former structures, Omega West Reactor	NMED	57	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-009(b)	Non-intentional release	NMED	02-007-00	Former structures, Omega West Reactor	NMED	44.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-009(c)	Non-intentional release	NMED	02-007-00	Former structures, Omega West Reactor	NMED	51.3	Los Alamos/Pueblo	Middle Los Alamos/DP	No
02-011(a)	Storm drain and outfall	DOE				57	Los Alamos/Pueblo	Middle Los Alamos/DP	No
03-003(m)	Storage area (capacitor banks) - PCB only site	DOE				46.3	Sandia	Upper Sandia	No
03-009(d)	Surface disposal site	NMED				42.8	Pajarito	Twomile	No
03-013(a)	Operational release	NMED	03-013(a)-00	Drainlines and outfalls	NMED	45	Sandia	Upper Sandia	No
03-013(b)	Operational release	DOE				45	Sandia	Upper Sandia	No
03-014(b2)	Outfall	DOE	03-014(a)-99	Wastewater treatment plant	NMED	46.3	Sandia	Upper Sandia	No
03-029	Landfill	NMED	03-009(a)-00	Asphalt batch plant	NMED	44.3	Sandia	Upper Sandia	No
03-045(c)	Outfall	NMED	03-012(b)-00	Miscellaneous - TA-03 power plant	NMED	57.7	Sandia	Upper Sandia	No
03-052(f)	Storm drainage	NMED	03-013(a)-00	Drainlines and outfalls	NMED	45	Sandia	Upper Sandia	No
03-056(c)	Transformer storage area - PCB only site	NMED				45	Sandia	Upper Sandia	No
04-001	Firing site	NMED	04-001-99	Firing site - Alpha Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
04-002	Surface disposal	NMED	04-001-99	Firing site - Alpha Site	NMED	51.5	Mortandad	Middle Mortandad/Ten Site	No
04-003(a)	Outfall	NMED	04-003(a)-00	Alpha Site Photoprocessing Building, drainlines, and outfall	NMED	57.3	Mortandad	Upper Canada del Buey	No
04-003(b)	Outfall	NMED	04-001-99	Firing site - Alpha Site	NMED	51.5	Mortandad	Middle Mortandad/Ten Site	No
04-004	Soil contamination beneath buildings	DOE	04-003(a)-00	Alpha Site Photoprocessing Building, drainlines, and outfall	NMED	57.3	Mortandad	Upper Canada del Buey	No
05-001(a)	Former firing site	NMED	05-001(a)-99	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
05-001(b)	Former firing site	NMED	05-001(a)-99	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
05-004	Former septic system	NMED				49.7	Mortandad	Lower Mortandad/Cedro	No
05-005(a)	Former French drain	NMED	05-005(a)-00	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
05-005(b)	Outfall	NMED	05-005(b)-00	Former structures	NMED	53.7	Mortandad	Lower Mortandad/Cedro	No
05-006(b)	Soil contamination beneath former buildings	NMED	05-005(a)-00	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
05-006(c)	Soil contamination beneath former buildings	NMED	05-005(b)-00	Former structures	NMED	53.7	Mortandad	Lower Mortandad/Cedro	No
05-006(e)	Soil contamination beneath former buildings	NMED	05-005(a)-00	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
05-006(h)	Soil contamination beneath former buildings	NMED	05-001(a)-99	Firing site - Beta Site	NMED	45	Mortandad	Middle Mortandad/Ten Site	No
06-007(g)	Building and surface disposal	NMED				50.8	Pajarito	Twomile	No
07-001(b)	Firing site (inactive)	NMED	07-001(a)-99	Former firing sites	NMED	55.5	Pajarito	Twomile	No
07-001(c)	Firing site (inactive)	NMED	07-001(a)-99	Former firing sites	NMED	46.7	Pajarito	Twomile	No
07-001(d)	Firing site (inactive)	NMED	07-001(a)-99	Former firing sites	NMED	55.5	Pajarito	Twomile	No
08-005	Container storage area	NMED				51	Pajarito	Upper Pajarito	No
08-006(a)	Material disposal area (MDA Q)	NMED				55.5	Pajarito	Upper Pajarito	No
08-009(d)	Industrial or sanitary wastewater treatment	NMED				40.2	Pajarito	Upper Pajarito	No
08-009(f)	Outfall	DOE				42	Pajarito	Upper Pajarito	No
09-004(o)	Settling tank	NMED				43.8	Pajarito	Upper Pajarito	No
09-005(a)	Septic system	NMED	09-008(b)-99	Septic tanks and sewage oxidation pond	NMED	51	Pajarito	Upper Pajarito	No
09-005(g)	Septic tank	NMED				51	Pajarito	Upper Pajarito	No
09-009	Surface impoundment	NMED				58.8	Pajarito	Upper Pajarito	No
09-013	Material disposal area (MDA M)	NMED				56	Pajarito	Upper Pajarito	No
11-001(c)	Firing site (inactive)	NMED				56.2	Water/Canon de Valle	Upper Water	No
11-003(b)	Air gun	DOE				55.5	Water/Canon de Valle	S-Site (Martin)	No
11-004(a)	Drop tower - firing site (active)	NMED	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-004(b)	Drop tower - firing site (active)	NMED	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-004(c)	Drop tower - firing site (active)	NMED	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-004(d)	Drop tower - firing site (active)	NMED	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-004(e)	Drop tower - firing site (active)	NMED	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-004(f)	Drop tower - firing site (active)	DOE	11-004(a)-99	Drop test tower and related structures	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
11-005(c)	Outfall (inactive)	NMED				59	Water/Canon de Valle	S-Site (Martin)	No
11-006(b)	Tank and/or associated equipment	NMED	11-006(a)-99	Former firing site	NMED	52	Water/Canon de Valle	S-Site (Martin)	No
14-001(g)	Firing site - Open Burn/Open Detonation (active)	DOE				53.3	Water/Canon de Valle	Canon de Valle	No
14-002(a)	Firing site (inactive)	NMED	14-002(a)-99	Former firing site	NMED	46.3	Water/Canon de Valle	Canon de Valle	No
14-002(d)	Firing site (inactive)	NMED	14-002(c)-99	Former firing site	NMED	40.8	Water/Canon de Valle	Canon de Valle	No
14-002(e)	Firing site (inactive)	NMED	14-002(c)-99	Former firing site	NMED	47.8	Water/Canon de Valle	Canon de Valle	No
14-005	Incinerator (active)	NMED				57.3	Water/Canon de Valle	Canon de Valle	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
14-006	Tank and/or associated equipment	NMED				47.1	Water/Canon de Valle	Canon de Valle	No
14-009	Surface disposal site	NMED	14-002(a)-99	Former firing site	NMED	53.7	Water/Canon de Valle	Canon de Valle	No
14-010	Sump	NMED	14-002(a)-99	Former firing site	NMED	51.5	Water/Canon de Valle	Canon de Valle	No
15-007(b)	Material disposal area (MDA Z) landfill	NMED				40.2	Water/Canon de Valle	Canon de Valle	No
15-008(f)	I-J Firing Site mounds at TA-36 (active)	DOE				57.3	Water/Canon de Valle	Potrillo/Fence	No
15-009(e)	Septic system, E/F Site	NMED				44.7	Water/Canon de Valle	Potrillo/Fence	No
15-010(c)	Drainline	NMED				51.5	Water/Canon de Valle	Lower Water/Indio	No
15-014(g)	Industrial or sanitary wastewater treatment	DOE				55.5	Water/Canon de Valle	Canon de Valle	No
16-001(b)	Dry wells	NMED	16-001(a)-99	Former steam plant	NMED	45	Water/Canon de Valle	Canon de Valle	No
16-001(c)	Tank	NMED	16-001(a)-99	Former steam plant	NMED	45	Water/Canon de Valle	Canon de Valle	No
16-001(d)	Dry well	NMED				45.6	Water/Canon de Valle	Upper Water	No
16-003(a)	Sump	NMED				55.5	Water/Canon de Valle	Upper Water	No
16-003(f)	Sump	NMED	16-003(d)-99	Sumps and associated dry well	NMED	56	Water/Canon de Valle	S-Site (Martin)	No
16-006(c)	Septic system	NMED	16-006(c)-00	Septic system	NMED	49.5	Water/Canon de Valle	Upper Water	No
16-006(g)	Septic tank	NMED	16-029(x)-99	V-Site: Buildings 16-100, 16-515 and associated structures	NMED	46	Water/Canon de Valle	S-Site (Martin)	No
16-010(b)	Flash pad; RCRA unit (undergoing closure)	NMED				55.5	Water/Canon de Valle	Canon de Valle	No
16-010(c)	Burn site 16-388 - RCRA Unit (active)	NMED				47.2	Water/Canon de Valle	Canon de Valle	No
16-010(d)	Burn site 16-399 - RCRA unit (active)	NMED				50.3	Water/Canon de Valle	Canon de Valle	No
16-016(d)	Surface disposal site	NMED				44.5	Water/Canon de Valle	Canon de Valle	No
16-016(g)	Surface disposal site	NMED				46.1	Water/Canon de Valle	Upper Water	No
16-026(j)	Outfall, 16-226	NMED				40.2	Water/Canon de Valle	Canon de Valle	No
16-026(z)	Outfall	NMED				49.6	Water/Canon de Valle	S-Site (Martin)	No
16-028(a)	South drainage channel	NMED				51.5	Water/Canon de Valle	Canon de Valle	No
16-028(e)	Industrial or sanitary wastewater treatment	NMED	16-029(g)-99	Sump and outfall, 16-450	NMED	47.2	Water/Canon de Valle	Upper Water	No
16-029(s)	Sump	NMED	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	NMED	45.5	Water/Canon de Valle	Canon de Valle	No
16-029(t)	Sump	NMED	16-008(a)-99	90s-Line: 16-89, 16-90, 16-91, 16-92, 16-93	NMED	41.5	Water/Canon de Valle	Canon de Valle	No
18-010(d)	Outfall	DOE				46.2	Pajarito	Lower Pajarito	No
18-012(a)	Outfall	NMED				59.2	Pajarito	Lower Pajarito	No
18-012(b)	Outfall	NMED	18-001(c)-00	Tanks, sumps, outfalls	NMED	46.6	Pajarito	Lower Pajarito	No
20-002(a)	Firing site	NMED	20-001(c)-00	Landfill	NMED	48.6	Sandia	Lower Sandia	No
20-003(c)	Firing site	DOE	20-001(b)-00	Firing site	NMED	57.4	Sandia	Lower Sandia	No
21-011(c)	Tank and sump	NMED	21-016(a)-99	Material disposal area (MDA T)	NMED	54	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-016(a)	Material disposal area (MDA T)	NMED	21-016(a)-99	Material disposal area (MDA T)	NMED	54	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-016(b)	Material disposal area (MDA T)	NMED	21-016(a)-99	Material disposal area (MDA T)	NMED	54	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-016(c)	Material disposal area (MDA T)	NMED	21-016(a)-99	Material disposal area (MDA T)	NMED	54	Los Alamos/Pueblo	Middle Los Alamos/DP	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
21-024(e)	Septic system	NMED				56	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-024(h)	Septic system	NMED				54	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-024(i)	Septic system	NMED				53.7	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-027(a)	Industrial or sanitary wastewater treatment	NMED				52	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-027(d)	Drainline	NMED	21-027(d)-99	Aboveground storage tank and outfall	NMED	45	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-029	Soil contamination area	NMED				56.6	Los Alamos/Pueblo	Middle Los Alamos/DP	No
22-014(b)	Sump	NMED				56	Pajarito	Twomile	No
22-015(c)	Outfall	NMED				51.5	Pajarito	Upper Pajarito	No
32-004	Drainline and outfall	DOE				42	Los Alamos/Pueblo	Upper Los Alamos	No
33-004(d)	Septic system	NMED				56	Chaquehui	Chaquehui	No
33-004(h)	Outfall	NMED	33-004(a)-00	Firing site - Main Site	NMED	56.6	Chaquehui	Chaquehui	No
33-005(a)	Septic system	NMED	33-005(a)-00	Former structures - Main Site	NMED	49	Chaquehui	Chaquehui	No
33-005(b)	Septic system	NMED	33-005(a)-00	Former structures - Main Site	NMED	49	Chaquehui	Chaquehui	No
33-005(c)	Septic system	NMED	33-005(a)-00	Former structures - Main Site	NMED	49	Chaquehui	Chaquehui	No
33-006(a)	Firing site (inactive)	NMED	33-004(j)-00	Firing site - South Site	NMED	56	Chaquehui	Chaquehui	No
33-007(b)	Firing range (inactive)	NMED	33-004(j)-00	Firing site - South Site	NMED	59.3	Chaquehui	Chaquehui	No
33-008(c)	Landfill	DOE				56	Chaquehui	Chaquehui	No
33-010(a)	Surface disposal	NMED	33-006(b)-00	Firing site - East Site	NMED	53.2	Ancho	South Ancho	No
33-010(b)	Surface disposal	NMED				45	Ancho	South Ancho	No
33-010(d)	Surface disposal	NMED				45	Ancho	South Ancho	No
33-010(f)	Surface disposal	NMED	33-002(a)-99	Material disposal area (MDA K)	NMED	47.2	Chaquehui	Chaquehui	No
33-010(g)	Surface disposal	NMED				47.8	Chaquehui	Chaquehui	No
33-011(b)	Storage area	DOE				49	Chaquehui	Chaquehui	No
33-015	Incinerator	NMED	33-004(a)-00	Firing site - Main Site	NMED	50.8	Chaquehui	Chaquehui	No
33-016	Sump	NMED				54.5	Chaquehui	Chaquehui	No
35-003(d)	Wastewater treatment facility	NMED	35-003(d)-00	Wastewater treatment plant - Pratt Canyon	NMED	59	Mortandad	Middle Mortandad/Ten Site	No
35-003(h)	Wastewater treatment facility	NMED	35-003(a)-99	Wastewater treatment plant	NMED	44.2	Mortandad	Middle Mortandad/Ten Site	No
35-003(l)	Wastewater treatment facility	NMED	35-003(d)-00	Wastewater treatment plant - Pratt Canyon	NMED	59	Mortandad	Middle Mortandad/Ten Site	No
35-003(p)	Wastewater treatment facility	NMED	35-003(a)-99	Wastewater treatment plant	NMED	50.8	Mortandad	Middle Mortandad/Ten Site	No
35-003(q)	Wastewater treatment facility	NMED	35-003(d)-00	Wastewater treatment plant - Pratt Canyon	NMED	59	Mortandad	Middle Mortandad/Ten Site	No
35-004(h)	Container storage area	NMED				50.8	Mortandad	Middle Mortandad/Ten Site	No
35-014(e2)	Oil Spill	DOE	35-016(i)-00	Drainlines and outfalls	NMED	45.6	Mortandad	Middle Mortandad/Ten Site	No
35-016(c)	Outfall	NMED	35-016(c)-00	Drainlines and outfall	NMED	47.2	Mortandad	Middle Mortandad/Ten Site	No
35-016(k)	Drains and outfalls	NMED	35-016(k)-00	Drainlines and outfalls	NMED	53	Mortandad	Middle Mortandad/Ten Site	No
35-016(n)	Storm drain	DOE	35-014(g)-00	Soil contamination area	NMED	42.8	Mortandad	Middle Mortandad/Ten Site	No
36-001	Material disposal area (MDA AA)	NMED				45.7	Water/Canon de Valle	Potrillo/Fence	No
36-003(b)	Septic system, I-J Site	NMED				50.2	Water/Canon de Valle	Potrillo/Fence	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
36-004(a)	Firing site (active)	DOE	36-006-99	Former firing site	NMED	48.5	Water/Canon de Valle	Potrillo/Fence	No
36-004(b)	Firing site (active)	DOE				57.3	Water/Canon de Valle	Potrillo/Fence	No
36-004(e)	I-J Firing Site (active)	DOE				57.3	Water/Canon de Valle	Potrillo/Fence	No
36-005	Surface disposal site	NMED				45.4	Water/Canon de Valle	Potrillo/Fence	No
36-008	NEW SWMU - Surface disposal area located near TA-36-1	DOE				52	Pajarito	Threemile	No
40-003(a)	Scrap burn site - completed RCRA closure	NMED				46.3	Pajarito	Upper Pajarito	No
40-003(b)	Burning area/open detonation (closure)	DOE				46.3	Pajarito	Upper Pajarito	No
40-006(a)	Firing site (active)	NMED				56.2	Pajarito	Upper Pajarito	No
40-009	Landfill	NMED				54.5	Pajarito	Upper Pajarito	No
40-010	Surface disposal site	NMED				40.2	Pajarito	Upper Pajarito	No
45-001	Wastewater treatment facility	NMED	45-001-00	Wastewater treatment plant - TA-45	NMED	50.3	Los Alamos/Pueblo	Pueblo	No
45-004	Sanitary sewer outfall	NMED	45-001-00	Wastewater treatment plant - TA-45	NMED	50.2	Los Alamos/Pueblo	Pueblo	No
46-002	Surface impoundment	NMED				52.8	Mortandad	Upper Canada del Buey	No
46-003(a)	Septic system	NMED				44.7	Mortandad	Upper Canada del Buey	No
46-003(b)	Septic system	NMED				55.5	Mortandad	Upper Canada del Buey	No
46-003(e)	Septic system	NMED				50.8	Mortandad	Upper Canada del Buey	No
46-004(a)	Waste line	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(a2)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(c2)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(d2)	Stack emissions	NMED	46-004(d2)-99	Stack emissions/outfalls	NMED	56	Mortandad	Upper Canada del Buey	No
46-004(g)	Outfall / stack emissions	NMED	46-004(d2)-99	Stack emissions/outfalls	NMED	56	Mortandad	Upper Canada del Buey	No
46-004(h)	Outfall / stack emissions	NMED	46-004(d2)-99	Stack emissions/outfalls	NMED	56	Mortandad	Upper Canada del Buey	No
46-004(m)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(q)	Outfall	NMED				45	Mortandad	Upper Canada del Buey	No
46-004(s)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(u)	Outfall	NMED				45	Mortandad	Upper Canada del Buey	No
46-004(v)	Outfall	NMED				45	Mortandad	Upper Canada del Buey	No
46-004(x)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(y)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-004(z)	Outfall	NMED				49	Mortandad	Upper Canada del Buey	No
46-005	Surface impoundment	NMED				52.8	Mortandad	Upper Canada del Buey	No
46-006(d)	Operational release	NMED				49	Mortandad	Upper Canada del Buey	No
46-009(a)	Surface disposal	NMED				57	Mortandad	Upper Canada del Buey	No
48-003	Septic system	NMED				40.7	Mortandad	Upper Mortandad	No
48-007(a)	Drains and outfalls	NMED	48-007(a)-00	Drainlines and outfalls	NMED	55.8	Mortandad	Upper Mortandad	No
48-007(b)	Drains and outfalls	NMED				49.3	Mortandad	Upper Mortandad	No
48-007(d)	Drains and outfalls	NMED	48-007(a)-00	Drainlines and outfalls	NMED	55.8	Mortandad	Upper Mortandad	No
49-001(a)	Material disposal area (MDA AB) (experimental shafts)	NMED	49-001(a)-00	Material disposal area (MDA AB)	NMED	54.8	Water/Canon de Valle	Lower Water/Indio	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
49-001(g)	Material disposal area (MDA AB) (miscellaneous)	NMED	49-001(a)-00	Material disposal area (MDA AB)	NMED	59.2	Water/Canon de Valle	Lower Water/Indio	No
50-009	Material disposal area (MDA C)	NMED				54.8	Mortandad	Middle Mortandad/Ten Site	No
53-002(a)	Disposal lagoon (NE, NW impoundments) (inactive)	NMED	53-002(a)-99	Former surface impoundment	NMED	47.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
54-004	Material disposal area (MDA H)	NMED				45.6	Pajarito	Upper Pajarito	No
54-018	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	NMED	54-013(b)-99	Material disposal area (MDA G) subsurface waste management units	NMED	52.6	Pajarito	Lower Pajarito	No
54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	NMED	54-013(b)-99	Material disposal area (MDA G) subsurface waste management units	NMED	53.7	Pajarito	Lower Pajarito	No
60-007(b)	Systematic or intent. prod. release	NMED				43.8	Sandia	Upper Sandia	No
61-007	Transformer site - systematic leak - PCB only site	NMED				43.8	Los Alamos/Pueblo	Upper Los Alamos	No
73-002	Incinerator surface disposal	NMED	73-002-99	Miscellaneous airport structures	NMED	56	Los Alamos/Pueblo	Pueblo	No
73-004(d)	Septic tank (landfill)	NMED	73-001(a)-99	Former landfill	NMED	46.7	Los Alamos/Pueblo	Pueblo	No
73-006	Airport building outfalls	NMED	73-002-99	Miscellaneous airport structures	NMED	56	Los Alamos/Pueblo	Pueblo	No
C-00-041	Asphalt and tar remnant site	DOE				42.8	Los Alamos/Pueblo	Rendija/Barrancas/Guaje	No
C-15-004	Transformers - PCB only site	DOE				43.9	Water/Canon de Valle	Potrillo/Fence	No
C-15-007	Non-intentional release	DOE				51.5	Water/Canon de Valle	Canon de Valle	No
C-33-001	Transformer	DOE				56	Chaquehui	Chaquehui	No
C-33-003	Soil contamination area	DOE				59	Chaquehui	Chaquehui	No
C-36-001	Containment vessel	DOE				57.3	Water/Canon de Valle	Potrillo/Fence	No
C-36-003	Storm drainages	NMED				52	Pajarito	Threemile	No
C-41-004	Storm drains	DOE				52.8	Los Alamos/Pueblo	Upper Los Alamos	No
C-43-001	Outfall	DOE				45.4	Los Alamos/Pueblo	Upper Los Alamos	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
High Potential Sites									
00-011(d)	Mortar impact area	NMED				73.8	Los Alamos/Pueblo	Bayo	No
00-017	Waste lines	NMED				67.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-001(c)	Septic Tank 137	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	76.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-001(d)	Septic Tank 138 (hillside)	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	74.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-002(b)-00	Outfall TA-01 SWMU to be in TA-45	NMED	45-001-00	Wastewater treatment plant - TA-45	NMED	71.5	Los Alamos/Pueblo	Pueblo	No
01-003(a)	Landfill	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	79	Los Alamos/Pueblo	Upper Los Alamos	No
01-003(e)	Surface disposal site	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	83	Los Alamos/Pueblo	Upper Los Alamos	No
01-006(b)	Drainlines and outfall	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	76.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-006(c)	Drainlines and outfall	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	76.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-006(d)	Drainlines and outfall	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	76.5	Los Alamos/Pueblo	Upper Los Alamos	No
01-006(n)	Drainlines and outfall	NMED	01-001(a)-99	Miscellaneous - TA-01	NMED	76.5	Los Alamos/Pueblo	Upper Los Alamos	No
03-009(a)	Surface disposal (soil fill)	NMED	03-009(a)-00	Asphalt batch plant	NMED	61.3	Sandia	Upper Sandia	No
03-010(a)	Vacuum repair shop (former location)-systematic release site	NMED				69	Pajarito	Twomile	No
03-012(b)	Operational release and outfall	NMED	03-012(b)-00	Miscellaneous - TA-03 power plant	NMED	65	Sandia	Upper Sandia	No
03-014(c2)	Outfall	DOE	03-014(a)-99	Wastewater treatment plant	NMED	72	Sandia	Upper Sandia	No
03-045(b)	Industrial or sanitary wastewater treatment	NMED	03-012(b)-00	Miscellaneous - TA-03 power plant	NMED	65	Sandia	Upper Sandia	No
03-054(b)	Outfall	NMED	03-052(a)-00	Drainlines and outfalls	NMED	65.8	Pajarito	Twomile	No
03-054(e)	Outfall	NMED				89	Mortandad	Upper Mortandad	No
03-055(a)	Outfall	NMED				61	Pajarito	Twomile	No
05-001(c)	Former firing site	DOE				73.5	Mortandad	Lower Mortandad/Cedro	No
09-004(g)	Settling tank	NMED				61.8	Pajarito	Upper Pajarito	No
11-006(c)	Tank and/or associated equipment	NMED	11-006(a)-99	Former firing site	NMED	68.8	Water/Canon de Valle	S-Site (Martin)	No
11-006(d)	Tank and/or associated equipment	NMED	11-006(a)-99	Former firing site	NMED	74	Water/Canon de Valle	S-Site (Martin)	No
15-006(c)	Firing site R-44 (inactive)	NMED	15-006(c)-99	R-44 firing site (inactive)	NMED	64.5	Pajarito	Threemile	No
15-008(a)	Surface disposal E/F Site	NMED	15-004(f)-99	Firing site E-F (inactive)	NMED	72	Water/Canon de Valle	Potrillo/Fence	No
15-008(b)	Surface disposal	NMED	15-006(c)-99	R-44 firing site (inactive)	NMED	67.2	Pajarito	Threemile	No
15-008(d)	Surface disposal	NMED				69	Water/Canon de Valle	Canon de Valle	No
15-009(c)	Septic tank	NMED				71.5	Pajarito	Threemile	No
15-011(b)	Dry well	NMED	15-009(a)-00	Former structures - the Hollow	NMED	87	Water/Canon de Valle	Canon de Valle	No
15-011(c)	Sump	NMED	15-009(a)-00	Former structures - the Hollow	NMED	87	Water/Canon de Valle	Canon de Valle	No
15-014(j)	Outfall	NMED	15-009(a)-00	Former structures - the Hollow	NMED	61.3	Water/Canon de Valle	Canon de Valle	No
16-001(a)	Tank	NMED	16-001(a)-99	Former steam plant	NMED	67	Water/Canon de Valle	Canon de Valle	No
16-016(c)	Landfill	NMED	16-016(c)-99	Burning ground	NMED	72	Water/Canon de Valle	Canon de Valle	No
16-018	Material disposal area (MDA P); RCRA unit (currently undergoing RCRA closure)	NMED				69.3	Water/Canon de Valle	Canon de Valle	No
16-019	Material disposal area (MDA R)	NMED				82.5	Water/Canon de Valle	Canon de Valle	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
16-020	Silver recovery unit	NMED				61.3	Water/Canon de Valle	Canon de Valle	No
16-021(c)	Industrial or sanitary wastewater treatment at 16-260	NMED	16-021(c)-99	16-260 Sumps, drainlines, and outfall	NMED	73.3	Water/Canon de Valle	Canon de Valle	No
16-026(a)	Outfall	NMED	16-006(c)-00	Septic system	NMED	73.5	Water/Canon de Valle	Upper Water	No
16-026(c2)	Outfall, 16-462	NMED				61.8	Water/Canon de Valle	Upper Water	No
16-026(h2)	Outfall, 16-360	NMED	16-029(e)-99	Sump and outfall, 16-360	NMED	61	Water/Canon de Valle	Upper Water	No
16-026(v)	Outfall	NMED	16-003(c)-99	Sump, associated drainline, and outfall	NMED	65.8	Water/Canon de Valle	Upper Water	No
16-028(b)	Industrial or sanitary wastewater treatment, 16-370	NMED				83	Water/Canon de Valle	Upper Water	No
16-030(g)	Outfall	DOE	16-003(m)-99	Sump, outfall, and septic system	NMED	71	Water/Canon de Valle	Upper Water	No
18-003(c)	Septic system	NMED				62.3	Pajarito	Lower Pajarito	No
18-010(f)	Outfall	DOE				62.3	Pajarito	Lower Pajarito	No
20-002(c)	Firing site	NMED	20-001(b)-00	Firing site	NMED	73.8	Sandia	Lower Sandia	No
21-011(k)	Outfall	NMED				72	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-013(b)	Surface disposal site	NMED	21-018(a)-99	Material disposal area (MDA V)	NMED	67	Los Alamos/Pueblo	Middle Los Alamos/DP	No
21-013(g)	Surface disposal site	DOE	21-018(a)-99	Material disposal area (MDA V)	NMED	67	Los Alamos/Pueblo	Middle Los Alamos/DP	No
26-001	Surface disposal site	NMED				65	Los Alamos/Pueblo	Middle Los Alamos/DP	No
33-004(j)	Outfall	NMED	33-004(j)-00	Firing site - South Site	NMED	85	Chaquehui	Chaquehui	No
33-010(c)	Surface disposal	NMED	33-004(j)-00	Firing site - South Site	NMED	60.5	Chaquehui	Chaquehui	No
35-003(r)	Outfall	DOE	35-003(d)-00	Wastewater treatment plant - Pratt Canyon	NMED	87	Mortandad	Middle Mortandad/Ten Site	No
35-008	Surface disposal and landfil	NMED	35-008-00	Surface disposal	NMED	61	Mortandad	Middle Mortandad/Ten Site	No
35-014(e)	Oil Spill	NMED	35-008-00	Surface disposal	NMED	61	Mortandad	Middle Mortandad/Ten Site	No
35-016(a)	Drains and outfalls	NMED	35-016(a)-00	Drains and outfalls	NMED	92	Mortandad	Middle Mortandad/Ten Site	No
35-016(b)	Outfall	DOE				96	Mortandad	Middle Mortandad/Ten Site	No
35-016(d)	Outfall	NMED	35-016(c)-00	Drainlines and outfall	NMED	76.5	Mortandad	Middle Mortandad/Ten Site	No
35-016(e)	Outfall	DOE				72	Mortandad	Middle Mortandad/Ten Site	No
35-016(f)	Storm drain	DOE				76.5	Mortandad	Middle Mortandad/Ten Site	No
35-016(g)	Outfall	DOE				68.3	Mortandad	Upper Mortandad	No
35-016(h)	Storm drain	DOE				76.5	Mortandad	Upper Mortandad	No
35-016(i)	Drains and outfalls	NMED	35-016(i)-00	Drainlines and outfalls	NMED	61	Mortandad	Middle Mortandad/Ten Site	No
35-016(l)	Storm drain	DOE	35-016(k)-00	Drainlines and outfalls	NMED	64	Mortandad	Middle Mortandad/Ten Site	No
35-016(m)	Drains and outfalls	NMED				72	Mortandad	Middle Mortandad/Ten Site	No
35-016(o)	Drains and outfalls	NMED				60.3	Mortandad	Middle Mortandad/Ten Site	No
35-016(p)	Outfall	NMED				60.3	Mortandad	Middle Mortandad/Ten Site	No
35-016(q)	Drains and outfalls	NMED	35-016(a)-00	Drains and outfalls	NMED	92	Mortandad	Middle Mortandad/Ten Site	No
36-004(c)	Firing site - open detonation (active)	DOE				68.3	Water/Canon de Valle	Potrillo/Fence	No
36-006	Surface disposal site	NMED	36-006-99	Former firing site	NMED	78	Water/Canon de Valle	Potrillo/Fence	No
39-004(a)	Firing site	NMED				74	Ancho	North Ancho	No
39-004(b)	Firing site	NMED				74.5	Ancho	North Ancho	No

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Site ID	Site Name	Site AA	Consolidated Unit ID	Consolidated Unit Name	Consolidated AA	Erosion Matrix Score	Watershed	Sub-Watershed	Formal NFA (Y/N)
39-004(c)	Firing site 39-6 (open detonation) - RCRA Unit (active)	NMED				74.5	Ancho	North Ancho	No
39-004(d)	Firing site 39-57 (open detonation) - RCRA Unit (active)	NMED				74	Ancho	North Ancho	No
39-004(e)	Firing site (active)	NMED				78.5	Ancho	North Ancho	No
40-006(b)	Firing site (active)	NMED				62	Pajarito	Upper Pajarito	No
40-006(c)	Firing site (active)	NMED				62	Pajarito	Upper Pajarito	No
42-001(a)	Incinerator (former location)	NMED	42-001(a)-99	TA-42 incinerator complex	NMED	65.8	Mortandad	Upper Mortandad	No
42-001(b)	Ash storage tank (former location)	NMED	42-001(a)-99	TA-42 incinerator complex	NMED	65.8	Mortandad	Upper Mortandad	No
42-001(c)	Ash storage tank (former location)	NMED	42-001(a)-99	TA-42 incinerator complex	NMED	65.8	Mortandad	Upper Mortandad	No
42-002(a)	Decontamination facility (former location)	DOE	42-001(a)-99	TA-42 incinerator complex	NMED	65.8	Mortandad	Upper Mortandad	No
42-002(b)	Decontamination facility driveway (former location)	NMED	42-001(a)-99	TA-42 incinerator complex	NMED	65.8	Mortandad	Upper Mortandad	No
46-004(t)	Outfall	NMED				68.3	Mortandad	Upper Canada del Buey	No
46-008(g)	Storage area	NMED				68.3	Mortandad	Upper Canada del Buey	No
46-009(b)	Surface disposal	NMED				70	Mortandad	Upper Canada del Buey	No
48-007(c)	Drains and outfalls	NMED				69.5	Mortandad	Upper Mortandad	No
48-007(f)	Drains and outfalls	NMED				76.5	Mortandad	Upper Mortandad	No
48-010	Surface impoundment	NMED	48-007(a)-00	Drainlines and outfalls	NMED	80.3	Mortandad	Upper Mortandad	No
49-005(a)	Landfill (east of Area 10)	NMED				73.5	Water/Canon de Valle	Lower Water/Indio	No
50-006(a)	Operational release	NMED				77.8	Mortandad	Middle Mortandad/Ten Site	No
50-006(d)	Effluent discharge	NMED				89	Mortandad	Upper Mortandad	No
53-008	Storage area, Boneyard	DOE				61.8	Los Alamos/Pueblo	Middle Los Alamos/DP	No
53-014	Soil Contamination, lead storage site II	DOE				80.5	Sandia	Lower Sandia	No
54-014(d)	Material disposal area (MDA G) storage trenches A, B, C, D	NMED	54-013(b)-99	Material disposal area (MDA G) subsurface waste management units	NMED	66.5	Pajarito	Lower Pajarito	No
54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	NMED	54-013(b)-99	Material disposal area (MDA G) subsurface waste management units	NMED	62	Pajarito	Lower Pajarito	No
72-001	Firing range	DOE				84.3	Sandia	Lower Sandia	No
73-001(a)	Landfill	NMED	73-001(a)-99	Former landfill	NMED	85.5	Los Alamos/Pueblo	Pueblo	No
C-46-001	One-time spill	DOE				68.3	Mortandad	Upper Canada del Buey	No

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Appendix 7.

Site Monitoring Areas, Sites and Downstream Gage Stations

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SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
LOS ALAMOS / PUEBLO									
R-SMA-1	C-00-041	Asphalt and tar remnant site		42.8	Los Alamos/Pueblo	Rendija/Barrancas/Guaje	E090	Los Alamos/Pueblo	Rendija/Barrancas/Guaje
B-SMA-1	00-011(d)	Mortar impact area		73.8	Los Alamos/Pueblo	Bayo	E110	Los Alamos/Pueblo	Lower Los Alamos
ACID-SMA-1	00-030(g)	Septic system (near old Catholic Church parking lot)		47.2	Los Alamos/Pueblo	Pueblo	E056	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	01-002(b)-00	Outfall TA-01 SWMU to be in TA-45	45-001-00	71.5	Los Alamos/Pueblo	Pueblo	E055.5	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	01-002(b)-00	Outfall TA-01 SWMU to be in TA-45	45-001-00	71.5	Los Alamos/Pueblo	Pueblo	E056	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	45-001	Wastewater treatment facility	45-001-00	50.3	Los Alamos/Pueblo	Pueblo	E055.5	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	45-001	Wastewater treatment facility	45-001-00	50.3	Los Alamos/Pueblo	Pueblo	E056	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	45-004	Sanitary sewer outfall	45-001-00	50.2	Los Alamos/Pueblo	Pueblo	E055.5	Los Alamos/Pueblo	Pueblo
ACID-SMA-2	45-004	Sanitary sewer outfall	45-001-00	50.2	Los Alamos/Pueblo	Pueblo	E056	Los Alamos/Pueblo	Pueblo
P-SMA-1	73-001(a)	Landfill	73-001(a)-99	85.5	Los Alamos/Pueblo	Pueblo	E060	Los Alamos/Pueblo	Pueblo
P-SMA-1	73-004(d)	Septic tank (landfill)	73-001(a)-99	46.7	Los Alamos/Pueblo	Pueblo	E060	Los Alamos/Pueblo	Pueblo
P-SMA-2	73-002	Incinerator surface disposal	73-002-99	56.0	Los Alamos/Pueblo	Pueblo	E060	Los Alamos/Pueblo	Pueblo
P-SMA-2	73-006	Airport building outfalls	73-002-99	56.0	Los Alamos/Pueblo	Pueblo	E060	Los Alamos/Pueblo	Pueblo
P-SMA-2.2	00-019	Wastewater treatment plant, central		51.5	Los Alamos/Pueblo	Pueblo	E060	Los Alamos/Pueblo	Pueblo
P-SMA-3	00-018(a)	Sludge-bed wastewater treatment plant, Pueblo Canyon		42.8	Los Alamos/Pueblo	Pueblo	E055	Los Alamos/Pueblo	Pueblo
LA-SMA-1	00-017	Waste lines		67.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-1.2	C-43-001	Outfall		45.4	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-1.5	00-030(i)	Septic system		54.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-2	01-001(f)	Septic Tank 140 (hillside)	01-001(a)-99	56.7	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-2	01-006(b)	Drainlines and outfall	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-3	01-003(a)	Landfill	01-001(a)-99	79.0	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-4	01-001(c)	Septic Tank 137	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-4	01-006(b)	Drainlines and outfall	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-4	01-006(c)	Drainlines and outfall	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-4	01-006(d)	Drainlines and outfall	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-4	01-006(n)	Drainlines and outfall	01-001(a)-99	76.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5	01-001(d)	Septic Tank 138 (hillside)	01-001(a)-99	74.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5	01-003(e)	Surface disposal site	01-001(a)-99	83.0	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.2	01-003(d)	Surface disposal site		49.5	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.3	C-41-004	Storm drains		52.8	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.4	32-004	Drainline and outfall		42.0	Los Alamos/Pueblo	Upper Los Alamos	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
na	61-007	Transformer site - systematic leak - PCB only site		43.8	Los Alamos/Pueblo	Upper Los Alamos	na	Site is self-contained.	
DP-SMA-0.3	21-029	Soil contamination area		56.6	Los Alamos/Pueblo	Middle Los Alamos/DP	E038	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-0.9	21-011(c)	Tank and sump	21-016(a)-99	54.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-0.9	21-016(a)	Material disposal area (MDA T)	21-016(a)-99	54.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-0.9	21-016(b)	Material disposal area (MDA T)	21-016(a)-99	54.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-0.9	21-016(c)	Material disposal area (MDA T)	21-016(a)-99	54.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-1	21-011(k)	Outfall		72.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
DP-SMA-2	21-024(h)	Septic system		54.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E039	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-10	53-002(a)	Disposal lagoon (NE, NW impoundments) (inactive)	53-002(a)-99	47.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E042	Los Alamos/Pueblo	Lower Los Alamos
LA-SMA-10	53-008	Storage area, Boneyard		61.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E042	Los Alamos/Pueblo	Lower Los Alamos
LA-SMA-5.5	02-003(a)	Valve house and gaseous effluent line		57.6	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-003(e)	Holding tank (near reactor water boiler)		40.5	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-006(b)	Acid waste line		51.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-007	Septic system	02-007-00	44.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-008(a)	Outfall		55.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
LA-SMA-5.5	02-009(a)	Non-intentional release	02-007-00	57.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-009(b)	Non-intentional release	02-007-00	44.8	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-009(c)	Non-intentional release	02-007-00	51.3	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-5.5	02-011(a)	Storm drain and outfall		57.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6	21-013(b)	Surface disposal site	21-018(a)-99	67.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6	21-013(g)	Surface disposal site	21-018(a)-99	67.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6	21-027(d)	Drainline	21-027(d)-99	45.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6.2	21-024(e)	Septic system		56.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6.3	21-027(a)	Industrial or sanitary wastewater treatment		52.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-6.5	21-024(i)	Septic system		53.7	Los Alamos/Pueblo	Middle Los Alamos/DP	E030	Los Alamos/Pueblo	Middle Los Alamos/DP
LA-SMA-9	26-001	Surface disposal site		65.0	Los Alamos/Pueblo	Middle Los Alamos/DP	E042	Los Alamos/Pueblo	Lower Los Alamos
SANDIA									
S-SMA-0.2	03-013(a)	Operational release	03-013(a)-00	45.0	Sandia	Upper Sandia	E122	Sandia	Upper Sandia
S-SMA-0.2	03-013(b)	Operational release		45.0	Sandia	Upper Sandia	E122	Sandia	Upper Sandia
S-SMA-0.2	03-052(f)	Storm drainage	03-013(a)-00	45.0	Sandia	Upper Sandia	E122	Sandia	Upper Sandia
S-SMA-1	03-003(m)	Storage area (capacitor banks) - PCB only site		46.3	Sandia	Upper Sandia	E122	Sandia	Upper Sandia
S-SMA-1	03-009(a)	Surface disposal (soil fill)	03-009(a)-00	61.3	Sandia	Upper Sandia	E122.2	Sandia	Upper Sandia
S-SMA-1	03-029	Landfill	03-009(a)-00	44.3	Sandia	Upper Sandia	E122.2	Sandia	Upper Sandia
S-SMA-2	03-012(b)	Operational release and outfall	03-012(b)-00	65.0	Sandia	Upper Sandia	E121	Sandia	Upper Sandia
S-SMA-2	03-045(b)	Industrial or sanitary wastewater treatment	03-012(b)-00	65.0	Sandia	Upper Sandia	E121	Sandia	Upper Sandia
S-SMA-2	03-045(c)	Outfall	03-012(b)-00	57.7	Sandia	Upper Sandia	E121	Sandia	Upper Sandia
S-SMA-2	03-056(c)	Transformer storage area - PCB only site		45.0	Sandia	Upper Sandia	E121	Sandia	Upper Sandia
S-SMA-3	03-014(c2)	Outfall	03-014(a)-99	72.0	Sandia	Upper Sandia	E123	Sandia	Upper Sandia
S-SMA-3.5	03-014(b2)	Outfall	03-014(a)-99	46.3	Sandia	Upper Sandia	E123	Sandia	Upper Sandia
S-SMA-3.6	60-007(b)	Systematic or intent. prod. release		43.8	Sandia	Upper Sandia	E122.4	Sandia	Upper Sandia
S-SMA-3.6	60-007(b)	Systematic or intent. prod. release		43.8	Sandia	Upper Sandia	E122.5	Sandia	Upper Sandia
S-SMA-3.9	20-002(a)	Firing site	20-001(c)-00	48.6	Sandia	Lower Sandia	E124	Sandia	Lower Sandia
S-SMA-4	53-014	Soil Contamination, lead storage site II		80.5	Sandia	Lower Sandia	E124	Sandia	Lower Sandia
S-SMA-5	20-002(c)	Firing site	20-001(b)-00	73.8	Sandia	Lower Sandia	E125	Sandia	Lower Sandia
S-SMA-5.1	20-003(c)	Firing site	20-001(b)-00	57.4	Sandia	Lower Sandia	E125	Sandia	Lower Sandia
S-SMA-6	72-001	Firing range		84.3	Sandia	Lower Sandia	E125	Sandia	Lower Sandia
MORTANDAD									
M-SMA-1	03-054(e)	Outfall		89.0	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-2	48-007(f)	Drains and outfalls		76.5	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-3	48-007(c)	Drains and outfalls		69.5	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-3.1	48-007(b)	Drains and outfalls		49.3	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-3.5	48-003	Septic system		40.7	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-4	48-007(a)	Drains and outfalls	48-007(a)-00	55.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-4	48-007(d)	Drains and outfalls	48-007(a)-00	55.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-4	48-010	Surface impoundment	48-007(a)-00	80.3	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-5	42-001(a)	Incinerator (former location)	42-001(a)-99	65.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-5	42-001(b)	Ash storage tank (former location)	42-001(a)-99	65.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-5	42-001(c)	Ash storage tank (former location)	42-001(a)-99	65.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-5	42-002(a)	Decontamination facility (former location)	42-001(a)-99	65.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-5	42-002(b)	Decontamination facility driveway (former location)	42-001(a)-99	65.8	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-6	35-016(h)	Storm drain		76.5	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-7	35-016(g)	Outfall		68.3	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
M-SMA-7	35-016(h)	Storm drain		76.5	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-8	50-006(d)	Effluent discharge		89.0	Mortandad	Upper Mortandad	E200	Mortandad	Upper Mortandad
M-SMA-9	35-016(f)	Storm drain		76.5	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-10	35-008	Surface disposal and landfil	35-008-00	61.0	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-10	35-014(e)	Oil Spill	35-008-00	61.0	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-10	35-016(e)	Outfall		72.0	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-10.3	35-014(e2)	Oil Spill	35-016(i)-00	45.6	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-10.3	35-016(i)	Drains and outfalls	35-016(i)-00	61.0	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-11	35-016(o)	Drains and outfalls		60.3	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-12	35-016(p)	Outfall		60.3	Mortandad	Middle Mortandad/Ten Site	E201	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.7	05-005(a)	Former French drain	05-005(a)-00	45.0	Mortandad	Middle Mortandad/Ten Site	E203	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.7	05-006(b)	Soil contamination beneath former buildings	05-005(a)-00	45.0	Mortandad	Middle Mortandad/Ten Site	E203	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.7	05-006(e)	Soil contamination beneath former buildings	05-005(a)-00	45.0	Mortandad	Middle Mortandad/Ten Site	E203	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.8	05-001(a)	Former firing site	05-001(a)-99	45.0	Mortandad	Middle Mortandad/Ten Site	E204	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.9	05-001(b)	Former firing site	05-001(a)-99	45.0	Mortandad	Middle Mortandad/Ten Site	E204	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.9	05-006(h)	Soil contamination beneath former buildings	05-001(a)-99	45.0	Mortandad	Middle Mortandad/Ten Site	E204	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(d)	Wastewater treatment facility	35-003(d)-00	59.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(h)	Wastewater treatment facility	35-003(a)-99	44.2	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(l)	Wastewater treatment facility	35-003(d)-00	59.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(p)	Wastewater treatment facility	35-003(a)-99	50.8	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(q)	Wastewater treatment facility	35-003(d)-00	59.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-003(r)	Outfall	35-003(d)-00	87.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-004(h)	Container storage area		50.8	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-016(k)	Drains and outfalls	35-016(k)-00	53.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-016(l)	Storm drain	35-016(k)-00	64.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
Pratt-SMA-1	35-016(m)	Drains and outfalls		72.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-1	50-006(a)	Operational release		77.8	Mortandad	Middle Mortandad/Ten Site	E201.3	Mortandad	Middle Mortandad/Ten Site
T-SMA-1	50-009	Material disposal area (MDA C)		54.8	Mortandad	Middle Mortandad/Ten Site	E201.3	Mortandad	Middle Mortandad/Ten Site
T-SMA-2.8	35-016(n)	Storm drain	35-014(g)-00	42.8	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-3	35-016(b)	Outfall		96.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-4	35-016(c)	Outfall	35-016(c)-00	47.2	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-4	35-016(d)	Outfall	35-016(c)-00	76.5	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-5	35-016(a)	Drains and outfalls	35-016(a)-00	92.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-6	35-016(q)	Drains and outfalls	35-016(a)-00	92.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-7	04-001	Firing site	04-001-99	45.0	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-7	04-002	Surface disposal	04-001-99	51.5	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
T-SMA-7	04-003(b)	Outfall	04-001-99	51.5	Mortandad	Middle Mortandad/Ten Site	E201.5	Mortandad	Middle Mortandad/Ten Site
M-SMA-12.5	05-005(b)	Outfall	05-005(b)-00	53.7	Mortandad	Lower Mortandad/Cedro	na	Site drains to the Rio Grande.	
M-SMA-12.5	05-006(c)	Soil contamination beneath former buildings	05-005(b)-00	53.7	Mortandad	Lower Mortandad/Cedro	na	Site drains to the Rio Grande.	
M-SMA-12.6	05-004	Former septic system		49.7	Mortandad	Lower Mortandad/Cedro	na	Site drains to the Rio Grande.	
M-SMA-13	05-001(c)	Former firing site		73.5	Mortandad	Lower Mortandad/Cedro	na	Site drains to the Rio Grande.	
CDB-SMA-0.1	04-003(a)	Outfall	04-003(a)-00	57.3	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-0.1	04-004	Soil contamination beneath buildings	04-003(a)-00	57.3	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-0.2	46-004(c2)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-0.5	46-004(g)	Outfall / stack emissions	46-004(d2)-99	56.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-0.5	46-004(m)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1	46-003(a)	Septic system		44.7	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
CDB-SMA-1	46-004(d2)	Stack emissions	46-004(d2)-99	56.0	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1	46-004(s)	Outfall		49.0	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1	46-004(t)	Outfall		68.3	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1	46-008(g)	Storage area		68.3	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1	46-009(a)	Surface disposal		57.0	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1	C-46-001	One-time spill		68.3	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1.1	46-004(a)	Waste line		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.1	46-004(y)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.1	46-004(z)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.1	46-006(d)	Operational release		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.3	46-004(a2)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.3	46-004(u)	Outfall		45.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.3	46-004(v)	Outfall		45.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.3	46-004(x)	Outfall		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.3	46-006(d)	Operational release		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.5	46-004(h)	Outfall / stack emissions	46-004(d2)-99	56.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.5	46-004(q)	Outfall		45.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.5	46-006(d)	Operational release		49.0	Mortandad	Upper Canada del Buey	E218	Mortandad	Upper Canada del Buey
CDB-SMA-1.6	46-003(b)	Septic system		55.5	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1.6	46-003(e)	Septic system		50.8	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-1.7	46-005	Surface impoundment		52.8	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-2	46-002	Surface impoundment		52.8	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-2	46-009(b)	Surface disposal		70.0	Mortandad	Upper Canada del Buey	E225	Mortandad	Lower Canada del Buey
CDB-SMA-4	54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	54-013(b)-99	62.0	Mortandad	Lower Canada del Buey	E227	Mortandad	Lower Canada del Buey
CDB-SMA-4	54-018	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	54-013(b)-99	52.6	Mortandad	Lower Canada del Buey	E227	Mortandad	Lower Canada del Buey
CDB-SMA-4	54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	54-013(b)-99	53.7	Mortandad	Lower Canada del Buey	E227	Mortandad	Lower Canada del Buey
PAJARITO									
2M-SMA-1	03-010(a)	Vacuum repair shop (former location)- systematic release site		69.0	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-1.4	03-009(d)	Surface disposal site		42.8	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-1.5	22-014(b)	Sump		56.0	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-1.6	06-007(g)	Building and surface disposal		50.8	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-1.7	03-055(a)	Outfall		61.0	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-2	03-054(b)	Outfall	03-052(a)-00	65.8	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-3	07-001(b)	Firing site (inactive)	07-001(a)-99	55.5	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-3	07-001(c)	Firing site (inactive)	07-001(a)-99	46.7	Pajarito	Twomile	E244	Pajarito	Twomile
2M-SMA-3	07-001(d)	Firing site (inactive)	07-001(a)-99	55.5	Pajarito	Twomile	E244	Pajarito	Twomile
PJ-SMA-1	09-013	Material disposal area (MDA M)		56.0	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
PJ-SMA-10	40-006(a)	Firing site (active)		56.2	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-11	40-003(a)	Scrap burn site - completed RCRA closure		46.3	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-11	40-003(b)	Burning area/open detonation (closure)		46.3	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-14	54-004	Material disposal area (MDA H)		45.6	Pajarito	Upper Pajarito	E250	Pajarito	Lower Pajarito
PJ-SMA-2	09-009	Surface impoundment		58.8	Pajarito	Upper Pajarito	E242.5	Pajarito	Upper Pajarito
PJ-SMA-3	09-004(o)	Settling tank		43.8	Pajarito	Upper Pajarito	E242.5	Pajarito	Upper Pajarito
PJ-SMA-4	09-004(g)	Settling tank		61.8	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
PJ-SMA-4	09-005(g)	Septic tank		51.0	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-5	22-015(c)	Outfall		51.5	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-6	40-010	Surface disposal site		40.2	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-7	40-006(c)	Firing site (active)		62.0	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-8	40-006(b)	Firing site (active)		62.0	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
PJ-SMA-9	40-009	Landfill		54.5	Pajarito	Upper Pajarito	E243	Pajarito	Upper Pajarito
STRM-SMA-1	08-009(f)	Outfall		42.0	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
STRM-SMA-1.5	08-009(d)	Industrial or sanitary wastewater treatment		40.2	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
STRM-SMA-2	08-005	Container storage area		51.0	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
STRM-SMA-3	08-006(a)	Material disposal area (MDA Q)		55.5	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
STRM-SMA-4	09-005(a)	Septic system	09-008(b)-99	51.0	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
STRM-SMA-5	09-013	Material disposal area (MDA M)		56.0	Pajarito	Upper Pajarito	E242	Pajarito	Upper Pajarito
3M-SMA-0.5	15-006(c)	Firing site R-44 (inactive)	15-006(c)-99	64.5	Pajarito	Threemile	E246	Pajarito	Threemile
3M-SMA-0.5	15-009(c)	Septic tank		71.5	Pajarito	Threemile	E246	Pajarito	Threemile
3M-SMA-0.6	15-008(b)	Surface disposal	15-006(c)-99	67.2	Pajarito	Threemile	E246	Pajarito	Threemile
3M-SMA-3	36-008	NEW SWMU - Surface disposal area located near TA-36-1		52.0	Pajarito	Threemile	E246	Pajarito	Threemile
3M-SMA-3	C-36-003	Storm drainages		52.0	Pajarito	Threemile	E246	Pajarito	Threemile
PJ-SMA-15	54-014(d)	Material disposal area (MDA G) storage trenches A, B, C, D	54-013(b)-99	66.5	Pajarito	Lower Pajarito	E249	Pajarito	Lower Pajarito
PJ-SMA-15	54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	54-013(b)-99	62.0	Pajarito	Lower Pajarito	E248.5	Pajarito	Lower Pajarito
PJ-SMA-15	54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	54-013(b)-99	62.0	Pajarito	Lower Pajarito	E249	Pajarito	Lower Pajarito
PJ-SMA-15	54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	54-013(b)-99	62.0	Pajarito	Lower Pajarito	E249.5	Pajarito	Lower Pajarito
PJ-SMA-15	54-018	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	54-013(b)-99	52.6	Pajarito	Lower Pajarito	E248	Pajarito	Lower Pajarito
PJ-SMA-15	54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	54-013(b)-99	53.7	Pajarito	Lower Pajarito	E248.5	Pajarito	Lower Pajarito
PJ-SMA-15	54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	54-013(b)-99	53.7	Pajarito	Lower Pajarito	E249	Pajarito	Lower Pajarito
PJ-SMA-15	54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	54-013(b)-99	53.7	Pajarito	Lower Pajarito	E249.5	Pajarito	Lower Pajarito
TBD	18-003(c)	Septic system		62.3	Pajarito	Lower Pajarito	E250	Pajarito	Lower Pajarito
TBD	18-010(d)	Outfall		46.2	Pajarito	Lower Pajarito	E250	Pajarito	Lower Pajarito
TBD	18-010(f)	Outfall		62.3	Pajarito	Lower Pajarito	E250	Pajarito	Lower Pajarito
TBD	18-012(a)	Outfall		59.2	Pajarito	Lower Pajarito	E250	Pajarito	Lower Pajarito
TBD	18-012(b)	Outfall	18-001(c)-00	46.6	Pajarito	Lower Pajarito	E250	Pajarito	Lower Pajarito
WATER / CANON de VALLE									
CDV-SMA-0.5	16-029(s)	Sump	16-008(a)-99	45.5	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-0.5	16-029(t)	Sump	16-008(a)-99	41.5	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1	16-001(a)	Tank	16-001(a)-99	67.0	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1	16-001(b)	Dry wells	16-001(a)-99	45.0	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1	16-001(c)	Tank	16-001(a)-99	45.0	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1.4	16-016(d)	Surface disposal site		44.5	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1.4	16-020	Silver recovery unit		61.3	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1.5	16-026(j)	Outfall, 16-226		40.2	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-1.7	16-019	Material disposal area (MDA R)		82.5	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
CDV-SMA-2	16-021(c)	Industrial or sanitary wastewater treatment at 16-260	16-021(c)-99	73.3	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.4	16-010(b)	Flash pad; RCRA unit (undergoing closure)		55.5	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.4	16-016(c)	Landfill	16-016(c)-99	72.0	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.4	16-018	Material disposal area (MDA P); RCRA unit (currently undergoing RCRA closure)		69.3	Water/Canon de Valle	Canon de Valle	E256	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.5	16-010(c)	Burn site 16-388 - RCRA Unit (active)		47.2	Water/Canon de Valle	Canon de Valle	E257	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.5	16-010(d)	Burn site 16-399 - RCRA unit (active)		50.3	Water/Canon de Valle	Canon de Valle	E257	Water/Canon de Valle	Canon de Valle
CDV-SMA-2.5	16-028(a)	South drainage channel		51.5	Water/Canon de Valle	Canon de Valle	E257	Water/Canon de Valle	Canon de Valle
CDV-SMA-3	14-009	Surface disposal site	14-002(a)-99	53.7	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-4	14-002(a)	Firing site (inactive)	14-002(a)-99	46.3	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-4	14-010	Sump	14-002(a)-99	51.5	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-5	14-005	Incinerator (active)		57.3	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-6	14-001(g)	Firing site - Open Burn/Open Detonation (active)		53.3	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-6	14-002(d)	Firing site (inactive)	14-002(c)-99	40.8	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-6	14-002(e)	Firing site (inactive)	14-002(c)-99	47.8	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-6	14-006	Tank and/or associated equipment		47.1	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-7	15-008(d)	Surface disposal		69.0	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-8	15-011(b)	Dry well	15-009(a)-00	87.0	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-8	15-011(c)	Sump	15-009(a)-00	87.0	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-8	15-014(g)	Industrial or sanitary wastewater treatment		55.5	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-8	15-014(j)	Outfall	15-009(a)-00	61.3	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-8	C-15-007	Non-intentional release		51.5	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
CDV-SMA-9	15-007(b)	Material disposal area (MDA Z) landfill		40.2	Water/Canon de Valle	Canon de Valle	E262	Water/Canon de Valle	Canon de Valle
W-SMA-3	16-006(g)	Septic tank	16-029(x)-99	46.0	Water/Canon de Valle	S-Site (Martin)	E260	Water/Canon de Valle	S-Site (Martin)
W-SMA-5	16-003(f)	Sump	16-003(d)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-5	16-026(z)	Outfall		49.6	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-003(b)	Air gun		55.5	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(a)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(b)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(c)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(d)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(e)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-004(f)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-005(c)	Outfall (inactive)		59.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-006(b)	Tank and/or associated equipment	11-006(a)-99	52.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-006(c)	Tank and/or associated equipment	11-006(a)-99	68.8	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-10	11-006(d)	Tank and/or associated equipment	11-006(a)-99	74.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(a)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(b)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(c)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(d)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(e)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
W-SMA-11	11-004(f)	Drop tower - firing site (active)	11-004(a)-99	56.0	Water/Canon de Valle	S-Site (Martin)	E261	Water/Canon de Valle	S-Site (Martin)
na	16-001(d)	Dry well		45.6	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-1	16-026(c2)	Outfall, 16-462		61.8	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-1	16-026(v)	Outfall	16-003(c)-99	65.8	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-2	16-028(e)	Industrial or sanitary wastewater treatment	16-029(g)-99	47.2	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
W-SMA-4	16-003(a)	Sump		55.5	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-6	11-001(c)	Firing site (inactive)		56.2	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-7	16-026(h2)	Outfall, 16-360	16-029(e)-99	61.0	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-8	16-006(c)	Septic system	16-006(c)-00	49.5	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-8	16-016(g)	Surface disposal site		46.1	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-8	16-026(a)	Outfall	16-006(c)-00	73.5	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-8	16-028(b)	Industrial or sanitary wastewater treatment, 16-370		83.0	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-9	16-030(g)	Outfall	16-003(m)-99	71.0	Water/Canon de Valle	Upper Water	E260	Water/Canon de Valle	Upper Water
W-SMA-12	49-001(g)	Material disposal area (MDA AB) (miscellaneous)	49-001(a)-00	59.2	Water/Canon de Valle	Lower Water/Indio	E262.5	Water/Canon de Valle	Lower Water/Indio
W-SMA-13	49-001(a)	Material disposal area (MDA AB) (experimental shafts)	49-001(a)-00	54.8	Water/Canon de Valle	Lower Water/Indio	E262.5	Water/Canon de Valle	Lower Water/Indio
W-SMA-14	15-010(c)	Drainline		51.5	Water/Canon de Valle	Lower Water/Indio	E262.5	Water/Canon de Valle	Lower Water/Indio
W-SMA-15	49-005(a)	Landfill (east of Area 10)		73.5	Water/Canon de Valle	Lower Water/Indio	E262.5	Water/Canon de Valle	Lower Water/Indio
F-SMA-1	36-004(b)	Firing site (active)		57.3	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
F-SMA-2	36-004(c)	Firing site - open detonation (active)		68.3	Water/Canon de Valle	Potrillo/Fence	E267.5	Water/Canon de Valle	Potrillo/Fence
F-SMA-2	36-005	Surface disposal site		45.4	Water/Canon de Valle	Potrillo/Fence	E267.5	Water/Canon de Valle	Potrillo/Fence
PT-SMA-0.5	15-009(e)	Septic system, E/F Site		44.7	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-0.5	C-15-004	Transformers - PCB only site		43.9	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-1	15-008(a)	Surface disposal E/F Site	15-004(f)-99	72.0	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-2	15-008(f)	I-J Firing Site mounds at TA-36 (active)		57.3	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-2	36-003(b)	Septic system, I-J Site		50.2	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-2	36-004(e)	I-J Firing Site (active)		57.3	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-2	C-36-001	Containment vessel		57.3	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-3	36-004(a)	Firing site (active)	36-006-99	48.5	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-3	36-006	Surface disposal site	36-006-99	78.0	Water/Canon de Valle	Potrillo/Fence	E266	Water/Canon de Valle	Potrillo/Fence
PT-SMA-4	36-001	Material disposal area (MDA AA)		45.7	Water/Canon de Valle	Potrillo/Fence	E267	Water/Canon de Valle	Potrillo/Fence
ANCHO									
A-SMA-1	39-004(a)	Firing site		74.0	Ancho	North Ancho	E274	Ancho	North Ancho
A-SMA-1	39-004(d)	Firing site 39-57 (open detonation) - RCRA Unit (active)		74.0	Ancho	North Ancho	E274	Ancho	North Ancho
A-SMA-2	39-004(b)	Firing site		74.5	Ancho	North Ancho	E274	Ancho	North Ancho
A-SMA-2	39-004(e)	Firing site (active)		78.5	Ancho	North Ancho	E274	Ancho	North Ancho
A-SMA-3	39-004(c)	Firing site 39-6 (open detonation) - RCRA Unit (active)		74.5	Ancho	North Ancho	E274	Ancho	North Ancho
A-SMA-4	33-010(d)	Surface disposal		45.0	Ancho	South Ancho	na	Site drains to the Rio Grande.	
A-SMA-5	33-010(b)	Surface disposal		45.0	Ancho	South Ancho	na	Site drains to the Rio Grande.	
A-SMA-6	33-010(a)	Surface disposal	33-006(b)-00	53.2	Ancho	South Ancho	na	Site drains to the Rio Grande.	
CHAQUEHUI									
CHQ-SMA-1	33-004(h)	Outfall	33-004(a)-00	56.6	Chaquehui	Chaquehui	E340	Chaquehui	Chaquehui
CHQ-SMA-1	33-008(c)	Landfill		56.0	Chaquehui	Chaquehui	E340	Chaquehui	Chaquehui
CHQ-SMA-1	33-015	Incinerator	33-004(a)-00	50.8	Chaquehui	Chaquehui	E340	Chaquehui	Chaquehui
CHQ-SMA-1	C-33-001	Transformer		56.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-1	C-33-003	Soil contamination area		59.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-2	33-004(d)	Septic system		56.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-2	33-005(a)	Septic system	33-005(a)-00	49.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-2	33-005(b)	Septic system	33-005(a)-00	49.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-2	33-005(c)	Septic system	33-005(a)-00	49.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-2	C-33-003	Soil contamination area		59.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-3	33-010(f)	Surface disposal	33-002(a)-99	47.2	Chaquehui	Chaquehui	E340	Chaquehui	Chaquehui
CHQ-SMA-4	33-016	Sump		54.5	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui

SMA & Site Information							Gage Station Information		
SMA ID	Site ID	Site Name	Consolidated Unit ID	Erosion Matrix Score	Site Watershed	Site Sub-Watershed	Station ID	Station Watershed	Station Sub-Watershed
CHQ-SMA-4.5	33-011(b)	Storage area		49.0	Chaquehui	Chaquehui	na	Site drains to the Rio Grande.	
CHQ-SMA-5	33-007(b)	Firing range (inactive)	33-004(j)-00	59.3	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-6	33-004(j)	Outfall	33-004(j)-00	85.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-6	33-006(a)	Firing site (inactive)	33-004(j)-00	56.0	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-6	33-007(b)	Firing range (inactive)	33-004(j)-00	59.3	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-6	33-010(c)	Surface disposal	33-004(j)-00	60.5	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-6	33-010(g)	Surface disposal		47.8	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui
CHQ-SMA-7	33-010(g)	Surface disposal		47.8	Chaquehui	Chaquehui	E338	Chaquehui	Chaquehui

Appendix 8.

Derivation of (Storm) Water Screening Action Levels (wSAL)

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8.0 Derivation of LANL Storm Water Screening Action Levels

The Federal Facility Compliance Agreement/Administrative Order (FFCA/AO) LANL storm water screening action level (wSAL) for a pollutant is designated as the lowest numeric criterion of the applicable New Mexico Water Quality Control Commission (NMWQCC) water quality criteria (WQC) established in *State of New Mexico Standards for Interstate and Intrastate Surface Waters* (NMAC 20.6.4) (New Mexico 2006), if one exists. The wSALs for each pollutant are determined in stepwise fashion by evaluating, in the following order:

- requirements for any FFCA-monitored segment that is included in a classified water of the state in 20.6.4.101 through 20.6.4.899 NMAC;

- requirements for any FFCA-monitored surface water that is *not* included in a classified water of the state in 20.6.4.101 through 20.6.4.899 NMAC; or

- Environmental Protection Agency (EPA) Multi-Sector General Permit (MSGP) benchmark values for Sector K, Hazardous Waste Treatment, Storage, or Disposal Facilities (EPA 2000).

Classified waters of the state that are described in 20.6.4.101 through 20.6.4.899 have segment-specific designated uses. Non-classified surface waters are described as ephemeral (20.6.4.97), intermittent (20.6.4.98), or perennial (20.6.4.99), each of which has designated uses. The designated uses for surface water are associated with use-specific WQC, including numeric criteria.

Significant changes were made in the NMWQCC stream standards that became effective on July 17, 2005 that impact storm water runoff monitoring conducted under the FFCA/AO. The most significant change is the classification of all surface waters within the Laboratory boundary with segment-specific designated uses. As a result, two different types of wSALs shall be derived and applied beginning in the 2006 monitoring year: Perennial wSALs and Ephemeral wSALs.

8.1 Relevant Classifications of Surface Waters of the State

Under the FFCA/AO, the Laboratory conducts storm water monitoring at locations both within the Laboratory boundary and on non-DOE property formerly used for Laboratory activities. Segments within the Laboratory boundary are classified under two sections of NMAC 20.6.4.

20.6.4.126 RIO GRANDE BASIN – Perennial portions of Canon de Valle from Los Alamos National Laboratory (LANL) stream gage E256 upstream to Burning Ground spring, Sandia Canyon from Sigma canyon upstream to LANL NPDES outfall 001, Pajarito canyon from Arroyo de La Delfe upstream into Starmers gulch and Starmers spring and Water canyon from Area-A canyon upstream to State Route 501.

Designated uses: coldwater aquatic life, livestock watering, wildlife habitat and secondary contact.

20.6.4.128 RIO GRANDE BASIN – Ephemeral and intermittent portions of watercourses within lands managed by U.S. Department of Energy (DOE) within LANL, including but not limited to: Mortandad canyon, Canada del Buey, Ancho canyon, Chaquehui canyon, Indio canyon, Fence canyon, Potrillo canyon and portions of Canon de Valle, Los Alamos canyon, Sandia canyon, Pajarito canyon and Water canyon not specifically identified in 20.6.4.126 NMAC. (Surface waters within lands scheduled for transfer from DOE to tribal, state or local authorities are specifically excluded.)

Designated uses: livestock watering wildlife habitat, limited aquatic life and secondary contact.

Locations outside the Laboratory boundary where storm water monitoring is conducted include watercourses on Los Alamos County, Santa Fe National Forest, and San Ildelfonso Pueblo property. Watercourses monitored under the FFCA that are not included under §§ 20.6.4.126 or 20.6.4.128 are designated as ephemeral, intermittent, or perennial waters.

20.6.4.97 EPHEMERAL WATERS – all ephemeral surface waters of the state that are not included in a classified water of the state in 20.6.4.101 through 20.6.4.899 NMAC.

Designated uses: livestock watering, wildlife habitat, limited aquatic life and secondary contact.

20.6.4.98 INTERMITTENT WATERS – All intermittent surface waters of the state that are not included in a classified water of the state in 20.6.4.101 through 20.6.4.899 NMAC.

Designated uses: livestock watering, wildlife habitat, aquatic life and secondary contact.

20.6.4.99 PERENNIAL WATERS – All perennial surface waters of the state that are not included in a classified water of the state in 20.6.4.101 through 20.6.4.899 NMAC.

Designated uses: aquatic life, livestock watering, wildlife habitat and secondary contact.

The applicable NMWQCC WQCS for each of the watercourse classifications are listed in Table 1. The WQS for Livestock Watering (20.6.4.900.[F], [J]), Wildlife Habitat (NMAC 20.4.6.900.[G], [J]), Acute Aquatic Life (20.6.4.900.[H], [I], and [J]) and Human Health (Persistent) (NMAC 20.6.4.11[G]; 20.4.6.900.[J]) apply to all of the watercourse classifications.

8.2 Derivation of Ephemeral wSALs

The Ephemeral wSAL derivation process is summarized as follows.

Step 1: Evaluate applicable designated uses.

- The designated uses for the FFCA-monitored ephemeral/intermittent watercourses within the Laboratory boundary are livestock watering, wildlife habitat, limited aquatic life, and secondary contact.

- The designated uses for FFCA-monitored ephemeral watercourses that are not within the Laboratory boundary are livestock watering, wildlife habitat, limited aquatic life, and secondary contact.

Step 2: Evaluate applicable WQC.

The NMWQCC WQC applicable to the designated uses for ephemeral watercourses at the Laboratory are those for :

- Livestock Watering (20.6.4.900.[F], [J]),
- Wildlife Habitat (NMAC 20.4.6.900.[G], [J]),
- Acute Aquatic Life (20.6.4.900.[H], [I], and [J]),
- Human Health (Persistent) (NMAC 20.6.4.11[G]; 20.4.6.900.[J]),
- Acute Total Ammonia (20.6.4.900[K]), and
- Secondary Contact (20.6.4.900[E]).

The applicable numeric criteria for ephemeral watercourses are listed in Table 2. The limiting numeric criterion for a pollutant is determined as follows.

- If there is one or more applicable numeric criterion for the total recoverable (TR) pollutant concentration, the lowest TR numeric criterion is selected as the wSAL.

- If the pollutant is a metal and there is one or more applicable numeric criterion for the dissolved concentration, the dissolved standard is converted to the TR value using the EPA applicable conversion factors for dissolved metals taken from Appendix A to *National Recommended Water Quality Criteria: 2002* (EPA 2002) and listed in Table 3. The limiting calculated TR value is selected as the wSAL.

Step 3: Evaluate MSGP Sector K Benchmark values.

If there is no applicable NMWQCC WQC for the pollutant, the EPA MSGP benchmark monitoring cutoff concentrations that are applicable to Sector K – Hazardous Waste Treatment, Storage or Disposal Facilities - are evaluated. The MSGP parameter benchmark values are established at 65 FR 64767. The benchmark concentrations for Sector K pollutants are listed in Table 2. (Note: The MSGP benchmark values are based on total recoverable concentrations.)

- If there is an applicable MSGP benchmark for the pollutant, the benchmark monitoring cutoff concentration is selected as the wSAL.

Step 4: Develop criterion for wSAL using established protocols.

If there is no applicable NMWQCC WQC or applicable EPA MSGP benchmark for the pollutant, and if the pollutant is detected in storm water runoff, the criterion for a wSAL may be developed using protocols described at NMAC 20.6.4.12 (F)(2) and in *National Recommended Water Quality Criteria: 2002* (EPA 2002).

- Alternatively, protocols used by the EPA to develop National Pollutant Discharge Elimination System (NPDES) effluent limitations and benchmark values may be applied.

- Where no appropriate criterion or protocol is available, an acceptable wSAL may be developed in consultation with the NMED and EPA Region 6.

8.3 Derivation of Perennial wSALs

The Perennial wSAL derivation process is summarized as follows.

Step 1: Evaluate applicable designated uses.

- The designated uses for FFCA-monitored perennial watercourses within the Laboratory boundary are livestock watering, wildlife habitat, coldwater aquatic life, and secondary contact.

- The designated uses for FFCA-monitored perennial watercourses that are not within the Laboratory boundary are livestock watering, wildlife habitat, aquatic life, and secondary contact.

Step 2: Evaluate applicable WQC.

The NMWQCC WQC applicable to the designated uses for perennial watercourses at the Laboratory are those for :

- Livestock Watering (20.6.4.900.[F], [J]),
- Wildlife Habitat (NMAC 20.4.6.900.[G], [J]),
- Acute Aquatic Life (20.6.4.900.[H], [I], and [J]),
- Chronic Aquatic Life (20.6.4.900[H], [I], [J]),
- Human Health (20.6.4.11[G]; 20.4.6.900.[J]),
- Acute Total Ammonia (20.6.4.11[E](2); 20.6.4.900[K]),
- Chronic Total Ammonia (20.6.4.900[M]), and
- Secondary Contact (20.6.4.900[E]).

The applicable numeric criteria for perennial watercourses are listed in Table 4. The limiting numeric criterion for a pollutant is determined as follows.

- If there is one or more applicable WQC for the total recoverable (TR) pollutant concentration, the lowest TR numeric criterion is selected as the wSAL.

- If the pollutant is a metal and there is one or more applicable WQC for the dissolved concentration, the dissolved standard is converted to the TR value using the EPA applicable conversion factors for dissolved metals taken from Appendix A to *National Recommended Water Quality Criteria: 2002* (EPA 2002) and listed in Table 3. The limiting calculated TR value is selected as the wSAL.

Step 3: Evaluate MSGP Sector K Benchmark values.

If there is no applicable NMWQCC WQC for the pollutant, the EPA MSGP benchmark monitoring cutoff concentrations that are applicable to Sector K – Hazardous Waste Treatment, Storage or Disposal Facilities - are evaluated. The MSGP parameter benchmark values are established at 65 FR 64767. The benchmark concentrations for Sector K pollutants are listed in Table 4. (Note: The MSGP benchmark values are based on total recoverable concentrations.)

- If there is an applicable MSGP benchmark for the pollutant, the benchmark monitoring cutoff concentration is selected as the wSAL.

Step 4: Develop criterion for wSAL using established protocols.

If there is no applicable NMWQCC WQC or applicable EPA MSGP benchmark for the pollutant, and if the pollutant is detected in storm water runoff, the criterion for a wSAL may be developed using protocols described at NMAC 20.6.4.12 (F)(2) and in *National Recommended Water Quality Criteria: 2002* (EPA 2002).

- Alternatively, protocols used by the EPA to develop NPDES effluent limitations and benchmark values may be applied.

- Where no appropriate criterion or protocol is available, an acceptable wSAL may be developed in consultation with the NMED and EPA Region 6.

8.5 Implementation of wSALs

Table 5 summarizes the Ephemeral wSAL and Perennial wSAL values that will be implemented in the 2006 monitoring year, and compares these values with the 2005 wSAL values. For the purposes of comparing sample results with the wSALs, FFCA/AO storm water monitoring locations are assigned a 'WQC category' according to the matrix shown in Table 1. The WQC category is based on the following factors:

- land ownership at the FFCA/AO monitoring location – DOE, Los Alamos County, San Ildefonso Pueblo, or United States Forest Service;

- classification of the segment or watercourse at the FFCA/AO monitoring location;

- whether the FFCA/AO monitoring location is located on a land conveyance and transfer parcel; and

- the stream type at the FFCA/AO monitoring location – ephemeral, intermittent, or perennial.

The WQC category is an integer identifier that corresponds to a specific list of applicable WQC, as summarized in Table 1. The Ephemeral wSAL or Perennial wSAL is applied based on the WQC category of the FFCA/AO monitoring location, according to the matrix shown below.

WQC Category	Ephemeral wSAL	Perennial wSAL
1		**X**
2	**X**	
3	**X**	
4	**X**	
5		**X**
6	**X**	
7		**X**
8		**X**

8.6 References

65 FR 64746, *Final Reissuance of National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities; Notice.* (October 2000)
http://www.gpoaccess.gov/fr/index.html

DOE 1999: *Final Environmental Impact Statement for the Conveyance and Transfer of Certain Land Tracts Administered by the U.S. Department of Energy and Located at Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico*, DOE/EIS-0293. (October 1999)
http://www.eh.doe.gov/nepa/eis/eis0293/eis0293.htm

EPA 2001: US Environmental Protection Agency, NPDES Permit No. NM0028355, *Authorization to Discharge under the NPDES*, issued to the University of California and the U.S. Department of Energy, effective February 1, 2001. (February 2001)

EPA 2002a: US Environmental Protection Agency, "*National Recommended Water Quality Criteria: 2002,*" EPA-822/R-02-047. (November 2002) http://www.epa.gov/waterscience/pc/revcom.pdf

New Mexico 2006: State of New Mexico, *"Standards for Interstate and Intrastate Surface Waters,"* 20.6.4 NMAC, as amended through February 16, 2006, New Mexico Water Quality Control Commission, Santa Fe, New Mexico. (February 2006) http://www.nmcpr.state.nm.us/nmac/parts/title20/20.006.0004.pdf

Table 1. Relevant Classified Segments, Designated Uses, and Applicable Water Quality Standards

WQC Category (1)	Land Ownership	20.6.4 NMAC Classification (2)	Land Conveyance & Transfer (Y/N) (3)	Stream Type	Designated Uses	Applicable NMWQCC Water Quality Criteria
1	Department of Energy	20.6.4.126	No	Perennial	Coldwater Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Chronic Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
						Chronic Total Ammonia (20.6.4.900[M])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])
2	Department of Energy	20.6.4.128	No	Ephemeral	Limited Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health Persistent (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])
3	Department of Energy	20.6.4.128	Yes	Ephemeral	Limited Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health Persistent (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])

Table 1, cont'd. Relevant Classified Segments, Designated Uses, and Applicable Water Quality Standards

WQC Category (1)	Land Ownership	20.6.4 NMAC Classification (2)	Land Conveyance & Transfer (Y/N) (3)	Stream Type	Designated Uses	Applicable NMWQCC Water Quality Criteria
4	Department of Energy	20.6.4.128	No	Intermittent	Limited Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health Persistent (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])
5	Department of Energy	20.6.4.128	Yes	Intermittent	Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Chronic Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])
6	Los Alamos County, San Ildefonso Pueblo, or USFS	20.6.4.97	No	Ephemeral	Limited Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health Persistent (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])

Table 1 cont'd. Relevant Classified Segments, Designated Uses, and Applicable Water Quality Standards

WQC Category (1)	Land Ownership	20.6.4 NMAC Classification (2)	Land Conveyance & Transfer (Y/N) (3)	Stream Type	Designated Uses	Applicable NMWQCC Water Quality Criteria
7	Los Alamos County, San Ildefonso Pueblo, or USFS	20.6.4.98	No	Intermittent	Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Chronic Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])
8	Los Alamos County, San Ildefonso Pueblo, or USFS	20.6.4.99	No	Perennial	Aquatic Life	Acute Aquatic Life (20.6.4.900[H], [I], [J])
						Chronic Aquatic Life (20.6.4.900[H], [I], [J])
						Human Health (20.6.4.900[J])
						Acute Total Ammonia (20.6.4.900[K])
					Livestock Watering	Livestock Watering (20.6.4.900[F], [J])
					Wildlife Habitat	Wildlife Habitat (20.6.4.900[G], [J])
					Secondary Contact	Secondary Contact (20.6.4.900[E])

Notes:

1) The WQC Category is a LANL-assigned numeric identifier that is assigned to FFCA/AO monitoring locations.
2) *State of New Mexico Standards for Interstate and Intrastate Surface Waters* (NMAC 20.6.4) (New Mexico 2006).
3) Locations of land transfer parcels located at Los Alamos National Laboratory are described in *Final Environmental Impact Statement for the Conveyance and Transfer of Certain Land Tracts Administered by the U.S. Department of Energy and Located at Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico*, DOE/EIS-0293 (DOE 1999).

Table 2. Derivation of Ephemeral wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health Persistent (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		Limiting Numeric Criterion (5) (µg/L)		MSGP Sector K Benchmark (6) (µg/L)	Ephemeral wSAL (7) (µg/L)
		Diss	**TR**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**TR**	**TR**
Aluminum	7429-90-5	5,000	*5,000*				750	*750*	750	*750*		750
Ammonia (as N) (8) (9)	7664-41-7							39,100		39,100	19,000	39,100
Antimony	7440-36-0				640	*640*			640	*640*		640
Arsenic	7440-38-2	200	*200*		9.0	*9.0*	340	*340*	9.0	*9.0*	168.54	9.0
Beryllium	7440-41-7											Report
Boron	7440-42-8	5,000	*5,000*						5,000	*5,000*		5,000
Cadmium	7440-43-9	50	*55*				2.0	*2.1*	2.0	*2.1*	15.9	2.1
Chemical oxygen demand (8)	--										120,000	120,000
Chlorine residual	7782-50-5			11				19	na	11		11
Chromium	18540-29-9	1,000	*1,040*				570	*580*	570	*580*		580
Cobalt	7440-48-4	1,000	*1,000*						1,000	*1,000*		1,000
Copper	7440-50-8	500	*521*				13.4	*14.0*	13.4	*14.0*		14.0
Cyanide, total (8)	57-12-5										63.6	63.6
Cyanide, weak acid dissociable (8)	57-12-5			5.2			na	22.0	na	5.2		5.2
Lead	7439-92-1	100	*126*				64.6	*81.7*	64.6	*81.7*	81.6	81.7
Magnesium	7439-95-4										63.6	63.6
Mercury	7439-97-6	na	10	0.77			1.4	*1.6*	1.4	0.77	2.4	0.77
Nickel	7440-02-0				4,600	*4,614*	468	*469*	468	*469*		469
Nitrate + Nitrite (as N) (8)	--	132,000							na	132,000		132,000
Perchlorate	14797-73-0											Report

Table 2. Derivation of Ephemeral wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health Persistent (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		Limiting Numeric Criterion (5) (µg/L)		MSGP Sector K Benchmark (6) (µg/L)	Ephemeral wSAL (7) (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
Selenium	7782-49-2	50	*50*	5.0	4,200	*4,200*		20.0	50	5.0	238.5	5.0
Silver	7440-22-4						3.2	*3.8*	3.2	*3.8*	31.8	3.8
Thallium	7440-28-0				6.3	*6.3*			6.3	*6.3*		6.3
Vanadium	7440-62-2	100	*100*						100	*100*		100
Zinc	7440-66-6	25,000	*25,355*		26,000	*26,369*	117	*120*	117	*120*		120
Aldrin (8)	309-00-2					0.00050		3.0	na	0.00050		0.00050
Benzo(a)pyrene (8)	50-32-8					0.18			na	0.18		0.18
Gamma-BHC (Lindane) (8)	58-89-9							0.95	na	0.95		0.95
Chlordane (8)	57-74-9					0.0081		2.4	na	0.0081		0.0081
4,4'-DDT and derivatives (8)	50-29-3			0.001		0.0022		1.1	na	0.001		0.001
Dieldrin (8)	60-57-1					0.00054		0.24	na	0.00054		0.00054
2,3,7,8-TCDD Dioxin (8)	1746-01-6					5.10E-08			na	5.10E-08		5.10E-08
alpha-Endosulfan (8)	959-98-8							0.22	na	0.22		0.22
beta-Endosulfan (8)	33213-65-9							0.22	na	0.22		0.22
Endrin (8)	72-20-8							0.086	na	0.086		0.086
Heptachlor (8)	76-44-8							0.52	na	0.52		0.52
Heptachlor epoxide (8)	1024-57-3							0.52	na	0.52		0.52
Hexachlorobenzene (8)	118-74-1					0.0029			na	0.0029		0.0029
PCBs (8)	1336-36-3			0.014		0.00064			na	0.00064		0.00064
Pentachlorophenol (8)	87-86-5							19	na	19		19

Table 2. Derivation of Ephemeral wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health Persistent (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		Limiting Numeric Criterion (5) (µg/L)		MSGP Sector K Benchmark (6) (µg/L)	Ephemeral wSAL (7) (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
RDX (8) (10)	121-82-4											200
Tetrachloroethylene (8)	127-18-4					33			na	33		33
Toxaphene (8)	8001-35-2							0.73	na	0.73		0.73
2,4,6-Trinitrotoluene (8) (10)	118-96-7											20
Ra-226 + Ra-228 (8)	--		30 pCi/L						na	30 pCi/L		30 pCi/L
Tritium (8) (11)	10028-17-8		20,000 pCi/L						na	20,000 pCi/L		20,000 pCi/L
Adjusted gross alpha (8) (12)	--		15 pCi/L						na	15 pCi/L		15 pCi/L

This table is based on *New Mexico Standards for Interstate and Intrastate Surface Waters* 20.6.4 NMAC, effective July 17, 2005.

CAS = Chemical Abstracts Service

Diss = dissolved

MSGP = Multi-Sector General Permit

na = not applicable

TR = total recoverable

wSAL = storm water screening action level

WQCC = [New Mexico] Water Quality Control Commission

Table 2 Notes:

(1) The WQCC Livestock Watering water quality criteria (see NMAC 20.6.4.900 [M]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. For the metal pollutants except mercury, the promulgated WQCC numeric criteria are for the dissolved concentration. The criteria for the total recoverable concentration are calculated using the EPA chronic conversion factors given in *National Recommended Water Quality Criteria:2002* (EPA-822-R-02-047), and are shown in italics. The numeric criterion for mercury is based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(2) The WQCC Wildlife Habitat water quality criteria (see NMAC 20.6.4.900 [M]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. The numeric criteria for Wildlife Habitat are based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(3) The WQCC Human Health water quality criteria (see NMAC 20.6.4.900 [M]) for persistent pollutants are applicable to storm water runoff in ephemeral and intermittent watercourses at LANL. For the metal pollutants, the promulgated WQCC numeric criteria are for the dissolved concentration. The criteria for the total recoverable concentration are calculated using the EPA chronic conversion factors given in given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics. For organic pollutants, the numeric criteria are based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(4) The WQCC Acute Aquatic Life water quality criteria (see NMAC 20.4.6.900 [H] and [M]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. For the metal pollutants, the promulgated WQCC numeric criteria are for the dissolved concentration. Hardness-dependent acute standards for dissolved silver, cadmium, chromium, copper, lead, nickel, and zinc are calculated according to NMAC 20.6.4.900 (J) using a hardness value of 100 mg/L CaCO3. The criteria for the total recoverable concentration are calculated using the EPA acute conversion factors given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics.

(5) The Limiting Numeric Criterion is selected as the lowest value of the applicable numeric criteria, where the applicable criteria are those for Livestock Watering, Wildlife Habitat, Acute Aquatic Life, and Persistent Human Health.

(6) MSGP Benchmark Monitoring Cutoff Concentrations are those applicable to Sector K - Hazardous Waste Treatment, Storage, or Disposal Facilities (including Solid Waste Management Units). The MSGP Benchmark values for metal pollutants are for the total recoverable concentration.

(7) The wSAL is assigned - in the following order of priority - as (i) the Limiting Numeric Criterion - Total Recoverable; (ii) the MSGP Sector K benchmark value; or (iii) the effluent limitation set forth in NPDES Permit No. NM0028355.

(8) An unfiltered sample is submitted to the analytical laboratory for analysis of this pollutant.

(9) Total Ammonia Acute Criteria taken from 20.6.4.900.K for pH=6.9, Salmonids absent.

(10) wSAL values for 2,4,6-trinitrotoluene (TNT) and RDX are based on effluent limitations set forth in NPDES Permit No. NM0028355.

(11) When accelerator produced.

(12) "Adjusted gross alpha" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample, including radion -226, but excluding radon-222 and uranium. Also excluded are source, special nuclear and by-product material as defined by the atomic Energy Act of 1954.

Table 3. EPA Conversion Factors for Dissolved Metals (1)

Pollutant	Freshwater Conversion Factor (2)	
	Criteria Maximum Concentration (Acute) (3)	Criterion Continuous Concentration Chronic (4)
Aluminum	--	--
Antimony	--	--
Arsenic	1.000	1.000
Beryllium	--	--
Boron	--	--
Cadmium (5)	0.944	0.909
Chromium (III)	0.316	0.860
Chromium (VI)	0.982	0.962
Cobalt	--	--
Copper	0.960	0.960
Iron	--	--
Lead (5)	0.791	0.791
Magnesium	--	--
Mercury	0.85	0.85
Nickel	0.998	0.997
Selenium	--	--
Silver	0.85	--
Thallium	--	--
Vanadium	--	--
Zinc	0.978	0.986

Table 3 Notes:

1. Conversion factors for dissolved metals in freshwater are taken from Appendix A to *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047).
2. The term "Conversion Factor" represents the recommended conversion factor for converting a metal criterion expressed as the total recoverable fraction in the water column to a criterion expressed as the dissolved fraction in the water column.

   [Dissolved] = Conversion Factor x [Total Recoverable]
   [Total Recoverable] = [Dissolved] / Conversion Factor
3. The Criteria maximum Concentration (CMC) is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed briefly without resulting in an unacceptable effect.
4. The Criterion Continuous Concentration (CCC) is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect.
5. Conversion Factors for Cd and Pb are hardness dependent. The values shown are based on a hardness of 100 mg/L as $CaCO_3$.

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	**TR**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**TR**	**TR**
Aluminum	7429-90-5	5,000	*5,000*				750	*750*	87	*87*	87	*87*		87
Ammonia (as N) (8)	7664-41-7							19,000		8,190		8,190	19,000	8,190
Antimony	7440-36-0				640	*640*					640	*640*		640
Arsenic	7440-38-2	200	*200*		9.0	*9.0*	340	*340*	150	*150*	9.0	*9.0*	168.54	9.0
Beryllium	7440-41-7													
Boron	7440-42-8	5,000	*5,000*								5,000	*5,000*		5,000
Cadmium	7440-43-9	50	*55*				2.0	*2.1*	0.2	*0.22*	0.2	*0.22*	15.9	0.22
Chemical oxygen demand (8)	--												120,000	120,000
Chlorine residual	7782-50-5			11				19		11		11		11
Chromium	18540-29-9	1,000	*1,040*				570	*580*	74.1	*77.0*	74.1	*77.0*		77.0
Cobalt	7440-48-4	1,000	*1,000*								1,000	*1,000*		1,000
Copper	7440-50-8	500	*521*				13.4	*14.0*	9.0	*9.4*	9.0	*9.4*		9.4
Cyanide, total (8)	57-12-5												63.6	63.6
Cyanide, weak acid dissociable (8)	57-12-5			5.2			na	22.0	na	5.2		5.2		5.2
Lead	7439-92-1	100	*126*				65	*81.7*	2.5	*3.2*	3	*3.2*	81.6	3.2
Magnesium	7439-95-4												63.6	63.6
Mercury	7439-97-6	na	10	0.77			1.4	*1.6*	0.77	*0.91*	0.77	0.77	2.4	0.77
Nickel	7440-02-0				4,600	*4,614*	468	*469*	52	*52.2*	52	*52.2*		52.2
Nitrate + Nitrite (as N)	--		132,000									132,000		132,000
Perchlorate anion	14797-73-0													Report

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	**TR**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**Diss**	**TR**	**TR**	**TR**
Selenium	7782-49-2	50	*50*	5.0	4,200	*4,200*		20.0		5.0	50	5.0	238.5	5.0
Silver	7440-22-4						3.2	*3.8*			3.2	*3.8*	31.8	3.8
Thallium	7440-28-0				6.3	*6.3*					6.3	*6.3*		6.3
Vanadium	7440-62-2	100	*100*								100	*100*		100
Zinc	7440-66-6	25,000	*25,355*		26,000	*26,369*	117	*120*	118	*120*	117	*120*		120
Aldrin (8)	309-00-2					0.00050		3.0				0.00050		0.00050
Benzo(a)pyrene (8)	50-32-8					0.18						0.18		0.18
Gamma-BHC (Lindane) (8)	58-89-9							0.95				0.95		0.95
Chlordane (8)	57-74-9					0.0081		2.4		0.004		0.0043		0.0043
4,4'-DDT and derivatives (8)	50-29-3			0.001		0.0022		1.1		0.001		0.001		0.001
Dieldrin (8)	60-57-1					0.00054		0.24		0.056		0.00054		0.00054
2,3,7,8-TCDD Dioxin (8)	1746-01-6					5.10E-08						5.10E-08		5.10E-08
alpha-Endosulfan (8)	959-98-8							0.22		0.056		0.056		0.056
beta-Endosulfan (8)	33213-65-9							0.22		0.056		0.056		0.056
Endrin (8)	72-20-8					0.81		0.086		0.036		0.036		0.036
Heptachlor (8)	76-44-8							0.52		0.004		0.0038		0.0038
Heptachlor epoxide (8)	1024-57-3							0.52		0.004		0.0038		0.0038
Hexachlorobenzene (8)	118-74-1					0.0029						0.0029		0.0029
PCBs (8)	1336-36-3			0.014		0.00064				0.014		0.00064		0.00064
Pentachlorophenol (8)	87-86-5					30		19		15		15		15
RDX (9)	121-82-4													200

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
Tetrachloroethylene (8)	127-18-4					33						33		33
Toxaphene (8)	8001-35-2							0.73		2E-04		0.0002		0.0002
2,4,6-Trinitrotoluene (9)	118-96-7													20
Ra-226 + Ra-228 (8)	--		30 pCi/L									30 pCi/L		30 pCi/L
Tritium (8) (10)	10028-17-8		20,000 pCi/L									20,000 pCi/L		20,000 pCi/L
Adjusted gross alpha (8) (11)	--		15 pCi/L									15 pCi/L		15 pCi/L
Acenaphthene	83-32-9					990						990		990
Acrolein	107-02-8					290						290		290
Acrylonitrile	107-13-1					2.5						2.5		2.5
Anthracene	120-12-7					40,000						40,000		40,000
Benzene	71-43-2					510						510		510
Benzidine	92-87-5					0.0020						0.0020		0.0020
Benzo(a)anthracene	56-55-3					0.18						0.18		0.18
Benzo(b)fluoranthene	205-99-2					0.18						0.18		0.18
Benzo(k)fluoranthene	207-08-9					0.18						0.18		0.18
BHC[alpha-]	319-84-6					0.049						0.049		0.049
BHC[beta-]	319-85-7					0.17						0.17		0.17
Bis(2-chloroethyl)ether	111-44-4					5.3						5.3		5.3
Bis(2-chloroisopropyl)ether	108-60-1					65,000						65,000		65,000
Bis(2-ethylhexyl)phthalate	117-81-7					22						22		22

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
Bromoform	75-25-2					1,400						1,400		1,400
Butylbenzylphthalate	85-68-7					1,900						1,900		1,900
Carbon Tetrachloride	56-23-5					16						16		16
Chlorobenzene	108-90-7					21,000						21,000		21,000
Chlorodibromomethane	124-48-1					130						130		130
Chloroform	67-66-3					4,700						4,700		4,700
Chloronaphthalene[2-]	91-58-7					1,600						1,600		1,600
Chlorophenol[2-]	95-57-8					150						150		150
Chrysene	218-01-9					0.18						0.18		0.18
Dibenz(a,h)anthracene	53-70-3					0.18						0.18		0.18
Dibutyl phthalate	84-74-2					4,500						4,500		4,500
Dichlorobenzene[1,2-]	95-50-1					17,000						17,000		17,000
Dichlorobenzene[1,3-]	541-73-1					960						960		960
Dichlorobenzene[1,4-]	106-46-7					2,600						2,600		2,600
Dichlorobenzidine[3,3'-]	91-94-1					0.28						0.28		0.28
Dichlorobromomethane	75-27-4					170						170		170
Dichloroethane[1,2-]	107-06-2					370						370		370
Dichloroethylene[1,1-]	75-35-4					32						32		32
Dichlorophenol[2,4-]	120-83-2					290						290		290
Dichloropropane[1,2-]	78-87-5					150						150		150
Dichloropropene[1,3-]	542-75-6					1,700						1,700		1,700

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
Diethylphthalate	84-66-2					44,000						44,000		44,000
Dimethyl Phthalate	131-11-3					1,100,000						1,100,000		1,100,000
Dimethylphenol[2,4-]	105-67-9					850						850		850
Dinitrophenol[2,4-]	51-28-5					5,300						5,300		5,300
Dinitrotoluene[2,4-]	121-14-2					34						34		34
Diphenylhydrazine[1,2-]	122-66-7					2						2		2
Endosulfan Sulfate	1031-07-8					89						89		89
Endrin	72-20-8					0.81						0.81		0.81
Endrin Aldehyde	7421-93-4					0.3						0.3		0.3
Ethylbenzene	100-41-4					29,000						29,000		29,000
Fluoranthene	206-44-0					140						140		140
Fluorene	86-73-7					5,300						5,300		5,300
Hexachlorobutadiene	87-68-3					180						180		180
Hexachlorocyclopentadiene	77-47-4					17,000						17,000		17,000
Hexachloroethane	67-72-1					33						33		33
Indeno(1,2,3-cd)pyrene	193-39-5					0.18						0.18		0.18
Isophorone	78-59-1					9,600						9,600		9,600
Methyl bromide	74-83-9					1,500						1,500		1,500
Methy-4,6-dinitrophenol[2-]	534-52-1					280						280		280
Methylene Chloride	75-09-2					5,900						5,900		5,900
Nitrobenzene	98-95-3					690						690		690

Table 4. Derivation of Perennial wSALs

Pollutant	CAS Number	WQCC Livestock Watering (1) (µg/L)		WQCC Wildlife Habitat (2) (µg/L)	WQCC Human Health (3) (µg/L)		WQCC Acute Aquatic Life (4) (µg/L)		WQCC Chronic Aquatic Life (5) (µg/L)		Limiting Numeric Criterion (6) (µg/L)		MSGP Sector K Benchmark (7) (µg/L)	Perennial wSAL (µg/L)
		Diss	TR	TR	Diss	TR	Diss	TR	Diss	TR	Diss	TR	TR	TR
Nitrosodimethylamine[N-]	62-75-9					30						30		30
Nitroso-di-n-propylamine[N-]	621-64-7					5.1						5.1		5.1
Nitrosodiphenylamine[N-]	86-30-6					60						60		60
Pentachlorophenol	87-86-5					30						30		30
Phenol	108-95-2					1,700,000						1,700,000		1,700,000
Pyrene	129-00-0					4,000						4,000		4,000
Tetrachloroethane[1,1,2,2-]	79-34-5					40						40		40
Tetrachloroethylene	127-18-4					33						33		33
Toluene	108-88-3					200,000						200,000		200,000
Toxaphene	8001-35-2					0.0028						0.0028		0.0028
Trichlorobenzene[1,2,4-]	120-82-1					940						940		940
Trichloroethane[1,1,2-]	79-00-5					160						160		160
Trichloroethylene	79-01-6					300						300		300
Trichlorophenol[2,4,6-]	88-06-2					24						24		24
Vinyl Chloride	75-01-4					5,300						5,300		5,300

This table is based on *New Mexico Standards for Interstate and Intrastate Surface Waters* 20.6.4 NMAC, effective July 17, 2005.

CAS = Chemical Abstracts Service

Diss = dissolved

MSGP = Multisector General Permit

na = not applicable

TR = total recoverable

wSAL = water screening action level

WQCC = [New Mexico] Water Quality Control Commission

Table 4 Notes:

(1) The WQCC Livestock Watering water quality criteria (see NMAC 20.6.4.900 [J]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. For the metal pollutants except mercury, the promulgated WQCC numeric criteria are for the dissolved concentration. The criteria for the total recoverable concentration are calculated using the EPA chronic conversion factors given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics. The numeric criterion for mercury is based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(2) The WQCC Wildlife Habitat water quality criteria (see NMAC 20.6.4.900 [J]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. The numeric criteria for Wildlife Habitat are based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(3) The WQCC Human Health water quality criteria (see NMAC 20.6.4.900 [J]) for persistent pollutants are applicable to storm water runoff in ephemeral and intermittent watercourses at LANL. For the metal pollutants, the promulgated WQCC numeric criteria are for the dissolved concentration. The criteria for the total recoverable concentration are calculated using the EPA chronic conversion factors given in given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics. For organic pollutants, the numeric criteria are based on analysis of an unfiltered sample (i.e., equivalent to a total recoverable concentration).

(4) The WQCC Acute Aquatic Life water quality criteria (see NMAC 20.4.6.900 [H], [I] and [J]) are applicable to storm water runoff in perennial, ephemeral, and intermittent watercourses at LANL. For the metal pollutants, the promulgated WQCC numeric criteria are for the dissolved concentration. Hardness-dependent acute standards for dissolved silver, cadmium, chromium, copper, lead, nickel, and zinc are calculated according to NMAC 20.6.4.900 (J) using a hardness value of 100 mg/L $CaCO_3$. The criteria for the total recoverable concentration are calculated using the EPA acute conversion factors given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics.

(4) The WQCC Chronic Aquatic Life water quality criteria (see NMAC 20.4.6.900 [H, I, and J]) are applicable to storm water runoff in perennial watercourses at LANL. The Chronic Aquatic Life standards for metal pollutants are based on the dissolved concentration. Hardness-dependent acute standards for dissolved cadmium, chromium, copper, lead, nickel, and zinc are calculated according to NMAC 20.6.4.900 (I) using a hardness value of 100 mg/L CaCO3. The criteria for the total recoverable concentration are calculated using the EPA acute conversion factors given in *National Recommended Water Quality Criteria: 2002* (EPA-822-R-02-047), and are shown in italics.

(5) The Limiting Numeric Criterion is selected as the lowest value of the applicable numeric criteria, where the applicable criteria are those for Livestock Watering, Wildlife Habitat, Human Health, and Aquatic Life.

(6) MSGP Benchmark Monitoring Cutoff Concentrations are those applicable to Sector K - Hazardous Waste Treatment, Storage, or Disposal Facilities (including Solid Waste Management Units). The MSGP Benchmark values for metal pollutants are for the total recoverable concentration.

(7) The wSAL is assigned - in the following order of priority - as (i) the Limiting Numeric Criterion - Total Recoverable; (ii) the MSGP Sector K benchmark value; or (iii) the effluent limitation set forth in NPDES Permit No. NM0028355.

(8) An unfiltered sample is submitted to the analytical laboratory for analysis of this pollutant.

(9) wSAL values for 2,4,6-trinitrotoluene (TNT) and RDX are based on effluent limitations set forth in NPDES Permit No. NM0028355.

(10) When accelerator produced.

(11) "Adjusted gross alpha" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample, including radium -226, but excluding radon-222 and uranium. Also excluded are source, special nuclear and by-product material as defined by the atomic Energy Act of 1954.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Aluminum	7429-90-5	5,000	Livestock Watering standard for dissolved concentration.	750	Acute Aquatic Life standard for dissolved concentration.	87	Chronic Aquatic Life standard for dissolved concentration.
Ammonia (as N)	7664-41-7	19,000	Acute Aquatic Life standard for ammonia concentration in an unfiltered sample.	39,100	Acute Aquatic Life standard for ammonia concentration in an unfiltered sample.	8,190	Chronic Aquatic Life standard for ammonia concentration in an unfiltered sample.
Antimony	7440-36-0	4,300	Persistent Human Health standard for dissolved concentration.	640	Persistent Human Health standard for dissolved concentration.	640	Persistent Human Health standard for dissolved concentration.
Arsenic	7440-38-2	24.2	Persistent Human Health standard for dissolved concentration.	9.0	Persistent Human Health standard for dissolved concentration.	9.0	Persistent Human Health standard for dissolved concentration.
Beryllium	7440-41-7	130	Acute Aquatic Life standard for dissolved concentration.	Report	Aquatic Life standard for beryllium withdrawn.	Report	Aquatic Life standard for beryllium withdrawn.
Boron	7440-42-8	5,000	Livestock Watering standard for dissolved concentration.	5,000	Livestock Watering standard for dissolved concentration.	5,000	Livestock Watering standard for dissolved concentration.
Cadmium	7440-43-9	55	Livestock Watering standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	2.1	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	0.22	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Chemical oxygen demand	--	120,000	MSGP benchmark monitoring cutoff concentration for Sector K.	120,000	MSGP benchmark monitoring cutoff concentration for Sector K.	120,000	MSGP benchmark monitoring cutoff concentration for Sector K.
Chlorine residual	7782-50-5	11	Wildlife Habitat standard for residual chlorine in an unfiltered sample.	11	Wildlife Habitat standard for residual chlorine in an unfiltered sample.	11	Wildlife Habitat standard for residual chlorine in an unfiltered sample.
Chromium	18540-29-9	1,163	Livestock Watering standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	580	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	77.0	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Cobalt	7440-48-4	1,000	Livestock Watering standard for dissolved concentration.	1,000	Livestock Watering standard for dissolved concentration.	1,000	Livestock Watering standard for dissolved concentration.
Copper	7440-50-8	521	Livestock Watering standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	14.0	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	9.4	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Cyanide, total	57-12-5	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.
Cyanide, weak acid dissociable	57-12-5	5.2	Wildlife Habitat standard for weak acid dissociable cyanide in an unfiltered sample.	5.2	Wildlife Habitat standard for weak acid dissociable cyanide in an unfiltered sample.	5.2	Wildlife Habitat and Chronic Aquatic Life standard for weak acid dissociable cyanide in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Lead	7439-92-1	126	Livestock Watering standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	81.7	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	3.2	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Magnesium	7439-95-4	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.	63.6	MSGP benchmark monitoring cutoff concentration for Sector K.
Mercury	7439-97-6	0.77	Wildlife Habitat standard for mercury in an unfiltered sample.	0.77	Wildlife Habitat standard for mercury in an unfiltered sample.	0.77	Wildlife Habitat standard for mercury in an unfiltered sample.
Nickel	7440-02-0	4,614	Persistent Human Health standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	469	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	52.2	Chronic Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.
Nitrate + Nitrite (as N)	--			132,000	Livestock Watering standard for dissolved concentration.	132,000	Livestock Watering standard for dissolved concentration.
Perchlorate	14797-73-0	Report	Results for perchlorate anion will be reported only.	Report	Results for perchlorate anion will be reported only.	Report	Results for perchlorate anion will be reported only.
Selenium	7782-49-2	5	Wildlife Habitat standard for total recoverable selenium.	5.0	Wildlife Habitat standard for total recoverable selenium.	5.0	Wildlife Habitat and Chronic Aquatic Life standard for total recoverable selenium.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Silver	7440-22-4	4.1	Acute Aquatic Life standard for dissolved concentration converted to total concentration using EPA acute conversion factor.	3.8	Acute Aquatic Life standard for dissolved concentration converted to total concentration using EPA acute conversion factor.	3.8	Acute Aquatic Life standard for dissolved concentration converted to total concentration using EPA acute conversion factor.
Thallium	7440-28-0	6.3	Persistent Human Health standard for dissolved concentration.	6.3	Persistent Human Health standard for dissolved concentration.	6.3	Persistent Human Health standard for dissolved concentration.
Vanadium, dissolved	7440-62-2	100	Livestock Watering standard for dissolved concentration.	100	Livestock Watering standard for dissolved concentration.	100	Livestock Watering standard for dissolved concentration.
Zinc, dissolved	7440-66-6	25,355	Livestock Watering standard for dissolved concentration converted to total recoverable concentration using EPA chronic conversion factor.	120	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.	120	Acute Aquatic Life standard for dissolved concentration converted to total recoverable concentration using EPA acute conversion factor.
Aldrin	309-00-2	0.0014	Persistent Human Health standard for concentration in an unfiltered sample.	0.00050	Persistent Human Health standard for concentration in an unfiltered sample.	0.00050	Persistent Human Health standard for concentration in an unfiltered sample.
Benzo(a)pyrene	50-32-8	0.49	Persistent Human Health standard for concentration in an unfiltered sample.	0.18	Persistent Human Health standard for concentration in an unfiltered sample.	0.18	Persistent Human Health standard for concentration in an unfiltered sample.
Gamma-BHC (Lindane)	58-89-9	0.95	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.95	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.95	Acute Aquatic Life standard for concentration in an unfiltered sample.
Chlordane	57-74-9	0.022	Persistent Human Health standard for concentration in an unfiltered sample.	0.0081	Persistent Human Health standard for concentration in an unfiltered sample.	0.0043	Chronic Aquatic Life standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
4,4'-DDT and derivatives	50-29-3	0.001	Wildlife Habitat standard for concentration in an unfiltered sample.	0.001	Wildlife Habitat standard for concentration in an unfiltered sample.	0.001	Wildlife Habitat standard for concentration in an unfiltered sample.
Dieldrin	60-57-1	0.0014	Persistent Human Health standard for concentration in an unfiltered sample.	0.00054	Persistent Human Health standard for concentration in an unfiltered sample.	0.00054	Persistent Human Health standard for concentration in an unfiltered sample.
2,3,7,8-TCDD Dioxin	1746-01-6	1.40E-07	Persistent Human Health standard for concentration in an unfiltered sample.	5.10E-08	Persistent Human Health standard for concentration in an unfiltered sample.	5.10E-08	Persistent Human Health standard for concentration in an unfiltered sample.
alpha-Endosulfan	959-98-8	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.056	Chronic Aquatic Life standard for concentration in an unfiltered sample.
beta-Endosulfan	33213-65-9	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.22	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.056	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Endrin	72-20-8	0.086	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.086	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.036	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Heptachlor	76-44-8	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0038	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Heptachlor epoxide	1024-57-3	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.52	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0038	Chronic Aquatic Life standard for concentration in an unfiltered sample.
Hexachlorobenzene	118-74-1	0.0077	Persistent Human Health standard for concentration in an unfiltered sample.	0.0029	Persistent Human Health standard for concentration in an unfiltered sample.	0.0029	Persistent Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
PCBs	1336-36-3	0.0017	Persistent Human Health standard for concentration in an unfiltered sample.	0.00064	Persistent Human Health standard for concentration in an unfiltered sample.	0.00064	Persistent Human Health standard for concentration in an unfiltered sample.
Pentachlorophenol	87-86-5	19	Acute Aquatic Life standard for concentration in an unfiltered sample.	19	Acute Aquatic Life standard for concentration in an unfiltered sample.	15	Chronic Aquatic Life standard for concentration in an unfiltered sample.
RDX	121-82-4	200	Effluent limitation set forth in NPDES Permit No. NM0028355.	200	Effluent limitation set forth in NPDES Permit No. NM0028355.	200	Effluent limitation set forth in NPDES Permit No. NM0028355.
Tetrachloroethylene	127-18-4	88.5	Persistent Human Health standard for concentration in an unfiltered sample.	33	Persistent Human Health standard for concentration in an unfiltered sample.	33	Persistent Human Health standard for concentration in an unfiltered sample.
Toxaphene	8001-35-2	0.73	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.73	Acute Aquatic Life standard for concentration in an unfiltered sample.	0.0002	Chronic Aquatic Life standard for concentration in an unfiltered sample.
2,4,6-Trinitrotoluene	118-96-7	20	Effluent limitation set forth in NPDES Permit No. NM0028355.	20	Effluent limitation set forth in NPDES Permit No. NM0028355.	20	Effluent limitation set forth in NPDES Permit No. NM0028355.
Ra-226 + Ra-228	--	30 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	30 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	30 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.
Tritium	10028-17-8	20,000 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	20,000 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	20,000 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.
Adjusted gross alpha	--	15 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	15 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.	15 pCi/L	Livestock Watering standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Acenaphthene	83-32-9					990	Human Health standard for concentration in an unfiltered sample.
Acrolein	107-02-8					290	Human Health standard for concentration in an unfiltered sample.
Acrylonitrile	107-13-1					2.5	Human Health standard for concentration in an unfiltered sample.
Anthracene	120-12-7					40,000	Human Health standard for concentration in an unfiltered sample.
Benzene	71-43-2					510	Human Health standard for concentration in an unfiltered sample.
Benzidine	92-87-5					0.0020	Human Health standard for concentration in an unfiltered sample.
Benzo(a)anthracene	56-55-3					0.18	Human Health standard for concentration in an unfiltered sample.
Benzo(b)fluoranthene	205-99-2					0.18	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Benzo(k)fluoranthene	207-08-9					0.18	Human Health standard for concentration in an unfiltered sample.
BHC[alpha-]	319-84-6					0.049	Human Health standard for concentration in an unfiltered sample.
BHC[beta-]	319-85-7					0.17	Human Health standard for concentration in an unfiltered sample.
Bis(2-chloroethyl)ether	111-44-4					5.3	Human Health standard for concentration in an unfiltered sample.
Bis(2-chloroisopropyl)ether	108-60-1					65,000	Human Health standard for concentration in an unfiltered sample.
Bis(2-ethylhexyl)phthalate	117-81-7					22	Human Health standard for concentration in an unfiltered sample.
Bromoform	75-25-2					1,400	Human Health standard for concentration in an unfiltered sample.
Butylbenzylphthalate	85-68-7					1,900	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Carbon Tetrachloride	56-23-5					16	Human Health standard for concentration in an unfiltered sample.
Chlorobenzene	108-90-7					21,000	Human Health standard for concentration in an unfiltered sample.
Chlorodibromomethane	124-48-1					130	Human Health standard for concentration in an unfiltered sample.
Chloroform	67-66-3					4,700	Human Health standard for concentration in an unfiltered sample.
Chloronaphthalene[2-]	91-58-7					1,600	Human Health standard for concentration in an unfiltered sample.
Chlorophenol[2-]	95-57-8					150	Human Health standard for concentration in an unfiltered sample.
Chrysene	218-01-9					0.18	Human Health standard for concentration in an unfiltered sample.
Dibenz(a,h)anthracene	53-70-3					0.18	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Dibutyl phthalate	84-74-2					4,500	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,2-]	95-50-1					17,000	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,3-]	541-73-1					960	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzene[1,4-]	106-46-7					2,600	Human Health standard for concentration in an unfiltered sample.
Dichlorobenzidine[3,3'-]	91-94-1					0.28	Human Health standard for concentration in an unfiltered sample.
Dichlorobromomethane	75-27-4					170	Human Health standard for concentration in an unfiltered sample.
Dichloroethane[1,2-]	107-06-2					370	Human Health standard for concentration in an unfiltered sample.
Dichloroethylene[1,1-]	75-35-4					32	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Dichlorophenol[2,4-]	120-83-2					290	Human Health standard for concentration in an unfiltered sample.
Dichloropropane[1,2-]	78-87-5					150	Human Health standard for concentration in an unfiltered sample.
Dichloropropene[1,3-]	542-75-6					1,700	Human Health standard for concentration in an unfiltered sample.
Diethylphthalate	84-66-2					44,000	Human Health standard for concentration in an unfiltered sample.
Dimethyl Phthalate	131-11-3					1,100,000	Human Health standard for concentration in an unfiltered sample.
Dimethylphenol[2,4-]	105-67-9					850	Human Health standard for concentration in an unfiltered sample.
Dinitrophenol[2,4-]	51-28-5					5,300	Human Health standard for concentration in an unfiltered sample.
Dinitrotoluene[2,4-]	121-14-2					34	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Diphenylhydrazine[1,2-]	122-66-7					2	Human Health standard for concentration in an unfiltered sample.
Endosulfan Sulfate	1031-07-8					89	Human Health standard for concentration in an unfiltered sample.
Endrin	72-20-8					0.81	Human Health standard for concentration in an unfiltered sample.
Endrin Aldehyde	7421-93-4					0.3	Human Health standard for concentration in an unfiltered sample.
Ethylbenzene	100-41-4					29,000	Human Health standard for concentration in an unfiltered sample.
Fluoranthene	206-44-0					140	Human Health standard for concentration in an unfiltered sample.
Fluorene	86-73-7					5,300	Human Health standard for concentration in an unfiltered sample.
Hexachlorobutadiene	87-68-3					180	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Hexachlorocyclopentadiene	77-47-4					17,000	Human Health standard for concentration in an unfiltered sample.
Hexachloroethane	67-72-1					33	Human Health standard for concentration in an unfiltered sample.
Indeno(1,2,3-cd)pyrene	193-39-5					0.18	Human Health standard for concentration in an unfiltered sample.
Isophorone	78-59-1					9,600	Human Health standard for concentration in an unfiltered sample.
Methyl bromide	74-83-9					1,500	Human Health standard for concentration in an unfiltered sample.
Methy-4,6-dinitrophenol[2-]	534-52-1					280	Human Health standard for concentration in an unfiltered sample.
Methylene Chloride	75-09-2					5,900	Human Health standard for concentration in an unfiltered sample.
Nitrobenzene	98-95-3					690	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Nitrosodimethylamine[N-]	62-75-9					30	Human Health standard for concentration in an unfiltered sample.
Nitroso-di-n-propylamine[N-]	621-64-7					5.1	Human Health standard for concentration in an unfiltered sample.
Nitrosodiphenylamine[N-]	86-30-6					60	Human Health standard for concentration in an unfiltered sample.
Pentachlorophenol	87-86-5					30	Human Health standard for concentration in an unfiltered sample.
Phenol	108-95-2					1,700,000	Human Health standard for concentration in an unfiltered sample.
Pyrene	129-00-0					4,000	Human Health standard for concentration in an unfiltered sample.
Tetrachloroethane[1,1,2,2-]	79-34-5					40	Human Health standard for concentration in an unfiltered sample.
Tetrachloroethylene	127-18-4					33	Human Health standard for concentration in an unfiltered sample.

Table 5. Summary of FFCA/AO wSALs

Pollutant	CAS Number	FFCA/AO 2005 wSAL Values		FFCA /AO 2006 wSAL Values			
				Ephemeral		Perennial	
		wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis	wSAL (µg/L)	wSAL Basis
Toluene	108-88-3					200,000	Human Health standard for concentration in an unfiltered sample.
Toxaphene	8001-35-2					0.0028	Human Health standard for concentration in an unfiltered sample.
Trichlorobenzene[1,2,4-]	120-82-1					940	Human Health standard for concentration in an unfiltered sample.
Trichloroethane[1,1,2-]	79-00-5					160	Human Health standard for concentration in an unfiltered sample.
Trichloroethylene	79-01-6					300	Human Health standard for concentration in an unfiltered sample.
Trichlorophenol[2,4,6-]	88-06-2					24	Human Health standard for concentration in an unfiltered sample.
Vinyl Chloride	75-01-4					5,300	Human Health standard for concentration in an unfiltered sample.

AO = Administrative Order

CAS = Chemical Abstracts Service

FFCA = Federal Facility Compliance Agreement

wSAL = storm water screening action level

Appendix 9.

Facility Maps Showing Low, Medium, and High Potential Site Boundaries

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All Sites Map for Los Alamos National Laboratory
Storm Water Pollution Prevention Plan-North
SMA Monitoring Locations
Gage stations
PRS with Erosion Potential >40
PRS with Erosion Potential <40
Drainages
Paved Roads
100ft Contour
Structures
TA Boundary
LANL Boundary
ENV-ECR GIS TEAM
Produced by: Brad McKown
March 17, 2005
Map Reference # 05-0012-02
Los Alamos NATIONAL LABORATORY
Ideas that change the World
1983 North American Datum
State Plane Coordinate System
New Mexico, Central Zone (US Feet)
LA-UR-05-2191
Miles
0 0.25 0.5 0.75 1
Kilometers
0 0.4 0.8 1.2 1.6
N
Disclaimer: This cartographic product is intended for use in the Storm Water Pollution Prevention Plan. For any other purpose, neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.
Locator Map
Los Alamos

All Sites Map for Los Alamos National Laboratory
Storm Water Pollution Prevention Plan-South

Appendix 10.

Certification of Non-Storm Water Discharges, February 13, 2006

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Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/04/2002	Steam Condensate	TA-3 MH-1029	01/04/2002	JCNNM	N/A	~500 gallons from S.C.
01/04/2002	Steam Condensate	TA-3 MH-1034	01/04/2002	JCNNM	N/A	~1000 gallons from S.C.
01/04/2002	Steam Condensate	TA-3 MH-1015	01/04/2002	JCNNM	N/A	~500 gallons from S.C.
01/10/2002	Steam Condensate	TA-3 MH-1000	01/11/2002	JCNNM	N/A	~400 gallons from S.C.
01/10/2002	Steam Condensate	TA-3 MH-1000	01/11/2002	JCNNM	N/A	~400 gallons from S.C.
01/10/2002	Steam Condensate	TA-3 MH-1029	01/11/2002	JCNNM	N/A	~400 gallons from S.C.
01/10/2002	Steam Condensate	TA-3 MH-1034	01/11/2002	JCNNM	N/A	~800 gallons from S.C.
01/13/2002	Potable Water	TA-3 Bldg. 216-43	01/14/2002	JCNNM	N/A	~100000 gallons from a water main leak
01/24/2002	Potable Water	TA-3 SM-22	01/25/2002	JCNNM	N/A	~126000 gallons from a 6" water line break
01/29/2002	Potable Water	TA-40 Bldg. 41	01/30/2002	JCNNM	N/A	~2700 gallons from a broken 3/4'" water line
01/30/2002	Potable Water	TA-33 air relief valve	01/30/2002	JCNNM	N/A	~3000 gallons from a broken air relief valve
01/31/2002	Steam Condensate	TA-3 MH-7000	02/01/2002	JCNNM	N/A	~500 gallons from S.C.
01/31/2002	Steam Condensate	TA-3 MH-1028	02/01/2002	JCNNM	N/A	~700 gallons from S.C.
01/31/2002	Steam Condensate	TA-3 MH-1034	02/01/2002	JCNNM	N/A	~500 gallons from S.C.
01/31/2002	Steam Condensate	TA-3 MH-1000	02/01/2002	JCNNM	N/A	~1000 gallons from S.C.
02/01/2002	Steam Condensate	TA-3 MH-1029	02/04/2002	JCNNM	N/A	~300 gallons from S.C.
02/01/2002	Steam Condensate	TA-3 MH-1034	02/04/2002	JCNNM	N/A	~700 gallons from S.C.
02/01/2002	Steam Condensate	TA-3 MH-1015	02/04/2002	JCNNM	N/A	~500 gallons from S.C.
02/05/2002	Steam Condensate	TA-3 MH-1029	02/06/2002	JCNNM	N/A	~500 gallons from S.C.
02/05/2002	Steam Condensate	TA-3 MH-1015	02/06/2002	JCNNM	N/A	~500 gallons from S.C.
02/05/2002	Steam Condensate	TA-3 MH-1034	02/06/2002	JCNNM	N/A	~1000 gallons from S.C.
02/25/2002	Steam Condensate	TA-61 Filling Station	02/25/2002	JCNNM	N/A	~1000 gallons from S.C.
04/23/02	Steam Condensate	TA-3 MH-1029	04/23/2002	JCNNM	N/A	~800 gallons from S.C.
04/23/02	Steam Condensate	TA-3 MH-1034	04/23/2002	JCNNM	N/A	~1000 gallons from S.C.
05/03/02	Potable Water	TA-51 Bldg. 51	05/03/02	JCNNM	N/A	~8000 gallons from an air valve malfunction

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/08/02	Potable Water	TA-22	05/08/02	JCNNM	N/A	~700 gallons from a water line break
05/09/02	Potable Water	TA-6 @ turn off	05/09/02	JCNNM	N/A	~900 gallons water line leak
05/14/02	Steam Condensate	TA-3 MH-1034	05/15/02	JCNNM	N/A	~800 gallons from S.C.
05/15/02	Steam Condensate	TA-3 MH-1029	05/15/02	JCNNM	N/A	~300 gallons from S.C.
05/22/02	Steam Condensate	TA-3 MH-1034	05/23/02	JCNNM	N/A	~1000 gallons from S.C.
05/22/02	Steam Condensate	TA-3 MH-1029	05/22/02	JCNNM	N/A	~700 gallons from S.C.
05/23/02	Steam Condensate	TA-3 MH-1015	05/23/02	JCNNM	N/A	~500 gallons from S.C.
05/30/02	Steam Condensate	TA-3 MH-1029	05/31/02	JCNNM	N/A	~800 gallons from S.C.
05/30/02	Steam Condensate	TA-3 MH-1034	05/31/02	JCNNM	N/A	~1000 gallons from S.C.
06/13/02	Potable Water	TA-40-5	06/31/02	DX-2	N/A	~500 gallons from a hose failure
06/25/02	Potable Water	TA-3 443 U. house	06/26/02	JCNNM	N/A	~500 gallons from a high pressure wash
06/29/02	Potable Water	TA-11	06/29/02	ESA	N/A	~17000 gallons from a water line break
07/02/02	Potable Water	TA-54 Area 6	07/02/02	JCNNM	N/A	~2000 gallons form a broken 10" water line
07/05/02	Potable Water	TA-22-5	07/05/05	DX-DO	N/A	~1350 gallons from a failed PID fire water valve
07/10/02	Potable Water	TA-22-5	07/10/02	DX	N/A	~500 gallons from a pressure sensor failure
07/14/02	Potable Water	TA-22-5	07/14/02	DX-FM	N/A	~300 gallons from a pressure sensor failure
08/03/02	Potable Water	TA-16 220 Complex	07/30/02	JCNNM	N/A	~30000 gallons from a cut and cap activity on a water main
08/10/02	Potable Water	TA-16 bldg 220	08/10/02	JCNNM	N/A	~30000 gallons from a cut and cap activity on a water main
08/16/02	Potable Water	TA-16-205/450	08/16/02	FWO	N/A	~10700 gallons (hydrant)
08/19/02	Potable Water	TA-9-38	08/20/02	DX	N/A	~700 gallons from a tank leak test
08/20/02	Potable Water	TA-46 bldg 24	08/20/02	JCNNM	N/A	~310 gallons from a leak on a water valve

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/28/02	Potable Water	TA-16 bldg 224	08/28/02	JCNNM	N/A	~1750 gallons from a broken 1 inch stubout on a 6 inch water main
08/28/02	Potable Water	TA-15 bldg 40	08/28/02	JCNNM	N/A	~10000 gallons from a water main break
08/29/02	Potable Water	TA-26-224	08/29/02	Contractor	N/A	~2600 gallons from a 1 inch water line leak
09/11/02	Potable Water	TA-15	09/12/02	DX	N/A	~600 gallons from a water main break
09/24/02	Potable Water	TA-53-622	09/24/02	LANSCE	N/A	~500 gallons from a concrete cutting saw operation
10/09/2002	Hydrant Flushing	TA-46-463	10/09/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
10/10/2002	Hydrant Flushing	TA-15-171	10/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
10/10/2002	Hydrant Flushing	TA-15-536	10/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
10/10/2002	Hydrant Flushing	TA-15-932	10/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
10/22/2002	Hydrant Flushing	TA-22-422	10/22/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
10/22/2002	Hydrant Flushing	TA-22-903	10/22/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
10/22/2002	Hydrant Flushing	TA-39-929	10/22/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
10/22/2002	Hydrant Flushing	TA-40-533	10/22/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/28/2002	Potable Water	TA3-1053 & 261 (Otowi Complex)	10/28/2002	FWO-PM	N/A	~1,350 gallons of potable water released from a water line break during construction activities.
10/31/2002	Potable Water	TA-55	10/31/2002	NMT-7	N/A	~15,000 gallons of water from a line flushing.
11/05/2002	Potable Water	TA-06 along 2 Mile Rd.	11/05/2002	DX-4	N/A	~100,000 gallons of potable water released from a fire suppression system storage tank.
11/06/2002	Potable Water	TA-54 at Pajarito Rd.	11/06/2002	FWO-SWO	N/A	~750 gallons of potable water was released from water line repairs.
11/10/2002	Potable Water	TA-3-SCC	11/10/2002	Utilities	N/A	~64,800 gallons of potable water released from a broken 8" water line.
11/14/2002	Potable Water	TA-15 (Phermex)	11/14/2002	Utilities	N/A	~20,000 gallons of potable water released from a broken hydrant.
11/21/2002	Steam Condensate	TA-3 MH-1034	11/22/2002	Utilities	N/A	~150 gallons from S.C..
11/21/2002	Steam Condensate	TA-3 MH-1029	11/22/2002	Utilities	N/A	~150 gallons from S.C..
11/21/2002	Steam Condensate	TA-3 MH-1015	11/22/2002	Utilities	N/A	~150 gallons from S.C..
12/06/2003	Hydrant Flushing	TA-15-171	12/06/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
12/06/2003	Hydrant Flushing	TA-15-536	12/06/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
12/06/2003	Hydrant Flushing	TA-15-932	12/06/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
12/06/2003	Hydrant Flushing	TA-22-422	12/06/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
12/06/2003	Hydrant Flushing	TA-22-903	12/06/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
12/10/2002	Potable Water	TA-11	12/10/2002	Utilities	N/A	~2,550 gallons of potable water from a 3" water main leak.
12/10/2003	Hydrant Flushing	TA-40-533	12/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
12/10/2003	Hydrant Flushing	TA-46-463	12/10/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/11/2003	Hydrant Flushing	TA-39-929	12/11/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
12/18/2002	Potable Water	TA-18-116	12/18/2002	NIS-6	N/A	~300 gallons of potable water was released and used for landscaping purposes.
12/31/2002	Potable Water	TA-40-11	01/06/2003	DX	N/A	~100 gallons of potable water from a boiler line in building TA-40-11.
01/06/2003	Hydrant Flushing	TA-15-171	01/06/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from a hydrant flushing.
01/06/2003	Hydrant Flushing	TA-15-536	01/06/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from a hydrant flushing.
01/06/2003	Hydrant Flushing	TA-15-932	01/06/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from a hydrant flushing.
01/08/2003	Seasonal Runoff Water	TA-6-126	01/07/2003	DX	N/A	~7,000 gallons of seasonal runoff water pumped from a concrete electrical vault.
01/08/2003	Potable Water	TA-55	01/08/2002	NMT-7	N/A	<1,000 gallons on potable water from a water truck.
01/08/2003	Potable Water	TA-55 Fire Loop Project	01/08/2003	NMT-7	N/A	~10,000 gallons of de-chlorinated potable water from the line flushing.
01/10/2003	Hydrant Flushing	TA-22-422	01/10/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from a hydrant flushing.
01/10/2003	Hydrant Flushing	TA-22-903	01/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from a hydrant flushing.
01/13/2003	Hydrant Flushing	TA-39-020	01/13/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from a hydrant flushing.
01/15/2003	Potable Water	TA-55 Fire Loop Project	01/08/2003	NMT-7	N/A	~10,000 gallons of de-chlorinated potable water from the Fire Loop Project line flushing.
01/16/2003	Hydrant Flushing	TA-46-463	01/16/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from a hydrant flushing.
01/27/2003	Hydrant Flushing	TA-40-533	01/27/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from a hydrant flushing.

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Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/28/2003	Hydrant Flushing	TA-55 Fire Hydrants	01/27/2003	NMT-7	N/A	~10,000 gallons of potable water from 7 hydrants at TA-55.
01/29/2003	Hydrant Flushing	TA-55 Fire Hydrants	01/27/2003	NMT-7	N/A	~10,000 gallons of potable water from 7 hydrants at TA-55.
02/05/2003	Hydrant Flushing	TA-15-171	02/05/2003	Utilities	N/A	~6,000 gallons of potable water from hydrant flushing.
02/05/2003	Hydrant Flushing	TA-15-536	02/05/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
02/05/2003	Hydrant Flushing	TA-15-932	02/05/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
02/07/2003	Hydrant Flushing	TA-22-422	02/07/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
02/07/2003	Hydrant Flushing	TA-22-903	02/07/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
02/11/2003	Hydrant Flushing	TA-40-533	02/11/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
02/12/2003	Hydrant Flushing	TA-39-929	02/12/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
02/15/2003	Potable Water	TA-6 Outside	02/10/2003	DX	N/A	~34,500 gallons of potable water from water main repairs.
02/19/2003	Potable Water	TA-16-332	02/19/2003	DX	N/A	~250 gallons of potable water from a fire protection sprinkler equipment failure.
02/20/2003	Hydrant Flushing	TA-46-463	02/20/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
03/10/2003	Hydrant Flushing	TA-15-171	03/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
03/10/2003	Hydrant Flushing	TA-15-536	03/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
03/10/2003	Hydrant Flushing	TA-15-932	03/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
03/10/2003	Hydrant Flushing	TA-22-422	03/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
03/11/2003	Steam Condensate	TA-3-223	03/11/2003	Utilities	N/A	~7200 gallons of steam condensate was released from a broken line.
03/17/2003	Hydrant Flushing	TA-40-533	03/17/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
03/17/2003	Hydrant Flushing	TA-46-463	03/17/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
03/26/2003	Hydrant Flushing	TA-39-929	03/26/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
03/26/2003	Hydrant Flushing	North of TA-16-202	03/26/2003	DX	N/A	~2,000 gallons of de-chlorinated water from hydrant flushing.
03/26/2003	Hydrant Flushing	East of TA-16-933	03/26/2003	DX	N/A	~2,000 gallons of de-chlorinated water from hydrant flushing.
03/26/2003	Hydrant Flushing	West of TA-16-933	03/26/2003	DX	N/A	~2,000 gallons of de-chlorinated water from hydrant flushing.
04/08/2003	Hydrant Flushing	TA-15-171	04/08/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
04/08/2003	Hydrant Flushing	TA-15-536	04/08/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
04/08/2003	Hydrant Flushing	TA-15-932	04/08/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
04/15/2003	Hydrant Flushing	TA-22-422	04/15/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
04/15/2003	Hydrant Flushing	TA-22-903	04/15/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
04/15/2003	Hydrant Flushing	TA-39-020	04/15/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
04/15/2003	Hydrant Flushing	TA-40-533	04/15/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
04/17/2003	Hydrant Flushing	TA-46-463	04/17/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
04/28/2003	Potable Water	TA-3 MH-1010	04/29/2003	Utilities	N/A	~500 gallons of potable water from a Manhole (MH) water accumulation.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/28/2003	Potable Water	TA-3 MH-1034	04/29/2003	Utilities	N/A	~200 gallons of potable water from a Manhole (MH) water accumulation.
05/01/2003	Potable Water	TA-69 New EOC Construction Area	04/29/2003	PM	N/A	~15,000 gallons of potable water from holding tanks.
05/06/2003	Potable Water	TA-3-216	05/06/2003	Utilities	N/A	~600 gallons of potable water from a malfunctioning sprinkler.
05/09/2003	Potable Water	TA-69 New EOC Construction Area	05/08/2003	PM	N/A	~4000 gallons of potable water from holding tanks
05/12/2003	Potable Water	TA-15-171	05/12/2003	Utilities	N/A	~5400 gallons of potable water from hydrant flushing.
05/12/2003	Potable Water	TA-15-536	05/12/2003	Utilities	N/A	~5000 gallons of potable water from hydrant flushing.
05/12/2003	Potable Water	TA-15-932	05/12/2003	Utilities	N/A	~3000 gallons of potable water from hydrant flushing.
05/12/2003	Potable Water	TA-22-422	05/12/2003	Utilities	N/A	~5000 gallons of potable water from hydrant flushing.
05/12/2003	Potable Water	TA-22-903	05/12/2003	Utilities	N/A	~4000 gallons of potable water from hydrant flushing.
05/14/2003	Manhole Water	TA-3 MH-1010	05/18/2003	Utilities	N/A	~700 gallons of manhole accumulation water.
05/14/2003	Manhole Water	TA-3 MH-1015	05/18/2003	Utilities	N/A	~350 gallons of manhole accumulation water.
05/19/2003	Potable Water	TA-46-463	05/19/2003	Utilities	N/A	~3000 gallons of potable water from hydrant flushing.
05/21/2003	Potable Water	TA-33-20	05/21/2003	Utilities	N/A	~300 gallons of potable water from a 1-inch water line break.
05/21/2003	Potable Water	TA-39-20	05/21/2003	Utilities	N/A	~8000 gallons of potable water from hydrant flushing.
05/21/2003	Potable Water	TA-40-533	05/21/2003	Utilities	N/A	~6000 gallons of potable water from hydrant flushing.
05/22/2003	Potable Water	TA-3 MH-1015	05/22/2003	Utilities	N/A	~150 gallons of manhole accumulation water.

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Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/22/2003	Potable Water	TA-3 MH-1010	05/22/2003	Utilities	N/A	~700 gallons of manhole accumulation water.
06/10/2003	Hydrant Flushing	TA-15-171	06/10/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
06/10/2003	Hydrant Flushing	TA-15-536	06/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
06/10/2003	Hydrant Flushing	TA-15-932	06/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
06/11/2003	Hydrant Flushing	TA-40-533	06/11/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
06/19/2003	Hydrant Flushing	TA-22-422	06/19/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
06/19/2003	Hydrant Flushing	TA22-903	06/19/2003	Utilities	N/A	~9,000 gallons of de-chlorinated water from hydrant flushing.
06/19/2003	Hydrant Flushing	TA-39-020	06/19/2003	Utilities	N/A	~8,000 gallons of de-chlorinated water from hydrant flushing.
06/25/2003	Hydrant Flushing	TA-39-020	06/25/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/05/2003	Potable Water	TA-21-342 Water Tower	07/08/2003	Utilities	N/A	~280,000 gallons of potable water from a water tank overflow discharge.
07/09/2003	Hydrant Flushing	TA-40-533	7/09/2003	Utilities	N/A	~9,000 gallons of de-chlorinated water from hydrant flushing.
07/09/2003	Hydrant Flushing	TA-22-903	7/09/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/09/2003	Hydrant Flushing	TA-22-422	7/09/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/10/2003	Hydrant Flushing	TA-15-171	7/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/10/2003	Hydrant Flushing	TA-15-536	7/10/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/10/2003	Hydrant Flushing	TA-15-932	7/10/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
07/16/2003	Hydrant Flushing	TA-39-929	7/16/2003	Utilities	N/A	~7,000 gallons of de-chlorinated water from hydrant flushing.
07/16/2003	Hydrant Flushing	TA-46-463	7/16/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/30/2003	Manhole Water	TA-3 MH-1000	7/31/2003	Utilities	N/A	~750 gallons of water from a manhole.
07/30/2003	Manhole Water	TA-3 MH-1015	7/31/2003	Utilities	N/A	~1,000 gallons of accumulation water from a manhole.
07/30/2003	Hydrant Flushing	TA-15-171	7/31/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
07/30/2003	Hydrant Flushing	TA-15-536	7/31/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
07/30/2003	Hydrant Flushing	TA-15-932	7/31/2003	Utilities	N/A	~5,000 gallons of de-chlorinated water from hydrant flushing.
08/01/2003	Potable Water	TA-3-2322	8/1/2003	Utilities	N/A	~2,500 gallons of potable water was released when an 8-inch watermain was being repaired
08/04/2003	Potable Water	TA-53	8/4/2003	Utilities	N/A	~1,000,000 gallons of potable water was released from a broken 8-inch watermain. The water flowed to Sandia Canyon and over SWMU 20-001(c)-00. The SWMU did not have any erosion impacts.
08/04/2003	De-Ionized Water	TA-15-R306	8/5/2003	DX-4	N/A	~400 gallons of de-ionized water was land applied at DX. No PRS/SWMU impacted. Never reached a watercourse.
08/04/2003	Hydrant Flushing	TA-22-422	8/5/2003	Utilities	N/A	~4,000 gallons of de-chlorinated water from hydrant flushing.
08/04/2003	Hydrant Flushing	TA-22-903	8/5/2003	Utilities	N/A	~3,000 gallons of de-chlorinated water from hydrant flushing.
08/05/2003	Manhole Water	TA-3 MH-1015	8/6/2003	Utilities	N/A	~500 gallons of manhole accumulation water.
08/05/2003	Manhole Water	TA-3 MH-1000	8/6/2003	Utilities	N/A	~750 gallons of manhole accumulation water.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/05/2003	Manhole Water	TA-3 MH-1014	8/6/2003	Utilities	N/A	~350 gallons of manhole accumulation water.
08/05/2003	Manhole Water	TA-3 MH-1042	8/6/2003	Utilities	N/A	~250 gallons of manhole accumulation water.
08/08/2003	De-chloronated Potable Water	TA-69-33	8/8/2003	PM-2	N/A	~15,000 gallons of de-chlorinated water from water tank testing operations.
08/08/2003	Potable Water	TA-54	8/8/2003	Utilities	N/A	~2,000 gallons of potable water from a break in a watermain.
08/11/2003	Potable Water	TA-14	8/11/2003	Utilities	N/A	~40,000 gallons of potable water was released from a broken 8-inch watermain. The discharge flowed to Canon de Valle. No PRSs/SWMU impacted.
08/12/2003	Potable Water	TA-9-50	8/12/2003	Utilities	N/A	~3,700 gallons of potable water released from a broken water line. The discharge did not flow to a water course or impact any PRSs/SWMUs.
8/12/2003	De-Chlorinated Potable Water	TA-3	8/14/2003	PM-2	N/A	~1,000 gallons of ed-chlorinated potable water was released to two mile canyon into a culvert
08/14/2003	Manhole Water	TA-3 MH-1014	8/15/2003	Utilities	N/A	~250 gallons of manhole accumulation water.
08/14/2003	Manhole Water	TA-3 MH-1042	8/15/2003	Utilities	N/A	~200 gallons of manhole accumulation water.
08/14/2003	Manhole Water	TA-3 MH-1000	8/15/2003	Utilities	N/A	~400 gallons of manhole accumulation water.
08/14/2003	Manhole Water	TA-3 MH-1015	8/15/2003	Utilities	N/A	~950 gallons of manhole accumulation water.
08/18/2003	Manhole Water	TA-46 Manholes	8/18/2003	KSL-HENV	N/A	~ 5,000 gallons of rainwater accumulation in several manholes.
08/18/2003	Storm Water	TA-15 PHERMEX	8/15/2003	DX-4	N/A	~500 gallons of storm water from a secondary containment.
08/18/2003	Hydrant Flushing	TA-40-533	8/19/2003	Utilities	N/A	~9,000 gallons of de-chlorinated water from hydrant flushing.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/21/2003	Potable Water	TA-33-200 Water Tank	8/21/2003	KSL Construction	N/A	~27,000 gallons of potable water from a 2" waterline break.
08/21/2003	De-Chlorinated Hydrant Flushing	TA-16-205, 450	8/25/2003	FWO-FIRE	N/A	~4,000 gallons of de-chlorinated potable water from a hydrant flushing.
08/22/2003	Hydrant Flushing	TA-16-205, 450	8/25/2003	FWO-FIRE	N/A	~2,340 gallons of potable water from a hydrant flushing. Water was prevented from reaching a watercourse.
08/22/2003	Rainwater	TA-36-86	8/22/2003	DX	N/A	~200 gallons of rainwater from a secondary containment structure.
08/22/2003	Rainwater	TA-15-473 and TA-15-474	8/22/2003	DX	N/A	~400 gallons of rainwater from a secondary containment structure.
08/25/2003	Rainwater	TA-15-473 and TA-15-474	8/25/2003	DX	N/A	~900 gallons of rainwater from a secondary containment structure.
08/26/2003	Hydrant Flushing	TA-16-205, 450	8/25/2003	FWO-FIRE	N/A	~1,940 gallons of potable water from a hydrant flushing. Water was prevented from reaching a watercourse.
08/26/2003	Hydrant Flushing	TA-39-929	8/27/2003	Utilities	N/A	~6,000 gallons of de-chlorinated water from hydrant flushing.
09/02/2003	Hydrant Flushing	TA-15-171	10/15/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/02/2003	Hydrant Flushing	TA-15-536	10/15/2003	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/02/2003	Hydrant Flushing	TA-15-932	10/15/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/04/2003	Hydrant Flushing	TA-69-33	8/27/2003	Utilities	N/A	~1,000 gallons of de-chlorinated water from hydrant flushing.
09/04/2003	Rainwater	TA-36-141 and TA-36-142	9/4/2003	DX	N/A	~100 gallons of rainwater from a secondary containment structure.
09/05/2003	Rainwater	TA-15-473 and TA-15-474	9/5/2003	DX	N/A	~400 gallons of rainwater from a secondary containment structure.
09/05/2003	Rainwater	TA-15-461 and TA-15-462	9/5/2003	DX	N/A	~100 gallons of rainwater from a secondary containment structure.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/08/2003	Manhole Water	TA-3 MH-1042	9/8/2003	Utilities	N/A	~150 gallons of manhole accumulation water.
09/08/2003	Manhole Water	TA-3 MH-1014	9/8/2003	Utilities	N/A	~200 gallons of manhole accumulation water.
09/08/2003	Manhole Water	TA-3 MH-1000	9/8/2003	Utilities	N/A	~300 gallons of manhole accumulation water.
09/11/203	Potable Water	TA-40-73	9/11/2003	Utilities	N/A	~800 gallons of potable water from a 4" water main break.
09/11/2003	Hydrant Flushing	TA-39-929	10/15/2003	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/12/2003	Hydrant Flushing	TA-22-422	10/15/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/12/2003	Hydrant Flushing	TA-22-903	10/15/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/12/2003	Hydrant Flushing	TA-40-533	10/15/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/17/2003	De-Chlorinated Potable Water	TA-33-28	9/15/2003	Utilities	N/A	~25,000 gallons of de-chlorinated potable water from the 33-28 water tank at TA-33 decommissioning activities.
09/17/2003	Potable Water Hydrant Flushing	TA16-205, -450	9/17/2003	Utilities	N/A	~2745 gallons of potable water was discharged to the environment from a hydrant flow test. The release did not reach the watercourse.
09/23/2003	Hydrant Flushing	TA-46-463	10/15/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/25/2003	Potable Water Hydrant Flushing	TA-33-39, -113	9/25/2003	FWO-FIRE	N/A	~225 gallons of potable water was discharged to the environment from a broken 2" waterline. No SWMUs/PRSs impacted.
09/26/2003	Potable Water	TA-3-37	9/26/2003	KSL	N/A	~100-200 gallons of potable water released from a sensor tank system failure. No SWMUs/PRSs impacted.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/26/2003	Potable Water	TA-50-38	9/26/2003	FWO-WFM	N/A	~750 gallons of potable water discharged to the environment from a broken air scrubber waterline.
09/27/2003	Potable Water Hydrant Flushing	TA-50-01	9/27/2003	KSL-CDPM	N/A	~3,000 gallons of potable water was discharged to the environment during a waterline draining. The release did not reach a watercourse
09/29/2003	Potable Water	TA-3-1398	9/29/2003	FWO-WFM	N/A	~100 gallons of potable water was discharged to the environment when a filter tank overflowed at the SERF Facility.
10/01/2003	Steam Condensate	TA-3 MH-1014	10/01/2003	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
10/01/2003	Steam Condensate	TA-3 MH-1042	10/01/2003	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
10/01/2003	Steam Condensate	TA-3 MH-1010	10/01/2003	Utilities	N/A	~950 gallons of manhole accumulation water from steam condensate.
10/01/2003	Hydrant Flushing	TA-15-171	10/01/2003	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/01/2003	Hydrant Flushing	TA-15-536	10/01/2003	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/01/2003	Hydrant Flushing	TA-15-932	10/01/2003	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/02/2003	Steam Condensate	TA-3 MH-1010	10/05/2003	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
10/02/2003	Steam Condensate	TA-3 MH-1016	10/05/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
10/03/2003	Steam Condensate	TA-3 MH-1014	10/05/2003	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/03/2003	Steam Condensate	TA-3 MH-1010	10/05/2003	Utilities	N/A	~950 gallons of manhole accumulation water from steam condensate.
10/03/2003	Steam Condensate	TA-3 MH-1042	10/05/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
10/03/2003	Steam Condensate	TA-3 MH-1032	10/05/2003	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
10/03/2003	Hydrant Flushing	TA-16-205 and -450	10/14/2003	FWO-FIRE	N/A	~2365 gallons of potable water discharged to the environment. The discharge did not reach a watercourse.
10/08/2003 – 10/09/2003	De-Chlorinated Potable Water	TA-3-253	10/02/2003	FWO-WEST	N/A	~40,000 gallons on de-chlorinated potable water from a containment unit was slowly released to Two-Mile Canyon.
10/06/2003	Steam Condensate	TA-3 MH-1014	10/08/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate..
10/06/2003	Steam Condensate	TA-3 MH-1015	10/08/2003	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
10/06/2003	Steam Condensate	TA-3 MH-1000	10/08/2003	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
10/06/2003	Storm Water Discharge	TA-3-22	10/06/2003	KSL-UESB	N/A	~450 gallons of storm water from a secondary containment system.
10/07/2003	Steam Condensate	TA-3 MH-1010	10/08/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
10/07/2003	Steam Condensate	TA-3 MH-1042	10/08/2003	Utilities	N/A	~140 gallons of manhole accumulation water from steam condensate.
10/07/2003	Steam Condensate	TA-3 MH-1032	10/08/2003	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
10/08/2003	Steam Condensate	TA-3 MH-1000	10/14/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
10/08/2003	Steam Condensate	TA-3 MH-1042	10/14/2003	Utilities	N/A	~175 gallons of manhole accumulation water from steam condensate.
10/08/2003	Steam Condensate	TA-3 MH-1010	10/14/2003	Utilities	N/A	~1000 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/08/2003	Steam Condensate	TA-3 MH-1010	10/14/2003	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
10/09/2003	Potable Water	TA-33	10/09/2003	Utilities	N/A	~700 gallons of potable water from a broken water line. No PRSs / SWMUs impacted.
10/10/2003	Steam Condensate	TA-3 MH-1042	10/14/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate..
10/08/2003	Hydrant Flushing	TA-22-422	10/08/2003	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/08/2003	Hydrant Flushing	TA-22-903	10/08/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/08/2003	Hydrant Flushing	TA-40-533	10/08/2003	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/14/2003	Steam Condensate	TA-3 MH-1042	10/15/2003	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
10/14/2003	Steam Condensate	TA-3 MH-1017	10/15/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
10/15/2003	Potable Water	TA-64	10/15/2003	Sub-contractor	N/A	~75,000 gallons of potable water was released from an 8" waterline break.
10/15/2003	Potable Water	TA-48-1	10/15/2003	Utilities	N/A	~10,000 gallons of potable water was released from a waterline valve break.
10/16/2003	Storm Water	TA-36-131, 142	10/17/2003	DX-4	N/A	~400 gallons of stormwater from a secondary containment system.
10/20/2003	Steam Condensate	TA-3 MH-1014	10/21/2003	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
10/21/2003	Steam Condensate	TA-3 MH-1042	10/21/2003	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
10/21/2003	Substation Vault	TA-53-70	10/21/2003	KSL-HENV	N/A	~1800 gallons of stormwater from a substation vault was discharged to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/22/2003	Potable Water	TA-22-32	10/23/2003	Utilities	N/A	~1000 gallons of potable water was released from a 1.5" waterline break.
10/22/2003	Hydrant Flushing	TA-39-929	10/22/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/23/2003	Hydrant Flushing	TA-46-463	10/23/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/27/2003	Potable Water	TA-3-38	10/27/2003	Utilities	N/A	~6000 gallons of potable water was released from a 1" waterline break.
10/29/2003	Potable Water	TA-16-260 MH-116	10/29/2003	ESA	N/A	~1000 gallons of potable water released from Manhole (MH) #116
11/3/2003	Steam Condensate	TA-3-1926, MH-1926	11/03/2003	CCN-4, QWEST	N/A	~400 gallons of manhole accumulation water from steam condensate.
11/03/2003	Hydrant Flushing	TA-40-533	11/03/2003	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/03/2003	Hydrant Flushing	TA-22-422	11/03/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/03/2003	Hydrant Flushing	TA-22-903	11/03/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/04/2003	Blow-down Water	TA-9-21	11/04/2003	DX-2	N/A	~400 gallons of water from a utility blow-down system was released to the environment after a back-flow preventor failed.
11/05/2003	Steam Condensate	TA-3 MH-1033	11/06/2003	Utilities	N/A	~675 gallons of manhole accumulation water from steam condensate.
11/05/2003	Steam Condensate	TA-3 MH-1010	11/06/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
11/05/2003	Steam Condensate	TA-3 MH-1000	11/06/2003	Utilities	N/A	~410 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/06/2003	Hydrant Flushing	TA-15-171	11/06/2003	Utilities	N/A	~4,400 gallons of de-chlorinated potable water from hydrant flushing activities.
11/06/2003	Hydrant Flushing	TA-15-536	11/06/2003	Utilities	N/A	~6,400 gallons of de-chlorinated potable water from hydrant flushing activities.
11/06/2003	Hydrant Flushing	TA-15-932	11/06/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/09/2003	Potable Water	TA-46	11/12/2003	Utilities	N/A	~10,000 gallons of potable water was released when an 8” fire protection waterline broke. The release flowed over, but did not appear to impact PRS 46-008(g).
11/13/2003	Steam Condensate	TA-3 MH-1014	11/17/2003	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
11/13/2003	Steam Condensate	TA-3 HRL	11/17/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
11/13/2003	Steam Condensate	TA-3 MH-1000	11/17/2003	Utilities	N/A	~850 gallons of manhole accumulation water from steam condensate.
11/14/2003	Hydrant Flushing	TA-39-929	11/14/2003	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/14/2003	Steam Condensate	TA-3 MH-1033	11/17/2003	Utilities	N/A	~950 gallons of manhole accumulation water from steam condensate.
11/14/2003	Steam Condensate	TA-3 MH-1014	11/17/2003	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
11/19/2003	Steam Condensate	TA-3 MH-1000	11/20/2003	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
11/24/2003	Potable Water	TA-48 RC-45	11/24/2003	TA-48 Facility	N/A	<100 gallons of potable water was released to the environment when a heating coil ruptured inside the building.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/24/2003	Potable Water	TA-54-33	11/24/2003	FWO-SWO	N/A	<100 gallons of potable water was released to the environment when a fire suppression line broke inside the building.
11/24/2003	Potable Water	TA-54-215	11/24/2003	FWO-SWO	N/A	~100-200 gallons of potable water was released to the environment when a fire suppression line broke inside the building.
11/25/2003	Hydrant Flushing	TA-46-463	11/25/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/25/2003	Storm Water Discharge	TA-3-22	11/25/2003	LANSCE	N/A	~2,600 gallons of storm water from a secondary containment system.
11/30/2003	Potable Water	TA-60-175	12/02/2003	Utilities	N/A	~10,000 gallons of potable water was released when a sprinkler line broke. The potable water did not appear to flow over any PRSs or SWMUs.
12/02/2003	Hydrant Flushing	TA-15-171	12/24/2003	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/02/2003	Hydrant Flushing	TA-15-536	12/24/2003	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/02/2003	Hydrant Flushing	TA-15-932	12/24/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/02/2003	Hydrant Flushing	TA-22-422	12/24/2003	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/02/2003	Hydrant Flushing	TA-22-903	12/24/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/03/2003	Potable Water	TA-51-27	12/4/2003	Utilities	N/A	~4,050 gallons of potable water was released when a 2" water line broke. The potable water did not appear to flow over any PRSs or SWMUs.
12/02/2003	Storm Water	TA-15-184	12/4/2003	DX-4	N/A	~50 gallons of storm water was discharged from a secondary containment unit.
12/05/2003	Steam Condensate	TA-3 MH-1014	12/05/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
12/08/2003	Steam Condensate	TA-3 MH-1028	12/08/2003	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
12/08/2003	Steam Condensate	TA-3 MH-1000	12/08/2003	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
12/08/2003	Steam Condensate	TA-3 MH-1010	12/08/2003	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
12/09/2003	Hydrant Flushing	TA-39-929	12/24/2003	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/09/2003	Potable Water	TA-3-2398	12/09/2003	PM-DO	N/A	~4,400 gallons of potable water was released when a waterline broke.
12/11/2003	Steam Condensate	TA-3 MH-1014	12/11/2003	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
12/11/2003	Steam Condensate	TA-3 MH-1012	12/11/2003	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
12/11/2003	Steam Condensate	TA-3 MH-1010	12/11/2003	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
12/11/2003	Steam Condensate	TA-3 MH-1000	12/11/2003	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
12/15/2003	Hydrant Flushing	TA-40-533	12/24/2003	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/15/2003	Hydrant Flushing	TA-46-463	12/24/2003	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/16/2003	Steam Condensate	TA-3 MH-1042	12/16/2003	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
12/16/2003	Steam Condensate	TA-3 MH-1010	12/16/2003	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
12/16/2003	Steam Condensate	TA-3 MH-1014	12/16/2003	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
12/16/2003	Steam Condensate	TA-3 MH-1000	12/16/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
12/16/2003	Steam Condensate	TA-3 MH-1033	12/16/2003	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
12/22/2003	Potable Water	TA-64	12/22/2003	Utilities	N/A	~900 gallons of potable water was released while altering a 12” water main system with a 1” stub-off.
12/24/2003 – 12/29/2003	Water	TA-3-SYLLAC D&D Project Site	01/05/2003	PM-DO	N/A	~300,000 gallons of water was released to the TA-3-SYLLAC D&D project site when a hydrant back-flow preventer froze and ruptured. The water flowed to the basement of the SYLLAC structure and was then filtered and pumped to a storm drain.
01/05/2004	Steam Condensate	TA-3 MH-1033	01/05/2003	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
01/05/2004	Steam Condensate	TA-3 MH-1010	01/05/2003	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
01/05/2004	Steam Condensate	TA-3 MH-1014	01/05/2003	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
01/05/2004	Steam Condensate	TA-3 MH-1000	01/05/2003	Utilities	N/A	~900 gallons of manhole accumulation water from steam condensate.

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Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/06/2004	Steam Condensate	TA-3 MH-1010	01/05/2003	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
01/06/2004	Steam Condensate	TA-3 MH-1042	01/05/2003	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
01/07/2004	Hydrant Flushing	TA-15-171	02/13/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/07/2004	Hydrant Flushing	TA-15-932	02/13/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/07/2004	Hydrant Flushing	TA-15-536	02/13/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/09/2004	Hydrant Flushing	TA-22-422	02/13/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/09/2004	Hydrant Flushing	TA-22-903	02/13/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/09/2004	Steam Condensate	TA-3-223	01/12/2003	Utilities	N/A	~6,000 gallons of steam condensate water was released from a leaking steam condensate line.
01/14/2004	Potable Water	TA-69 Water Tank 6	01/14/2004	Utilities	N/A	~12,000 gallons of potable water was released from Water Tank 6 at TA-69 when a filling valve stuck open.
01/15/2004	Hydrant Flushing	TA-39-929	02/13/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/15/2004	Hydrant Flushing	TA-40-533	02/13/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/16/2004	Steam Condensate	TA-3 MH-1009	01/21/2003	Utilities	N/A	~950 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/16/2004	Steam Condensate	TA-3 MH-1014	01/21/2003	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
01/22/2004	Potable Water	TA-06	01/22/2004	Utilities	N/A	~4,500 gallons of potable water was released when a 6-inch waterline ruptured.
01/28/2004	Hydrant Flushing	TA-46-463	02/13/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/03/2004	Potable Water	TA-18-147	02/03/2004	Utilities	N/A	~6,750 gallons of potable water was released from a leaking 2-in service line.
02/09/2004	Hydrant Flushing	TA-15-171	02/25/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/09/2004	Hydrant Flushing	TA-15-536	02/25/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/09/2004	Hydrant Flushing	TA-15-932	02/25/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/10/2004	Potable Water	TA-17-411, Fire Hydrant #590	02/11/2004	Utilities	N/A	~400 gallons of potable water released from a split 6-inch water line.
02/18/2004	Potable Water	TA-49-153	02/13/2004	Utilities	N/A	~5,000 gallons of potable water released from a split 4-inch water line.
02/18/2004	Hydrant Flushing	TA-22-422	02/25/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/18/2004	Hydrant Flushing	TA-22-903	02/25/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/18/2004	Hydrant Flushing	TA-39-929	02/25/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
02/18/2004	Hydrant Flushing	TA-40-533	02/25/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/19/2004	Potable Water	TA-48-1	02/13/2004	Utilities	N/A	~5,000 gallons of potable water released from a broken sprinkler system.
02/23/2004	Hydrant Flushing	TA-46-463	02/25/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/26/2004	Steam Condensate	TA-3 MH-1015	02/27/2004	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
02/26/2004	Steam Condensate	TA-3 MH-1000	02/27/2004	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
02/26/2004	Steam Condensate	TA-3 MH-1014	02/27/2004	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
02/27/2004	Steam Condensate	TA-09-???	02/27/2004	DX	N/A	~500 gallons of steam condensate water was released to the environment.
03/05/2004	Storm Water	TA-36-86	03/10/2004	DX	N/A	~300 gallons of storm water was discharged to the environment from a secondary containment unit.
03/09/2004	Hydrant Flushing	TA-15-171	03/09/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/09/2004	Hydrant Flushing	TA-15-536	03/09/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/09/2004	Hydrant Flushing	TA-15-932	03/09/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/10/2004	Hydrant Flushing	TA-22-422	03/10/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
03/10/2004	Hydrant Flushing	TA-22-903	03/10/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/13/2004	Potable Water	TA-63	3/15/2004	Utilities	N/A	~7,200 gallons of potable water was released when a valve broke on an 8-inch water line.
03/16/2004	Potable Water	TA-52-44	3/17/2004	Utilities	N/A	~300 gallons of potable water was released from a broken 1.25-Inch waterline.
03/16/2004	Hydrant Flushing	TA-39-929	03/16/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/16/2004	Hydrant Flushing	TA-40-533	03/16/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
03/15/2004	Storm Water	TA-36-86	3/17/2004	DX	N/A	~250 gallons of storm water was discharged to the environment from a secondary containment unit.
03/17/2004	Storm Water	TA-15-473 and TA-15-474	3/17/2004	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
03/24/2004	Hydrant Flushing	TA-46-463	03/24/2004	Utilities	N/A	~7,600 gallons of de-chlorinated potable water from hydrant flushing activities.
04/05/2004	Storm Water	TA-36-141 and TA-36-142	4/19/2004	DX	N/A	~400 gallons of storm water was discharged to the environment from a secondary containment unit.
04/06/2004	Storm Water	TA-36-141 and TA-36-142	4/19/2004	DX	N/A	~400 gallons of storm water was discharged to the environment from a secondary containment unit.
04/07/2004	Storm Water	TA-15-473 and TA-15-474	4/19/2004	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/08/2004	Storm Water	TA-36-141 and TA-36-142	4/19/2004	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
04/08/2004	Hydrant Flushing	TA-15-171	04/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/08/2004	Hydrant Flushing	TA-15-536	04/08/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/08/2004	Hydrant Flushing	TA-15-932	04/08/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/15/2004	Storm Water	TA-15-461 and TA-15-462	4/19/2004	DX	N/A	~900 gallons of storm water was discharged to the environment from a secondary containment unit.
04/15/2004	Hydrant Flushing	TA-22-422	04/15/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/15/2004	Hydrant Flushing	TA-22-903	04/15/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/15/2004	Hydrant Flushing	TA-40-533	04/15/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/16/2004	Storm Water	TA-15-473 and TA-15-474	4/19/2004	DX	N/A	~800 gallons of storm water was discharged to the environment from a secondary containment unit.
04/17/2004	Hydrant Flushing	TA-39-929	04/17/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
04/22/2004	Hydrant Flushing	TA-63 New FWO Administration Building Construction Site	04/22/2004	PM-DS	N/A	~900 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/26/2004	Potable Water	TA-53 LANSCE	03/26/2004	LANSCE	N/A	~30,000 gallons of water will be used as dust suppression and landscape watering.
04/27/2004	Hydrant Flushing	TA-46-463	04/27/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/05/2004	Hydrant Flushing	TA-15-171	05/05/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/05/2004	Hydrant Flushing	TA-15-536	05/05/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/05/2004	Hydrant Flushing	TA-15-932	05/05/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/08/2004	Potable Water	TA-3 NSSB Construction Site	05/08/2004	PM	N/A	~5,000 gallons of potable water was released to upper Sandia Canyon when a 5-inch waterline broke.
05/12/2004	Hydrant Flushing	TA-22-422	05/12/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/12/2004	Hydrant Flushing	TA-22-903	05/12/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
07/15/2004	Storm Water	TA-15-473 and -474	07/15/2004	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
05/17/2004	Hydrant Flushing	TA-39-929	05/17/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
05/18/2004	Hydrant Flushing	TA-46-463	05/18/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/19/2004	Potable Water	TA-54-2	05/19/2004	FWO-SWO	N/A	~500 gallons of potable water was release to the environment when a backflow preventer failed. The potable water did not reach a watercourse.
05/20/2004	Potable Water	TA-3 NSSB Construction Site	05/21/2004	Utilities	N/A	~3,300 gallons of potable water was released to upper Sandia Canyon when a 5-inch waterline broke.
05/23/2004	Potable Water	TA-09	05/24/2004	Utilities	N/A	~24,000 gallons of potable water was released to Canon de Valle when a 6-inch water line ruptured.
05/24/2004	Hydrant Flushing	TA-40-533	05/24/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/14/2004	Hydrant Flushing	TA-22-422	06/14/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/14/2004	Hydrant Flushing	TA-40-533	06/14/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/14/2004	Hydrant Flushing	TA-22-422	06/14/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/15/2004	Hydrant Flushing	TA-15-171	06/15/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/15/2004	Hydrant Flushing	TA-15-536	06/15/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/15/2004	Hydrant Flushing	TA-15-932	06/15/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
06/16/2004	Hydrant Flushing	TA-39-929	06/16/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
06/25/2004	Hydrant Flushing	TA-46-463	06/25/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
07/03/2004	Hydrant Flushing	TA-53-31	05/06/2004	LA County Fire Dept.	N/A	~250 gallons of potable water from hydrant flushing activities. Did not reach a watercourse.
07/07/2004	Hydrant Flushing	TA-16-202	05/07/2004	LA County Fire Dept.	N/A	~900 gallons of potable water from hydrant flushing activities. Did not reach a watercourse.
07/08/2004	Hydrant Flushing	TA-15-171	07/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
07/08/2004	Hydrant Flushing	TA-15-536	07/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
07/09/2004	Hydrant Flushing	TA-15-932	07/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
07/27/2004	Storm Water	TA-53-365	07/27/2004	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
07/28/2004	Storm Water	TA-15-473 and -474	07/28/2004	DX	N/A	~950 gallons of storm water was discharged to the environment from a secondary containment unit.
07/29/2004	Storm Water	TA-15-461 and -462	07/29/2004	DX	N/A	~900 gallons of storm water was discharged to the environment from a secondary containment unit.
08/05/2004	Hydrant Flushing	TA-15-932	08/05/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/05/2004	Hydrant Flushing	TA-22-422	08/05/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/05/2004	Hydrant Flushing	TA-22-903	08/05/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/05/2004	Hydrant Flushing	TA-39-929	08/05/2004	Utilities	N/A	~10,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/05/2004	Hydrant Flushing	TA-40-533	08/05/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/11/2004	Hydrant Flushing	TA-15-171	08/11/2004	Utilities	N/A	~8,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/11/2004	Hydrant Flushing	TA-15-536	08/11/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/12/2004	Storm Water	TA-15-473 and -474	08/12/2004	DX	N/A	~850 gallons of storm water was discharged to the environment from a secondary containment unit.
08/12/2004	Hydrant Flushing	TA-16-205, 450	08/19/2004	FWO-FIRE	N/A	~2,700 gallons of potable water from hydrant flushing activities.
08/16/2004	Storm Water	TA-36-141 and -142	08/27/2004	DX	N/A	~150 gallons of storm water was discharged to the environment from a secondary containment unit.
08/18/2004	Storm Water	TA-3 Manhole 801	08/18/2004	KSL	N/A	~400 gallons of storm water was discharged to the environment from a manhole.
08/18/2004	Storm Water	TA-3 Manhole 809	08/18/2004	KSL	N/A	~450 gallons of storm water was discharged to the environment from a manhole.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/18/2004	Storm Water	TA-15-473 and -474	08/26/2004	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
08/19/2004	Storm Water	TA-53-365	08/19/2004	LANSCE	N/A	~2600 gallons of storm water was discharged to the environment from a secondary containment unit.
08/20/2004	Steam Condensate	TA-3 Manhole 1042	08/23/2004	Utilities	N/A	~650 gallons of steam condensate water was released to the environment.
08/20/2004	Steam Condensate	TA-3 Manhole 1017	08/23/2004	Utilities	N/A	~1,850 gallons of steam condensate water was released to the environment.
08/20/2004	Steam Condensate	TA-3 Manhole 1034	08/23/2004	Utilities	N/A	~700 gallons of steam condensate water was released to the environment.
08/20/2004	Storm Water	TA-36-141 and -142	08/27/2004	DX	N/A	~375 gallons of storm water was discharged to the environment from a secondary containment unit.
08/20/2004	Storm Water	TA-15-473 and -474	08/26/2004	DX	N/A	~350 gallons of storm water was discharged to the environment from a secondary containment unit.
08/22/2004	Storm Water	TA-15-473 and -474	08/26/2004	DX	N/A	~400 gallons of storm water was discharged to the environment from a secondary containment unit.
08/22/2004	Storm Water	TA-36-141 and -142	08/27/2004	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
08/23/2004	Steam Condensate	TA-3 Manhole 1038	08/23/2004	Utilities	N/A	~700 gallons of steam condensate water was released to the environment.
08/23/2004	Steam Condensate	TA-3 Manhole 1034	08/24/2004	Utilities	N/A	~1,500 gallons of steam condensate water was released to the environment.
08/23/2004	Steam Condensate	TA-3 Manhole 1017	08/24/2004	Utilities	N/A	~1,800 gallons of steam condensate water was released to the environment.
08/23/2004	Steam Condensate	TA-3 Manhole 1042	08/24/2004	Utilities	N/A	~500 gallons of steam condensate water was released to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/23/2004	Storm Water	TA-15-473 and -474	08/26/2004	DX	N/A	~250 gallons of storm water was discharged to the environment from a secondary containment unit.
08/24/2004	Storm Water	TA-3-410 Manhole 803	08/24/2004	KSL	N/A	~269 gallons of storm water was discharged to the environment from a manhole.
08/24/2004	Storm Water	TA-15-473 and -474	08/26/2004	DX	N/A	~250 gallons of storm water was discharged to the environment from a secondary containment unit.
08/25/2004	Steam Condensate	TA-3 Manhole 1011	08/27/2004	Utilities	N/A	~1,000 gallons of steam condensate water was released to the environment.
08/25/2004	Hydrant Flushing	TA-46-463	08/25/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
08/25/2004	Steam Condensate	TA-3 Manhole 1042	08/27/2004	Utilities	N/A	~500 gallons of steam condensate water was released to the environment.
08/25/2004	Steam Condensate	TA-3 Manhole 1034	08/27/2004	Utilities	N/A	~2,000 gallons of steam condensate water was released to the environment.
08/25/2004	Steam Condensate	TA-3 Manhole 1017	08/27/2004	Utilities	N/A	~2,000 gallons of steam condensate water was released to the environment.
08/26/2004	Potable Water	State Road 501 (West Jemez Road) over Water Canyon	08/26/2004	Utilities	N/A	~13,500 gallons of potable water was released to Water Canyon when a 6-inch waterline broke.
08/27/2004	Storm Water	TA-3-36 Manhole 1371	08/27/2004	KSL	N/A	~1,200 gallons of storm water was discharged to the environment from a manhole.
08/31/2004	Steam Condensate	TA-3 Manhole 1020	08/31/2004	Utilities	N/A	~300 gallons of steam condensate water was released to the environment.
08/31/2004	Steam Condensate	TA-3 Manhole 1034	08/31/2004	Utilities	N/A	~850 gallons of steam condensate water was released to the environment.
08/31/2004	Steam Condensate	TA-3 Manhole 1017	08/31/2004	Utilities	N/A	~900 gallons of steam condensate water was released to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/07/2004	Storm Water	TA-53-365	09/07/2004	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
09/07/2004	Steam Condensate	TA-3 Manhole 1017	09/07/2004	Utilities	N/A	~2,000 gallons of steam condensate water was released to the environment.
09/07/2004	Storm Water	TA-15-473 and -474	09/07/2004	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
09/08/2004	Steam Condensate	TA-3 Manhole 1034	09/09/2004	Utilities	N/A	~1,000 gallons of steam condensate water was released to the environment.
09/08/2004	Steam Condensate	TA-3 Manhole 1020	09/09/2004	Utilities	N/A	~500 gallons of steam condensate water was released to the environment.
09/08/2004	Steam Condensate	TA-3 Manhole 1017	09/09/2004	Utilities	N/A	~800 gallons of steam condensate water was released to the environment.
09/08/2004	Steam Condensate	TA-3 Manhole 1042	09/09/2004	Utilities	N/A	~800 gallons of steam condensate water was released to the environment.
09/09/2004	Storm Water	TA-53-03 Manhole 210	09/09/2004	KSL	N/A	~500 gallons of storm water was discharged to the environment from a manhole.
09/09/2004	Storm Water	TA-53-03 Manhole 211	09/09/2004	KSL	N/A	~250 gallons of storm water was discharged to the environment from a manhole.
09/10/2004	Steam Condensate	TA-3 Manhole 1034	09/13/2004	Utilities	N/A	~500 gallons of steam condensate water was released to the environment.
09/10/2004	Steam Condensate	TA-3 Manhole 1003	09/13/2004	Utilities	N/A	~800 gallons of steam condensate water was released to the environment.
09/10/2004	Steam Condensate	TA-3 Manhole 1042	09/13/2004	Utilities	N/A	~600 gallons of steam condensate water was released to the environment.

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Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/10/2004	Steam Condensate	TA-3 Manhole 1034	09/13/2004	Utilities	N/A	~1,500 gallons of steam condensate water was released to the environment.
09/10/2004	Steam Condensate	TA-3 Manhole 1020	09/13/2004	Utilities	N/A	~500 gallons of steam condensate water was released to the environment.
09/10/2004	Steam Condensate	TA-3 Manhole 1017	09/13/2004	Utilities	N/A	~1,500 gallons of steam condensate water was released to the environment.
09/11/2004	Steam Condensate	TA-3 HRL	09/14/2004	Utilities	N/A	~400 gallons of steam condensate water was released to the environment.
09/11/2004	Steam Condensate	TA-3 Manhole 1011	09/14/2004	Utilities	N/A	~200 gallons of steam condensate water was released to the environment.
09/20/2004	Storm Water	TA-15-473 and -474	09/24/2004	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
09/21/2004	Storm Water	TA-36-141 and -142	09/24/2004	DX	N/A	~350 gallons of storm water was discharged to the environment from a secondary containment unit.
09/21/2004	Hydrant Flushing	TA-46-463	09/21/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/22/2004	Steam Condensate	TA-3 Manhole 1003	09/24/2004	Utilities	N/A	~800 gallons of steam condensate water was released to the environment.
09/22/2004	Steam Condensate	TA-3 Manhole 1020	09/24/2004	Utilities	N/A	~400 gallons of steam condensate water was released to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/23/2004	Potable Water	TA-14-57 between PRV 6-inch main	09/24/2004	Utilities	N/A	~600 gallons of potable water was released to the environment when there was a material failure on a waterline.
09/27/2004	Hydrant Flushing	TA-15-171	09/27/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/27/2004	Hydrant Flushing	TA-15-536	09/27/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/27/2004	Hydrant Flushing	TA-15-932	09/27/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/27/2004	Hydrant Flushing	TA-22-422	09/27/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/27/2004	Hydrant Flushing	TA-22-903	09/27/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/28/2004	Hydrant Flushing	TA-39-929	09/28/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/28/2004	Hydrant Flushing	TA-40-533	09/28/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
09/30/2004	Storm Water	TA-3 #31 and SCC Manhole 1258	09/30/2004	KSL	N/A	~300 gallons of storm water was discharged to the environment from a manhole.
09/30/2004	Steam Condensate	TA-3 Manhole HRL	09/30/2004	Utilities	N/A	~400 gallons of steam condensate water was released to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/30/2004	Steam Condensate	TA-3 Manhole 1001	09/30/2004	Utilities	N/A	~150 gallons of steam condensate water was released to the environment.
09/30/2004	Steam Condensate	TA-3 Manhole 1018	09/30/2004	Utilities	N/A	~100 gallons of steam condensate water was released to the environment.
09/30/2004	Steam Condensate	TA-3 Manhole 1020	09/30/2004	Utilities	N/A	~300 gallons of steam condensate water was released to the environment.
09/30/2004	Steam Condensate	TA-3 Manhole 1034	09/30/2004	Utilities	N/A	~800 gallons of steam condensate water was released to the environment.
10/01/2004	Storm Water	TA-36-141 and -142	10/01/2004	DX	N/A	~125 gallons of storm water was discharged to the environment from a secondary containment unit.
10/04/2004	Storm Water	TA-15-473 and -474	10/04/2004	DX	N/A	~250 gallons of storm water was discharged to the environment from a secondary containment unit.
10/06/2004	Storm Water	TA-15-473 and -474	10/06/2004	DX	N/A	~300 gallons of storm water was discharged to the environment from a secondary containment unit.
10/07/2004	Storm Water	TA-36-141 and -142	10/07/2004	DX	N/A	~750 gallons of storm water was discharged to the environment from a secondary containment unit.
10/07/2004	Storm Water	TA-53-365	10/07/2004	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
10/13/2004	Steam Condensate	TA-3 MH-1034	10/13/2004	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
10/13/2004	Steam Condensate	TA-3 MH-1018	10/13/2004	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
10/13/2004	Steam Condensate	TA-3 MH-HRL	10/13/2004	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/14/2004	Steam Condensate	TA-3 MH-1034	10/14/2004	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
10/14/2004	Steam Condensate	TA-3 MH-1034	10/14/2004	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
10/14/2004	Hydrant Flushing	TA-39-929	10/14/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/14/2004	Hydrant Flushing	TA-40-533	10/14/2004	Utilities	N/A	~9,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/18/2004	Steam Condensate	TA-3 MH-1018	10/18/2004	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
10/18/2004	Steam Condensate	TA-3 MH-HRL	10/18/2004	Utilities	N/A	~325 gallons of manhole accumulation water from steam condensate.
10/18/2004	Steam Condensate	TA-3 MH-1034	10/18/2004	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
10/18/2004	Hydrant Flushing	TA-15-171	10/18/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/18/2004	Hydrant Flushing	TA-15-536	10/18/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/22/2004	Hydrant Flushing	TA-22-422	10/22/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/22/2004	Hydrant Flushing	TA-22-903	10/22/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/18/2004	Hydrant Flushing	TA-15-171	10/18/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/25/2004	Steam Condensate	TA-3 MH-1018	10/26/2004	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/25/2004	Steam Condensate	TA-3 MH-HRL	10/26/2004	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
10/25/2004	Steam Condensate	TA-3 MH-1034	10/26/2004	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
10/26/2004	Hydrant Flushing	TA-46-463	10/26/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
10/27/2004	Steam Condensate	TA-3 MH-HRL	10/27/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
10/27/2004	Steam Condensate	TA-3 MH-1035	10/27/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
10/27/2004	Steam Condensate	TA-3 MH-1018	10/27/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
10/27/2004	Steam Condensate	TA-3 MH-1034	10/27/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
10/29/2004	Storm Water	TA-53-365	10/29/2004	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
10/29/2004	Storm Water	TA-15-473 and -474	10/29/2004	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
11/02/2004	Steam Condensate	TA-3 MH-1044	11/02/2004	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
11/02/2004	Steam Condensate	TA-3 MH-1034	11/02/2004	Utilities	N/A	~1,100 gallons of manhole accumulation water from steam condensate.
11/02/2004	Steam Condensate	TA-3 MH-1018	11/02/2004	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/05/2004	Steam Condensate	TA-16-430	11/05/2004	DX	N/A	~1,000 gallons of steam condensate water accumulated from a leaking steam condensate line.
11/08/2004	Steam Condensate	TA-3 MH-HRL	11/08/2004	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
11/08/2004	Steam Condensate	TA-3 MH-1018	11/08/2004	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
11/08/2004	Steam Condensate	TA-3 MH-1034	11/08/2004	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
11/08/2004	Hydrant Flushing	TA-15-171	11/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/08/2004	Hydrant Flushing	TA-15-536	11/08/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/08/2004	Hydrant Flushing	TA-15-932	11/08/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/08/2004	Hydrant Flushing	TA-22-422	11/08/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/08/2004	Hydrant Flushing	TA-22-903	11/08/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/15/2004	Steam Condensate	TA-3 MH-1034	11/15/2004	Utilities	N/A	~350 gallons of manhole accumulation water from steam condensate.
11/15/2004	Steam Condensate	TA-3 MH-1044	11/15/2004	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
11/15/2004	Steam Condensate	TA-3 MH-1018	11/15/2004	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/15/2004	Steam Condensate	TA-3 MH-1034	11/15/2004	Utilities	N/A	~350 gallons of manhole accumulation water from steam condensate.
11/15/2004	Steam Condensate	TA-3 MH-HRL	11/15/2004	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-1034	11/16/2004	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-HRL	11/16/2004	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-1034	11/16/2004	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-1018	11/16/2004	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-1044	11/16/2004	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
11/16/2004	Steam Condensate	TA-3 MH-1034	11/16/2004	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
11/19/2004	Steam Condensate	TA-3 MH-1034	11/19/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
11/19/2004	Steam Condensate	TA-3 MH-1018	11/19/2004	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
11/19/2004	Steam Condensate	TA-3 MH-1034	11/19/2004	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
11/22/2004	Hydrant Flushing	TA-40-533	11/22/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/24/2004	Storm Water	TA-36-141 and -142	11/24/2004	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/24/2004	Storm Water	TA-15-473 and -474	11/24/2004	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
11/24/2004	Hydrant Flushing	TA-39-929	11/24/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/29/2004	Hydrant Flushing	TA-46-463	11/29/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
11/30/2004	Potable Water	TA-15-534	11/30/2004	Utilities	N/A	~128,500 gallons of potable water was released to the environment when the back-flow preventer on a hydrant ruptured.
12/01/2004	Steam Condensate	TA-3 MH-1018	12/01/2004	Utilities	N/A	~1,100 gallons of manhole accumulation water from steam condensate.
12/01/2004	Steam Condensate	TA-3 MH-HRL	12/01/2004	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
12/06/2004	Hydrant Flushing	TA-22-422	12/06/2004	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/06/2004	Hydrant Flushing	TA-22-903	12/06/2004	Utilities	N/A	~2,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/07/2004	Hydrant Flushing	TA-39-929	12/07/2004	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/08/2004	Hydrant Flushing	TA-15-171	12/08/2004	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/08/2004	Hydrant Flushing	TA-15-536	12/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/08/2004	Hydrant Flushing	TA-15-932	12/08/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/13/2004	Hydrant Flushing	TA-40-533	12/13/2004	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/13/2004	Hydrant Flushing	TA-46-463	12/13/2004	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
12/14/2004 – 12/17/2004	Steam Condensate	TA-3 MH-HRL	12/16/2004	Utilities	N/A	~300 gallons of manhole steam condensate water from a leaking line was released to the environment over three days.
12/21/2004	Potable Water	TA-54	12/21/2004	NWQ-NA	N/A	~5,500 gallons of potable water was discharged as dust suppression.
12/21/2004	Potable Water	TA-16-410 6-inch water main.	12/21/2004	Utilities	N/A	~1,750 gallons of potable water was released to the environment when a 6-inch water main ruptured.
01/03/2005	Potable Water	TA-9-48 3-inch water line.	01/03/2005	Utilities	N/A	~900 gallons of potable water was released to the environment when a 6-inch water line ruptured.
01/03/2005	Potable Water	TA-33-23	01/05/2005	ISR-DO	N/A	~200 gallons of potable water was released to the environment when a waterline inside a building ruptured.
01/03/2005	Storm Water	TA-15-473 and -474	01/03/2005	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
01/03/2005	Storm Water	TA-15-461 and -462	01/03/2005	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
01/03/2005	Steam Condensate	TA-3 MH-1018	01/03/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/03/2005	Steam Condensate	TA-3 MH-1010	01/03/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
01/03/2005	Steam Condensate	TA-3 MH-HRL	01/03/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
01/03/2005	Steam Condensate	TA-3 MH-1000	01/03/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
01/04/2005	Hydrant Flushing	TA-15-171	01/04/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/04/2005	Hydrant Flushing	TA-15-536	01/04/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/04/2005	Hydrant Flushing	TA-15-932	01/04/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/04/2005	Hydrant Flushing	TA-22-422	01/04/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/04/2005	Hydrant Flushing	TA-22-903	01/04/2005	Utilities	N/A	~3,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/22/2005	Potable Water	TA-3 NSSB	01/03/2005	PM-DS	N/A	~4,600 gallons of de-chlorinated potable water will be released to the environment during a water main tie in.
01/06/2005	Storm Water	TA-36-141 and -142	01/06/2005	DX	N/A	~300 gallons of storm water was discharged to the environment from a secondary containment unit.
01/07/2005	Storm Water	TA-36-141 and -142	01/07/2005	DX	N/A	~150 gallons of storm water was discharged to the environment from a secondary containment unit.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/11/2005	Potable Water	TA-46-31	01/11/2004	Utilities	N/A	~2,500 gallons of potable water was discharged from an excavated pit during repair work on a waterline.
01/14/2005	Steam Condensate	TA-3 MH-1019	01/14/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
01/14/2005	Steam Condensate	TA-3 MH-1010	01/14/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
01/14/2005	Steam Condensate	TA-3 MH-1022	01/14/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
01/14/2005	Steam Condensate	TA-3 MH-1000	01/14/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
01/14/2005	Hydrant Flushing	TA-39-929	01/14/2005	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/14/2005	Hydrant Flushing	TA-40-533	01/14/2005	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/18/2005	Steam Condensate	TA-3 MH-1018	01/18/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
01/19/2005	Hydrant Flushing	TA-46-463	01/19/2005	Utilities	N/A	~6,000 gallons of de-chlorinated potable water from hydrant flushing activities.
01/20/2005	Steam Condensate	TA-3 MH-1010	01/20/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
01/20/2005	Steam Condensate	TA-3 MH-1018	01/20/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
01/20/2005	Steam Condensate	TA-3 MH-1000	01/20/2005	Utilities	N/A	~1,800 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
01/24/2005	Steam Condensate	TA-3 MH-1018	01/24/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
01/24/2005	Steam Condensate	TA-3 MH-1010	01/24/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
01/24/2005	Steam Condensate	TA-3 MH-1000	01/24/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
01/25/2005	Storm Water	TA-3-22	01/25/2005	Utilities	N/A	~25-30 gallons of storm water was discharged to the environment from a Manhole.
01/25/2005	Storm Water	TA-3-22	01/25/2005	Utilities	N/A	~100 gallons of storm water was discharged to the environment from a Manhole.
01/28/2005	Storm Water	TA-36-141 and -142	01/28/2005	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
01/31/2005	Potable Water	TA-3 NSSB Project Site	01/24/2005	PM	N/A	~37,000 gallons of de-chlorinated potable water was discharged to a storm drain during a roof leak test.
02/02/2005	Steam Condensate	TA-3 MH-1019	02/02/2005	Utilities	N/A	~700 gallons of manhole accumulation water from steam condensate.
02/02/2005	Steam Condensate	TA-3 MH-1018	02/02/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
02/02/2005	Steam Condensate	TA-3 MH-1022	02/02/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
02/02/2005	Steam Condensate	TA-3 MH-1000	02/02/2005	Utilities	N/A	~2,000 gallons of manhole accumulation water from steam condensate.
02/02/2005	Hydrant Flushing	TA-39-929	02/02/2005	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
02/04/2005	Storm Water	TA-36-141 and -142	02/04/2005	DX	N/A	~150 gallons of storm water was discharged to the environment from a secondary containment unit.
02/07/2005	Potable Water	TA-69	02/07/2005	Utilities	N/A	~10,000 gallons of potable water was released to upper Sandia Canyon and upper Two Mile Canyon when a 6" water main ruptured.
02/07/2005	Steam Condensate	TA-3 MH-1018	02/07/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
02/07/2005	Steam Condensate	TA-3 MH-HRL	02/07/2005	Utilities	N/A	~2,000 gallons of manhole accumulation water from steam condensate.
02/07/2005	Steam Condensate	TA-3 MH-1000	02/07/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
02/08/2005	Steam Condensate	TA-3 MH-1022	02/08/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
02/08/2005	Potable Water	TA-14	02/08/2005	Utilities	N/A	~5,000 gallons of potable water was released to the environment and flowed to Canon de Valle when a 6" water main ruptured.
02/08/2005	Storm Water	TA-53-365	01/28/2005	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
02/10/2005	Hydrant Flushing	TA-22-422	02/10/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/10/2005	Hydrant Flushing	TA-22-903	02/10/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
02/10/2005	Hydrant Flushing	TA-40-533	02/10/2005	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/14/2005	Storm Water	TA-36-141 and -142	02/14/2005	DX	N/A	~450 gallons of storm water was discharged to the environment from a secondary containment unit.
02/14/2005	Potable Water	TA-3 NSSB	02/14/2005	PM	N/A	~4,700 gallons of de-chlorinated potable water was released to the environment and flowed to upper Sandia Canyon during a water line tie-in.
02/14/2005	Potable Water	TA 63-111	02/14/2005	FM-DO	N/A	~250 gallons of potable water was discharged to a parking lot during a fire protection system test. No discharge to a watercourse.
02/14/2005	Steam Condensate	TA-3 MH-1019	02/14/2005	Utilities	N/A	~900 gallons of manhole accumulation water from steam condensate.
02/14/2005	Steam Condensate	TA-3 MH-1018	02/14/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
02/14/2005	Steam Condensate	TA-3 MH-1000	02/14/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
02/17/2005	Steam Condensate	TA-3 MH-1015	02/17/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
02/17/2005	Steam Condensate	TA-3 MH-1013	02/17/2005	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
02/17/2005	Steam Condensate	TA-3 MH-1014	02/17/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
02/17/2005	Steam Condensate	TA-3 MH-1000	02/17/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
02/17/2005	Hydrant Flushing	TA-15-171	02/17/2005	Utilities	N/A	~7,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/17/2005	Hydrant Flushing	TA-15-536	02/17/2005	Utilities	N/A	~4,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/17/2005	Storm Water	TA-15-473 and -474	02/17/2005	DX	N/A	~1000 gallons of storm water was discharged to the environment from a secondary containment unit.
02/18/2005	Storm Water	TA-15-473 and -474	02/18/2005	DX	N/A	~700 gallons of storm water was discharged to the environment from a secondary containment unit.
02/17/2005	Hydrant Flushing	TA-15-932	02/17/2005	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/22/2005	Storm Water	TA-36-141 and -142	02/22/2005	DX	N/A	~150 gallons of storm water was discharged to the environment from a secondary containment unit.
02/23/2005	Hydrant Flushing	TA-46-463	02/23/2005	Utilities	N/A	~5,000 gallons of de-chlorinated potable water from hydrant flushing activities.
02/24/2005	Steam Condensate	TA-3 MH-1000	02/24/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
02/24/2005	Steam Condensate	TA-3 MH-1018	02/24/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
02/24/2005	Steam Condensate	TA-3 MH-1019	02/24/2005	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
02/25/2005	Storm Water	TA-15-473 and -474	02/25/2005	DX	N/A	~300 gallons of storm water was discharged to the environment from a secondary containment unit.
03/01/2005	Steam Condensate	TA-3 MH-1018	03/01/2005	Utilities	N/A	~900 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
03/01/2005	Steam Condensate	TA-3 MH-1000	03/01/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
03/01/2005	Storm Water	TA-3-22, MH-1000	03/01/2005	DX	N/A	~200 gallons of storm water was discharged to the environment from a manhole.
03/01/2005	Storm Water	TA-3-22, MH-1018	03/01/2005	DX	N/A	~200 gallons of storm water was discharged to the environment from a manhole.
03/01/2005	Storm Water	TA-15-461 and -462	03/01/2005	DX	N/A	~900 gallons of storm water was discharged to the environment from a secondary containment unit.
03/03/2005	Potable Water	East Jemez Road. Approximately 0.5 miles east of the Los Alamos County Landfill Entrance.	03/03/2005	Utilities	N/A	~10,000 gallons of potable water was release to the environment (LA Canyon) when an 8-inch water-main ruptured.
03/03/2005	Steam Condensate	TA-3 MH-1000	03/03/2005	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
03/16/2005	Steam Condensate	TA-3 MH-1000	03/16/2005	Utilities	N/A	~1000 gallons of manhole accumulation water from steam condensate.
03/16/2005	Steam Condensate	TA-3 MH-1018	03/16/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/17/2005	Storm Water	TA-15-435 and -436	03/17/2005	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
03/18/2005	Storm Water	TA-15-461 and -462	03/18/2005	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
03/18/2005	Storm Water	TA-15-473 and -474	03/18/2005	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
03/21/2005	Steam Condensate	TA-3 MH-1000	03/21/2005	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
03/21/2005	Steam Condensate	TA-3 MH-1018	03/21/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/22/2005	Steam Condensate	TA-3 MH-1018	03/22/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/22/2005	Steam Condensate	TA-3 MH-1000	03/22/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
03/23/2005	Steam Condensate	TA-3 MH-1000	03/23/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/23/2005	Steam Condensate	TA-3 MH-1018	03/23/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
03/24/2005	Steam Condensate	TA-3 MH-1000	03/24/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/24/2005	Steam Condensate	TA-3 MH-1018	03/24/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/28/2005	Storm Water	TA-36-141 and -142	03/28/2005	DX	N/A	~2.080 gallons of storm water was discharged to the environment from a secondary containment unit.
03/30/2005	Steam Condensate	TA-3 MH-1000	03/30/2005	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
03/30/2005	Steam Condensate	TA-3 MH-1018	03/30/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
03/31/2005	De-Chlorinated Potable Water	TA-22-120	03/29/2005	Utilities	N/A	~11,000 gallons of de-chlorinated potable water will be released to upper Pajarito Canyon during a fire protection system water line tie in.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/04/2005	Steam Condensate	TA-3 MH-1020	04/04/2005	Utilities	N/A	~350 gallons of manhole accumulation water from steam condensate.
04/04/2005	Steam Condensate	TA-3 MH-1015	04/04/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/04/2005	Steam Condensate	TA-3 MH-1019	04/04/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/04/2005	Steam Condensate	TA-3 MH-1000	04/04/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/04/2005	Steam Condensate	TA-3 MH-1018	04/04/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/04/2005	Steam Condensate	TA-3 MH-1010	04/04/2005	Utilities	N/A	~150 gallons of manhole accumulation water from steam condensate.
04/04/2005	Storm Water	TA-53-365	04/04/2005	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
04/04/2005	Storm Water	TA-15-141 and –142	04/04/2005	DX	N/A	~150 gallons of storm water was discharged to the environment from a secondary containment unit.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/06/2005	Steam Condensate	TA-3 MH-1010	04/06/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1018	04/06/2005	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1015	04/06/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1019	04/06/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1001	04/06/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1034	04/06/2005	Utilities	N/A	~7,100 gallons of manhole accumulation water from steam condensate.
04/06/2005	Steam Condensate	TA-3 MH-1000	04/06/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/07/2005	Steam Condensate	TA-3 MH-1034	04/07/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
04/07/2005	Steam Condensate	TA-3 MH-1001	04/07/2005	Utilities	N/A	~4,500 gallons of manhole accumulation water from steam condensate.
04/08/2005	Steam Condensate	TA-3 MH-1034	04/08/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
04/08/2005	Steam Condensate	TA-3 MH-1001	04/08/2005	Utilities	N/A	~4,000 gallons of manhole accumulation water from steam condensate.
04/12/2005	Steam Condensate	TA-3 MH-1018	04/12/2005	Utilities	N/A	~175 gallons of manhole accumulation water from steam condensate.
04/12/2005	Steam Condensate	TA-3 MH-1019	04/12/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/12/2005	Steam Condensate	TA-3 MH-1015	04/12/2005	Utilities	N/A	~175 gallons of manhole accumulation water from steam condensate.
04/13/2005	Steam Condensate	TA-3 MH-1019	04/13/2005	Utilities	N/A	~950 gallons of manhole accumulation water from steam condensate.
04/13/2005	Steam Condensate	TA-3 MH-1018	04/13/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
04/20/2005	Steam Condensate	TA-3 MH-1044	04/20/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/20/2005	Steam Condensate	TA-3 MH-1019	04/20/2005	Utilities	N/A	~1,400 gallons of manhole accumulation water from steam condensate.
04/20/2005	Steam Condensate	TA-3 MH-1010	04/20/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
04/21/2005	Steam Condensate	TA-3 MH-1044	04/21/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
04/21/2005	Steam Condensate	TA-3 MH-1015	04/21/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
04/21/2005	Steam Condensate	TA-3 MH-1019	04/21/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/22/2005	Steam Condensate	TA-3 MH-1019	04/22/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/22/2005	Steam Condensate	TA-3 MH-1010	04/22/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
04/22/2005	Steam Condensate	TA-3 MH-1044	04/22/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
04/25/2005	Steam Condensate	TA-3 MH-1044	04/25/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/25/2005	Steam Condensate	TA-3 MH-1001	04/25/2005	Utilities	N/A	~1,400 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/25/2005	Steam Condensate	TA-3 MH-1019	04/25/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/25/2005	Storm Water	TA-36-141 and -142	04/25/2005	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
04/26/2005	Steam Condensate	TA-3 MH-1044	04/26/2005	Utilities	N/A	~100 gallons of manhole accumulation water from steam condensate.
04/26/2005	Steam Condensate	TA-3 MH-1019	04/26/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/26/2005	Steam Condensate	TA-3 MH-1015	04/26/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/26/2005	Storm Water	TA-15-435 and –436	04/26/2005	DX	N/A	~850 gallons of storm water was discharged to the environment from a secondary containment unit.
04/26/2005	Storm Water	TA-36-141 and -142	04/26/2005	DX	N/A	~200 gallons of storm water was discharged to the environment from a secondary containment unit.
04/27/2005	Steam Condensate	TA-3 MH-1019	04/27/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/27/2005	Steam Condensate	TA-3 MH-1044	04/27/2005	Utilities	N/A	~250 gallons of manhole accumulation water from steam condensate.
04/28/2005	Steam Condensate	TA-3 MH-HRL	04/28/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
04/28/2005	Steam Condensate	TA-3 MH-HRL	04/28/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
04/28/2005	Steam Condensate	TA-3 MH-1010	04/28/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
04/28/2005	Steam Condensate	TA-3 MH-1000	04/28/2005	Utilities	N/A	~900 gallons of manhole accumulation water from steam condensate.
04/28/2005	Steam Condensate	TA-3 MH-HRL	04/28/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
04/28/2005	Steam Condensate	TA-3 MH-1019	04/28/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
04/29/2005	Potable Water	TA-3-1402 Parking Structure	04/28/2005	PM	N/A	~1,500 gallons of de-chlorinated potable water was released to the environment during flow tests on two fire standpipes at a new parking structure.
05/03/2005	Storm Water	TA-43-1	05/03/2004	Utilities	N/A	~5,000 gallons of storm water was discharged to the environment from a manhole.
05/03/2005	Steam Condensate	TA-3 MH-1019	05/03/2005	Utilities	N/A	~900 gallons of manhole accumulation water from steam condensate.
05/04/2005	Steam Condensate	TA-3 MH-1001	05/04/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
05/04/2005	Steam Condensate	TA-3 MH-1019	05/04/2005	Utilities	N/A	~350 gallons of manhole accumulation water from steam condensate.
05/04/2005	Steam Condensate	TA-3 MH-HRL	05/04/2005	Utilities	N/A	~650 gallons of manhole accumulation water from steam condensate.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/09/2005	De-Chlorinated Potable Water	TA-33	05/05/2005	Utilities	N/A	~5,000 gallons of de-chlorinated potable water was discharged to the environment during a fire protection water line replacement.
05/09/2005	De-Chlorinated Potable Water	TA-33- 23, -24, -25	05/09/2005	KSL	N/A	~2,000 gallons of de-chlorinated potable water was discharged to the environment during a waterline upgrade.
05/10/2005	Potable Water	TA-49-113	05/10/2005	EM&R	N/A	~180,000 gallons of potable water was released to the environment when a 2-inch waterline ruptured.
05/11/2005	Steam Condensate	TA-3 MH-HRL	05/11/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
05/12/2005	Storm Water	TA-53-365	05/12/2005	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
05/12/2005	Steam Condensate	TA-3 MH-HRL	05/12/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
05/12/2005	Steam Condensate	TA-3 MH-HRL	05/12/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
05/12/2005	Steam Condensate	TA-3 MH-HRL	05/12/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
05/12/2005	De-Chlorinated Potable Water	TA-16-410	05/12/2005	ESA	N/A	~6,000 gallons of de-chlorinated potable water was released to the environment from a water bag load testing over 8 hours. Release did not reach a watercourse.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/12/2005	Steam Condensate	TA-3 MH-HRL	05/12/2005	Utilities	N/A	~1,600 gallons of manhole accumulation water from steam condensate.
05/13/2005	Potable Water	TA-55 Water Tank	05/13/2005	Utilities	N/A	~10,000 gallons of potable water was released to the environment when a water tower overfilled.
05/13/2005	Potable Water	TA-3-141	05/13/2005	Utilities	N/A	~10,000 gallons of potable water was released to the environment when a 6-inch waterline was impacted during excavation work.
05/13/2005	Steam Condensate	TA-3 MH-1019	05/13/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
05/13/2005	Steam Condensate	TA-3 MH-HRL	05/13/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
05/13/2005	Steam Condensate	TA-3 MH-HRL	05/13/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
05/13/2005	Steam Condensate	TA-3 MH-HRL	05/13/2005	Utilities	N/A	~1,200 gallons of manhole accumulation water from steam condensate.
05/16/2005	De-Chlorinated Potable Water	TA-3-NSSB	05/13/2005	PM	N/A	~400 gallons of de-chlorinated potable water was discharged to the environment during a waterline test.
05/16/2005	Potable Water	TA-3, Intersection of Diamond Drive and East Jemez Road	05/16/2005	Utilities	N/A	~5,000 gallons of potable water was released to the environment when a 6-inch waterline ruptured.
05/16/2005	Steam Condensate	TA-3 MH-HRL	05/16/2005	Utilities	N/A	~700 gallons of manhole accumulation water from steam condensate.
05/17/2005	Potable Water	TA-15 DARHT	05/17/2005	DX	N/A	~700 gallons of de-chlorinated potable water was discharged to a parking lot.
05/19/2005	Storm Water	TA-16	05/09/2005	Utilities	N/A	~350 gallons of storm water was released from a manhole to the environment.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
05/19/2005	Hydrant Flushing	TA-16-202 and –933	05/19/2005	FWO-FIRE	N/A	~850 gallons of potable water was discharged during a hydrant line flow test.
05/19/2005	Steam Condensate	TA-3 MH-1019	05/19/2005	Utilities	N/A	~750 gallons of manhole accumulation water from steam condensate.
05/24/2005	Steam Condensate	TA-3 MH-1019	05/25/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
05/28/2005	Potable Water	TA-3-142	05/28/2005	Utilities	N/A	~50,000 gallons of potable water was released to the environment when a 6-inch water line ruptured.
06/02/2005	Steam Condensate	TA-3 MH-1019	06/02/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
06/07/2005	Steam Condensate	TA-3 MH-1010	06/07/2005	Utilities	N/A	~200 gallons of manhole accumulation water from steam condensate.
06/08/2005	Steam Condensate	TA-3 MH-1010	06/08/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
06/08/2005	Steam Condensate	TA-3 MH-1015	06/08/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
06/08/2005	Steam Condensate	TA-3 MH-1018	06/08/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
06/10/2005	Steam Condensate	TA-3 MH-1010	06/10/2005	Utilities	N/A	~600 gallons of manhole accumulation water from steam condensate.
06/10/2005	Steam Condensate	TA-3 MH-1018	06/10/2005	Utilities	N/A	~400 gallons of manhole accumulation water from steam condensate.
06/10/2005	Steam Condensate	TA-3 MH-1019	06/10/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
06/22/2005	Steam Condensate	TA-3 MH-1013	06/22/2005	Utilities	N/A	~750 gallons of manhole accumulation water from steam condensate.
07/08/2005	Potable Water	TA-21-346	07/08/2005	Utilities	N/A	~100,000 gallons of potable water was released to the environment when an 8-inch waterline ruptured.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
07/18/2005	Storm Water	TA-15-435 and -436	07/18/2005	DX	N/A	~700 gallons of storm water was discharged to the environment from a secondary containment unit.
07/18/2005	Storm Water	TA-15-473 and -474	07/18/2005	DX	N/A	~700 gallons of storm water was discharged to the environment from a secondary containment unit.
07/18/2005	Storm Water	TA-15-461 and -462	07/18/2005	DX	N/A	~600 gallons of storm water was discharged to the environment from a secondary containment unit.
07/19/2005	Steam Condensate	TA-3 MH-1010	07/19/2005	Utilities	N/A	~800 gallons of manhole accumulation water from steam condensate.
07/19/2005	Steam Condensate	TA-3 MH-1015	07/19/2005	Utilities	N/A	~1,000 gallons of manhole accumulation water from steam condensate.
07/20/2005	Steam Condensate	TA-3 MH-1019	07/20/2005	Utilities	N/A	~300 gallons of manhole accumulation water from steam condensate.
07/27/2005	Steam Condensate	TA-3 MH-1018	07/27/2005	Utilities	N/A	~500 gallons of manhole accumulation water from steam condensate.
08/11/2005	Hydrant Flushing	TA-16-205 and –450	08/25/2005	EOO-Fire	N/A	~2800 gallons of potable water was discharged to the environment during a hydrant flushing.
08/12/2005	Storm Water	TA-15-473 and -474	08/12/2005	DX	N/A	~950 gallons of storm water was discharged to the environment from a secondary containment unit.
08/12/2005 – 08/17/2005	Steam Condensate	TA-3-1420 CINT Construction Site	08/12/2005	PM	N/A	~7,200 gallons of steam condensate water was released to the environment from a broken steam condensate line.
08/15/2005	Storm Water	TA-15-435 and -436	08/15/2005	DX	N/A	~1,850 gallons of storm water was discharged to the environment from a secondary containment unit.
08/15/2005	Storm Water	TA-15-473 and -474	08/15/2005	DX	N/A	~800 gallons of storm water was discharged to the environment from a secondary containment unit.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
08/15/2005	Storm Water	TA-36-141 and -142	08/15/2005	DX	N/A	~1,300 gallons of storm water was discharged to the environment from a secondary containment unit.
08/15/2005	Steam Condensate	TA-3 MH-1034	08/15/2005	Utilities	N/A	~1,500 gallons of manhole accumulation water from steam condensate.
08/17/2005	Storm Water	TA-53-365	08/17/2005	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment unit.
08/23/2005	Storm Water	TA-55 PF-10	08/23/2005	NMT	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
08/30/2005	Storm Water	TA-55 PF-5	08/30/2005	NMT	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
09/06/2005	Storm Water	TA-15-184	09/07/2005	DX	N/A	~500 gallons of storm water was discharged to the environment from a secondary containment unit.
09/07/2005	Storm Water	TA-15-534	09/07/2005	DX	N/A	~120 gallons of storm water was discharged to the environment from a secondary containment unit.
09/08/2005	Potable Water	TA-69	09/08/2005	Utilities	N/A	~10,000 gallons of potable water was released to the environment when a 6-inch waterline was ruptured during a waterline replacement.
09/10/2005 – 09/12/2005	Potable Water	TA-9-34	09/12/2005	Utilities	N/A	~900 gallons of potable water was released to the environment when a 2" waterline broke. The water did not reach a watercourse. Erosion impacts were minimal.
09/19/2005	Potable Water	TA-14	09/20/2005	Utilities	N/A	~500 gallons of potable water was released to the environment from a leak in a 6-inch water main.

Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
09/28/2005	Storm Water	TA-3 MH-1001	09/28/2005	Utilities	N/A	~600 gallons of storm water was released to the environment from a steam condensate manhole.
09/29/2005	Non-Potable Water	TA-3 NSSB Construction Site	09/26/2005	PM	N/A	~8,000 gallons of non-potable water will be released to the environment from a fire protection system test.
09/29/2005	Storm Water	TA-3 MH-1001	09/29/2005	Utilities	N/A	~15,000 gallons of storm water was released to the environment from a steam condensate manhole.
10/03/2005	Potable Water	TA-3-66 (Sigma)	10/04/2005	Utilities	N/A	~30,000 gallons of potable water was released to the environment when a 6-inch water line ruptured.
10/3/2005	Storm Water	TA-53-365	10/03/2005	LANSCE	N/A	~2,600 gallons of storm water was discharged to the environment from a secondary containment structure.
10/06/2005	Non-Potable Water	TA-55 (various hydrants)	10/26/2005	NMT	N/A	~36,000 gallons of non-potable water from a closed loop hydrant system were released to the environment from 12 different hydrants. The releases were not allowed to reach a watercourse.
10/6/2005	Steam Condensate	TA-3-216, MH-1007	10/06/2005	Utilities	N/A	~350 gallons of steam condensate water was released to the environment from a manhole.
10/6/2005	Steam Condensate	TA-3-22, MH-1000	10/06/2005	Utilities	N/A	~550 gallons of steam condensate water was released to the environment from a manhole.
10/09/2005	Potable Water	Near TA-16-260	10/11/2005	Utilities	N/A	~15,000 gallons of potable water was released to the environment from an 8-inch waterline rupture.
10/18/2005	Potable Water	TA-3-58	10/18/2005	Utilities	N/A	~500 gallons of fire suppression water was discharged to the environment when a fire protection system accidentally triggered.

Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
10/23/2005	Potable Water	TA-3-29	10/24/2005	CMR	N/A	~48,000 gallons of fire suppression water was discharged to the environment from an 8 inch waterline rupture. Up to a few hundred gallons entered a sewer manhole and went to SWWS.
10/24/2005	Steam Condensate	TA-43 HRL	10/27/2005	HRL	N/A	~1500 gallons was
10/28/2005	Potable Water	TA-8 and TA-9 Border at PGUI Proj	10/28/2005	DX	N/A	~31,000 gallons of potable water was released when a subcontractor accidentally drilled into a 12 inch water main.
11/2/2005	Potable Water	LA Canyon near DP Canyon confluence	11/2/2005	Utilities	N/A	~41,000 gallons of fire suppression water was released slowly from an 8 inch main after the thrust block was damaged during excavation. The water filled the PNM gas pipe line trench west of the DP Canyon confluence.
10/7/2005	Storm water from secondary containment of transformer	TA-3-22 Transformer secondary containment	11/7/2005	Utilities	N/A	~2400 of storm water was discharged from a secondary containment vault into upper Sandia Canyon. Discharge was done slowly over 48 hrs to minimize erosion in canyon.
11/14 and 15/2005	Hydrostatic test at PNM Gas Pipeline	LA Canyon near Hwy 502 and St. Rd 4.	11/3/2005	Utilities	N/A	Approximately 54,000 gallons of water was released through a water truck on the dirt road on 11/14 and 38,000 gallons was released through a de-watering bag and over silt dikes to minimize erosion. Water release was over the course of two days.
11/17/2005	Steam Condensate	TA-3-22, MH 1001	11/21/2005	Utilities	N/A	~200 gallons of steam condensate water was released to the environment from a manhole.

Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
11/17/2005	Steam Condensate	TA-43, MH-HRL	11/21/2005	Utilities	N/A	~1000 gallons of steam condensate water was released to the environment from a manhole.
11/17/2005	Steam Condensate	TA-3 -38, MH-1015	11/21/2005	Utilities	N/A	~100 gallons of steam condensate water was released to the environment from a manhole.
11/18/2005	Steam Condensate	TA-3- 2322	11/21/2005	Utilities	N/A	~600 gallons of steam condensate water was released to the environment from a manhole.
11/18/2005	Steam Condensate	TA-3-38, MH-1015	11/21/2005	Utilities	N/A	~800 gallons of steam condensate water was released to the environment from a manhole.
11/18/2005	Steam Condensate	TA-43-HRL-1	11/21/2005	Utilities	N/A	~1600 gallons of steam condensate water was released to the environment from a manhole.
11/18/2005	Steam Condensate	TA-43-HRL-1	11/21/2005	Utilities	N/A	~1200 gallons of steam condensate water was released to the environment from a manhole.
11/18/2005	Steam Condensate	TA-43-HRL-1	11/21/2005	Utilities	N/A	~1600 gallons of steam condensate water was released to the environment from a manhole.
11/21/2005	Steam Condensate	TA-3-2322	11/22/2005	Utilities	N/A	~1000 gallons of steam condensate water was released to the environment from a manhole.
11/21/2005	Steam Condensate	TA-3-38, MH 1015	11/22/2005	Utilities	N/A	~800 gallons of steam condensate water was released to the environment from a manhole.
12/1/2005	Potable Water	TA-21-209	12/1/2005	Utilities	N/A	~2000 gallons of potable water was released to the environment from a 6 inch waterline rupture.
12/1/2005	Potable Water	TA-69	12/5/2005	Utilities	N/A	~1,200 gallons of potable water was released to the environment during the repair of a 6 inch waterline at TA-69.

Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/3/2005	Hydrostatic Test Potable Water	TA-50-250	12/5/2005	PM-IP	N/A	~300 gallons of potable water was released to the environment on12/3/05
12/7/2005	Potable Water	TA-61	12/7/2005	Utilities	N/A	~600 gallons of potable water was released to the environment due to a 6 inch waterline rupture
12/8/ 2005	Steam Condensate	TA-3 By Bridge MH 1029	12/12/2005	Utilities	N/A	~600 gallons of steam condensate water was released to the environment from a manhole.
12/8/ 2005	Steam Condensate	TA-3 Carpenter Shop MH 1015	12/12/2005	Utilities	N/A	~800 gallons of steam condensate water was released to the environment from a manhole.
12/8/ 2005	Steam Condensate	TA-3 Steam Plant MH 1000	12/12/2005	Utilities	N/A	~800 gallons of steam condensate water was released to the environment from a manhole.
12/12/2005	Potable Water	TA-16 North of Hwy 4	12/12/2005	Utilities	N/A	~8,000 gallons of potable water was released to the environment due to a rupture in the air relief valve on a 6 inch waterline
12/9/2005	Potable Water	TA-54 Dome 215	12/12/2005	Utilities	N/A	~600 gallons of potable water was released to the environment due to a fire suppression line break in a 2-1/2 inch waterline inside dome 215
12/11/2005	Potable Water	TA-43 HRL Under bridge	12/12/2005	Utilities	N/A	~600 gallons of f condensate water was released to the environment due to a break in a steam condensate line.
12/14/2005	Steam Condensate	TA-43 HRL Under bridge	12/14/2005	Utilities	N/A	~850 gallons of condensate water was released to the environment due to a break in a steam condensate line
12/16/2005	Steam Condensate	TA-43 HRL Manhole	12/19/2005	Utilities	N/A	~700 gallons of condensate water was released to the environment from a steam condensate manhole

Appendix 10

Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
12/20/2005	Steam Condensate	TA-43 HRL Manhole	12/19/2005	Utilities	N/A	~500 gallons of condensate water was released to the environment from a steam condensate manhole
12/20/2005	Steam Condensate	TA-3-38 Manhole 1015	12/19/2005	Utilities	N/A	~200 gallons of condensate water was released to the environment from a steam condensate manhole
12/20/2005	Steam Condensate	TA-3 Manhole 1010	12/19/2005	Utilities	N/A	~300 gallons of condensate water was released to the environment from a steam condensate manhole
12/23/2005	Steam Condensate	TA-43 HRL Manhole near HRL 1	1/3/2006	Utilities	N/A	~1000 gallons of condensate water was released to the environment from a steam condensate manhole
1/3/2006	Steam Condensate	TA-3-38 Manhole 1015	1/3/2006	Utilities	N/A	~250gallons of condensate water was released to the environment from a steam condensate manhole
1/3/2006	Steam Condensate	TA-43 HRL Manhole near HRL 1	1/3/2006	Utilities	N/A	~700gallons of condensate water was released to the environment from a steam condensate manhole
1/6/2006	Steam Condensate	TA-43 HRL Manhole near HRL 1	1/9/2006	Utilities	N/A	~550 gallons of condensate water was released to the environment from a steam condensate manhole
1/9/2006	Potable water	TA-55 Falls Pitus Parking Lot	1/9/2006	CMRR	N/A	~80 gallons of potable water was released on the ground to dewater a PVC lined borehole after the completion of a seismic test
1/9/2006	Steam Condensate	TA-43 HRL Manhole near HRL 1	1/10/2006	Utilities	N/A	~1200 gallons of condensate water was released to the environment from a steam condensate manhole
1/10/2006	Potable Water	TA-9-42	1/10/2006	DX	N/A	~2500 gallons of potable water was released to the environment when a back hoe bucket broke a 2 inch distribution line during the repair of a steam and condensate line.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
1/10/2006	Steam Condensate	TA-43 HRL Manhole near HRL 1	1/11/2006	Utilities	N/A	~6000 gallons of condensate water was released to the environment from a steam condensate manhole as part of ongoing discharge.
1/11/2006	Potable Water	North of TA-54-33	1/12/2006	FWO-SWO	N/A	Over 2000 gallons of potable water was released to the environment when a waterline valve to the line to the evaporative coolers was mistakenly turned on and water flowed out the opened ends of the tubing and on to the ground.
1/13/2006	Steam Condensate	TA-3 Steam plant MH 1000	1/17/2006	Utilities	N/A	~800 gallons of condensate water was released to the environment from a steam condensate manhole
1/13/2006	Steam Condensate	TA-3-38 Carpenter Shop MH 1015	1/17/2006	Utilities	N/A	~800 gallons of condensate water was released to the environment from a steam condensate manhole
1/13/2006	Steam Condensate	TA-3 Parking lot MH 1019	1/17/2006	Utilities	N/A	~100 gallons of condensate water was released to the environment from a steam condensate manhole
1/31/2006	Potable Water	TA-69 Outside by TA-69 Water Tanks	1/31/2006	Utilities	N/A	~500 gallons of potable water was released to the environment when a backhoe struck and ruptured a 6 inch waterline during repair of a broken valve.
2/13/2006	Potable Water	TA-3-1420 CINT Bldg	2/11/2006	Utilities	N/A	~300 gallons of water from a fire suppression line (3/4”) was released into a Bldg. because of freezing temperatures. The water was swept out of the bldg. onto a concrete landing and evaporated.

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Table 10-1. Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

Occurrence Date	Type of Release	Location	Notification Date	Division	Close Out	Comments
2/13/2006	Steam Condensate	TA-3-38 MH 1015	2/10/2006	Utilities	N/A	~2,000 gallons of condensate water was released to the environment from a steam condensate manhole

Appendix 10

Certification of Watershed Non-Storm Water Discharges (January 2002 – March 2006)

CERTIFICATION STATEMENT

I, Kenneth M. Hargis (responsible official), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print) **Kenneth M. Hargis** **Acting Division Director,** **Environmental Stewardship Division,** **Los Alamos National Laboratory**	B. Area Code and Telephone No. **505-667-2211**
C. Signature Kenneth M. Hargis	D. Date Signed 3/27/06

Table 10-2. Certification of Non-Storm Water Discharges from Sites

NON-STORM WATER DISCHARGE
ASSESSMENT AND CERTIFICATION

Completed by: Shaw Environmental
Title: BMP Installation, Inspection and Maintenance Team
Date: 31-Dec-05

Date of Test or Evaluation	Outfall Directly Observed During the Test (Location)	Method Used to Test or Evaluate Discharge	Type of Release	Identify Potential Significant Sources	Name the Person Who Conducted the Test or Evaluation
12/8/2004	SWMU 21-011(k)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Heather Voss & Margie Polley
12/8/2004	SWMU 35-016(I)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Heather Voss & Margie Polley
9/10/2001	SWMUs 36-008 and C-36-003	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Randy Johnson
9/12/2001	SWMU 40-006(b)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Randy Johnson
12/8/2004	SWMU 73-002	Visual Observation	Periodic discharge from car washing	Car washing	Heather Voss & Margie Polley
12/9/2004	SWMU 16-026(h2)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Elmer Alcon & Heather Voss
12/9/2004	SWMU 16-029(g)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Elmer Alcon & Heather Voss
12/8/2004	SWMU 01-003(e)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Heather Voss & Margie Polley
12/9/2004	SWMU 11-006(b)	Visual Observation	Periodic discharge from hose bib	Lawn watering	Elmer Alcon & Heather Voss
12/9/2004	SWMU 16-003(f)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Elmer Alcon & Heather Voss
12/9/2004	SWMU 16-004(f)	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Elmer Alcon & Heather Voss
12/9/2004	SWMU 16-019	Visual Observation	Periodic discharge from fire hydrant	Fire hydrant testing	Elmer Alcon & Heather Voss
10/24/2005	SWMU 09-004(g)	Visual Observation	Periodic dishcarge from fire hydrant	Fire hydrant testing	Eric Riebsomer
10/24/2004	SWMU 35-014(e2)	Visual Observation	Release Valve from Secondary Containment	Secondary Containment	Heather Voss
10/12/2005	SWMU 03-052(f)	Visual Observation	Cooling Tower Discharge	Cooling Tower	Brad Schilling
12/22/2005	54-017	Visual Observation	Vegetatvie Watering	Sprinkler System	Heather Voss

CERTIFICATION

I, Kenneth M. Hargis (responsible official), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print)
Kenneth M. Hargis, Acting Division Director, Environmental Stewardship Division
Los Alamos National Laboratory

B. Area Code and Telephone No.
505-667-2211

C. Signature
Kenneth M. Hargis

D. Date Signed
3/27/06

Appendix 11.

Documentation of Permit Eligibility Related to Endangered Species

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Appendix 11

Documentation of Permit Eligibility Related to Endangered Species

A Biological Evaluation was completed by the Laboratory's Ecology Group (ENV-ECO) in September 2001. The report entitled "The Potential Effects of Operations under the NPDES Storm Water Multi-Sector General Permit for Industrial Activities on Federally-Listed Threatened and Endangered Species and Other Potentially Sensitive Species at Los Alamos National Laboratory" (LA-UR-01-4657) is enclosed in this Appendix.

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Los Alamos
NATIONAL LABORATORY
memorandum

Environment Safety & Health Division
Ecology Group, ESH-20, M887

To: Mike Saladen, ESH-18, K497
From: Tim Haarmann, ESH-20, M887 TKH
Phone/FAX: 7-5019/7-0731
Symbol: ESH-20/Ecol-01-0134
Date: September 27, 2001

SUBJECT: NPDES Storm Water Multi-Sector Permit Compliance Reviews

In response to your recent request, ESH-20 has completed the biological and cultural resources compliance reviews for the effects of operations under the National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities. We have prepared both a Biological Evaluation and a cultural resources compliance review.

The attached Biological Evaluation accounts for the direct, indirect, and cumulative effects of the reissuance of the Environmental Protection Agency National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities on Federally listed threatened and endangered species at Los Alamos National Laboratory. The Biological Evaluation only applies to existing facilities and projects. New facilities and projects will be evaluated for effects on Threatened and Endangered species through the Environment, Safety, and Health Division internal review process. The review determined that there is no suitable habitat at LANL for the whooping crane (*Grus americana*) and the black-footed ferret (*Mustela nigripes*), therefore, reissuance of the Multi-Sector General Permit should have no detrimental impact on these two species. There is suitable habitat for the bald eagle (*Haliaeetus leucocephalus*), the southwestern willow flycatcher (*Empidonax trailii extimus*), and the Mexican spotted owl (*Strix occidentalis lucida*) on LANL, however, because no habitat is likely to be removed, lost, or degraded, there should be no detrimental impact on these species. In addition to the federally listed threatened and endangered species, the Biological Evaluation assessed approximately 24 state and federally-listed sensitive species for potential effects from the reissuance of the Multi-Sector General Permit. Reissuance of the permit should have no detrimental impact on any potentially sensitive species.

The attached cultural resources review complies with Section 106 of the National Historic Preservation Act of 1966 and its implementing regulations (36 CFR Part 800). Section 106 compliance requires federal agencies to consider the effects of their proposed undertakings on historic properties. Activities associated with the Section 404 Nation Wide Permit and the National Pollution Discharge Elimination System General Permits are federal undertakings that require Section 106 review. DOE LAAO has established alternate procedures to Section 106 under a Programmatic Agreement [MOU DE-GM32-00AL77152] between the DOE, the Advisory Council on Historic Preservation, and the New Mexico State Historic Preservation Office. The Programmatic Agreement allows DOE LAAO to review projects and proceed when there is no effect to historic properties. This streamlines the compliance process and eliminates the 30 day State Historic

Preservation Office consultation. The Laboratory review process has been delegated by DOE to the Ecology Group.

ESH-20 has reviewed the National Pollution Discharge Elimination System General Permits and the Section 404 Nation Wide Permit projects for effects on historic properties at LANL. All of the projects were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act.

Please let me know if you have any further questions.

TH:dr

Cy: ESH-20 Reading File

Biological Evaluation:
The Potential Effects of Operations under the NPDES Storm Water Multi-Sector General Permit for Industrial Activities on Federally-Listed Threatened and Endangered Species and Other Potentially Sensitive Species at Los Alamos National Laboratory

LA-UR-01-4657

Prepared for: LANL Water Quality and Hydrology Group (ESH-18)
Primary Assessment Leader: Timothy Haarmann
Prepared by: Samuel Loftin
Biology Team, Ecology Group (ESH-20)
Date: September 28, 2001

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LIST OF ACRONYMS

AEI	Area of Environmental Interest
BE	biological evaluation
BMP	Best Management Practice
DOE	Department of Energy
EM&R	Emergency Management and Response
EPA	Environmental Protection Agency
ER	Environmental Restoration
ESA	Endangered Species Act
ESH	Environment, Safety, and Health
ESH-ID	ESH Division internal review process
ESH-18	Environment, Safety and Health Division, Water Quality and Hydrology Group
ESH-20	Environment, Safety and Health Division, Ecology Group
FMU	Facility Management Unit
GIS	geographic information systems
HI	hazard index

HMP	Habitat Management Plan
LANL	Los Alamos National Laboratory
MSGP	Multi-Sector General Permit
NCB	NEPA, Cultural Resources, and Biological Resources
NEPA	National Environmental Policy Act
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
RCRA	Resource Conservation and Recovery Act
PRS	potential release site
SWAT	Surface Water Assessment Team
SWMU	Solid Waste Management Unit
SWPPP	Storm Water Pollution Prevention Plan
TA	technical area
T&E	threatened and endangered
FWS	US Fish and Wildlife Service

SUMMARY

This biological evaluation (BE) accounts for the direct, indirect, and cumulative effects of the reissuance of the Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit (MSGP) for Industrial Activities on federally-listed threatened and endangered (T&E) species at Los Alamos National Laboratory (LANL). This BE applies only to existing facilities and projects. New facilities and projects will be evaluated for effects on T&E species through the Environment, Safety, and Health (ESH) Division internal review process.

There was no suitable habitat at LANL for the whooping crane (*Grus americana*) and the black-footed ferret (*Mustela nigripes*), therefore, reissuance of the MSGP should have no detrimental impact on these two species. There is suitable habitat for the bald eagle (*Haliaeetus leucocephalus*), the southwestern willow flycatcher (*Empidonax trailii extimus*), and the Mexican spotted owl (*Strix occidentalis lucida*) on LANL, however, because no habitat is likely to be removed, lost, or degraded, there should be no detrimental impact on these species.

Other state- and federally-listed species were evaluated for potential impacts (Appendix 2). Because no habitat is likely to be removed, lost, or degraded, there should be no detrimental impact on these species.

1.0 PROPOSED ACTION

Storm water discharges from industrial activity at LANL are currently regulated under the NPDES MSGP for Storm Water Discharges Associated with Industrial Activities. The storm water NPDES permitting system regulates storm water point source discharges. EPA and United States Fish and Wildlife Service (USFWS) have agreed that permit coverage is only available if the effects of storm water discharges, allowable non-storm water discharges, and discharge-related activities result in no jeopardy to listed species and habitats.

A second requirement for facilities that wish to be covered by the current NPDES Storm Water MSGP is the preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The major objectives of a SWPPP are to identify sources of pollution potentially affecting the quality of storm water discharges associated with industrial activity from the facility and to implement measures to minimize and control pollutants in storm water discharges associated with industrial activity from the facility (65-FR-64746).

LANL SWPPPs were developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq.) and implementing regulations established by the EPA for NPDES

Storm Water MSGPs for Industrial Activities. In accordance with facility activity, these plans comply with permit requirements for industrial activities as defined by EPA in 65-FR-64746. The applicable Storm Water Discharge Permits are EPA MSGP Numbers NMR05A734 and NMR05735.

2.0 ENVIRONMENTAL BASELINE

2.1 Regional Description

2.1.1 Location within the State

LANL and the associated residential areas of Los Alamos and White Rock are located in Los Alamos County, north-central New Mexico, approximately 60 mi (100 km) north-northeast of Albuquerque and 25 mi (40 km) northwest of Santa Fe (Figure 1). The 28,654-ac (11,596-ha) LANL site is situated on the Pajarito Plateau. This plateau is a series of finger-like mesas separated by deep east-to-west-oriented canyons cut by ephemeral and intermittent streams. Mesa tops range in elevation from approximately 7,800 ft (2,400 m) on the flanks of the Jemez Mountains to about 6,200 ft (1,900 m) at their eastern termination above the Rio Grande.

Most LANL and community developments are confined to mesa tops. The surrounding land is largely undeveloped. Large tracts of land north, west, and south of the LANL site are held by the Santa Fe National Forest, Bureau of Land Management, Bandelier National Monument, General Services Administration, and Los Alamos County. The Pueblo of San Ildefonso borders LANL to the east.

LANL is divided into technical areas (TAs) that are used for building sites, experimental areas, waste disposal locations, roads, and utility rights-of-way. However, these uses account for only a small part of the total land area. Most land provides buffer areas for security and safety and is held in reserve for future use.

2.1.2 Geologic Setting

Most of the finger-like mesas in the Los Alamos area are formed from Bandelier Tuff, which is composed of ash fall, ash fall pumice, and rhyolite tuff. The tuff, ranging from nonwelded to welded, is more than 1,000 ft (300 m) thick in the western part of the plateau and thins to about 260 ft (80 m) eastward above the Rio Grande. It was deposited after major eruptions in the Jemez Mountains' volcanic center about 1.2 to 1.6 million years ago. On the western part of the Pajarito Plateau, the Bandelier Tuff overlaps onto the Tschicoma Formation, which consists of older volcanics that form the Jemez Mountains. The tuff is underlain by the

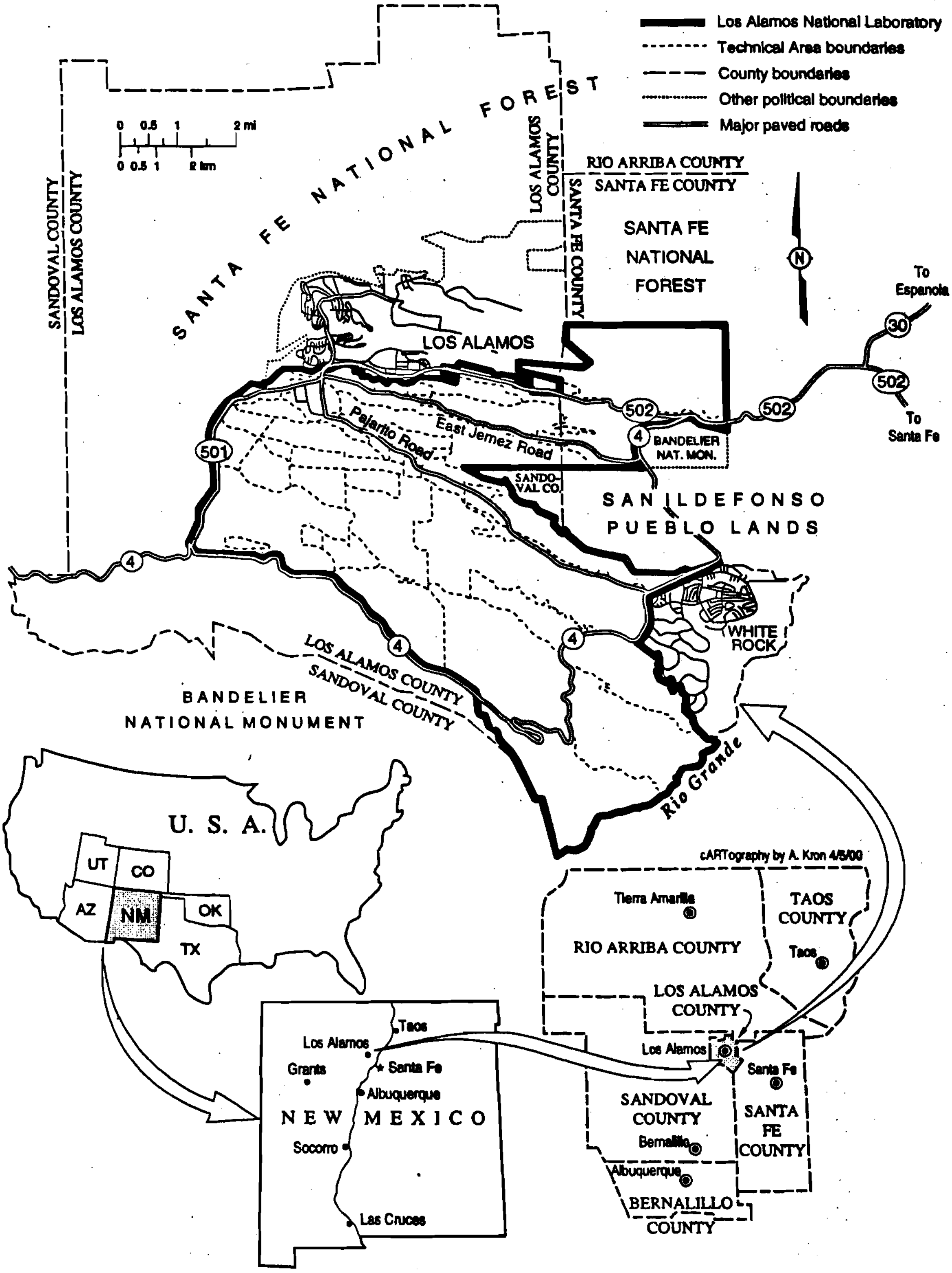

Figure 1. Regional location of LANL

conglomerate of the Puye Formation in the central plateau and near the Rio Grande. Chino Mesa basalts interfinger with the conglomerate along the river. These formations overlay the sediments of the Santa Fe Group, which extend across the Rio Grande Valley and are more than 3,300 ft (1,000 m) thick. LANL is bordered on the east by the Rio Grande, within the Rio Grande rift. Because the rift is slowly widening, the area experiences frequent minor seismic disturbances.

Surface water in the Los Alamos area occurs primarily as ephemeral or intermittent reaches of streams. Perennial springs on the flanks of the Jemez Mountains supply base flow into upper reaches of some canyons, but the volume is insufficient to maintain surface flows across the LANL site before they are depleted by evaporation, transpiration, and infiltration. Runoff from heavy thunderstorms or heavy snowmelt reaches the Rio Grande several times a year in some drainages. Effluents from sanitary sewage, industrial waste water treatment plants, and cooling-tower blowdown enter some canyons at rates sufficient to maintain surface flows for varying distances.

Groundwater in the Los Alamos area occurs in three forms: (1) water in shallow alluvium in canyons, (2) perched water (a body of groundwater above a less permeable layer that is separated from the underlying main body of groundwater by an unsaturated zone), and (3) the main aquifer of the Los Alamos area. Ephemeral and interrupted streams have filled some parts of canyon bottoms with alluvium that ranges from less than 3 ft (1 m) to as much as 100 ft (30 m) in thickness. Runoff in canyon streams percolates through the alluvium until its downward movement is impeded by layers of weathered tuff and volcanic sediment that are less permeable than the alluvium. This creates shallow bodies of perched groundwater that move downgradient within the alluvium. As water in the alluvium moves down the canyon, it is depleted by evapotranspiration and movement into underlying volcanics (Purtymun et al. 1977). The chemical quality of the perched alluvial groundwater shows the effects of discharges from LANL.

In portions of Pueblo, Los Alamos, and Sandia canyons, perched groundwater occurs beneath the alluvium at intermediate depths within the lower part of the Bandelier Tuff and within the underlying conglomerates and basalts. Perched groundwater has been found at depths of about 120 ft (37 m) in the midreach of Pueblo Canyon to about 450 ft (137 m) in Sandia Canyon near the eastern boundary of LANL. This intermediate-depth perched water discharges at several springs in the area of Basalt Spring in Los Alamos Canyon. These intermediate-depth groundwaters are formed in part by recharge from the overlying perched alluvial groundwaters and show evidence of trace amounts of radioactive and inorganic contamination from LANL operations.

Perched water may also occur within the Bandelier Tuff in the western portion of LANL, just east of the Jemez Mountains. The source of this perched water might be infiltration from streams discharging from the mouths of canyons along the mountain front and underflow of recharge from the Jemez Mountains. Industrial discharges from LANL operations may also contribute to perched groundwater in the western portion of LANL. Perched groundwater in the Tschicoma Formation is the source of water supply for the ski area located just west of the LANL boundary in the Jemez Mountains.

The main aquifer of the Los Alamos area is the only aquifer in the area capable of serving as a municipal water supply. The surface of the aquifer rises westward from the Rio Grande within the Tesuque Formation (part of the Santa Fe Group) into the lower part of the Puye Formation beneath the central and western part of the plateau. Depth to the main aquifer is about 1,000 ft (300 m) beneath the mesa tops in the central part of the plateau. The main aquifer is separated from alluvial and perched waters by about 350 to 620 ft (110 to 190 m) of tuff and volcanic sediments with low (less than 10%) moisture content.

Water in the main aquifer is under artesian conditions under the eastern part of the Pajarito Plateau near the Rio Grande (Purtymun and Johnson 1974). The source of recharge to the aquifer is presently uncertain. Early research studies concluded that major recharge to the main aquifer is probably from the Jemez Mountains to the west, because the piezometric surface slopes downward to the east, suggesting easterly groundwater flow beneath the Pajarito Plateau. However, the small amount of recharge available from the Jemez Mountains relative to water supply pumping quantities, along with differences in isotopic and trace element composition, appear to rule this out. Further, isotopic and chemical composition of some waters from wells near the Rio Grande suggest that the source of water underlying the eastern part of the Pajarito Plateau may be the Sangre de Cristo Mountains (Blake et al. 1995).

Groundwater flow along the Rio Grande rift from the north is another possible recharge source. The main aquifer discharges into the Rio Grande through springs in White Rock Canyon. The 11.5-mi (18.5-km) reach of the river in White Rock Canyon between Otowi Bridge and the mouth of Rito de los Frijoles receives an estimated 4,300 to 5,500 acre-ft (5.3 to $6.8 \cdot 10^6$ m^3) annually from the aquifer.

2.1.3 Topographic Setting

LANL and its surrounding environments encompass a wide range of environmental conditions. This is due in part to the prominent elevational gradient in the east-west direction. This is also attributable to the complex, local topography that is found throughout much of the region.

The spectacular scenery that is a trademark of the Los Alamos area is largely a result of the prominent elevational gradient of the region. The difference between its lowest elevation in the eastern extremities and its highest elevation on the western boundaries represents a change of approximately 5,146 vertical feet (1,568 m). At the lowest point along the Rio Grande, the elevation is approximately 5,350 ft (1,631 m) above mean sea level. At the opposite elevational extreme, the Sierra de los Valles, which is part of the more extensive Jemez Mountains, forms a continuous backdrop to the landscapes of the study region. The tallest mountain peaks in the Sierra include Pajarito Mountain at 10,441 ft (3,182 m), Cerro Rubio at 10,449 ft (3,185 m), and Caballo Mountain at 10,496 ft (3,199 m).

In addition to the prominent elevational gradient, the Los Alamos region is also topographically complex. Within Los Alamos County, there are three main physiographic systems (Nyhan et al. 1978). From east to west, these systems are the White Rock Canyon, the Pajarito Plateau, and the Sierra de los Valles. White Rock Canyon is 6,200 ft (1,890 m) above mean sea level. This rugged canyon is approximately 1 mi (1.6 km) wide and extends to a depth of nearly 900 ft (275 m). White Rock Canyon occupies about 5% of Los Alamos County. The Pajarito Plateau is the largest of the three physiographic systems, occupying nearly 65% of Los Alamos County. The Pajarito Plateau is a broad piedmont that slopes gently to the east and southeast. At a more localized scale, the Pajarito Plateau is also topographically complex. The surface of the plateau is dissected into narrow mesas by a series of east-west trending canyons. Above 7,800 ft (2,377 m), the Sierra de los Valles rises to the western extremity of the study region. These mountains occupy approximately 30% of Los Alamos County. The Sierra is also dissected into regularly spaced erosional features, although these canyons in the mountains are not so prominent as the canyons on the Pajarito Plateau.

2.1.4 Weather and Climate

Los Alamos has a temperate, semiarid mountain climate. However, its climate is strongly influenced by elevation, and large temperature and precipitation differences are observed in the area because of the topography.

Los Alamos has four distinct seasons. Winters are generally mild, but occasionally winter storms produce large amounts of snow and below-freezing temperatures. Spring is the windiest season of the year. Summer is the rainy season in Los Alamos, when afternoon thunderstorms and associated hail and lightning are common. Fall marks the end of the rainy season and a return to drier, cooler, and calmer weather. The climate statistics discussed below summarize analyses given in Bowen (1990 and 1992).

Several factors influence the temperature in Los Alamos. An elevation of 7,400 ft (2,256 m) helps to counter its southerly location, making for milder summers than nearby locations with lower elevations. The sloping nature of the Pajarito Plateau causes cold-air drainage, making the coolest air settle into the valley. The Sangre de Cristo Mountains to the east act as a barrier to arctic air masses affecting the central and eastern United States. The temperature does occasionally drop well below freezing, however. Another factor affecting the temperature in Los Alamos is the lack of moisture in the atmosphere. With less moisture, there is less cloud cover, which allows a significant amount of solar heating during the daytime and radiative cooling during the nighttime. This heating and cooling often causes a wide range of daily temperature.

Winter temperatures range from 30°F to 50°F (-1°C to 10°C) during the daytime to 15°F to 25°F (-9°C to -4°C) during the nighttime. The record low temperature recorded in Los Alamos (as of 1992) is -18°F (-28°C). Winter is usually not particularly windy, so extreme wind chills are uncommon at Los Alamos. Summer temperatures range from 70°F to 88°F (21°C to 31°C) during the daytime to 50°F to 59°F (10°C to 15°C) during the nighttime. Temperatures occasionally will break 90°F (32°C). The highest temperature ever recorded (as of 1992) in Los Alamos is 95°F (35°C).

The average annual precipitation in Los Alamos is 18.73 in. (47.57 cm). The average snowfall for a year is 58.9 in. (149.6 cm). Freezing rain and sleet are rare at Los Alamos. Winter precipitation in Los Alamos is often caused by storms entering the United States from the Pacific Ocean, or by cyclones forming or intensifying in the lee of the Rocky Mountains. When these storms cause upslope flow over Los Alamos, large snowfalls can occur. The snow is usually a dry, fluffy powder, with an average equivalent water-to-snowfall ratio of 1:20.

The summer rainy season accounts for 48% of the annual precipitation. During the July–September period, orographic thunderstorms form when moist air from the Gulf of Mexico and the Pacific Ocean moves up the sides of the Jemez Mountains. These thunderstorms can bring large downpours, but sometimes they only cause strong winds and lightning. Hail frequently occurs from these rainy-season thunderstorms.

Winds in Los Alamos are also affected by the complex topography, particularly in the absence of a large-scale disturbance. There is often a distinct daily cycle of the winds around Los Alamos. During the daytime, upslope flow can produce a southeasterly wind on the plateau. In the evening, as the mountain slopes and plateau cool, the flow moves downslope, causing light westerly and northwesterly flow. Cyclones moving through the area disturb and override the cycle. Flow within the canyons of the Pajarito Plateau can be quite varied and complex.

2.1.5 Plant Communities

The Pajarito Plateau, including the Los Alamos area, is biologically diverse. This diversity of ecosystems is due partly to the dramatic 5,000-ft (1,500-m) elevation gradient from the Rio Grande on the east to the Jemez Mountains 12 mi (20 km) to the west and partly to the many steep canyons that dissect the area. Five major vegetation cover types are found in Los Alamos County: juniper (*Juniperus monosperma* (Engelm.) Sarg.)-savanna, piñon (*Pinus edulis* Engelm.)-juniper, ponderosa pine (*Pinus ponderosa* P.& C. Lawson), mixed conifer, and spruce-fir. The juniper-savanna community is found along the Rio Grande on the eastern border of the plateau and extends upward on the south-facing sides of canyons at elevations between 5,600 to 6,200 ft (1,700 to 1,900 m). The piñon-juniper cover type, generally in the 6,200- to 6,900-ft (1,900- to 2,100-m) elevation range, covers large portions of the mesa tops and north-facing slopes at the lower elevations. Ponderosa pines are found in the western portion of the plateau in the 6,900- to 7,500-ft (2,100- to 2,300-m) elevation range. These three cover types dominate, each occupying roughly one-third of the LANL site. The mixed conifer cover type, at an elevation of 7,500 to 9,500 ft (2,300 to 2,900 m), overlaps the ponderosa pine community in the deeper canyons and on north-facing slopes and extends from the higher mesas onto the slopes of the Jemez Mountains. The subalpine grassland is at higher elevations of 9,500 to 10,500 ft (2,900 to 3,200 m). Twenty-seven wetlands and several riparian areas enrich the diversity of plants and animals found on LANL lands.

The recent Cerro Grande wildfire burned over 42,000 acres of forest on the Pajarito Plateau. On LANL property, roughly one-third of the total area experienced damage from the wildfire. However, less than 10% of LANL property was subject to "moderate" or "high" impact burns as defined by the United States Forest Service fire severity estimates. The majority of the burned area on LANL property has been categorized as a "low" impact burn.

3.0 MSGP DESCRIPTION

3.1 Description of Activities

Storm water discharges from industrial activity at LANL are currently regulated under the NPDES MSGP for Storm Water Discharges Associated with Industrial Activities. The NPDES storm water permitting system regulates storm water point source discharges. Under the MSGP, the development and implementation of SWPPPs is required. LANL has implemented 17 separate SWPPPs to cover nine different industrial activities (Appendix 1). The industrial activities as defined in 65-FR-64746 are

- Sector C, Chemical and Allied Products,
- Sector D, Asphalt batch plants as described in the Asphalt Paving Mixtures category,
- Sector F, Primary Metals,
- Sector K, Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under Subtitle C of the Resource Conservation and Recovery Act (RCRA), including Solid Waste Management Units (SWMUs),
- Sector L, Landfills including those that are subject to regulation under Subtitle D of RCRA,
- Sector N, Scrap Recycling Facilities,
- Sector O, Steam Electric Power Generating Facilities,
- Sector P, Land Transportation and Warehousing, and
- Sector AA, Fabricated Metal Products.

The SWMU SWPPP was developed and implemented because of the potential for storm water transport of pollutants from SWMUs (see definition in Section 3.5). Specifics of the SWMU SWPPP are presented in Section 3.5.

No new construction or operations are proposed in this action. New facilities and projects will be evaluated for effects on T&E species through the ESH Division internal review (ESH-ID) process. The ESH-ID process was designed to assist managers in reviewing projects for compliance with environmental legislation. Additionally, LANL has implemented the NEPA (National Environmental Policy Act), Cultural Resources, and Biological Resources (NCB) Process Laboratory Implementation Requirement (LANL 2000). The purpose of the NCB process is to ensure that all new and modified programmatic and facility activities (1) consider environmental issues in planning, (2) comply with NCB legal requirements, and (3) incorporate measures necessary to mitigate the effects of activities on environmental resources. The requirements address screening of activities, obtaining NCB assessments, implementing mitigation measures, documenting the NCB process, and training. Screening, assessment, mitigation, and documentation requirements are generally accomplished through the ESH-ID process.

3.2 SWPPP Objectives

The major objectives of a SWPPP are to identify sources of pollution potentially affecting the quality of storm water discharges associated with industrial activity from LANL and to ensure implementation of measures to minimize and control pollutants in storm water discharges (65-FR-64746).

The process of preparation and implementation of the SWPPP involves (1) formation of a team of qualified plant personnel who will be responsible for preparing the plan and assisting the plant manager in its implementation, (2) assessment of potential storm water pollution sources, (3) selection and implementation of appropriate management practices and controls, and (4) periodic evaluation of the effectiveness of the plan to prevent storm water contamination.

3.3 SWPPP Requirements

The following sections contain information on the requirements that are applicable to all SWPPPs under MSGP coverage. The Plan requirements are

- establish a Pollution Prevention Team,
- a description of potential pollutant sources,
- a site drainage map,
- inventory of exposed materials,
- record spill events,
- storm water sampling data,
- baseline Best Management Practices (BMPs),
    - good housekeeping,
    - preventive maintenance,
    - spill prevention,
    - inspections,
    - employee training, and
    - record keeping,

- non-storm water discharges,
- sediment & erosion control, and
- storm water management.

3.3.1 Pollution Prevention Team

To facilitate the implementation, maintenance, and revision of a SWPPP, a Pollution Prevention Team must be established for each site subject to site-specific requirements. Teams consist of members from the Facility Management Unit (FMU) responsible for the geographic area where the industrial activity is located, members from the LANL Environmental Restoration (ER) Project, and/or additional members whose selection is based on their familiarity with the location of the industrial activity and surrounding operations.

Team members serve until removed or replaced by the Facility Manager. Each team member will receive SWPPP training as described in Section 3.3.7.5.

3.3.1.1 Duties of Team Members

The duties of the Pollution Prevention Team members are as follows:

Team Leader:	Appointed by the Facility Manager or owning organization. The Team Leader is responsible for the implementation and maintenance of the SWPPP and its associated BMPs for a specific FMU and for overseeing the assigned duties of other team members.
Inspections:	A team member shall be responsible for conducting site inspections. These include periodic evaluations as described in Section 3.3.7.4 and the annual Site Compliance Evaluation detailed in Section 3.4.
Record Keeping:	One member of the team will ensure that inspection documents and other records relating to the SWPPP and storm water pollution control measures are managed in accordance with established document control procedures and forwarded to the appropriate personnel.
Training:	A team member shall ensure that team members, operational site workers, and applicable supervisors receive training in accordance with Section 3.3.7.5.

Plan Revision: Responsibility for SWPPP revision, as outlined in Section 3.4.2, shall be assumed by a team member.

Dependent upon the organization of the Pollution Prevention Team, members may assume multiple responsibilities. Collective responsibilities of all team members include

- implementation of all SWPPP requirements,
- installation and maintenance of recommended BMPs,
- implementation of storm water management controls as described in Section 3.3.7,
- communication of current information to the owner, ER Project and the Water Quality and Hydrology Group (ESH-18),
- review of proposed work in the area of a regulated industrial activity to ensure compliance with the SWPPP,
- proper reporting and record keeping to facilitate the tracking of appropriate corrective actions, and
- completion and documentation of inspections, compliance evaluations, employee training, and plan revisions.

3.3.2 Description of Potential Pollutant Sources

A site-specific form will contain an inventory of the potential pollutants located on site that may be exposed to precipitation. These items include, but are not limited to, bare soil, areas of existing erosion, specific hazardous constituents within the soil, stored waste, and materials or equipment handled at the site. For each identified potential pollutant, structural or nonstructural control measures will be established and the site location and installation date of the measure will be recorded on the form.

3.3.2.1 Risk Identification

The MSGP identifies specific exposure activities as potential pollutant sources. These activities include

- loading and unloading operations,
- outdoor storage of significant materials,
- outdoor processing activities,
- waste disposal,
- waste hauling,
- earth/soil moving,
- vehicle tracking of sediments, and

- significant dust or particulate generation.

These activities will be identified for each industrial activity on the Site-Specific SWPPP Form. The control measure for each activity, along with its site location and installation date will also be recorded.

3.3.3 Site Drainage Maps

Site maps identify potential pollutant sources with respect to property boundaries, buildings, and operation and/or process areas. They also provide information on drainage patterns, storm water and erosion control structures, and receiving streams. These features assist in identifying where pollutants may mix with storm water and in determining storm water management opportunities. Facility site maps are attached to each site-specific form and should include the following features;

- facility boundaries including the location of fences, gates, and SWMU boundaries,
- identification of flows with significant potential for causing erosion,
- identification of the types of pollutants that are likely to be present in storm water discharges,
- an outline of the drainage area for each storm water outfall and a prediction of the direction of flow,
- structural control measures for storm water and erosion control,
- names of the surface water bodies or receiving canyons,
- locations where significant materials are exposed to storm water,
- locations where major spills or leaks have occurred,
- locations of outfalls and types of discharges contained in the drainage areas,
- a prediction of the direction of surface water flow, and
- locations of activities that may be exposed to precipitation. Such activities include loading/unloading areas, vehicle maintenance areas, liquid storage tanks, and locations used for the treatment, storage, or disposal of wastes.

3.3.4 Inventory of Exposed Materials

"Significant materials" as defined in 40 CFR 122.26(b)(12) are substances related to industrial activities such as process chemicals, raw materials, fuels, pesticides, etc. When these substances are exposed to storm water runoff, they may be carried to a receiving stream with the surface water flow. To address this contamination potential, a brief description of the significant materials known to have been disposed at each site will be included on the site-specific form.

When remediation activities are being performed at a site, the listing of other exposed materials may be necessary. Heavy equipment may be in use during excavation activities. The possibility of leaks of diesel fuel, hydraulic fluid, gasoline, and motor oil from heavy equipment will be identified as a potential source, and controls to reduce environmental impacts will be implemented.

3.3.4.1 Spill Events

In the event of a spill, the pertinent information shall be recorded and maintained with the site-specific form. This information includes type of material spilled, approximate quantity of spilled material, the site location of the spill, and the date of action taken to mitigate the spill event. Such information shall be maintained for a period of three years from the date of the event. Section 3.3.7.3 contains additional information on spill prevention and response.

3.3.5 Storm Water Sampling Data

Under the MSGP, the Laboratory is using a drainage basin sampling approach to meet storm water monitoring requirements. Storm water sampling will be conducted by ESH-18's Field Operations Team in accordance with criteria established by LANL and EPA Region VI. A description of the detailed sampling procedures are included in the ESH-18 "LANL NPDES Storm Water Monitoring Plan" (LANL 2001).

Storm water samples will be collected at monitoring stations located within drainages at the Laboratory to meet the requirements of the MSGP and SWPPPs. Industrial activities and SWMUs have been identified "which may reasonably be expected to affect the quality of storm water discharges" as required by Section 4.1.1 of MSGP 2000. This approach will provide data required for the submittal of Discharge Monitoring Reports.

The first sample collection and analytical priority for storm water runoff events will be for compliance monitoring requirements associated with the Laboratory's Storm Water MSGPs (NMR05A734 and NMR05A735). After these sample requirements have been met, the remaining water collected at the monitoring stations will be used to provide information for other programs at the Laboratory including the Environmental Surveillance Program.

The frequency of sample collection will vary based on precipitation amounts and the amount of flow runoff at each station. The NPDES storm water permit requires a minimum of four samples per year during the 2nd and 4th year of the permit, ideally one in each quarter of the year. Most run-off and precipitation events occur in the spring and summer. It is likely that samples from the colder months will be difficult to obtain. See Appendix 1 for a listing of water monitoring stations and the industrial activities located upstream from these stations.

3.3.6 Enhanced Monitoring Network

The enhanced surface water-monitoring network includes monitoring locations existing prior to the development of this plan and the additional monitoring stations identified in the Watershed Management Plan (in preparation). Monitoring stations are located just above the confluence of each major drainage and sub-drainage, and in each drainage at the downstream LANL boundary, or as near as possible. This network design allows for the collection of samples that can be used to 1) characterize the quality of water and assess the presence of contaminants in a main drainage before influence from a sub-drainage, 2) characterize the quality of water and assess the presence of contaminants in a sub-drainage before it enters a main drainage, 3) characterize the quality and quantity of water that may flow onto and off of Department of Energy (DOE) property and, 4) meet DOE Orders for Environmental Surveillance.

Automated surface water samples should be representative of both the sediment load and the mass of contaminants being transported. Sampling stations are equipped, as appropriate, to record water levels of each flow event and to automatically collect water samples from specific flow events. The automated samplers are programmed to collect 1-liter samples at a defined time interval through the duration of the event or until the sampler carousel is full. These samples are then available for time-weighted compositing or use as individual grab samples. Manual sampling may be conducted during flow events that do not trigger the automated samplers. In the future, ESH-18 sampling personnel in conjunction with other interested parties will investigate the need for station-specific requirements for sampling type and frequency.

The data needed from each sample and sampling event are

- total analyte concentration in water,
- dissolved analyte concentration in water,
- analyte concentration in sediment suspended in the water,
- mass of the sediment suspended in the water,
- hydrograph from the event, and

- position on the hydrograph where samples were collected, individual and composite samples.

The Enhanced Monitoring Network will be used to collect information for the Environmental Surveillance Program, the Watershed Management Program, the ER Program, and Earth and Environmental Science Division.

3.3.7 Baseline Best Management Practices

An important element in the development of a SWPPP is identification of appropriate BMPs. BMPs are standard operating and maintenance procedures designed to minimize the potential for spills, exposure of materials, or any other event that could adversely affect the quality of water and sediment transported out of the area by storm water runoff. The EPA has identified several baseline BMPs that should be incorporated into a SWPPP. These include good housekeeping, preventive maintenance, inspections, spill prevention, employee training, and record keeping.

3.3.7.1 Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly environment. These practices are generic items that can be applied to all sites. Practices specifically applicable to the prevention of storm water contamination include

- procedures that specify appropriate operations within a SWMU boundary,
- maintenance of operational areas in a clean and orderly state,
- minimizing soil-disturbing activities,
- minimizing activities that damage or destroy existing vegetation,
- regular inspections to ensure that procedures are properly followed and that no potential contaminants are present in exposed areas, and
- training of employees about good housekeeping practices.

3.3.7.2 Preventive Maintenance

Preventive maintenance shall involve the regular inspection and maintenance of identified equipment, systems, and storm water management devices. For each site, identified devices, equipment, and systems will be recorded on the site-specific form along with an inspection frequency. The preventive maintenance program should also address the appropriate cleaning, repair, or replacement of identified items. Additional guidance on preventive maintenance is provided in the LANL Storm Water BMP Guidance Document (LANL 1998a).

3.3.7.3 Spill Prevention

The Emergency Management and Response (EM&R) Office has been appointed by the Laboratory Director as the organization responsible for Laboratory emergency management. All spills or releases must be reported to the EM&R Office at 667-6211 or, after hours, at 667-7080. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, the EM&R Office will determine to what level the Laboratory's Emergency Management Plan will be activated. In addition, appropriate cleanup procedures and the notification of appropriate individuals or organizations responsible for the completion of appropriate spill reports will be completed.

Two types of spill reporting are required at the Laboratory in the event of a spill: internal reporting and external agency notification. The EM&R Office and ESH-18 in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting. ESH-18 and the responsible organization will keep copies of internal spill reports. External agency notification may consist of verbal or written notification to the National Response Center, EPA Region VI, New Mexico Environment Department (NMED), the New Mexico State Police, or the Los Alamos County Police Department.

3.3.7.4 Inspections

A member of each Pollution Prevention Team shall be responsible for inspecting the sites covered in their Plan. Inspection frequency will vary from site to site depending on the status of ongoing field activity. Frequencies shall be determined by the Pollution Prevention Team or, at a minimum, shall correspond to the intervals and procedures specified in the LANL Storm Water BMP Guidance Document (LANL 1998a). Sites will also be inspected annually in accordance with the Comprehensive Site Compliance Evaluation (see Section 3.4 for additional information). A set of tracking or follow-up procedures shall be established to ensure that appropriate actions are taken in response to all inspections. Records of inspections shall also be maintained.

At a minimum, the following items will be assessed during inspections:

- evidence of excessive erosion in any part of the area,

- condition and function of storm water management and erosion control structures,
- occurrence of non-storm water discharges,
- contact between significant materials and storm water through either exposure or leakage, and
- performance of implemented BMPs and their effectiveness.

Any noted changes or deficiencies must be provided to the Pollution Prevention Team member responsible for the Plan revision and corrective action implementation.

Visual examinations of storm water discharges shall be conducted quarterly for each discharge point covered by the MSGP and the site-specific SWPPP. A grab sample will be collected during daylight hours in a clear, 1-liter, wide-mouth bottle within 30 minutes of discharge if practicable, but no later than one hour after discharge. The sampler will document the reason a sample could not be collected within 30 minutes.

The MSGP Storm Water Visual Inspection Form will be completed following sample parameters described as follows:

Odor – describe any odors that may be observed in the discharge. Caution: any unusual odors should be documented, and sampler shall leave the site immediately.

Color – describe the color of the discharge.

Clarity – Clarity can be described as the depth in which you can look into or through water. For example, an individual can see through a clear glass of clean water in daylight. Generally, the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.

Floating solids – Note any floating solids in the sample. Careful examination should determine whether the solids are raw or waste materials.

Settled solids – Note any settled solids in the sample. Settled solids may be an indicator of unstable ground cover combined with a high-intensity storm water runoff event.

Suspended solids – Note any suspended solids in the sample. Most often suspended solids include fine sediment. This may be an indication of an unstable channel that may have eroding banks. Some water appears to be colored because of relatively coarse particulate material in suspension such as sediment.

Foam – Note an accumulation of fine frothy bubbles formed in or on the surface of water. Describe the color of the foam.

Oil sheen – Note if there is an oil sheen present, the thickness, and consistency.

Other – Describe any other indicators of storm water pollution in addition to the descriptions mentioned above.

Site Observations:

- Note if there are any potential sources of pollutants on site.
- If yes, document potential sources.
- Indicate if there are any BMPs on site.
- If yes, evaluate effectiveness.
- If no BMPs, determine if installation could correct future pollutant migration.

While conducting the visual examinations, the personnel will attempt to relate any pollutant that is observed in the samples to the sources of pollutants that are on the site.

3.3.7.5 Employee Training

Employee training is essential for effective implementation and maintenance of SWPPPs. The objective of the training program is to instill in employees an understanding of the purpose of SWPPPs; to help them recognize situations that could lead to potential storm water contamination; and to provide instruction in proper spill prevention and response, good housekeeping, and materials management practices.

All operational site workers, supervisors, and Pollution Prevention Team members will receive training organized to cover the following topics:

- SWPPP goals,
- spill response and cleanup,
- conducting inspections,
- good housekeeping and material management practices to prevent storm water pollution,
- structures, equipment, and procedures designed to minimize storm water pollution and soil erosion, and
- plan revision requirements.

Training will be conducted at the frequency indicated on the site-specific form or, at a minimum, annually.

3.3.7.6 Record Keeping

Record keeping is an important element in the proper implementation of the SWPPP. Proper record keeping permanently documents spills, maintenance activities, deficiencies, and changes in facility structures or operations. This facilitates the revision of a Plan to reflect current conditions. Accurate reporting also helps in tracking deficiencies, assessing the cause of spills, and in implementing corrective action.

The most important aspect of record keeping is the documentation of all inspections, noting the areas that were inspected, problems that were found, and the actions taken to correct them. Other items that must be documented to ensure adequacy of the SWPPP include

- additions to or changes in operational areas, storage locations, significant materials, or other factors that influence the quality of storm water runoff,
- additions to or changes in storm water management and erosion control structures,
- land surface modifications or other structural changes affecting the direction of drainage or erosion potential during storm events,
- the occurrence and cleanup of any spills or releases,
- areas susceptible to erosion or sedimentation from storm water runoff, and
- sampling and analytical data for storm water, soils, and sediment.

Reports on the visual examination of storm water runoff shall include the examination date and time, inspector, nature of the discharge, visual quality of the discharge, and probable sources of any observed storm water contamination. These reports must be maintained as part of the SWPPP by ESH-18.

The Pollution Prevention Team member responsible for record keeping will ensure that copies of appropriate records will be retained in accordance with established document control procedures. In general, records relating to an SWPPP and storm water pollution control measures shall be retained for three years from the date of action, unless another period is specified.

3.3.8 Non-Storm Water Discharges

Sources of non-storm water that are combined with storm water discharges associated with industrial activity must be identified in an SWPPP. Sites shall be assessed for the presence of non-storm water discharges and each identified discharge will be recorded on the site-specific form. The form will also identify appropriate pollution prevention measures for the non-storm water components of the discharge. Sites will be evaluated for the presence of additional non-storm water discharges during site inspections. If additional discharges are identified, the SWPPP will be revised and appropriate controls will be established.

Reports generated by the Wastewater Stream Characterization Program (NPDES Team of ESH-18) should be referenced to confirm whether non-storm water discharges exist near buildings located adjacent to SWMUs.

Types of permitted Non-Storm Water Discharges at SWMUs are as follows;

- decontamination of sampling equipment/tools,
- dust suppression,
- watering of recently planted vegetation, and
- fire suppression.

3.3.9 Sediment and Erosion Control

A common form of pollutant migration is through erosion and sediment transport. Therefore, the objective of sediment and erosion control is to mitigate existing erosion and minimize transport by retaining sediment on site. Sediment and erosion controls may be either structural or nonstructural in design. Information on the selection, installation, inspection, and maintenance of such controls as silt fence, sediment traps, and seeding is provided in the LANL Storm Water BMP Guidance Document (LANL 1998a). A listing of sediment and erosion controls implemented at a SWMU is provided on the Site-Specific SWPPP Forms.

3.3.10 Storm Water Management

Storm water management includes providing controls for both run-on and runoff as necessary. The effort places an emphasis on preventing contamination of the runoff by minimizing its contact with stored waste, contaminated soil, equipment, and other potentially contaminated items. One method of accomplishing this is to divert run-on/runoff from the locations where such items reside. In general, no attempt will be made to collect, treat, or re-use storm water. Storm water management includes the appropriate contouring of surface areas and the use of control structures such as drainage channels, berms, culverts, and check dams. Canopies, buildings, and other structures can also be used to minimize contact between runoff and potential pollutants.

3.4 Site Compliance Evaluation

The MSGP requires the completion of an annual Comprehensive Site Compliance Evaluation. During this evaluation, the Pollution Prevention Team member responsible for inspections will examine equipment or material storage areas, locations of past or current operational activity, and areas affected by non-storm water discharges within a SWMU. In accordance with the permit requirements, the inspecting individual shall

- inspect storm water drainage areas for evidence of potential contaminants such as
  - exposed materials or wastes,
  - any evidence of spills that may have occurred in the operational areas, and their potential for contributing contamination to runoff, and
  - evidence of erosion and sediment transport,
- evaluate the effectiveness of BMPs,
  - condition and effectiveness of sediment and erosion controls,
  - condition and effectiveness of storm water management structures, and
  - effectiveness of BMPs such as good housekeeping procedures and spill prevention and response measures,
- identify areas that may have been altered by construction or other activities to change the direction of storm water runoff,
- review the adequacy of existing inspection records,
- revise the Plan as needed within two weeks of the inspection and implement corrective action within 12 weeks of the inspection,
- prepare a report summarizing inspection results and follow-up actions, and
- sign the report and keep it with the Plan.

3.4.1 Report on Results of the Site Compliance Evaluation

Based on the results of the Site Compliance Evaluation, the Pollution Prevention Team members, as specified in the plan, will prepare a report describing the results of the inspection. The report will include, as a minimum, the following items:

- personnel who performed the inspection,
- date(s) on which the inspection was performed,
- a written summary of major observations relating to implementation of the SWPPP,
- a summary of all changes made to the SWPPP in accordance with Section 3.4.2,
- a description of any incidents of noncompliance with the SWPPP that were noted during the inspection, and
- actions that should be taken to correct noted deficiencies.

All reports describing the results of the annual comprehensive Site Compliance Evaluation will be retained as part of the SWPPP.

3.4.2 Revision of Storm Water Pollution Prevention Plan

Amendments to the SWPPP will be made whenever inspections identify a change in design, construction, operation, or maintenance procedures that affects the course of storm water discharge or affects the potential for contamination of storm water runoff. Examples of such a change could include changes in the types of operations performed on any of the sites; significant changes in the direction of runoff due to construction or modification of roads, paved pads, buildings, or other structural features; or a change in ownership.

Required revisions to an SWPPP must be made within two weeks after the need for the change is identified. Any necessary changes to operational procedures or structural features must be implemented within 12 weeks of the revision of the Plan.

Table 1 contains a list of events that require modification of the SWPPP, along with the Plan sections that would typically be affected. Table 1 is not conclusive. SWPPP modification may be required for any event that has the potential to significantly affect storm water runoff or sediment transport from a SWMU.

Table 1. Events Requiring Modification of an SWPPP

Event Requiring Modification of the SWPPP	Actions Required to Modify the SWPPP
Change in members or duties of the Pollution Prevention Team.	Amend the list of team members and their duties in the SWPPP.
Significant changes in operational procedures or locations of operations.	Modify map and text sections of the SWPPP to reflect the changes.
Significant changes in industrial activities at a site.	Review to determine whether changes in SWPPP procedures are required; add the new materials to the inventory list in the SWPPP.
Change in drainage area or direction of runoff because of construction or other modifications.	Review changes and modify facility site map as appropriate. Modify text sections.
Changes in erosion and sediment control structures.	Modify facility site map and appropriate text sections.
Changes in storm water management controls.	Modify facility site map and appropriate text sections.
Completion of Comprehensive Site Compliance Evaluation.	Review the entire SWPPP to ensure that it is still accurate and complete; correct any deficiencies found during the Site Compliance Evaluation; document the Evaluation and any follow-up actions.

Table 1. Continued

Event Requiring Modification of the SWPPP	Actions Required to Modify the SWPPP
Receipt of laboratory analytical results for storm water discharge, soil, sediment, or other environmental sampling.	Review to determine whether there are abnormal values for any constituent; take corrective action if appropriate; incorporate the analytical results in the SWPPP.
Spill or leak of waste, water, or other materials at a site.	Document the release and cleanup procedures; incorporate the documentation in the SWPPP.

3.5 SWMU SWPPP

The SWMU SWPPP was developed and implemented because of the potential for storm water transport of pollutants from SWMUs. The LANL SWMU SWPPP describes actions to reduce and/or eliminate the migration of potential pollutants, due to storm water runoff, from a SWMU to "Waters of the US." With respect to LANL, "Waters of the US" are defined as the canyons, streams, rivers, and natural drainages within and surrounding Laboratory TAs. The prevention of pollutant migration will be accomplished through pollutant source reduction, the implementation of BMPs, and remediation activities. BMPs include maintenance procedures, schedules of activities, prohibition of practices, structural controls, and additional applicable management practices.

This SWPPP addresses the SWMUs in LANL's Hazardous Waste Facility Permit. SWMUs fall under the category of Hazardous Waste Treatment, Storage, and Disposal Facilities, which, under the definition of "Industrial Activity," are listed as a regulated activity. The EPA Region VI has provided the following information on the definition of a SWMU and its coverage under the NPDES Storm Water Program:

> Solid Waste Management Unit: Any discernible waste management unit from which hazardous constituents may migrate, irrespective of whether the unit was intended for management of solid or hazardous wastes. The types of units considered SWMUs are landfills, surface impoundments, waste piles, land treatment units, incinerators, injection wells, tanks, container storage areas, waste water treatment systems, and transfer stations. In addition, areas associated with production processes at facilities that have become contaminated as a result of routine, systematic, and deliberate releases of wastes (which may include abandoned or discarded product), or hazardous constituents from wastes,

are considered SWMUs. SWMUs usually meet the definition of industrial activity in 40 CFR 122.26(b)(14)(iv-v), thereby requiring an NPDES storm water permit.

If a SWMU has not received materials from other industrial activities defined in 40 CFR 122.26(b)(14) and is not subject to Subtitle C or D of the RCRA, it may qualify as a non-industrial activity. Additionally, if a SWMU contains only radioactive wastes that are regulated under the Atomic Energy Act (42 USC 201 et seq.), it may be exempt because the definition of "pollutant" (40 CFR 122.2) excludes certain radioactive wastes. However, radioactive waste SWMUs frequently contain other pollutants from industrial activities, thereby subjecting them to the NPDES permitting program. Since the DOE regulates SWMUs containing radioactive wastes, EPA and the DOE then regulate both such sites. At LANL, there are 999 SWMUs on the current RCRA operating permit.

3.5.1 SWMU SWPPP Organization

This SWPPP provides coverage for the SWMUs located within LANL boundaries. To effectively organize the Plan, a general SWMU/SWPPP "umbrella document" of standard language has been developed. All appendices developed to support the umbrella document will be subdivided by ownership and issued to the appropriate FMU.

Based on their potential to contribute pollutants to storm water runoff, SWMUs are segregated into categories. Several categories require no BMPs, and no additional requirements are proposed in the Plan. For the remaining categories, BMPs range from generic controls to site-specific requirements. Those sites requiring site-specific BMPs are subject to the SWPPP requirements described in Section 3.3. To fulfill these requirements, a Site-Specific SWMU/SWPPP Form has been created. The site-specific forms provide a description of the potential pollutants and controls implemented at each site. The forms will be maintained separately as pending files to this plan until the SWMU is either remediated or removed from the RCRA operating permit.

3.5.2 Cerro Grande Wildfire Amendment

In May 2000, the Cerro Grande wildfire burned approximately 50,000 acres in northern New Mexico, including approximately 7,500 acres within LANL. The fire damaged or destroyed many BMPs and left many slopes around and within LANL devoid of vegetation, creating an increased potential for significant erosion and flooding.

Immediately following the fire, ER Project personnel performed site visits to all SWMUs located within the burn area to determine the degree of fire impact. Personnel identified 308 SWMUs impacted by the fire. Assessments of the 308 sites were completed by the ER Project and NMED personnel and it was determined that 91 of the 308 sites required replacement of existing BMPs or the implementation of new or additional structural BMPs.

The SWMU SWPPP has been amended to reflect the change in site conditions, the potential for increased flows across a site, and the additional number of sites with BMPs. Site maps and descriptions have been amended as necessary and site-specific forms have been created for the 91 burned SWMUs requiring BMPs. The SWPPP appendices have also been modified or additional appendices have been created to reflect the changes caused by the Cerro Grande fire.

3.5.3 Plan Implementation

The Laboratory's Storm Water Team with ESH-18 will be the custodian of the SWPPP umbrella document. They will assist Facility Managers to assure that specific requirements are met in a timely manner. The team will use existing databases and procedures to support the implementation of the SWPPP.

3.5.4 Surface Water Site Assessments

Surface Water Site Assessments describe the process for determining whether a site has the potential to adversely affect surface water quality. This evaluation process has been or will be applied to all SWMUs that are in the current Hazardous and Solid Waste Amendments Module VIII permit. This process is a two-part evaluation.

Part A of the procedure addresses both current and historic Laboratory operations that are known to have occurred at the site, the potential or probable constituents of concern for this site, and the status of work or actions taken at the site. Completion of Part A shall use only existing information and/or data that are available for the Potential Release Site (PRS) of interest.

Information/data were provided that reflected only current ambient site field conditions that are above detection limits or background upper tolerance limit values. Information/data are only for surface soils and sediments of less than 12 in. (30.5 cm) in depth.

Part B of the procedure involves evaluating the erosion/sediment transport potential at each site using a predeveloped field assessment form. The information collected is used to rate the erosion potential of each site using a matrix system. Two-person teams were organized to perform the assessments based on field observations. Erosion potential factors are broken into three categories: 1) Site Setting, 2) Runoff Factors, and 3) Run-on Factors. Once the field assessment is completed, an erosion matrix score is calculated and is used as a site prioritization tool.

A number of SWMUs require the completion of a Surface Water Site Assessment before further action can be taken. Once the evaluation has been completed, these sites will be reviewed as described in the following section.

3.5.5 Surface Water Assessment Team (SWAT)

A SWAT, comprised of ER Project, ESH-18, DOE Oversight Bureau, NMED Surface Water Quality Bureau, and facility representatives has been organized to evaluate the completed Surface Water Site Assessments.

The existing analytical data for each site were reviewed (Part A) to determine whether contaminants of potential concern had the potential to impact a nearby watercourse. To ensure the worst sites are evaluated first, the SWAT prioritized sites scoring the highest on the (Part B) assessments. The ability of the SWAT to efficiently evaluate a site is directly dependent upon the entire PRS documentation to date. SWAT meetings have been held monthly to evaluate completed assessments.

3.5.5.1 SWAT Findings and Recommendations

The SWAT began meeting to review the results of completed evaluations in November of 1997. The goal of the team is to identify the sites with the highest erosion potential and to make appropriate recommendations for controlling sediment migration.

For sites where the Part B score is higher than 40, the SWAT has completed an evaluation to assess the site for potential sediment/contaminant migration and to prioritize potential corrective actions for the site. The SWAT then communicates their findings to the appropriate landlord/owner for implementation.

To date, 240 SWMUs have been evaluated by the SWAT, including all sites scoring greater than 40 on the Part B assessments. The recommendations vary from site to site, depending on the amount of information that is available. Typical SWAT recommendations include

- providing run-on controls,
- providing erosion/sediment migration controls,
- assuring that the site has been finally stabilized,
- removing debris from a watercourse,
- remediating the site,
- providing missing relevant information, and

- collecting more analytical information.

If the SWAT does not recommend BMPs, the site will require generic BMPs consisting primarily of good housekeeping procedures and shall continue, as necessary, to be evaluated for other possible unacceptable environmental risks such as human health and ecological risks. If the SWAT recommends a BMP, the site will have a Site-Specific SWPPP Form.

SWAT recommendations are tracked from beginning to end by ESH-18 and the ER Project. This plan provides a mechanism for documenting the status of SWAT findings and recommendations for SWMUs regardless of the erosion potential.

4.0 CURRENT LEVELS OF ENVIRONMENTAL INFLUENCE

4.1 Land Use

The primary purpose of the MSGP is to reduce the potential for contaminant transport from industrial activities during storm water runoff. LANL has implemented 17 separate SWPPPs to cover nine different industrial activities (see Section 3.1).

4.2 Environmental Restoration and Contaminants

Risk assessments have been conducted on all federally-listed T&E species found on LANL property (Gallegos et al. 1997, Gonzales et al. 1997, 1998a, 1998b). Estimated doses were compared against toxicity reference values to generate hazard indices (HIs) that included a measure of cumulative effects from multiple contaminants (radionuclides, metals, and organic chemicals). Assessments included soil ingestion pathways and food consumption pathways (with bioaccumulation and biomagnification factors for some contaminants). Assessment results indicate no appreciable impact to T&E species under current baseline conditions.

4.3 Air Quality

There are no documented or known air quality issues associated with the MSGP reissuance relative to T&E species.

4.4 Surface Water and Wetlands

Surface water in the Los Alamos area occurs primarily as ephemeral or intermittent reaches of streams. Perennial springs on the flanks of the Jemez Mountains supply base flow into upper reaches of some canyons, but the volume is insufficient to maintain surface flows across the LANL site before they are depleted by evaporation, transpiration, and infiltration. Runoff from heavy thunderstorms or heavy snowmelt reaches the Rio Grande several times a year in some drainages. Runoff intensity and duration have increased in most watersheds burned in the Cerro Grande fire. Effluents from sanitary sewage, industrial waste water treatment plants, and cooling-tower blowdown enter some canyons at rates sufficient to maintain surface flows for varying distances. Runoff and effluent discharge support wetlands in Bayo, Los Alamos, Sandia, Mortandad, and Pajarito canyons.

4.5 Noise

There are no documented or known noise issues associated with the MSGP reissuance relative to T&E species.

5.0 POTENTIAL EFFECTS OF MSGP REISSUANCE

5.1 Land Use

Relative to potential effects of T&E species, no new land uses will result from this action nor will there be significant increases in traffic volume.

5.2 Environmental Restoration and Contaminants

Potential contaminant release and subsequent bioaccumulation and biomagnification pose the greatest environmental threat associated with storm water runoff. Table 2 contains EPA benchmark limits for potential contaminants in storm water associated with regulated industrial activities. These limits are assumed protective of T&E species.

Preliminary risk assessments have been conducted on all federally-listed T&E species found on LANL property (Gallegos et al. 1997, 1998a, 1998b). Estimated exposure doses to the eagle for radionuclide, inorganic metal, and organic contaminants were derived for varying ratios of aquatic vs terrestrial simulated diet and compared against toxicity reference values to generate HIs. HI results indicate that no appreciable impact to the bald eagle (*Haliaeetus leucocephalus*) is expected from contaminants at LANL from soil ingestion and food consumption pathways. This includes a measure of cumulative effects from multiple contaminants. Estimated doses to the southwestern willow flycatcher (*Empidonax trailii extimus*) were compared against toxicity reference values to generate HIs. This assessment included a measure of cumulative effects from multiple contaminants (same suite as for the bald eagle) to 100 simulated nest sites within flycatcher potential habitat. The exposure was estimated around the potential habitat and based on the maximum home range for the flycatcher identified in the scientific literature. HI results indicate no appreciable impact is expected to the southwestern willow flycatcher from soil ingestion and food consumption pathways. A spatially-weighted foraging regime was used to estimate doses from multiple contaminants (same suite as before) to the Mexican spotted owl (*Strix occidentalis lucida*). HI results, including a measure of cumulative effects, indicated that there was not an unacceptable risk to the owl from soil ingestion and food consumption pathways. Since reissuance of the MSGP and associated SWPPP will reduce overall contaminant levels in storm water, future risk of contaminant exposure should be even less than current levels.

Table 2. EPA Storm Water Quality Standards

Target Analyte	Applicable EPA Standard
Aluminum, total recoverable	0.75 mg/l
Ammonia	19 mg/l
Arsenic, total recoverable	0.16854 mg/l
Cadmium, total recoverable	0.0159 mg/l
Chemical Oxygen Demand	120 mg/l
Copper, total recoverable	0.0636 mg/l
Cyanide, total recoverable	0.0636 mg/l
Iron, total recoverable	1.0 mg/l
Lead, total recoverable	0.0816 mg/l
Magnesium, total recoverable	0.0636 mg/l
Mercury, total	0.0024 mg/l
Nitrate + Nitrite Nitrogen	0.68 mg/l
Oil and Grease	15 mg/l
Selenium, total recoverable	0.2385 mg/l
Silver, total recoverable	0.0318 mg/l
Total Kjeldahl nitrogen	**1.5**
Total suspended solids	100 mg/l
Zinc, total recoverable	0.117 mg/l

5.3 Air Quality

Relative to impacts to T&E species, there will not be a reduction in air quality due to reissuance of the MSGP.

5.4 Surface Water and Wetlands

Reissuance of the MSGP should not negatively alter current surface water and wetland conditions at LANL. Implementation of BMPs should improve storm water quality.

5.5 Noise

Reissuance of the MSGP should not alter current noise levels.

6.0 FEDERALLY THREATENED AND ENDANGERED SPECIES

6.1 Habitat Management Plan (HMP) Screening

The LANL HMP (LANL 1998b) is a document prepared by the Ecology Group (ESH-20) as part of the Dual-Axis Radiographic Hydrodynamic Test Facility Mitigation Action Plan. The purpose of the HMP is to provide for the protection of T&E species and their habitats on LANL. The HMP is designed to be a comprehensive landscape-scale management plan that will balance the current operations and future development needs of LANL with the habitat requirements of T&E species and facilitate DOE compliance with the Endangered Species Act (ESA) and related federal regulations.

The HMP defines site plans and monitoring plans for T&E species that occur or may occur on LANL. Currently, there are site plans for each of the following T&E species occurring or potentially occurring at LANL: bald eagle, southwestern willow flycatcher, and Mexican spotted owl. As of August 25, 1999, the American peregrine falcon (*Falco peregrinus anatum*) and arctic peregrine falcon (*Falco peregrinus tundrius*) were officially delisted by the USFWS. This information was provided to the EPA on December 2, 1999.

The purpose of site plans is to provide guidelines that ensure LANL operations do not adversely affect these species or their habitats. Suitable habitats for these species, along with a protective buffer area surrounding the habitats, have been designated as Areas of Environmental Interest (AEIs). Site plans provide information on the location of AEIs and guidelines for their management. AEIs are areas within LANL that are being managed and protected because of their significance to biological or other resources. In general, a T&E species AEI consists of a core area that contains important breeding or wintering habitat for a specific species and a buffer area around the core area. The buffer protects the core area from disturbances that would degrade the value of the core area to the species. AEI core areas were defined geographically based on the habitat requirements of the T&E species. Defining AEIs was a multi-step process that included a literature review, development of a land cover map, species surveys, data and technical reviews from regional species experts, guidance from state and federal regulatory agencies, and output from habitat suitability models. Buffer zones were established around each core zone based on regulatory guidance and literature information on species' reactions to disturbance.

Site plans identify the particular areas of LANL where operations might impact T&E species. They describe a broad list of activities, which, if they are conducted in accordance with the guidelines in the site plan, will not adversely affect T&E species. Current ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. By providing this information in site plans, the HMP reduces the number of projects and activities that need to be individually reviewed for compliance with the ESA. If an activity or project is occurring outside of all LANL AEIs and will not impact habitat within the AEI, it does not have to be reviewed for ESA compliance unless it is a large project. Projects over 5 ac (2 ha) in size or costing more than $5 million require an individual ESA compliance review even if they are not located in an AEI. Before the existence of the HMP, all LANL projects and activities required individual review for compliance with the ESA. Projects and activities that had the potential to affect T&E species or their habitats required biological assessments and concurrence from the USFWS before they could proceed.

6.2 ArcView© Database Review

ESH-20 biologists have developed a screening tool that is operated through the desktop geographic information system (GIS), ArcView© (Foxx et al. 1996). Information on AEIs, plant cover types, disturbed/developed areas, storm water gauging stations and SWMUs is accessible in the ArcView© program. The visual and spatial formats of the data allow ESH-20 personnel to identify potential T&E species habitat and to evaluate the potential impact of the proposed action. With this program, we determined the land cover types, a list of federally-protected species that use those land cover types, and known locations of federally-listed species within the project area and associated zones of influence. In addition, we obtained information from previous studies or surveys conducted in the same area. Maps and tables from databases were generated from the GIS application. All data used for the screening are maintained in an ARC-INFO© GIS database.

6.3 Regional Lists

Table 3 presents the list of T&E species potentially occurring on the Pajarito Plateau, Los Alamos County.

Table 3. T&E Wildlife Species Potentially Occurring on the Pajarito Plateau

Scientific Name	Common Name	Status*	Habitat	Potential To Occur®
Grus americana	Whooping crane	FE (Ex)	Rivers, marshes, and swamps.	Low
Mustela nigripes	Black-footed ferret	FE	Prairie dog towns greater than 80 ac. (32 ha).	Low
Haliaeetus leucocephalus	Bald eagle	FT	Permanent rivers, lakes, and large streams; cliffs or large trees.	Moderate
Empidonax trailii extimus	Southwestern willow flycatcher	FE	Riparian areas with stands of willow, buttonbush, or tamarisk.	Low
Strix occidentalis lucida	Mexican spotted owl	FT	Forested mountains and canyons. Generally uneven-aged, multistoried forest with closed canopy.	Moderate

*CODES FOR LEGAL STATUS
FE = federally endangered
FT = federally threatened
FE (Ex) = federally endangered, but New Mexico population is an experimental nonessential population

®POTENTIAL TO OCCUR
Moderate = the area has some species habitat components
Low = the area does not have species habitat components

6.4 Status of Species

Table 4 lists the population trends of the T&E species potentially occurring in or near LANL. Three of the species (bald eagle, southwestern willow flycatcher, and Mexican spotted owl) are recognized by the HMP as occurring on LANL and require an assessment relative to the potential effects of the MSGP reissuance. The whooping crane and black-footed ferret were determined not to have suitable habitat on LANL property and will not require detailed evaluation. Habitat requirements and survey methods for all species will be discussed in the following sections.

6.5 Species not included in the HMP

The whooping crane and black-footed ferret are listed by the USFWS as threatened and endangered in the State of New Mexico but have no suitable habitat on or near LANL. These species have not been included in the HMP site plans and do not require a detailed assessment.

Table 4. Population Trends of Federally-Listed T&E Species

Species	Current Legal Status	Regional Trends	State Trends	Local Trends
Whooping crane *Grus americana*	Federally Endangered	Historically, entire populations numbered only 1,300 to 1,400 individuals. In 1941, only 21 birds were known. In 1987-1988, wintering wild populations stood at 153 birds.	The experimental Rocky Mountains flock that winters in New Mexico peaked at 33 birds but, because pairing and reproduction never occurred, the experiment concluded in 1989. The flock has since dwindled to fewer than five birds (NMDGF 2001).	Whooping cranes and sandhill cranes follow the Rio Grande during migration. However, there are no reports of cranes using LANL property.
Black-footed ferret *Mustela nigripes*	Federally Endangered	In 1992, the black-footed ferret was listed as the rarest mammal in North America. In 1981, a remnant population in northwest Wyoming was removed for captive breeding and reintroduction. Reintroduction has begun in Wyoming, Montana, and South Dakota (Finch 1992).	Last reported in New Mexico in 1934 (Frey and Yates 1996). If any animals survive, the northwestern part of the state is the most likely area (Findley et al. 1975).	No reported sightings of black-footed ferrets in Los Alamos County for at least the last 50 years. In addition, no large prairie dog towns have been observed on LANL lands.
Bald eagle *Haliaeetus leucocephalus*	Federally Threatened	South of Canada bald eagles declined drastically in numbers and range. Some US populations have recovered in recent years (NMDGF 2001).	Numbers of wintering bald eagles have increased in recent years averaging about 430 birds per year during 1990-1994 (early 1980s, 220 birds). There are only two known nesting pairs in the state (NMDGF 1994).	Since 1979, average winter counts near Cochiti area have doubled. As total counts have increased, the number of bald eagles using areas farther upstream has increased. Surveys in March 1992 were conducted for roost tree use on LANL lands. This survey indicated occasional bald eagle use of trees near the mouths of Water and Chaquehui canyons (Keller et al. 1996).
Southwestern willow flycatcher *Empidonax traillii extimus)*	Federally Endangered	300 to 500 breeding pairs remain (USFWS 1995a).	1993-95 surveys found 100 breeding pairs and 75% occurred in a local area. Surveys and data gathered in 1987, 1991, and 1994 suggest the population is declining (NMDGF 1994).	Willow flycatcher surveys have been conducted at LANL and Bandelier National Monument since 1995. Willow flycatchers have been detected, but no nesting flycatchers have been found. Willow flycatchers have been found nesting along the Rio Grande in Española (Keller et al. 1996).
Mexican spotted owl *Strix occidentalis lucida*	Federally Threatened	In 1993, 2,160 owls existed and now 20% of owl habitat has been rendered no longer suitable (50-FR-14248).	In 1994, 250 to 300 territories occupied (NMDGF 1994).	Surveys for Mexican spotted owls have been conducted on LANL property since 1994. In 1995 a pair of Mexican spotted owls was located as well as a nest. Each year the nest has been occupied and resulted in two young fledged per year (Keller et al. 1996).

6.5.1 Whooping Crane

6.5.1.1 Habitat Description

The whooping crane nests along the marshy areas among bulrushes, cattails, and sedges that provide food and protection from predators. Cranes eat snails, larval insects, leeches, frogs, minnows, small rodents, and berries. They may scavenge dead ducks, marsh birds, or muskrats. During migration, they stop to eat aquatic animals, roots of plants, and waste grain in stubble fields.

In late April, cranes arrive at their breeding area in Wood Buffalo National Park, which extends into northeast Alberta Canada from the Northwest Territory. By the end of September, the cranes leave for the 2,485-mi (4,000-km) flight south to the Aransas National Wildlife Refuge in Texas. The whooping crane is classified as an endangered species in both Canada and the United States. Currently, the only wild breeding population of whooping cranes migrates between Wood Buffalo National Park in the Northwest Territories and Aransas National Wildlife Refuge in Texas (NMDGF 1999).

An effort to create a wild flock with an alternate migratory route was initiated in 1975, using sandhill cranes as "foster parents." Whooping crane eggs were placed in the nests of sandhill cranes on their nesting grounds at the Grays Lake National Wildlife Refuge in Idaho. The sandhill cranes reared the chicks as their own, teaching them feeding habitats and showing them a new 850-mi (1,368-km) migratory path to the Bosqué del Apache National Wildlife Refuge in New Mexico. Unfortunately, these whooping cranes became so accustomed to their sandhill parents that they would not mate with other whooping cranes. The birds from this unsuccessful experiment are expected to be the only occurrences of this species in New Mexico.

6.5.1.2 Survey Methods

Whooping cranes are surveyed at the beginning and end of their migrational routes in Idaho and New Mexico. A proposed project in suitable habitat is screened before the project begins if that project occurs during the fall or spring migration.

6.5.1.3 Results

Most of the suitable whooping crane habitat in Los Alamos and Santa Fe counties occurs along the Rio Grande. Although there has been no ecological risk assessment for the whooping crane, a preliminary risk assessment for the bald eagle, which is also closely tied to the aquatic food chain, identified no significant risk. The reissuance of the MSGP will not alter background environmental conditions for the whooping crane. Therefore, the proposed action should have no detrimental impact on the whooping crane.

6.5.2 Black-footed Ferret

6.5.2.1 Habitat Description

The black-footed ferret has a historical range that includes 12 states (Arizona, Colorado, Kansas, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, and Wyoming) and the Canadian provinces of Alberta and Saskatchewan. There is prehistoric evidence of this ferret occurring from the Yukon Territory in Canada south to New Mexico and Texas (Anderson et al. 1986). Black-footed ferrets depend almost exclusively on prairie dogs for food and shelter (NMDGF 1999). Ferret range is coincident with that of prairie dogs (Anderson et al. 1986), with no documentation of black-footed ferrets breeding outside of prairie dog colonies. There are specimen records of black-footed ferrets from ranges of three species of prairie dogs: the black-tailed prairie dog (*Cynomys ludovicianus*), white-tailed prairie dog (*Cynomys leucurus*), and Gunnison's prairie dog (*Cynomys gunnisoni*) (Anderson et al. 1986). Only prairie dog colonies with a combined area greater than 80 ac (32 ha) are large enough to support black-footed ferrets.

6.5.2.2 Survey Methods

The black-footed ferret is surveyed by spotlighting prairie dog towns at night. The perimeters of the prairie dog town are marked with wooden stakes with reflective tape. The researcher spotlights the prairie dog town for 20 minutes, turns the light off for 20 minutes, then repeats the light survey. Spotlighting has been carried out from both stationary locations and from moving vehicles. Where possible ferret sign was sighted, cameras were used for verification. In general, camera systems include an infrared movie camera with a trip-release tied to bait (prairie dog or chicken) and several time-lapse movie cameras with a chicken or prairie dog bait wired to a nearby stake.

6.5.2.3 Results

There are no prairie dog colonies of the appropriate size in Los Alamos County. The reissuance of the MSGP should have no detrimental impact on the black-footed ferret.

6.6 Species included in the HMP

The bald eagle, southwestern willow flycatcher, and Mexican spotted owl have potential suitable habitat on or near LANL. These species require a HMP-based screening assessment and impact assessment decision.

6.6.1 Bald Eagle

6.6.1.1 Habitat Description

Bald eagles occur casually to occasionally in summer and during migration in New Mexico. Bald eagles winter almost statewide. Main wintering areas in New Mexico include the San Juan, upper Rio Grande, upper and middle Pecos, Canadian, San Francisco, Gila, and Estancia valleys (Hubbard 1978). At LANL, bald eagles winter along White Rock Canyon adjacent to the Rio Grande. Some of these eagles remain in the area through winter while others move around.

Bald eagles are carnivores and piscivores. They winter beside rivers and lakes or where carrion is available (Isaacs et al. 1993). The birds typically roost at night in trees that offer weather protection, security from predators, and accessibility to foraging areas. At LANL, they may roost overnight in ponderosa pine trees located in the lower portions of the tributary canyons near the Rio Grande (Johnson 1996), particularly near the mouths of Water, Ancho, Potrillo, and Chaquehui canyons. Bald eagles also use snags close to foraging areas as loafing sites, lookout posts, and hunting/hawking perches (Maser et al. 1988).

Overall, the major food items of bald eagles in New Mexico appear to be waterfowl, fish, and carrion (NMDGF 1988). Mammals such as jackrabbits (*Lepus* spp.) are also taken, especially by dry-land eagles. Eagles occurring around LANL will forage on the Rio Grande, Cochiti Lake, and the Pajarito Plateau (Johnson 1996). Diet analysis of eagles wintering along White Rock Canyon include fish, waterfowl, deer (*Odocoileus hemionus*), and elk (*Cervus elaphus*). The wetland habitat above Cochiti Reservoir has expanded since 1979, providing suitable habitat for fish, wintering waterfowl, and bald eagles (Allen et al. 1993).

6.6.1.2 Survey Methods

Roosting counts will be conducted by trained personnel along the Rio Grande portions of LANL during late-winter months. Roosting counts provide the most effective way to census wintering bald eagles, which tend to congregate at regular roosts (Johnson 1996). Collection of castings and other prey remains under roost trees provide the most comprehensive picture of diet, but under-represent the absolute proportion of fish in the diet. These late-winter surveys of suitable roost trees for accumulated castings, feathers, and droppings have proven to be the most efficient method of documenting occasional use of trees for roosting and perching.

6.6.1.3 Results

All of LANL is considered potential bald eagle foraging area. The Bald Eagle AEI includes the mouths of several ephemeral drainages that cross LANL property.

6.6.1.4 Environmental Protective Measures

All activities related to this project will be performed within the restrictions and guidelines specified by the LANL HMP (LANL 1998b). Section 3.0 decribes the extensive measures that are taken to characterize, remediate, stabilize, and monitor storm water runoff. Reissuance of the MSGP should reduce the potential for contaminant transport in storm water runoff.

6.6.1.5 Cumulative Effects

The USFWS Section 7 Consultation Handbook defines cumulative effects as those effects of future State or private activities, not involving federal activities, which are reasonably certain to occur within the action area of the federal action subject to consultation. The entire action area (LANL) is administered as a federal entity. There are no anticipated non-federal activities that will contribute to a cumulative impact to T&E species within the action area.

Bald eagles forage primarily along the Rio Grande and its major tributaries. Although outside the official action area, there is a possibility of sources upstream from LANL contributing to the contaminant load of the bald eagle. A summary of long-term (1981–1993) radionuclide trends in game and nongame fish showed no upward trends in radionuclide contents from Cochiti reservoir (Fresquez et al. 1994). A recent study of trace elements, with special reference to mercury, in fish collected upstream and downstream of LANL found that trace elements were not significantly different in downstream or upstream samples. However, mercury levels were significantly higher in upstream samples than in downstream samples (Fresquez et al. 1999). Further comparisons with data in the Environmental Surveillance Report (LANL 1999) show no obvious increase in radionuclides from 1993 to 1998.

The recent Cerro Grande wildfire, which began on May 5, 2000, burned over 42,000 acres on the Pajarito Plateau. Much of the burned area is located in the watersheds above LANL property. There will likely be an increase in storm water runoff in the canyons that transect LANL property. There is also a potential for contaminant transport to increase across LANL property. LANL scientists are involved in post-fire contaminant monitoring programs and will continue these activities. The goal of these programs is to document and actively mitigate against increases in contaminant transport within bald eagle habitat.

6.6.1.6 Evaluation Results

EPA and the USFWS have agreed that permit coverage is only available if the effects of storm water discharges, allowable non-storm water discharges, and discharge-related activities result in no jeopardy to listed species and habitats. Allowable storm and non-storm water discharge are contaminant concerns, which are addressed in the LANL SWPPPs. The EPA defines discharge-related activities as activities which cause, contribute to, or result in storm water point source pollutant discharges; and measures to control storm water discharges including the siting, construction, and operation of BMPs to control, reduce, or prevent storm water pollution. These activities constitute new projects and would be reviewed for ESA compliance through the ESH-ID process. For the purposes of this document, discharge-related activities are those related to storm water monitoring, and these activities are subject to HMP guidelines.

Current storm water conditions at LANL constitute a baseline condition and, according to the best available information, do not pose a threat to the bald eagle. The reissuance of the MSGP and implementation of the LANL SWPPPs should further reduce baseline storm water contaminant levels on LANL. Preliminary ecorisk analyses did not identify any significant risk of contaminant effects to the bald eagle (Gonzales et al. 1997, 1998a) under current conditions. Reissuance of the MSGP should have no detrimental impact to the bald eagle.

6.6.2 Southwestern Willow Flycatcher

6.6.2.1 Habitat Description

The southwestern willow flycatcher is one of four subspecies of the willow flycatcher. The historic range of the southwestern willow flycatcher included Arizona, California, Colorado, New Mexico, Texas, Utah, and Mexico. Currently, this flycatcher breeds in riparian habitats from southern California to Arizona and New Mexico, plus southern Utah and Nevada. In winter it is found in southern Mexico, Central America, and northern South America.

Willow flycatchers are present in New Mexico from early May through mid-September, and breed from late May through late July. The flycatcher's nesting cycle is approximately 28 days. Three or four eggs are laid at one-day intervals, and incubation begins when the clutch is complete (Walkinshaw 1966). The female incubates eggs for approximately 12 days, and the young fledge about 13 days after hatching (King 1955). Southwestern willow flycatchers typically raise one brood per year.

The southwestern willow flycatcher only nests along rivers, streams, and other wetlands. It is found in close association with dense stands of willows (*Salix* spp.), arrowweed (*Pluchea* spp.), buttonbush (*Cephalanthus* spp.), tamarisk (*Tamarix* spp.), Russian olive (*Elaeagnus angustifolia* L.), and other riparian vegetation, often with a scattered overstory of cottonwood (Phillips 1948, King 1955, Zimmerman 1970, Hubbard 1987, Unitt 1987, Brown and Trosset 1989, Finch 1992, USFWS 1995a). The size of vegetation patches or habitat mosaics used by southwestern willow flycatchers varies considerably and ranges from as small as 2 ac (0.8 ha) to several hundred hectares. The southwestern willow flycatcher nests in thickets of trees and shrubs approximately 6.5 to 50 ft (2 to 15 m) tall, with a high percentage of canopy cover and dense foliage from 0 to 13 ft (0 to 4 m) above ground. Regardless of the plant species composition or height, occupied sites always have dense vegetation in the patch interior (Sogge et al. 1997).

The southwestern willow flycatcher is an insectivore. It forages within and occasionally above dense riparian vegetation, taking insects on the wing and gleaning them from foliage (USFWS 1995a). The flycatcher's prey includes flies, bees, wasps, ants, beetles, moths, butterflies, grasshoppers, crickets, dragonflies, damselflies, and spiders (NMDGF 1999).

6.6.2.2 Survey Methods

Surveys are conducted in the core areas of the Southwestern Willow Flycatcher AEI. A minimum of one survey is conducted during each of the following survey periods: May 15 to May 31, June 1 to June 21, and June 22 to July 10. Surveys must be at least five days apart. The surveys will start at first light and continue until the entire AEI has been surveyed.

This protocol is primarily a tape-playback survey. At each site, surveyors broadcast recorded vocalizations of southwestern willow flycatchers. Sogge et al. (1997) describe the survey methods in detail. If a flycatcher is found, its behavior is observed and recorded to determine if the individual is nesting in the area.

6.6.2.3 Results

Southwestern willow flycatcher habitat is found in Pajarito Watershed and does receive storm water inputs from United States Forest Service and LANL lands.

6.6.2.4 Environmental Protective Measures

All activities related to this project will be performed within the restrictions and guidelines specified by the LANL HMP (LANL 1998b). Section 3.0 describes the extensive measures that are taken to characterize, remediate, stabilize, and monitor storm water runoff. Reissuance of the MSGP should reduce the potential for contaminant transport in storm water runoff.

6.6.2.5 Cumulative Impacts

The USFWS Section 7 Consultation Handbook defines cumulative effects as those effects of future State or private activities, not involving federal activities, which are reasonably certain to occur within the action area of the federal action subject to consultation. The entire action area (LANL) is administered as a federal entity. There are no anticipated non-federal activities that will contribute to a cumulative impact to T&E species within the action area.

Pajarito Canyon is the only location on LANL where southwestern willow flycatchers have been recorded. Potential non-LANL sources of contaminants would be United States Forest Service property in upper Pajarito Canyon. No violations to state water quality standards were reported in the current Environmental Surveillance Report (LANL 1999) for Pajarito Canyon.

Much of burned area of the recent Cerro Grande wildfire is in the watersheds above LANL property. There has been an increase in storm water runoff in the canyons that transect LANL property. There is also a potential for contaminant transport to increase across LANL property. LANL scientists are involved in post-fire contaminant monitoring programs and will continue these activities. The goal of these programs is to document and actively mitigate against increases in contaminant transport within southwestern willow flycatcher habitat.

6.6.2.6 Evaluation Results

EPA and the USFWS have agreed that permit coverage is only available if the effects of storm water discharges, allowable non-storm water discharges, and discharge-related activities result in no jeopardy to listed species and habitats. Allowable storm and non-storm water discharge are contaminant concerns, which are addressed in the LANL SWPPPs. The EPA defines discharge-related activities as activities which cause, contribute to, or result in storm water point source pollutant discharges; and measures to control storm water discharges including the siting, construction, and operation of BMPs to control, reduce, or prevent storm water pollution. These activities constitute new projects and would be reviewed for ESA compliance through the ESH-ID process. For the purposes of this document, discharge-related activities are those related to storm water monitoring, and these activities are subject to HMP guidelines.

Current storm water conditions in the Southwestern Willow Flycatcher AEI constitute a baseline condition and, according to the best available information, do not pose a threat to the flycatcher. The reissuance of the MSGP and implementation of the LANL SWPPPs should further reduce baseline storm water contaminant levels on LANL. Preliminary ecorisk analyses did not identify any significant risk of contaminant effects to the southwestern willow flycatcher (Gonzales et al. 1998b). Reissuance of the MSGP should have no detrimental impact to the southwestern willow flycatcher.

6.6.3 Mexican Spotted Owl

6.6.3.1 Habitat Description

The Mexican spotted owl is found in northern Arizona, southeastern Utah, and southwestern Colorado south through New Mexico, west Texas, and into Mexico. It is the only subspecies of spotted owl recognized in New Mexico (USFWS 1995b). The Mexican spotted owl generally inhabits mixed conifer and ponderosa pine-Gambel oak forests in mountains and canyons. High canopy closure, high stand diversity, multilayered canopy resulting from an uneven-aged stand, large mature trees, downed logs, snags, and stand decadence as indicated by the presence of mistletoe are characteristic of Mexican spotted owl habitat. Some spotted owls have been found in second-growth, i.e., younger forests that have been logged; however, these areas were found to contain characteristics typical of old-growth forests. No spotted owls were found in forests less than 36 years of age (USFWS 1995b). Mexican spotted owls in the Jemez Mountains seem to prefer cliff faces in canyons for their nest sites (Johnson and Johnson 1988). The recovery plan for the Mexican spotted owl recommends that mixed conifer and pine-oak woodland types on slopes greater than 40% be protected for the conservation of this owl (USFWS 1995b).

A mated pair of adult spotted owls may use the same home range and general nesting areas throughout their lives. A pair of owls require approximately 1,976 ac (800 ha) of suitable nesting and foraging habitat to ensure reproductive success. Incubation is carried out by the female. The incubation period is approximately 30 days, and most eggs hatch by the end of May. Most owlets fledge in June, 34 to 36 days after hatching (USFWS 1995b). The owlets are "semi-independent" by late August or early September, although juvenile begging calls have been heard as late as September 30 (Ganey 1992). Young are fully independent by early October. The nonbreeding season runs from September 1 through February 28 (Ganey 1992). Although seasonal movements vary among owls, most adults remain within their summer home ranges throughout the year.

The diet of the Mexican spotted owl consists primarily of small rodents and rabbits with lesser amounts of reptiles, birds, and insects. A majority of the prey consumed by the Mexican spotted owl during the nesting season probably comes from a relatively small area surrounding the nest site. Ganey and Balda (1994) found core areas of individuals (i.e., where owls spent 60% of their time) averaged 331 ac (134 ha), and core areas for pairs averaged 395 ac (160 ha). High-use areas tended to correspond to steep slopes.

6.6.3.2 Survey Methods

Surveys will be conducted annually in the Mexican Spotted Owl AEI core areas. At least four surveys will be conducted in each field season between April 1 and August 31 of any given year. No more than one survey can be conducted before April 16 of any given year for any particular survey location. The first survey must be completed before July 1 of any given year for any given area of habitat. At least three surveys must be completed before August 1 of any given year for any given area of habitat. A survey of one area of habitat must be completed within seven days. The next complete survey can not happen for at least five days and must be started before 21 days has elapsed (e.g., if a survey is completed on May 5, the next complete survey can not begin before May 11 and must begin before May 26). At least two surveys must be completed before the discontinuation of surveys when owls are detected in an area. The best time to perform calls is at night with the best time being the two hours before sunrise and the two hours after dark. However, the time of the calling and the route through the habitat should be varied to cover the habitat at all times of night. Surveys can only be conducted when the survey is likely to be effectively completed. Do not conduct field surveys during existing or predicted wind (>15 mph) or during stormy weather.

There are three primary techniques used to survey for the Mexican spotted owl. These are point, continuous, and leapfrog calling. In point calling, an electronic recording of an owl call is played at a fixed point. The observer will spend at least 15 minutes at a point and alternate between playing the recording of the owl and listening for a response. The primary four-note location call of the Mexican spotted owl should be the major call played during surveys. However, the surveyor should occasionally use other types of calls to elicit a response. The time and location of all responding owls should be recorded. Compass triangulation may be required to locate some owls. Once a point is completed, move on to the next point. Points should be approximately 0.5 mi (0.8 km) apart and cover all suitable habitat to within 0.5 mi (0.8 km). Point calling is usually done on a road by car in suitable habitat.

In continuous calling a surveyor will walk a route (e.g., the edge of a canyon), stop and play the tape, and wait for a response. The distance between points is much shorter than in point calling and much less time is spent at each point. All owl responses should be noted.

In leapfrog calling, two people will do a continuous calling route with one vehicle. The first person will begin alternating between calling and listening as the second person drives approximately 0.5 mi (0.8 km) up the road to begin their calling route. Once the first person reaches the vehicle they drive another 0.5 mi (0.8 km) down the road to begin the process over again. This technique will cover more area more quickly. All owl responses should be noted.

6.6.3.3 Results

Mexican Spotted Owl AEIs are all located in canyons that transport storm water across LANL property.

6.6.3.4 NPDES Permit Environmental Protective Measures

All activities related to this project will be performed within the restrictions and guidelines specified by the LANL HMP (LANL 1998b). Section 3.0 describes the extensive measures that are taken to characterize, remediate, stabilize, and monitor storm water runoff. Reissuance of the MSGP should reduce the potential for contaminant transport in storm water runoff.

6.6.3.5 Cumulative Impacts

The USFWS Section 7 Consultation Handbook defines cumulative effects as those effects of future State or private activities, not involving federal activities, which are reasonably certain to occur within the action area of the federal action subject to consultation. The entire action area (LANL) is administered as a federal entity. There are no anticipated non-federal activities that will contribute to a cumulative impact to T&E species within the action area.

The Mexican spotted owl is not as closely tied to the aquatic food chain as the bald eagle or the southwestern willow flycatcher. Potential impacts due to contaminant transport from aquatic sources are assumed negligible.

The recent Cerro Grande wildfire burned areas located in the watersheds above LANL property. There will likely be an increase in storm water runoff in the canyons that transect LANL property. There is also a potential for contaminant transport to increase across LANL property. LANL scientists are involved in post-fire contaminant monitoring programs and will continue these activities. The goal of these programs is to document and actively mitigate against increases in contaminant transport within Mexican spotted owl habitat.

6.6.3.6 Evaluation Results

EPA and the USFWS have agreed that permit coverage is only available if the effects of storm water discharges, allowable non-storm water discharges, and discharge-related activities result in no jeopardy to listed species and habitats. Allowable storm and non-storm water discharge are contaminant concerns, which were addressed in the LANL SWPPPs. The EPA defines discharge-related activities as activities which cause, contribute to, or result in storm water point source pollutant discharges; and measures to control storm water discharges including the siting, construction, and operation of BMPs to control, reduce, or prevent storm water pollution. These activities would constitute new projects and would be reviewed for ESA compliance through the ESH-ID process. For the purposes of this document, discharge-related activities are those related to storm water monitoring, and these activities are subject to HMP guidelines.

Current storm water conditions in Mexican Spotted Owl AEIs constitute a baseline condition and, according to the best available information, do not pose a threat to the owl. The reissuance of the MSGP and implementation of the LANL SWPPPs should further reduce baseline storm water contaminant levels on LANL. Reissuance of the MSGP should have no detrimental impact on the Mexican spotted owl.

7.0 OTHER EVALUATED SPECIES

There are approximately 24 additional species that were evaluated for potential effects of the reissuance of the MSGP (Appendix 2). These are a combination of state- and federally-listed species with different status designations.

Current storm water conditions constitute a baseline condition and, according to the best available information, do not pose a threat to any of these species. The reissuance of the MSGP and implementation of the LANL SWPPPs should further reduce baseline storm water contaminant levels on LANL. Reissuance of the MSGP should have no detrimental impact on any potentially sensitive species.

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Appendix 1. LANL SWPPPs and Associated Industrial Activities

SWPPP #	SWPPP Title	LOCATION	INDUSTRIAL SECTOR	STATION	DRAINAGE
1	16-260 CMS	TA-16	K	E256	Canon de Valle
2	Active DX Facilities	TA-39-6	K	E274	Ancho
2	Active DX Facilities	TA-14	K	E262	Canon de Valle
2	Active DX Facilities	TA-36-8	K	E267	Potrillo/Fence
2	Active DX Facilities	TA-39-57	K	E274	Ancho
3	Asphalt Batch Plant	TA-03-73	D	E122	Sandia
4	Burn Grounds	TA-16	K	E261	Canon de Valle
5	Chemical Production	TA-9-48	C	E242.5	Arroyo de La Delfe
6	MDA AB	TA-49	K	E262.5	Water
7	MDA P	TA-16	K	E256	Canon de Valle
8	Metal Recycling	TA-60	N	E122.5	Sandia
8	Motor Pool	TA-60-1	P	E122.4	Sandia
9	Sigma Foundary	TA-3-66	F	E122.2	Sandia
10	SM 38 Metals	TA-3-38	AA	E122	Sandia
11	SM 39 Metals	TA-3-39	AA	E243.5	Pajarito
12	Steam Electric Power Plant	TA-03-22	O	E121	Sandia
13	SWMU	SITE WIDE	K	E338	Chaquehui

Appendix 1. Continued

SWPPP #	SWPPP Title	LOCATION	INDUSTRIAL SECTOR	STATION	DRAINAGE
13	SWMU	SITE WIDE	K	E039	DP Canyon
13	SWMU	SITE WIDE	K	E042	Los Alamos
13	SWMU	SITE WIDE	K	E056	Acid Canyon
13	SWMU	SITE WIDE	K	E060	Pueblo
13	SWMU	SITE WIDE	K	E242	Starmers
13	SWMU	SITE WIDE	K	E244	Two Mile
13	SWMU	SITE WIDE	K	E246	Three Mile
13	SWMU	SITE WIDE	K	E250	Lower Pajarito
13	SWMU	SITE WIDE	K	E261	Canon de Valle
13	SWMU	SITE WIDE	K	E121	Sandia
13	SWMU	SITE WIDE	K	E122	Sandia
13	SWMU	SITE WIDE	K	E200	Upper Mortandad
13	SWMU	SITE WIDE	K	E204	Upper Mortandad
13	SWMU	SITE WIDE	K	E218	Upper Canada del Buey
13	SWMU	SITE WIDE	K	E223	Canada del Buey
13	SWMU	SITE WIDE	K	E225	Lower Canada del Buey
13	SWMU	SITE WIDE	K	E227	Canada del Buey
13	SWMU	SITE WIDE	K	E242.5	Arroyo de La Delfe
13	SWMU	SITE WIDE	K	E256	Canon de Valle
13	SWMU	SITE WIDE	K	E260	Upper Water
13	SWMU	SITE WIDE	K	E262	Canon de Valle

Appendix 1. Continued

SWPPP #	SWPPP Title	LOCATION	INDUSTRIAL SECTOR	STATION	DRAINAGE
13	SWMU	SITE WIDE	K	E267	Potrillo/Fence
13	SWMU	SITE WIDE	K	E274	Ancho
14	TA-50 Facilities	TA-50-1	K	E204	Upper Mortandad
14	TA-50 Facilities	TA-50-37	K and AA	E201.5	TenSite
15	TA-54 MDA G, H, J and L	TA-54	L	E221	Canada del Buey
15	TA-54 MDA G, H, J and L	TA-54	L	E223	Canada del Buey
15	TA-54 MDA G, H, J and L	TA-54	K and L	E247	Pajarito
15	TA-54 MDA G, H, J and L	TA-54	K and L	E248	Pajarito
15	TA-54 MDA G, H, J and L	TA-54	K and L	E248.5	Pajarito
15	TA-54 MDA G, H, J and L	TA-54	K and L	E249	Pajarito
15	TA-54 MDA G, H, J and L	TA-54	K and L	E249.5	Pajarito
15	TA-54 MDA G, H, J and L	TA-54	L	E227	Canada del Buey
15	TA-54 MDA G, H, J and L	TA-54	K and L	E250	Lower Pajarito
15	TA-54 MDA G, H, J and L	TA-21-61	K	E030	Los Alamos
16	TA-54 RANT	TA-54-38	K	E220	Canada del Buey
17	TA-55	TA-55	K	E196	Effluent Canyon

Appendix 2. Other Evaluated Species Potentially Occurring on LANL

Scientific Name	Common Name	Status*	Habitat	Potential to Occur⊗
Charidryas acastus acastus	Pearly Checkerspot Butterfly	FSOC	Sagebrush scrub, piñon-juniper woodlands, dry gulches	Low
Plethodon neomexicanus	Jemez Mountains Salamander	NMT	This small woodland salamander is found in mixed conifer and spruce-fir forests above 7,200 ft (2,160 m) in specific microhabitat conditions. Preferred microhabitat is generally characterized by relatively high humidity and soils with specific rock structure, although populations have been found outside these parameters (NMDGF 2001).	Moderate
Bufo boreas boreas	Western Boreal Toad	NME FC	This toad lives near springs, streams, ponds, and lakes in foothill woodlands, mountain meadows, and moist sub-alpine forest to 10,560 ft (3,200 m) (NMDGF 2001). This toad occupies a variety of habitats over its range -- including springs and streams in arid lowlands upward into high mountain meadows (NMDGF 2001). In New Mexico, the species appears to be exclusively a high-mountain form (i.e., above 8,580 ft [2,600 m]), and it is usually associated with beaver ponds (NMDGF 2001). The western boreal toad is totally dependent on standing or running water for breeding.	Low
Accipiter gentilis	Northern Goshawk	FSOC NMS	The small New Mexico population occurs locally in mature, closed-canopied coniferous forests of mountains and high mesas (NMDGF 2001).	Low
Lanius ludovicianus	Loggerhead Shrike	FSOC	This bird is found in Douglas fir, ponderosa pine, aspen (hardwoods), chaparral, and piñon-juniper forest types (NMDGF 2001).	Low
Ammodramus bairdii	Baird's Sparrow	FSOC NMT	In New Mexico, Baird's sparrow has been found in a variety of habitats, ranging from desert grasslands in the south to prairies in the northeast and mountain meadows in the San Juan and Sangre de Cristo mountains– including to an elevation of 11,800 ft (3,540 m).	Low
Vireo vicinior	Gray Vireo	NMT	In New Mexico, the gray vireo is most often found in arid juniper woodlands on foothills and mesas, these are most often associated with oaks and usually in habitat with a well-developed grass component (NMDGF 2001).	Moderate
Cypseloides niger borealis	Black Swift	NMS	River, riparian woodland, subalpine marsh with inaccessible cliffs. Occurs at elevations near water where stream conditions provide sufficient permanent moisture for emergent plants.	Low

Appendix 2. Continued

Scientific Name	Common Name	Status*	Habitat	Potential to Occur⊗
Charadrius montanus	Mountain Plover	FT NMS	This is a lowland grassland species and is not found in the mountains, in spite of its common name (NMDGF 2001). Mountain plovers are considered to be strongly associated with sites of heaviest grazing pressure to the point of excessive surface disturbance (NMDGF 2001). Currently, the mountain plover is also attracted to human-made landscapes (e.g., sod farm, cultivated fields) that mimic the natural habitat associations, or sites with grassland characteristics (alkali flats, other agricultural lands). Mountain plover nesting sites are dominated by short vegetation and bare ground, often with manure piles or rocks nearby (NMDGF 2001).	Low
Myotis ciliolabrum melanorhinus	Western Small-footed Myotis Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	High
Myotis lucifugus occultus	Little Brown Occult Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	Moderate
Myotis lucifugus carissima	Little Brown Bat	NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	Moderate
Myotis thysanodes thysanodes	Fringed Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	High
Myotis yumanensis yumanensis	Yuma Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees, in mixed conifer, ponderosa pine, and piñon/juniper habitat.	Moderate
Myotis volans interior	Long-legged Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	High
Myotis evotis evotis	Long-eared Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	High
Euderma maculatum	Spotted Bat	FSOC NMT	Spotted bats have been recorded in a wide variety of habitats, from riparian and piñon-juniper woodlands to ponderosa pine and spruce-fir forests (NMDGF 2001). In New Mexico, the species has been taken from the lower Rio Grande Valley near Las Cruces (3,940 ft [1,200 m]) to near the summit of Mt. Taylor (10,600 ft [3,230 m]). Most records are in or near forested areas—usually of bats captured in nets placed over bodies of water. Spotted bats may summer in forested areas and migrate through lower elevations at other seasons (NMDGF 2001). This bat has been recorded on LANL.	High

Appendix 2. Continued

Scientific Name	Common Name	Status*	Habitat	Potential to Occur⊗
Plecotus townsendii pallescens	Townsend's Pale Big-eared Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	High
Nyctinomops macrotis	Big Free-tailed Bat	FSOC NMS	Uses cliffs, rock outcrops, and snag trees in mixed conifer, ponderosa pine, and piñon/juniper habitat.	Moderate
Bassariscus astutus	Ringtail	NMS	Ringtails live in extensive rocky areas and cliffs in grassland and woodland. They are not usually found more than 2,640 ft (800 m) from water (NMDGF 2001).	Moderate
Spilogale gracilis	Western Spotted Skunk	NMS	Rock outcrops. They are found in cottonwood and rabbitbrush riparian habitats.	Moderate
Vulpes vulpes	Red Fox	NMS	The red fox is commonest in open woodlands, pasturelands, riparian, and agricultural lands. It favors areas with a mixture of the vegetation types occurring in small mosaics with good development of ground cover (NMDGF 2001).	Moderate
Ochotona princeps nigrescens	Goat Peak Pika	NMS	*O .p. nigrescens* occupy virtually every patch of appropriate talus in the Jemez Mountains down to 8,800 ft (2,640 m).	Low
Zapus hudsonius luteus	New Mexico Meadow Jumping Mouse	NMT	Jemez Mountains habitat may be characterized as the narrow grass-forb-willow streamside riparian zone along permanent waterways and is described in Morrison (1990).	Moderate
Martes ` mericana origenes	American Marten	NMT	The pine marten has been verified in the San Juan and Sangre de Cristo mountains and reported without verification in the Jemez Mountains (NMDGF 2001). Martens occur in spruce-fir forests and marginal Alpine habitat.	Low

*Codes for Legal Status
NME = New Mexico endangered
NMT = New Mexico threatened
NMS = New Mexico sensitive
FSOC = Federal Species of Concern
FC = Federal Candidate
FT = Federally Threatened

⊗POTENTIAL TO OCCUR

High = species is known to occur in the area
Moderate = the area has some species habitat components
Low = the area does not have species habitat components

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Appendix 12.

Documentation of Permit Eligibility Related to Historic Places

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Appendix 12

Documentation of Permit Eligibility Related to Historic Places

A cultural resource review was conducted by the Laboratory's Ecology Group (ENV-ECO) in September 2001. The review complies with Section 106 of the National Historic Preservation Act of 1966 and the associated implementing regulations (36 CFR Part 800). A letter certifying that this review was conducted is included in this appendix.

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Los Alamos
NATIONAL LABORATORY
ESH Division
Ecology Group
P.O. Box 1663, Mail Stop M887
Los Alamos, New Mexico 87545
7-2276/Fax 7-0731

Date: September 24, 2001
Refer To: ESH-20/Ecol-01-0131/CRMT-198L

Mr. Mike Saladen, Team Leader
Regulatory Compliance and Services Team
Water Quality and Hydrology Group (ESH-18)
P.O. Box 1663, Mail Stop K497
Los Alamos National Laboratory
Los Alamos, New Mexico 87544

Dear Mr Saladen:

National Historic Preservation Act Compliance Review
For
The Potential Effects of Operations under the National Pollution Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities at Los Alamos National Laboratory

LA-UR-01-5449

Section 106 of the National Historic Preservation Act (NHPA) of 1966 (as amended) and its implementing regulations (36 CFR Part 800) require federal agencies to consider the effects of their proposed undertakings on historic properties. Activities associated with Section 404 Nation Wide Permit (NWP) of the Clean Water Act and National Pollution Discharge Elimination System (NPDES) general permits are federal undertakings that require Section 106 review. In compliance with Section 106 of the NHPA and implemented by 36 Code of Federal Regulations (CFR) Part 800, "Protection of Historic and Cultural Properties" a review of proposed projects and their areas of potential effect must be undertaken to determine the potential effects to historic properties. The Department of Energy, Los Alamos Area Office (DOE LAAO) has established alternate procedures to Section 106 under a Programmatic Agreement (PA) [MOU DE-GM32-00AL77152] between the Department of Energy, the Advisory Council on Historic Preservation (ACHP), and the New Mexico State Historic Preservation Office (SHPO). The PA allows the DOE LAAO to review projects and proceed when there is no effect to historic properties. This streamlines the compliance process and eliminates the 30 day SHPO consultation. The Laboratory review process has been delegated by DOE to the Cultural Resources Management Team (CRMT) of the Ecology Group (ESH-20).

The CRMT has reviewed the Laboratory projects listed below for effects on historic properties. All of these NPDES and NWP projects were found to be undertakings of no effect and in compliance with Section 106 of the NHPA.

1) DARHT
2) Fire Protection Improvements

3) Guaje Well Field Improvement
4) Strategic Computer Complex and related projects
5) TA-9-15 Gasline
6) Nuclear Materials Safeguard and Security Upgrades
7) Flood Mitigation (501/Pajarito Canyon)
8) Flood Mitigation (501/ESA Property)
9) TA-3 Construction (Parking and Intersections, Early Utilities, NISC, TA-3 D&D, and Small Construction)
10) TA-55 Fire Loop
11) Norton Structure Replacement

However, the installation of a storm water drainage culvert under East Jemez Road resulted in damage from erosion to the historic Duran trail situated on the south face of Los Alamos Canyon. ESH-20 is currently working with project personnel on repairs to the trail and to divert future runoff away from this cultural resource. In examining the cultural resources review cycle for this project, a number of deficiencies with the current process were identified. To address these deficiencies, ESH-20 in conjunction with ESH-18 has developed new procedures for cultural resources reviews of all Multi-sector NPDES General Permits and/or Section 404 Nation Wide Permit (NWP) of the Clean Water Act. Following these procedures will assure that ESH-18 remains in compliance with the National Historic Preservation Act.

The new procedures include ESH-18's notification to ESH-20 of a project (usually seen as an Excavation Permit Request or ESH-ID) that has associated storm water discharge and/or dredge and fill activities. ESH-20 reviews the project information for impacts to cultural resources resulting from the proposed activities. ESH-20 then notifies ESH-18 in writing that the project has been reviewed for cultural resource impacts and when necessary makes compliance recommendations. This process meets the requirements of Addendum B of the Multi-sector NPDES General Permit and the Section 404 Nation Wide Permit.

ESH-18 will remain in compliance with NHPA by following the newly established procedures.

Sincerely,

John Isaacson, Team Leader
Cultural Resources Management Team

JI/KLMG:dr

Cy: D. Erickson, ESH-DO, MS K491, w/o enc.
D. Webb, ESH-20, MS M887, w/o enc.
K. Garcia, ESH-20, MS M887, w/o enc.

ATTACHMENTS

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Attachment 1.

Storm Water Monitoring Plan

Monitoring Year 2006

Los Alamos National Laboratory
Storm Water Monitoring Plan

Monitoring Year 2006

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Part A. Watershed Scale Storm Water Sampling Plan for Monitoring Year 2006

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Table A-1
Detailed Sampling Plan for FFCA Gage Stations

Station ID	Station Name	FFCA Suites											
		Alkal-inity	ClO4	CN (Amen)	DOC	SSC	TAL Metals	TAL Metals	Hg	Dioxins/ Furans	HE	PCB	Rad
		UF	UF	UF	F	UF	F	UF	UF	UF	UF	UF	UF
E026	Los Alamos below Ice Rink	4	4	4	4	4	4	4	4			4	4
E030	Los Alamos above DP Canyon	4	4	4	4	4	4	4	4	4		4	4
E038	DP above TA-21	4	4	4	4	4	4	4	4			4	4
E039	DP below Meadow at TA-21	4	4	4	4	4	4	4	4			4	4
E040	DP above Los Alamos Canyon	4	4	4	4	4	4	4	4			4	4
E042	Los Alamos above SR-4	4	4	4	4	4	4	4	4			4	4
E050	Los Alamos below LA Weir	4	4	4	4	4	4	4	4			4	4
E055	Pueblo above Acid	4	4	4	4	4	4	4	4			4	4
E055.5	South Fork of Acid Canyon	4	4	4	4	4	4	4	4			4	4
E056	Acid above Pueblo	4	4	4	4	4	4	4	4			4	4
E060	Pueblo above SR-502	4	4	4	4	4	4	4	4	4		4	4
E099	Guaje at SR 502	4	4	4	4	4	4	4	4			4	4
E110	Los Alamos above Rio Grande	4	4	4	4	4	4	4	4	4		4	4
E121	Sandia right fork at Power Plant	4	4	4	4	4	4	4	4			4	4
E122	Sandia left fork at Asphalt Plant	4	4	4	4	4	4	4	4			4	
E123	Sandia below Wetlands	4	4	4	4	4	4	4	4			4	
E124	Sandia above Firing Range	4	4	4	4	4	4	4	4		4	4	4
E125	Sandia above SR-4	4	4	4	4	4	4	4	4		4	4	4
E200	Mortandad below Effluent Canyon	4	4	4	4	4	4	4	4			4	4
E201	Mortandad above Ten Site	4	4	4	4	4	4	4	4			4	4
E201.3	Ten Site below MDA C	4	4	4	4	4	4	4	4	4			4
E201.5	Ten Site above Mortandad	4	4	4	4	4	4	4	4				4
E202	Mortandad above Sediment Traps	4	4	4	4	4	4	4	4				4
E203	Mortandad below Sediment Traps	4	4	4	4	4	4	4	4				4
E204	Mortandad at LANL Boundary	4	4	4	4	4	4	4	4				4
E218	Canada del Buey near TA-46	4	4	4	4	4	4	4	4			4	4
E225	Canada del Buey near MDA G	4	4	4	4	4	4	4	4			4	4
E227	MDA G-13	4	4	4	4	4	4	4	4	4		4	4
E230	Canada del Buey above SR-4	4	4	4	4	4	4	4	4			4	4
E240	Pajarito below SR-501	4	4	4	4	4	4	4	4				4

Table A-1
Detailed Sampling Plan for FFCA Gage Stations

Station ID	Station Name	FFCA Suites											
		Alkal-inity	ClO4	CN (Amen)	DOC	SSC	TAL Metals	TAL Metals	Hg	Dioxins/ Furans	HE	PCB	Rad
		UF	UF	UF	F	UF	F	UF	UF	UF	UF	UF	UF
E241	Pajarito above Starmers	4	4	4	4	4	4	4	4				
E242	Starmers above Pajarito	4	4	4	4	4	4	4	4				
E242.5	La Delfe above Pajarito	4	4	4	4	4	4	4	4		4		
E243	Pajarito above Twomile	4	4	4	4	4	4	4	4		4		4
E243.5	Twomile tributary at TA-3	4	4	4	4	4	4	4	4	4			4
E244	Twomile above Pajarito	4	4	4	4	4	4	4	4	4	4	4	4
E245	Pajarito above TA-18	4	4	4	4	4	4	4	4		4	4	4
E245.5	Pajarito above Threemile	4	4	4	4	4	4	4	4		4	4	4
E246	Threemile above Pajarito	4	4	4	4	4	4	4	4		4	4	4
E247	MDA G-1	4	4	4	4	4	4	4	4			4	4
E248.5	MDA G-6U	4	4	4	4	4	4	4	4			4	4
E249	MDA G-4	4	4	4	4	4	4	4	4			4	4
E250	Pajarito above SR-4	4	4	4	4	4	4	4	4	4	4	4	4
E252	Water above SR-501	4	4	4	4	4	4	4	4				4
E253	Canon de Valle above SR-501	4	4	4	4	4	4	4	4				4
E256	Canon de Valle below MDA P	4	4	4	4	4	4	4	4		4		
E257	Canon de Valle tributary at Burn Grounds	4	4	4	4	4	4	4	4		4		
E252.5	Water above S Site Canyon	4	4	4	4	4	4	4	4		4		
E252.8	S Site Canyon above Water	4	4	4	4	4	4	4	4		4		
E262	Canon de Valle above Water	4	4	4	4	4	4	4	4		4		4
E262.5	Water below MDA AB	4	4	4	4	4	4	4	4		4		4
E263	Water at SR-4	4	4	4	4	4	4	4	4		4		4
E264	Indio at SR-4	4	4	4	4	4	4	4	4		4		4
E265	Water below SR-4	4	4	4	4	4	4	4	4			4	4
E266	Potrillo at Lower Slobovia	4	4	4	4	4	4	4	4	4	4		4
E267	Potrillo above SR-4	4	4	4	4	4	4	4	4				4
E274	Ancho north fork below SR-4	4	4	4	4	4	4	4	4		4	4	4
E275	Ancho below SR-4	4	4	4	4	4	4	4	4		4	4	4
E338	Chaquehui at TA-33	4	4	4	4	4	4	4	4			4	4
E340	Chaquehui tributary at TA-33	4	4	4	4	4	4	4	4			4	

Part B. Site-Specific Storm Water Sampling Plan for Monitoring Year 2006

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Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite									
				Inorganic Suites									
				TAL[1] Metals	TAL[1] Metals	Hg	CN (Total)	CN (amen)	COD + NH3	SSC[2]	Alk	ClO4	DOC
				F	UF	UF	UF	UF	UF	UF			F
S-SMA-0.2	2006	03-013(a)	45	4	4	4	4	4	4	X	4		4
S-SMA-0.2		03-013(b)	45										
S-SMA-0.2		03-052(f)	45										
S-SMA-3.6	2006	60-007(b)	43.8	4	4	4	4	4	4	X	4		4
S-SMA-5.1	2006	20-003(c)	57.4	4	4	4	4	4	4	X	4		4
M-SMA-3.1	2006	48-007(b)	49.3	4	4	4	4	4	4	X	4	4	4
M-SMA-3.5	2006	48-003	40.7	4	4	4	4	4	4	X	4	4	4
M-SMA-10.3	2006	35-014(e2)	45.6	4	4	4	4	4	4	X	4		4
M-SMA-10.3		35-016(i)	61										
T-SMA-2.8	2006	35-016(n)	42.8	4	4	4	4	4	4	X	4		4
T-SMA-7	2006	04-001	45	4	4	4	4	4	4	X	4		4
T-SMA-7		04-002	51.5										
T-SMA-7		04-003(b)	51.5										
CDB-SMA-0.1	2006	04-003(a)	57.3	4	4	4	4	4	4	X	4		4
		04-004	57.3										
CDB-SMA-0.2	2006	46-004(c2)	49	4	4	4	4	4	4	X	4		4
CDB-SMA-0.5	2006	46-004(g)	56	4	4	4	4	4	4	X	4		4
CDB-SMA-0.5		46-004(m)	49										
CDB-SMA-1.1	2006	46-004(a)	49	4	4	4	4	4	4	X	4		4
CDB-SMA-1.1		46-004(y)	49										
CDB-SMA-1.1		46-004(z)	49										
CDB-SMA-1.1		46-006(d)	49										

Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Number of Samples per Monitoring Suite																
		Organic Suites							Radionuclide Suites									Field pH
		Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
		UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
S-SMA-0.2	2006			**4**	**4**													**X**
S-SMA-0.2																		
S-SMA-0.2																		
S-SMA-3.6	2006			**4**	**4**			**4**										**X**
S-SMA-5.1	2006		**4**		**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
M-SMA-3.1	2006				**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
M-SMA-3.5	2006				**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
M-SMA-10.3	2006			**4**	**4**			**4**										**X**
M-SMA-10.3																		
T-SMA-2.8	2006			**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
T-SMA-7	2006		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
T-SMA-7																		
T-SMA-7																		
CDB-SMA-0.1	2006		**4**		**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
CDB-SMA-0.2	2006			**4**	**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
CDB-SMA-0.5	2006			**4**	**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
CDB-SMA-0.5																		
CDB-SMA-1.1	2006			**4**	**4**	**4**			**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
CDB-SMA-1.1																		
CDB-SMA-1.1																		
CDB-SMA-1.1																		

Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite									
				Inorganic Suites									
				TAL[1] Metals	TAL[1] Metals	Hg	CN (Total)	CN (amen)	COD + NH3	SSC[2]	Alk	ClO4	DOC
				F	UF	UF	UF	UF	UF	UF			F
CDB-SMA-1.3	2006	46-004(a2)	49	4	4	4	4	4	4	X	4		4
CDB-SMA-1.3		46-004(u)	45										
CDB-SMA-1.3		46-004(v)	45										
CDB-SMA-1.3		46-004(x)	49										
CDB-SMA-1.3		46-006(d)	49										
CDB-SMA-1.5	2006	46-004(h)	56	4	4	4	4	4	4	X	4		4
CDB-SMA-1.5		46-004(q)	45										
CDB-SMA-1.5		46-006(d)	49										
CDB-SMA-1.6	2006	46-003(b)	55.5	4	4	4	4	4	4	X	4		4
CDB-SMA-1.6		46-003(e)	50.8										
CDB-SMA-1.7	2006	46-005	52.8	4	4	4	4	4	4	X	4		4
2M-SMA-1.4	2006	03-009(d)	42.8	4	4	4	4	4	4	X	4		4
CDV-SMA-0.5	2006	16-029(s)	45.5	4	4	4	4	4	4	X	4		4
CDV-SMA-0.5		16-029(t)	41.5										
W-SMA-3	2006	16-006(g)	46	4	4	4	4	4	4	X	4		4
W-SMA-12	2006	49-001(g)	59.2	4	4	4	4	4	4	X	4		4
W-SMA-13	2006	49-001(a)	54.8	4	4	4	4	4	4	X	4		4
W-SMA-15	2006	49-005(a)	73.5	4	4	4	4	4	4	X	4		4
A-SMA-4	2006	33-010(d)	45	4	4	4	4	4	4	X	4		4

Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Number of Samples per Monitoring Suite																
		Organic Suites							Radionuclide Suites									Field pH
		Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
		UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
CDB-SMA-1.3																		
CDB-SMA-1.3																		
CDB-SMA-1.3	2006			4	4	4			4	4	4	4	4	4	4	4	4	X
CDB-SMA-1.3																		
CDB-SMA-1.3																		
CDB-SMA-1.5																		
CDB-SMA-1.5	2006			4	4	4			4	4	4	4	4	4	4	4	4	X
CDB-SMA-1.5																		
CDB-SMA-1.6	2006				4				4	4	4	4	4	4	4	4	4	X
CDB-SMA-1.6																		
CDB-SMA-1.7	2006				4				4	4	4	4	4	4	4	4	4	X
2M-SMA-1.4	2006		4		4		4	4	4	4	4	4	4	4	4	4	4	X
CDV-SMA-0.5	2006		4															X
CDV-SMA-0.5																		
W-SMA-3	2006		4															X
W-SMA-12	2006		4						4	4	4	4	4	4	4	4	4	X
W-SMA-13	2006		4						4	4	4	4	4	4	4	4	4	X
W-SMA-15	2006		4						4	4	4	4	4	4	4	4	4	X
A-SMA-4	2006		4						4	4	4	4	4	4	4	4	4	X

Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite									
				Inorganic Suites									
				TAL[1] Metals	TAL[1] Metals	Hg	CN (Total)	CN (amen)	COD + NH3	SSC[2]	Alk	ClO4	DOC
				F	UF	UF	UF	UF	UF	UF			F
A-SMA-5	2006	33-010(b)	45	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
A-SMA-6	2006	33-010(a)	53.2	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-1	2006	33-004(h)	56.6	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-1		33-008(c)	56										
CHQ-SMA-1		33-015	50.8										
CHQ-SMA-1		C-33-001	56										
CHQ-SMA-1		C-33-003	59										
CHQ-SMA-2	2006	33-004(d)	56	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-2		33-005(a)	49										
CHQ-SMA-2		33-005(b)	49										
CHQ-SMA-2		33-005(c)	49										
CHQ-SMA-2		C-33-003	59										
CHQ-SMA-3	2006	33-010(f)	47.2	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-4	2006	33-016	54.5	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-4.5	2006	33-011(b)	49	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-5	2006	33-007(b)	59.3	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-6	2006	33-004(j)	85	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
CHQ-SMA-6		33-006(a)	56										
CHQ-SMA-6		33-007(b)	59.3										
CHQ-SMA-6		33-010(c)	60.5										
CHQ-SMA-6		33-010(g)	47.8										
CHQ-SMA-7	2006	33-010(g)	47.8	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**

NOTES:
Alk = alkalinity
CN (Total) = total cyanide
CN (amen) = cyanide amenable to chlorination
COD = chemical oxygen demand
DOC = dissolved organic carbon
F = filtered
POC = pollutant of concern
SSC = suspended sediment concentration
TAL = target analyte list
UF = unfiltered

(1) Target analyte list (TAL) metal suite consists of 29 metals.
(2) SSC will be analyzed for each sample submitted for analysis.

Table B-1
Detailed Sampling Plan for SMAs Initiated in 2006

Station ID	Monitoring Year Start	Number of Samples per Monitoring Suite																
		Organic Suites							Radionuclide Suites									Field pH
		Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
		UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
A-SMA-5	2006		4						4	4	4	4	4	4	4	4	4	X
A-SMA-6	2006		4						4	4	4	4	4	4	4	4	4	X
CHQ-SMA-1																		
CHQ-SMA-1																		
CHQ-SMA-1	2006			4	4				4	4	4	4	4	4	4	4	4	X
CHQ-SMA-1																		
CHQ-SMA-1																		
CHQ-SMA-2																		
CHQ-SMA-2																		
CHQ-SMA-2	2006			4	4				4	4	4	4	4	4	4	4	4	X
CHQ-SMA-2																		
CHQ-SMA-2																		
CHQ-SMA-3	2006				4	4			4	4	4	4	4	4	4	4	4	X
CHQ-SMA-4	2006		4	4	4				4	4	4	4	4	4	4	4	4	X
CHQ-SMA-4.5	2006								4	4	4	4	4	4	4	4	4	X
CHQ-SMA-5	2006		4						4	4	4	4	4	4	4	4	4	X
CHQ-SMA-6																		
CHQ-SMA-6																		
CHQ-SMA-6	2006		4						4	4	4	4	4	4	4	4	4	X
CHQ-SMA-6																		
CHQ-SMA-6																		
CHQ-SMA-7	2006		4						4	4	4	4	4	4	4	4	4	X

NOTES:
F = filtered
HE = high explosives
PAH = polycyclic aromatic hydrocarbon
PCB = plychlorinated biphenyl [compounds]
Pest = pesticides
SVOA = semivolatile organic analytes
TPH = total petroleum hydrocarbons
UF = unfiltered
Gamma Spec = gamma spectrometry
Gross AB = gross alpha/beta radiation

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
R-SMA-1	Relocate	SS	2005	C-00-041	42.8	**4**	**4**			**4**	**4**	**4**	**4**	**X**	**4**		**4**
B-SMA-1	SS067	SS	2004	00-011(d)	73.8			**4**	**4**					**X**	**4**		**4**
P-SMA-2	SS057	SS	2005	73-002	56.0	**4**	**4**			**4**	**4**	**4**	**4**	**X**	**4**		**4**
				73-006	56.0												
P-SMA-2.2	SS0575	SS	2005	00-019	51.5			**4**	**4**	**4**				**X**			
P-SMA-3	SS054	ISCO	2005	00-018(a)	42.8			**4**	**4**					**X**			
ACID-SMA-2	E055.5, E056	Gage	2004	01-002(b)-00	71.5			**4**	**4**					**X**			
				45-001	50.3												
				45-004	50.2												
LA-SMA-1	SS0264	ISCO	2004	00-017	67.5			**4**	**4**		**4**	**4**		**X**	**4**		**4**
	SS0263	SS						**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
LA-SMA-1.2	SS02645	SS	2005	C-43-001	45.4			**4**	**4**		**1**	**1**	**1**	**X**	**1**		**1**
LA-SMA-1.5	SS02653	SS	2005	00-030(i)	54.5			**4**	**4**		**4**	**4**	**4**	**X**	**4**		**4**
LA-SMA-2	SS0265	ISCO	2004	01-001(f)	56.7			**4**	**4**					**X**	**4**		**4**
				01-006(b)	76.5												
LA-SMA-2(B)	SS0265(B)	ISCO	2005	01-001(f)	56.7			**4**	**4**					**X**	**4**		**4**
				01-006(b)	76.5												
LA-SMA-3	SS0266	ISCO	2004	01-003(a)	79.0			**4**	**4**					**X**			
LA-SMA-4	SS0267	ISCO	2004	01-001(c)	76.5			**4**	**4**					**X**	**4**		**4**
				01-006(b)	76.5												
				01-006(c)	76.5												
				01-006(d)	76.5												
				01-006(n)	76.5												
LA-SMA-5	SS0268	ISCO	2004	01-001(d)	74.5			**4**	**4**	**4**				**X**	**4**		**4**
				01-003(e)	83.0												
LA-SMA-5.2	SS026805	SS	2005	01-003(d)	49.5			**4**	**4**					**X**			
LA-SMA-5.3	SS02681	ISCO	2005	C-41-004	52.8			**4**	**4**		**4**	**4**	**4**	**X**	**4**		**4**
LA-SMA-5.4	SS02683	SS	2005	32-004	42.0			**4**	**4**		**4**	**4**	**4**	**X**	**4**		**4**

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	Field pH
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
R-SMA-1	Relocate	SS							4										X
B-SMA-1	SS067	SS																	X
P-SMA-2	SS057	SS	4																X
P-SMA-2.2	SS0575	SS									4	4	4	4	4	4	4	4	X
P-SMA-3	SS054	ISCO				4					4	4	4	4	4	4	4	4	X
ACID-SMA-2	E055.5, E056	Gage									4	4	4	4	4	4	4	4	X
LA-SMA-1	SS0264	ISCO									4	4	4	4	4	4	4	4	X
	SS0263	SS								4	4	4	4	4	4	4	4	4	X
LA-SMA-1.2	SS02645	SS								2	2	2	2	2	2	2	2	2	X
LA-SMA-1.5	SS02653	SS																	X
LA-SMA-2	SS0265	ISCO				4										4	4		X
LA-SMA-2(B)	SS0265(B)	ISCO				4										4	4		X
LA-SMA-3	SS0266	ISCO				4				4									X
LA-SMA-4	SS0267	ISCO									4			4					X
LA-SMA-5	SS0268	ISCO				4					4			4					X
LA-SMA-5.2	SS026805	SS								2	2	2	2	2	2	2	2	2	X
LA-SMA-5.3	SS02681	ISCO								1	4	1	4	4	4	4	4	1	X
LA-SMA-5.4	SS02683	SS								1	4	4	4	4	4	4	4	4	X

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
LA-SMA-5.5	E026.85	Gage	2005	02-003(a)	57.6	4	4			4	4	4	4	X	4		4
				02-003(e)	40.5												
				02-006(b)	51.8												
				02-007	44.8												
				02-008(a)	55.8												
				02-009(a)	57.0												
				02-009(b)	44.8												
				02-009(c)	51.3												
				02-011(a)	57.0												
LA-SMA-6	SS0269	SS	2004	21-013(b)	67.0	4	4			4	4	4	4	X	4		4
				21-013(g)	67.0												
				21-024(e)	56.0												
				21-027(d)	45.0												
LA-SMA-6.3	SS028	SS	2005	21-027(a)	52.0	4	4			4	4	4	4	X	4		4
LA-SMA-6.5	SS0287	SS	2005	21-024(i)	53.7	4	4			4	4	4	4	X	4		4
DP-SMA-0.9	Relocate	SS	2005	21-011(c)	54.0	4	4			4	4	4	4	X	4		4
				21-016(a)	54.0												
				21-016(b)	54.0												
				21-016(c)	54.0												
DP-SMA-2	SS0387	SS	2005	21-024(h)	54.0			4	4		4	4	4	X	4		4
LA-SMA-10	SS037	SS	2004	53-002(a)	47.8	4	4			4	4	4	4	X	4		4
				53-008	61.8												
S-SMA-1	E122.2	GAGE	2004	03-003(m)	46.3			4	4					X			
				03-009(a)	61.3												
				03-029	44.3												
S-SMA-2	E121	Gage	2004	03-012(b)	65.0									X			
				03-045(b)	65.0												
				03-045(c)	57.7												
				03-056(c)	45.0												
S-SMA-3.5	SS12293	ISCO	2005	03-014(b2)	46.3			4	4					X			
				03-014(c2)	72												
S-SMA-3.9	SS1235	SS	2005	20-002(a)	48.6			4	4	1				X			
S-SMA-4	SS1238	ISCO	2004	53-014	80.5			4	4					X			

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	Field pH
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
LA-SMA-5.5	E026.85	Gage				**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
LA-SMA-6	SS0269	SS				**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
LA-SMA-6.3	SS028	SS						**4**		**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
LA-SMA-6.5	SS0287	SS				**4**		**4**		**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
DP-SMA-0.9	Relocate	SS						**4**		**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
DP-SMA-2	SS0387	SS								**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
LA-SMA-10	SS037	SS								**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**X**
S-SMA-1	E122.2	GAGE				**4**													**X**
S-SMA-2	E121	Gage				**4**													**X**
S-SMA-3.5	SS12293	ISCO			**4**	**4**				**2**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**X**
S-SMA-3.9	SS1235	SS		**2**						**1**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**X**
S-SMA-4	SS1238	ISCO																	**X**

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
S-SMA-5	SS1245	SS	2004	20-002(c)	73.8			4	4	4				X			
S-SMA-6	SS1248	ISCO	2004	72-001	84.3			4	4	4				X			
M-SMA-4	SS1987	SS	2004	48-007(a)	55.8			4	4					X			
				48-007(d)	55.8												
				48-010	80.3												
M-SMA-5	SS199	SS	2004	42-001(a)	65.8			4	4					X			
				42-001(b)	65.8												
				42-001(c)	65.8												
				42-002(a)	65.8												
				42-002(b)	65.8												
M-SMA-10	SS2002	ISCO	2004	35-008	61.0	4	4			4	4	4	4	X		4	4
				35-014(e)	61.0												
				35-016(e)	72.0												
M-SMA-11	SS2003	SS	2004	35-016(o)	60.3									X			
M-SMA-12	SS2004	SS	2004	35-016(p)	60.3									X			
M-SMA-13	SS205	SS	2004	05-001(c)	73.5			4	4					X			
Pratt-SMA-1	SS20142	SS	2004	35-003(d)	59.0			4	4					X			
				35-003(h)	44.2												
				35-003(l)	59.0												
				35-003(p)	50.8												
				35-003(q)	59.0												
				35-003(r)	87.0												
				35-004(h)	50.8												
				35-016(k)	53.0												
				35-016(l)	64.0												
				35-016(m)	72.0												
T-SMA-1	E201.3	Gage	2004	50-006(a)	77.8	4	4			4	4	4	4	X	4	4	4
				50-009	54.8												
T-SMA-3	SS20134	SS	2004	35-016(b)	96.0			4	4					X			
T-SMA-5	SS20138	SS	2004	35-016(a)	92.0					3	2	2	2	X	2		2
T-SMA-6	SS20140	SS	2004	35-016(q)	92.0	2	2			2	2	2	2	X			

Table B-2

Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									Field pH
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
S-SMA-5	SS1245	SS				**4**					**4**	**4**	**4**	**4**	**4**	**4**	**4**		**X**
S-SMA-6	SS1248	ISCO				**4**					**4**	**4**	**4**	**4**	**4**	**4**	**4**		**X**
M-SMA-4	SS1987	SS																	**X**
M-SMA-5	SS199	SS									**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
M-SMA-10	SS2002	ISCO				**4**			**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
M-SMA-11	SS2003	SS									**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**X**
M-SMA-12	SS2004	SS								**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**X**
M-SMA-13	SS205	SS								**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
Pratt-SMA-1	SS20142	SS				**4**					**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
T-SMA-1	E201.3	Gage									**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
T-SMA-3	SS20134	SS									**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
T-SMA-5	SS20138	SS								**4**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**X**
T-SMA-6	SS20140	SS			**4**	**4**				**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**X**

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
CDB-SMA-2	SS2188	SS	2004	46-002	52.8			4	4					X			4
				46-009(b)	70.0												
2M-SMA-1	SS2432	ISCO	2005	03-010(a)	69.0			4	4					X			
2M-SMA-2	E243.5	Gage	2005	03-054(b)	65.8			4	4					X			
2M-SMA-3	SS2439	ISCO	2005	07-001(b)	55.5	4	4			4	4	4	4	X	4		4
				07-001(c)	46.7												
				07-001(d)	55.5												
3M-SMA-0.5	SS2459	ISCO	2005	15-006(c)	64.5			4	4	4	4	4	4	X	4		4
3M-SMA-0.6	SS2457	SS	2005	15-008(b)	67.2			4	4		4	4	4	X	4		4
PJ-SMA-4	SS24253	SS	2005	09-004(g)	61.8									X			
				09-005(g)	51.0												
PJ-SMA-7	SS24210	SS	2005	40-006(c)	62.0									X			
PJ-SMA-8	SS2426	SS	2005	40-006(b)	62.0	4	4			4	4	4	4	X	4		
PJ-SMA-E250	E250	Gage	2005	18-003(c)	62.3	4	4	4	4	4				X	4		4
				18-010(d)	46.2												
				18-010(f)	62.3												
				18-012(a)	59.2												
				18-012(b)	46.6												
CDV-SMA-1	SS254	SS	2005	16-001(a)	67.0			4	4					X			
				16-001(b)	45.0												
				16-001(c)	45.0												
CDV-SMA-1.4	SS2542	SS	2005	16-016(d)	44.5			4	4					X			
CDV-SMA-1.5	SS2545	SS	2005	16-026(j)	40.2			4	4					X			
CDV-SMA-1.7	SS2547	ISCO	2005	16-019	82.5	4	4	4	4		4	4	4	X	4		4
CDV-SMA-2	SS255	ISCO	2005	16-021(c)	73.3	3	3			3	3	3	3	X	3		3
CDV-SMA-2.4	SS2557	ISCO	2005	16-010(b)	55.5			4	4					X			
				16-018	69.3												
CDV-SMA-6	SS25620	SS	2005	14-001(g)	53.3	4	4	4	4	4	4	4	4	X	4		4
				14-002(d)	40.8												
				14-002(e)	47.8												
				14-006	47.1												

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	Field pH
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
CDB-SMA-2	SS2188	SS				**1**				**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**X**
2M-SMA-1	SS2432	ISCO																	**X**
2M-SMA-2	E243.5	Gage																	**X**
2M-SMA-3	SS2439	ISCO		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
3M-SMA-0.5	SS2459	ISCO		**4**							**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
3M-SMA-0.6	SS2457	SS		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
PJ-SMA-4	SS24253	SS		**4**							**4**		**4**	**4**	**4**	**4**	**4**	**4**	**X**
PJ-SMA-7	SS24210	SS		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
PJ-SMA-8	SS2426	SS		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
PJ-SMA-E250	E250	Gage	**4**	**4**		**4**				**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
CDV-SMA-1	SS254	SS																	**X**
CDV-SMA-1.4	SS2542	SS																	**X**
CDV-SMA-1.5	SS2545	SS		**4**															**X**
CDV-SMA-1.7	SS2547	ISCO		**4**															**X**
CDV-SMA-2	SS255	ISCO		**4**				**4**		**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**X**
CDV-SMA-2.4	SS2557	ISCO		**4**															**X**
CDV-SMA-6	SS25620	SS		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
W-SMA-1	SS25203	SS	2005	16-026(c2)	61.8									X			
				16-026(v)	65.8												
W-SMA-2	SS25205	ISCO	2005	16-028(e)	47.2									X			
W-SMA-4	E252.8	Gage	2005	16-003(a)	55.5	2	2			2	2	2	2	X	2		2
W-SMA-5	SS2528	ISCO	2005	16-003(f)	56.0			4	4					X			
				16-026(z)	49.6												
W-SMA-7	SS25243	SS	2005	16-026(h2)	61.0									X			
W-SMA-8	SS2523	ISCO	2005	16-006(c)	49.5			4	4					X			
				16-016(g)	46.1												
				16-026(a)	73.5												
				16-028(b)	83.0												
W-SMA-9	SS2524	ISCO	2005	16-030(g)	71.0	4	4	4	4	4	4	4	4	X	4		4
W-SMA-10	SS25245	SS	2005	11-003(b)	55.5					1				X			
				11-004(a)	56.0												
				11-004(b)	56.0												
				11-004(c)	56.0												
				11-004(d)	56.0												
				11-004(e)	56.0												
				11-004(f)	56.0												
				11-005(c)	59.0												
				11-006(b)	52.0												
				11-006(c)	68.8												
				11-006(d)	74.0												
W-SMA-11	SS2529	SS	2005	11-004(a)	56.0					1				X			
				11-004(b)	56.0												
				11-004(c)	56.0												
				11-004(d)	56.0												
				11-004(e)	56.0												
				11-004(f)	56.0												

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									Field pH
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
W-SMA-1	SS25203	SS		**4**															**X**
W-SMA-2	SS25205	ISCO		**4**															**X**
W-SMA-4	E252.8	Gage		**4**															**X**
W-SMA-5	SS2528	ISCO			**4**														**X**
W-SMA-7	SS25243	SS		**4**															**X**
W-SMA-8	SS2523	ISCO			**4**														**X**
W-SMA-9	SS2524	ISCO		**4**															**X**
W-SMA-10	SS25245	SS		**4**															**X**
W-SMA-11	SS2529	SS		**1**															**X**

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Monitoring Year Start	Site ID	Erosion Matrix Score	Number of Samples per Monitoring Suite											
						Inorganic Suites											
						TAL[1] Metals	TAL[1] Metals	POC[2] Metals	POC[2] Metals	Hg	CN (Total)	CN (Amen)	COD + NH3	SSC[3]	Alk	ClO4	DOC
						F	UF	F	UF	UF	UF	UF	UF	UF			F
F-SMA-1	SS2659	SS	2005	36-004(b)	57.3	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
F-SMA-2	SS26757	ISCO	2005	36-004(c)	68.3	**3**	**3**			**4**	**4**	**4**	**4**	**X**	**4**		**4**
				36-005	45.4												
PT-SMA-3	E266	Gage	2005	36-004(a)	48.5	**4**	**4**			**4**	**4**	**4**	**4**	**X**	**4**		**4**
				36-006	78.0												
A-SMA-1	E273.7	ISCO	2005	39-004(a)	74.0	**2**	**2**			**2**	**2**	**2**	**2**	**X**	**2**		**2**
				39-004(d)	74.0												
A-SMA-2	E273.8	ISCO	2005	39-004(b)	74.5	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**	**4**		**4**
A-SMA-3	E273.9	ISCO	2005	39-004(c)	74.5	**3**	**3**			**3**	**3**	**3**	**3**	**X**	**3**		**3**

NOTES:

Alk = alkalinity
CN (Total) = total cyanide
CN (amen) = cyanide amenable to chlorination
COD = chemical oxygen demand
DOC = dissolved organic carbon
F = filtered
POC = pollutant of concern
SSC = suspended sediment concentration
TSS = total suspended solids
TAL = target analyte list
UF = unfiltered

(1) Target analyte list (TAL) metal suite consists of 29 metals.
(2) Pollutants of concern (POC) metal suite consists of Ag, As, Cr, Cu, Tl, Pb, V, Zn.
(3) SSC will be analyzed for each sample submitted for analysis.

Table B-2
Detailed Sampling Plan for SMAs Initiated in 2004 and 2005

Station ID	Station Name	Station Type	Number of Samples per Monitoring Suite																
			Organic Suites							Radionuclide Suites									Field pH
			Dioxins/ Furans	HE	PAH	PCB	Pest	SVOA	TPH	H-3	Gross AB	Gamma Spec	Am-241	Iso-Pu	Iso-Th	Iso-U	Ra-226	Sr-90	
			UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF	UF
F-SMA-1	SS2659	SS								**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
F-SMA-2	SS26757	ISCO								**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
PT-SMA-3	E266	Gage																	**X**
A-SMA-1	E273.7	ISCO		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
A-SMA-2	E273.8	ISCO		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**
A-SMA-3	E273.9	ISCO		**4**						**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**X**

NOTES:
F = filtered
HE = high explosives
PAH = polycyclic aromatic hydrocarbon
PCB = plychlorinated biphenyl [compounds]
Pest = pesticides
SVOA = semivolatile organic analytes
TPH = total petroleum hydrocarbons
UF = unfiltered

Gamma Spec = gamma spectrometry
Gross AB = gross alpha/beta radiation

Table B-3
SMAs Proposed for Reduced Monitoring

Station ID	Station Name	Monitoring Year Start	Monitoring Year End	Site ID	Erosion Matrix Score	Station Type	Rationale
CDB-SMA-1	SS2185	2004	2004	C-46-001	68.3	SS	Four complete samples with no Laboratory derived POCs identified in 2004 monitoring.
				46-004(t)	68.3		
				46-008(g)	68.3		
				46-003(a)	44.7		
				46-004(d2)	56		
				46-004(s)	49		
				46-009(a)	57		
DP-SMA-0.3	SS0375	2005	2005	21-029	56.6	SS	Four complete samples with no Laboratory derived POCs identified in 2005 monitoring.
DP-SMA-1	SS0385	2004	2005	21-011(k)	72.0	SS	Four complete samples with no Laboratory derived POCs identified in 2005 monitoring.
LA-SMA-9	SS0304	2004	2005	26-001	65.0	SS	No flow for 8 quarters.
M-SMA-1	SS198	2004	2004	03-054(e)	89.0	ISCO	Four complete samples with no Laboratory derived POCs identified in 2004 monitoring.
M-SMA-2	SS1984	2004	2005	48-007(f)	76.5	SS	Four complete samples with no Laboratory derived POCs identified in 2005 monitoring.
M-SMA-3	SS1985	2004	2005	48-007(c)	69.5	SS	Four complete samples with no Laboratory derived POCs identified in 2005 monitoring.
M-SMA-6	SS1991	2004	2005	35-016(h)	76.5	ISCO	Four complete samples with no Laboratory derived POCs identified in 2004 monitoring.
M-SMA-7	SS1992	2004	2005	35-016(g)	68.3	ISCO	No flow for 8 quarters.
				35-016(h)	76.5		
M-SMA-9	SS2001	2004	2004	35-016(f)	76.5	SS	Four complete samples with no Laboratory derived POCs identified in 2004 monitoring.
T-SMA-4	SS20136	2004	2005	35-016(c)	47.2	SS	Four complete samples with no Laboratory derived POCs identified.
				35-016(d)	76.5		
PJ-SMA-1	SS2405	2005	2005	09-004(g)	61.8	SS	Four complete samples with no Laboratory derived POCs identified in 2005 monitoring.
P-SMA-1	SS058	2004	2005	73-001(a)	85.5	SS	No flow for 8 quarters.
				73-004(d)	46.7		

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Part C. Analytical Requirements for Storm Water Runoff Samples

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Part C. Analytical Requirements for Storm Water Runoff Samples

Detailed analytical requirements for each of the suites indicated in the watershed and Site-specific storm water runoff sampling plans – including detection limits, sample volumes, preservation, and hold times – are provided in this section.

All sample bottles will be submitted for analysis without filtering (i.e., unfiltered) with the exception of the sample aliquot required for dissolved metals analysis. Three to five hundred milliliters from the 1-L or 1-gallon PE container collected for metals shall be filtered through a 0.45 micron pore size filter into a separate, clean bottle; acid-preserved; and submitted for dissolved metals analysis. Filtration and preservation will be accomplished as soon as practical to meet 40 CFR 136 requirements. The filtration operation shall be performed as follows:

- shake the bottle well;
- pour off the approximate amount to be filtered into a second clean bottle;
- filter from the second bottle into a third clean bottle;
- preserve and submit the third bottle with the filtered water in it;
- discard whatever is left behind in the second bottle after filtering.

This filtration procedure prevents leaving an excessive amount of sediments in the unfiltered sample.

For the determination of total recoverable metals (which are equivalent to 'total metals') the sample is not filtered before processing. A digestion procedure is required to solubilize analytes in suspended material and to break down organic-metal complexes. The approved total recoverable digestion is described in EPA Method 200.2 (EPA 1994a). For the determination of total recoverable elements in aqueous samples, the samples must be acid preserved prior to aliquoting at the analytical laboratory for sample processing and analysis.

The chemical analytical methods used are those set forth in 40 CFR Part 136 or the New Mexico WQCC regulations (NMAC 20.6.4.13), with the following exceptions.

- Seven metals on the target analyte list will be analyzed using inductively coupled plasma mass spectrometry (ICPMS) according to EPA Method 200.8 (EPA 1994a). The Laboratory has received interim approval from EPA Region 6 Office to use Method 200.8 as an alternate test procedure for use in wastewater compliance monitoring in December 1999 (EPA 1999b).

- Perchlorate anion will be analyzed by two methods: ion chromatography, using EPA Method 314.0 (EPA 1999a); and liquid chromatography thermospray mass spectrometry (LC/TS-MS) using SW-846 Method 8321A (EPA 1998). The EPA has not approved the LC/TS-MS method for perchlorate analysis; however, the method provides a lower detection limit than the EPA-approved ion chromatography method. There is no approved method for perchlorate listed in 40 CFR Part 136.

- High explosives (HE) compounds will be analyzed by high performance liquid chromatography using SW-846 Method 8330 (EPA 1998). There is no approved method for HE compounds listed in 40 CFR Part 136.

- Radionuclides will be analyzed using subcontractor laboratory procedures that are based on the EPA 900-series methods (EPA 1980), the DOE Environmental Measurement Laboratory HASL-300 methods (DOE 1997), and/or other industry-accepted methodologies.

Analytical Method References

40 CFR Part 136, Appendix A to Part 136 – Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater. http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=098d848f2b6eb9e4ace71d3e772cc991&rgn=div9&view=text&node=40:21.0.1.1.1.0.1.6.1&idno=40

40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants. http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=098d848f2b6eb9e4ace71d3e772cc991&tpl=/ecfrbrowse/Title40/40cfr136_main_02.tpl

ANSI 1997: American National Standards Institute, American National Standard Measurement and Associated Instrumentation Quality Assurance for Radioassay Laboratories, ANSI N42.23-1996, ISBN 1-55937-884-0. (1997) http://www.ansi.org/

DOE 1997: United States Department of Energy, EML Procedures Manual, 28th Edition, Volume I, HASL-300, Environmental Measurements Laboratory. (February 1997) http://www.eml.doe.gov/Publications/procman/

EPA 1980: United States Environmental Protection Agency, Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032. (August 1980) http://www.epa.gov/clariton/clhtml/pubtitleORD.html

EPA 1983: United States Environmental Protection Agency, Methods for Chemical Analysis of Water and Wastes, EPA-600-4-79-020. (March 1983) http://www.epa.gov/clariton/clhtml/pubtitleORD.html

EPA 1993: United States Environmental Protection Agency, Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600/R-93-100. (August 1993). http://www.epa.gov/clariton/clhtml/pubtitleORD.html

EPA 1994a: United States Environmental Protection Agency, Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94-111. (May 1994). http://www.epa.gov/clariton/clhtml/pubtitleORD.html

EPA 1994b: United States Environmental Protection Agency, Method 1613: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS, Revision B, EPA-821/B-94-005. (October 1994). http://www.epa.gov/clariton/clhtml/pubtitleOW.html

EPA 1998: United States Environmental Protection Agency, Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, Third Edition, EPA-SW-846, Draft Update IVA (May 1998) http://www.epa.gov/epaoswer/hazwaste/test/up4a.htm - Chapter

EPA 1999a: United States Environmental Protection Agency, Perchlorate in Drinking Water using Ion Chromatography, EPA-815/R-00-014. (November 1999) http://www.epa.gov/clariton/clhtml/pubtitleORD.html

EPA 1999b: United States Environmental Protection Agency, Memorandum to Ken Mullen, Water Quality and Hydrology Group, Los Alamos National Laboratory: Interim Approval of Several Methods Alternate Test Procedures for Use in Wastewater Compliance Monitoring, Region 6 Office, Lynda F. Carrol, Assistant Regional Administrator for Management. (December 1999)

Table C-1. Storm Water Analytical Suites and Required Volumes for SMAs with ISCO Samplers

Analytical Suite (1)	Sampler/Shipping Container(s) (2)		Volume Required for Analysis (ml) (3)		Filtered Aliquot (4)	Preservative
	Minimum Number (without QC)	Maximum Number (with QC)	Without QC	With QC		
VOAs	1 x 40 mL G (amber)	2 x 40 mL G (amber)	40	80		HCl to pH<2 Cool to 4 °C
TPH	1 x 40 mL G (amber)	1 x 40 mL G (amber)	40	40		Cool to 4 °C
Hg – total (5)	1 x 350 ml G (amber)	1 x 350 ml G (amber)	100	150		HNO_3 to pH < 2
NH_3-N* & COD* (5, 6)	1 x 1-L PE	1 x 1-L PE	200	300		H_2S0_4 to pH<2 Cool to 4 °C
CN (Total)* (5)	1 x 1-L PE	1 x 1-L PE	100	150		NaOH to pH> 12 Cool to 4 °C
SSC (7)	1 x 1-L PE	1 x 1-L PE	300	300		Cool to 4 °C
Metals* – total recoverable	1 x 1-L PE	1 x 1-L PE	200	300		HNO_3 to pH < 2
Metals – dissolved	1 x 1-L PE	1 x 1-L PE	200	300	**X**	HNO_3 to pH < 2
Hardness (as mg $CaCO_3$/L) (8)	--	--	--	--		--
Alkalinity (9)	1 x 1-L PE	1 x 1-L PE	50	150		Cool to 4 °C
ClO_4 (9)	1 x 1-L PE	1 x 1-L PE	100	150		Cool to 4 °C
DOC	1 x 350 mL G (amber)	1 x 350 mL G (amber)	50	150	**X**	H_2S0_4 to pH<2 Cool to 4 °C

Table C-1. Storm Water Analytical Suites and Required Volumes for SMAs with ISCO Samplers

Analytical Suite (1)	Sampler/Shipping Container(s) (2)		Volume Required for Analysis (ml) (3)		Filtered Aliquot (4)	Preservative
	Minimum Number (without QC)	Maximum Number (with QC)	Without QC	With QC		
Dioxins/Furans, PCBs, Pesticides, SVOAs (10)	3 x 350 ml G (amber)	9 x 350 ml G (amber)	1,000	3,000		Cool to 4 °C
HE (10)	3 x 350 ml G (amber)	7 x 350 ml G (amber)	770	2,240		Cool to 4 °C
H-3	1 x 350 ml G (amber)	2 x 350 ml G (amber)	250	500		None
Rad suites (11)	4 x 1-L PE	8 x 1-L PE	4,000	8,000		HNO_3 to pH < 2

ClO_4 = perchlorate [anion]
CN = cyanide
COD = chemical oxygen demand
DOC = dissolved organic carbon
G = glass
gal = gallon
H-3 = tritium
HE = high explosives
Hg = mercury
L = Liter
ml = milliliter
NH_3-N = ammonia [reported as nitrogen]
PCBs = polychlorinated biphenyl [compounds]
PE = polyethylene
rad = radionuclide [suites]
SMA = Site Monitoring Area
SSC = suspended sediment concentration
SVOAs = semivolatile organic analytes
TPH = total petroleum hydrocarbons
VOAs = volatile organic analytes

Table C-1 Notes:

1. Analytical suites are listed in prioritization order if insufficient storm water volume is collected for glass and PE bottles, respectively. Containers required for analysis without laboratory QC samples are filled first; then the additional containers for laboratory QC samples are filled if there is sufficient volume.

2. Storm water samples will be shipped in the sampler container with the exception of dissolved TAL metals, which will be filtered into a new 1-L PE bottle.

3. Total required volume for analysis, either ***not*** including volume required for laboratory QC samples ("without QC"), or including volume required for laboratory QC samples ("with QC").

4. Sample aliquot will be filtered through a 0.45-micron filter into a new container and acid preserved prior to shipment to the laboratory.

5. MSGP Sector K benchmark analytes will be analyzed for only during monitoring year 2006.

6. NH_3-N (ammonia reported as nitrogen) and COD (chemical oxygen demand) may be shipped in the same container.

7. SSC is determined by filtration of the entire sample - with no subsampling - through a 45-micron filter, and subsequently determining the weight of retained sediment.

8. Hardness is calculated from the concentrations of Ca and Mg measured by ICPES. Additional sample volume is not required if TAL metals is being submitted.

9. Alkalinity and ClO_4 may be shipped in the same container.

10. Collected as required by the Site-specific sampling plan (see Appendix 1).

11. Radionuclide suites are: Am-241, gamma spectroscopy, gross alpha, gross beta, Iso-Pu (Pu-238, Pu-239,240), Iso-Th (Th-228, Th-230, Th-232), Iso-U (U-234, U-235, U-238), Ra-226, Ra-228, and Sr-90.

Table C-2. Storm Water Analytical Suites and Required Volumes for SMAs with Single Stage Samplers

Analytical Suite (1)	Sampler Bottle(s)		Volume Required for Analysis (ml) (2)		Filtered Aliquot (3)	Shipping Container(s) (4)		Preservative
	Minimum Number (without QC)	Maximum Number (with QC)	Without QC	With QC		Minimum Number (without QC)	Maximum Number (with QC)	
H-3	1 x 1-gal G	1 x 1-gal G	250	500		1 x 500 ml G (amber)	1 x 500 ml G (amber)	None
NH_3-N* & COD (5, 6)			200	300		1 x 250 ml PE	2 x 250 ml PE	H_2S0_4 to pH<2 Cool to 4 °C
CN (Total) (5)			100	150		1 x 250 ml PE	1 x 250 ml PE	NaOH to pH> 12 Cool to 4 °C
Alkalinity (7)			50	150		1 x 250 ml PE	1 x 250 ml PE	H_2S0_4 to pH<2 Cool to 4 °C
ClO_4 (7)			100	150		1 x 250 ml PE	1 x 250 ml PE	Cool to 4 °C
DOC			50	150	**X**	1 x 250 ml G (amber)	1 x 250 ml G (amber)	Cool to 4 °C
Metals* – total recoverable (5)	1 x 1-gal G	1 x 1-gal G	200	300		1 x 250 ml PE	2 x 250 ml PE	HNO_3 to pH < 2
Hardness (as mg $CaCO_3$/L) (8)			--	--		--	--	--
Hg - total			100	150		1 x 250 ml G (amber)	1 x 250 ml G (amber)	HNO_3 to pH < 2
Metals – dissolved			200	300	**X**	1 x 250 ml PE	2 x 250 ml PE	HNO_3 to pH < 2

Analytical Suite (1)	Sampler Bottle(s)		Volume Required for Analysis (ml) (2)		Filtered Aliquot (3)	Shipping Container(s) (4)		Preservative
	Minimum Number (without QC)	Maximum Number (with QC)	Without QC	With QC		Minimum Number (without QC)	Maximum Number (with QC)	
Dioxins/Furans, HE, PCBs, Pesticides, SVOAs, or TPH (9)	1 x 1-gal G	1 x 1-gal G	1,000	3,000		1 x 1-L G (amber)	3 x 1-L G (amber)	Cool to 4 °C
SSC (10)	1 x 1-gal PE	1 x 1-gal PE	300	300		1 x 1-L PE	1 x 1-L PE	Cool to 4 °C
Rad suites (11)	1 x 1-gal PE	2 x 1-gal PE	4,000	8,000		1 x 1-gal PE	2 x 1-gal PE	HNO_3 to pH < 2

ClO_4 = perchlorate [anion]
CN = cyanide
COD = chemical oxygen demand
DOC = dissolved organic carbon
G = glass
gal = gallon
H-3 = tritium
HE = high explosives
Hg = mercury
L = Liter
ml = milliliter
NH_3-N = ammonia [reported as nitrogen]
PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyl [compounds]
PE = polyethylene
rad = radionuclide [suites]
SSC = suspended sediment concentration
SVOAs = semivolatile organic analytes
TPH = total petroleum hydrocarbons

Table C-2 Notes:

1. Analytical suites are listed in prioritization order if insufficient storm water volume is collected for 1-gallon glass and PE bottles, respectively. Containers required for analysis without laboratory QC samples are filled first; then the additional containers for laboratory QC samples are filled if there is sufficient volume.

2. Total required volume for analysis, either *not* including volume required for laboratory QC samples ("without QC"), or including volume required for laboratory QC samples ("with QC"). Storm water collected in 1-gallon or 1-Liter bottles will be transferred to appropriate shipping containers (with the exception of SSC and rad suites) and preserved as indicated for shipment to laboratory.

3. Sample aliquot will be filtered through a 0.45-micron filter and acid preserved prior to shipment to the laboratory.

4. Shipping containers required for analysis without laboratory QC samples are filled first; then additional containers for analysis with laboratory QC samples are filled (as necessary) if there is sufficient volume.

5. MSGP Sector K benchmark analytes will be analyzed for during monitoring year 2006.

6. NH3-N (ammonia reported as nitrogen) and COD (chemical oxygen demand) may be shipped in the same container.

7. Alkalinity and ClO_4 may be shipped in the same container.

8. Hardness is calculated from the concentrations of Ca and Mg measured by ICPES. Additional sample volume is not required if the Metals suite is being submitted.

9. Collected only asrequired by the Site-specific sampling plan. One (without QC) or two (with QC) 1-gallon glass bottles are required to collect organic suites at each site. Storm water runoff collected in the 1-gallon bottle may be transferred to appropriate number of 1-L containers - depending on combination of organic suites required - for shipment to laboratory.

10. SSC is determined by filtration of the entire sample - with no subsampling - through a 45-micron filter, and subsequently determining the weight of retained sediment.

11. Radionuclide suites are: Am-241, gamma spectroscopy, gross alpha, gross beta, Iso-Pu (Pu-238, Pu-239,240), Iso-Th (Th-228, Th-230, Th-232), Iso-U (U-234, U-235, U-238), Ra-226, Ra-228, and Sr-90.

Table C-3. Storm Water Analytical Suites and Required Volumes for Gage Station Samples

Priority for Analysis (1)		Analytical Suite	Required Volume (ml) (2)		Container(s) (3)		Preservative
Glass	PE		Without QC	With QC	Without QC	With QC	
1		VOAs	40	80	1 x 40 mL G (amber)	2 x 40-mL G (amber)	HCl to pH < 2 Cool to 4 ºC
2		HE	1,540	2,240	1 x 1-L G (amber)	3 x 1-L G (amber)	Cool to 4 ºC
3		PCBs, Pesticides	1,000	3,000	1 x 1-L G (amber)	3 x 1-L G (amber)	Cool to 4 ºC
4		Dioxins/Furans	1,000	2,000	1 x 1-L G (amber)	2 x 1-L G (amber)	Cool to 4 ºC
5		SVOAs	1,000	3,000	1 x 1-L G (amber)	3 x 1-L G (amber)	Cool to 4 ºC
6		TPH	40	40	1 x 40 mL G (amber)	1 x 40 mL G (amber)	Cool to 4 ºC
	1	ClO_4	100	150	1 x 1-L PE	1 x 1-L PE	None
	2	SSC (4)	300	300	1 x 1-L PE	1 x 1-L PE	Cool to 4 ºC
	3	TAL Metals - TR	200	300	1 x 1-L PE	1 x 1-L PE	HNO_3 to pH < 2
	4	TAL Metals – Dissolved	200	300	1 x 1-L PE	1 x 1-L PE	HNO_3 to pH < 2
7		Hg	100	150	1 x 1-L G (amber)	1 x 1-L G (amber)	HNO_3 to pH < 2
	5	CN	100	150	1 x 1-L PE	1 x 1-L PE	NaOH to pH > 12 Cool to 4 ºC
	6	COD; NH_3-N; NO_2 + NO_3-N (5)	100	150	1 x 1-L PE	1 x 1-L PE	H_2SO_4 to pH < 2 Cool to 4 ºC
	7	Alkalinity (6)	50	150	1 x 1-L PE	1 x 1-L PE	Cool to 4 ºC
	8	DOC	50	150	1 x 1-L G (amber)	1 x 1-L G (amber)	H_2SO_4 to pH < 2 Cool to 4 ºC
	9	Radionuclides (7)	4,000	8,000	4 x 1-L PE	8 x 1-L PE	HNO_3 to pH < 2
8		Tritium	250	500	1 x 1-L G (amber)	1 x 1-L G (amber)	None

ClO_4 =perchlorate anion
CN =cyanide
COD =chemical oxygen demand
DOC = dissolved organic carbon
HE = high explosives
L = Liter
ml = milliliter
NH_3-N = ammonia [reported as nitrogen
NO_2 + NO_3-N = nitrite plus nitrate [reported as nitrogen]
PCBs = polychlorinated biphenyl [compounds]
QC = quality control
SSC = suspended sediment concentration
SVOAs = semivolatile organic analytes
TAL = target analyte list
TPH = total petroleum hydrocarbons
TR = total recoverable
TSS = total suspended solids

Table C-3 Notes:

1. When insufficient sample volume is collected to satisfy all the analytical requirements at a monitoring station, sample containers are submitted for analysis in the order indicated for the glass or polyethylene bottles that have been filled.

2. Total required volume for analysis, either not including volume required for laboratory QC samples (“without QC”), or including volume required for laboratory QC samples (“with QC”).

3. Containers required for analysis without laboratory QC samples are identified first; then additional containers for analysis with laboratory QC samples are identified, as necessary, if there is sufficient sample volume.

4. SSC is determined by filtration of the entire sample - with no subsampling - through a 45-micron filter, and subsequently determining the weight of retained sediment.

5. COD, NH_3-N, and NO_2 + NO_3-N may be co-containerized.

6. Alkalinity and ClO_4 may be shipped in the same container.

7. Radionuclide suites are: Am-241, gamma spectroscopy, gross alpha, gross beta, iso-Pu (Pu-238, Pu-239,240), Iso-Th (Th-228, Th-230, Th-232), Iso-U (U-234, U-235, U-238), Ra-226 and Ra-228, and Sr-90.

Table C-4. Analyte List, Analytical Methods and Procedures, and Method Detection Limits for Inorganic Suites

Analyte	Analytical Method	Analytical Procedure (1)	MDL (µg/L)	MQL (µg/L) (2)	Volume Required for Analysis (ml) (3) Without QC	Volume Required for Analysis (ml) (3) With QC	Shipping Container (4)	Preservative	Holding Time
TAL Metals (5)									
Ag*	ICPMS	EPA 200.8	1	2	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Cd*	ICPMS	EPA 200.8	1	1	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Ni	ICPMS	EPA 200.8	5	5	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Pb*	ICPMS	EPA 200.8	2	5	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Sb	ICPMS	EPA 200.8	1	60	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Se*	ICPMS	EPA 200.8	3	5	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Tl	ICPMS	EPA 200.8	1	10	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Al*	ICPES	EPA 200.7	50	100	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
As*	ICPES	EPA 200.7	1	10	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Ba	ICPES	EPA 200.7	20	100	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Be	ICPES	EPA 200.7	5	5	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Ca	ICPES	EPA 200.7	10	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Co	ICPES	EPA 200.7	5	50	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Cr	ICPES	EPA 200.7	5	10	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Cu	ICPES	EPA 200.7	5	10	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Fe*	ICPES	EPA 200.7	50	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
K	ICPES	EPA 200.7	--	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Mg*	ICPES	EPA 200.7	30	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Mn	ICPES	EPA 200.7	10	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Mo	ICPES	EPA 200.7	10	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Na	ICPES	EPA 200.7	29	--	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
V	ICPES	EPA 200.7	5	50	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Zn	ICPES	EPA 200.7	20	20	200 (each for filtered and unfiltered)	300 (each for filtered and unfiltered)	1-L PE	HNO_3 to pH < 2	180 days
Hg*	CVAA	EPA 245.1	0.2	0.2	100	150	1 L Amber Glass	HNO_3 to pH < 2	28 days

Table C-4. Analyte List, Analytical Methods and Procedures, and Method Detection Limits for Inorganic Suites

Analyte	Analytical Method	Analytical Procedure (1)	MDL (µg/L)	MQL (µg/L) (2)	Volume Required for Analysis (ml) (3)		Shipping Container (4)	Preservative	Holding Time
					Without QC	With QC			
General Inorganics									
ClO_4 (6)	IC	EPA: 314.0	4	--	100	150	1-L PE	None	28 days
	LC/TS-MS	SW-846 8321 (modified)	1	--					
Alkalinity	Titrimetric	• EPA:310.1	0.725 mg/L	1 mg/L	50	150	1-L PE	Cool to 4 °C	14 days
DOC	Combustion or Oxidation	• EPA:415.1	0.025 mg/L	0.2 mg/L	50	150	250-mL G (amber)	H_2S0_4 to pH<2 Cool to 4 °C	28 days
Hardness (as mg $CaCO_3$/L)	Calculation (8)	SM 18th Ed. 2340 B	10 mg/L	--	--	--	--	--	--
CN (total)*	Colorimetry	• EPA:335.3	20	20	100	150	1-L PE	NaOH to pH> 12 Cool to 4 °C	14 days
COD*	Colorimetry	EPA: 410.4	5,000	--	100	150	1-L PE	H_2S0_4 to pH<2 Cool to 4 °C	28 days
NH_3-N*	Colorimetry	EPA:350.1	100	--	100	150			
SSC (7)	Gravimetric	EPA 160.2 (modified)	3,000	--	300	300	1-L PE	Cool to 4 °C	7 days

MDL = method detection limit

ClO_4 = perchlorate anion
CN = cyanide
COD = chemical oxygen demand
CVAA = cold vapor atomic absorption [spectrometry]
EPA = Environmental Protection Agency
IC = ion chromatography
ICPES = inductively coupled plasma - emission spectrometry
ICPMS = inductively coupled plasma - mass spectrometry
L = Liter
LC = Liquid chromatography

µg/l = microgram per liter
ml = milliliter
MQL = minimum quantification level
NH3-N = ammonia [reported as nitrogen]
NO2 + NO3 - N = nitrite plus nitrate [reported as nitrogen]
PE = polyethylene
QC = quality control
SSC = suspended sediment concentration
TAL = target analyte list
TS-MS = thermospray mass spectrometry
TSS = total suspended solids

Table C-4 Notes:

1. *Methods for the Determination of Metals in Environmental Samples, Supplement I,* EPA-600/R-94-111, May 1994; *Methods for the Determination of Inorganic Substances in Environmental Samples*, EPA-600/R-93-100, August 1993; *Methods for Chemical Analysis of Water and Wastes*, EPA-600-4-79-020, March 1983; *Test Methods for Evaluating Solid Wastes -Physical/Chemical Methods, Third Edition,* EPA SW-846, Method 8321, Revision 1 (December 1996); *Perchlorate in Drinking Water using Ion Chromatography*, EPA-815/R-00-014. (November 1999)

2. Minimum quantification levels are taken from NPDES Permit No. NM0028355.

3. Total required volume for analysis, either not including volume required for laboratory QC samples ("without QC"), or including volume required for laboratory QC samples ("with QC").

4. Containers required for analysis without laboratory QC samples are identified first; then additional containers for analysis with laboratory QC samples are identified, as necessary, if there is sufficient volume.

5. TAL metals – with the exception of mercury – are analyzed for both dissolved (filtered) and total recoverable (unfiltered) concentrations. Mercury is analyzed for only the total (unfiltered) concentration. Samples undergoing analysis for dissolved concentrations will be filtered through a 0.45 micron filter and acid preserved prior to shipment to the laboratory. Samples undergoing analysis for total recoverable concentrations are unfiltered and are acid preserved prior to shipment to the laboratory.

6. Perchlorate anion (ClO_4) is analyzed by two methods: ion chromatography (EPA 314:0); and liquid chromatography thermospray mass spectrometry (SW-846 8321). The LC/TS-MS method has not been approved by the EPA for perchlorate analysis; however, the method provides a lower detection limit than the EPA-approved ion chromatography method.

7. SSC is determined by filtration of the entire sample - with no subsampling - through a 45-micron filter, and subsequently determining the weight of retained sediment.

8. Hardness is calculated from the concentrations of Ca and Mg measured by ICPES. Additional sample volume is not required if TAL metals is being submitted.

Table C-5. Sample Requirements for Organic Suites

Suite (1)	Procedure(2)	Volume Required for Analysis (ml) (3)		Shipping Container (4)	Preservative	Holding Time	
		Without QC	With QC			Extract	Analyze
Dioxins/Furans	EPA: 1613 B	1,000	2,000	1-L G (amber)	Cool to 4 °C	30 days	45 days
High Explosives	SW-846:8330	1,540	2,240	1-L G (amber)	Cool to 4 °C	7 days	40 days
PCBs, Pesticides	EPA:608	1,000	3,000	1-L G (amber)	Cool to 4 °C	7 days	40 days
SVOA, PAHs	EPA:625	1,000	3,000	1-L G (amber)	Cool to 4 °C	7 days	40 days
TPH	SW-846:8015M	40	40	40 mL G (amber)	Cool to 4 °C	--	7 days
VOA	EPA:624	40	40	40 mL G (amber)	HCl to pH < 2 Cool to 4 °C	--	7 days

EPA = Environmental Protection Agency
G = glass
GC/MS = gas chromatography/mass spectrometry
HPLC = high performance liquid chromatography
HRGC = high resolution gas chromatography
HRMS = high resolution mass spectrometry
ISCO = ISCO automated sampler
L = Liter
na = not applicable
μg/l = microgram per liter

ml = milliliter
PAH = polynuclear aromatic hydrocarbon
PCB = polychlorinated biphenyl [compound]
pg/L = picogram/liter
QC = quality control
SS = single stage sampler
SVOA = semivolatile organic analytes
TPH = total petroleum hydrocarbons
VOA = volatile organic analytes

Table C-5 Notes:

1. Water samples are submitted *unfiltered* for all organic analytical suites.
2. Method 1613: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS, Revision B, EPA-821/B-94-005. (October 1994); *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, Third Edition, EPA-SW-846, Draft Update IVA (May 1998); 40 CFR Part 136, *Appendix A to Part 136 – Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*
3. Total required volume for analysis, either not including volume required for laboratory QC samples ("without QC"), or including volume required for laboratory QC samples ("with QC"). Sample volume including QC samples includes sufficient volume for matrix spike and duplicate sample analysis.
4. Containers required for analysis without laboratory QC samples are identified first; then additional containers for analysis with laboratory QC samples are identified, as necessary, if there is sufficient volume.

Table C-6. Analyte List, Analytical Methods and Procedures, and Minimum Detectable Activities for Radionuclide Suites

Analyte (1)	Analysis Method	Procedure (2)	MDA (pCi/l)	Volume Required for Analysis (ml) (3)		Shipping Container (4)	Preservative	Holding Time
				Without QC	With QC			
Am-241	Alpha Spectrometry	EPA:911	0.05	1,000	2,000	1-L PE	HNO_3 to pH < 2	180 days
Pu-238			0.05					
Pu-239,240			0.05					
Th-228			0.5					
Th-230			0.5					
Th-232			0.5					
U-234			0.5					
U-235,236			0.5					
U-238			0.5					
Sr-90	GPC	EPA:905.0	0.5	1,000	2,000			
Co-60	Gamma Spectroscopy	EPA:901.1	10	2,000	2,000			
Cs-137			10					
K-40			100					
Na-22			10					
Np-237			50					
Gross alpha	GPC	EPA:900	3	500	2,000			
Gross beta			3					
H-3	LSC	EPA:906.0	50	250	500	1-L G (amber)	None	180 Days

EPA = Environmental Protection Agency
G = glass
GPC = gas proportional counting
L = Liter
LSC = liquid scintillation counting

ml = milliliter
pCi/l = picoCurie per liter
PE = polyethylene
QC = quality control
MDA = minimum detectable activity

Table C-6 Notes:

1. Water samples are submitted *unfiltered* for all radionuclide analytical suites.

2. *Prescribed Procedures for Measurement of Radioactivity in Drinking Water*, EPA-600/4-80-032. (August 1980); or equivalent method in US Department of Energy, EML Procedures Manual, 28th Edition, Volume I, HASL-300, Environmental Measurements Laboratory. (February 1997).

3. Total required volume for analysis, either not including volume required for laboratory QC samples ("without QC"), or including volume required for laboratory QC samples ("with QC").

4. Containers required for analysis without laboratory QC samples are identified first; then additional containers for analysis with laboratory QC samples are identified, as necessary, if there is sufficient volume.

Attachment 2.

Summary of Site-Specific and Watershed Scale Storm Water Monitoring Data

Part A. Watershed Storm Water Monitoring Results

Part B. Site-Specific Storm Water Monitoring Results

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Part A. Watershed Storm Water Monitoring Results

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A. Watershed Storm Water Monitoring Results

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Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E026	Los Alamos below Ice Rink	2004		F	1						1														
E026	Los Alamos below Ice Rink	2004		UF	1					1	1	1					1				1	1	1	1	1
E026	Los Alamos below Ice Rink	2004	EQB	F	2						2														
E026	Los Alamos below Ice Rink	2004	EQB	UF	2					2	2	2					2				2	2	2	2	2
E026	Los Alamos below Ice Rink	2005		F	3						2														
E026	Los Alamos below Ice Rink	2005		UF	3				1	3	3	3					3				2	2	2	2	2
E030	Los Alamos above DP Canyon	2004		F	4						4														
E030	Los Alamos above DP Canyon	2004		UF	7	4	4	4		6	4	4					4				4	4	4	4	4
E030	Los Alamos above DP Canyon	2005		F	4						3														
E030	Los Alamos above DP Canyon	2005		UF	4				1	4	4	4	2				4				3	3	3	3	3
E030	Los Alamos above DP Canyon	2005	EQB	UF	1						1	1													
E038	DP above TA-21	2004		F	4						4														
E038	DP above TA-21	2004		UF	7	4	4	3		6	4	4					4				4	4	4	4	4
E038	DP above TA-21	2004	FD	F	1						1														
E038	DP above TA-21	2004	FD	UF	2	1	1	1		1	1	1					1				1	1	1	1	1
E038	DP above TA-21	2005		F	6						4														
E038	DP above TA-21	2005		UF	7					7	4	4									4	4	4	4	4
E039	DP below Meadow at TA-21	2004		F	3						3														
E039	DP below Meadow at TA-21	2004		UF	3	3	3	3		3	3	3					3				3	3	3	3	3
E039	DP below Meadow at TA-21	2004	EQB	F	2						2														
E039	DP below Meadow at TA-21	2004	EQB	UF	2	2	2	1		2	2	2					2				2	2	2	2	2
E039	DP below Meadow at TA-21	2005		F	4						4														
E039	DP below Meadow at TA-21	2005		UF	4					4	4	4									4	4	4	4	4
E040	DP above Los Alamos Canyon	2004		F	4						4														
E040	DP above Los Alamos Canyon	2004		UF	5					5	4	4					4				4	4	4	4	4
E040	DP above Los Alamos Canyon	2005		F	6						4														
E040	DP above Los Alamos Canyon	2005		UF	6				1	6	5	5					1				5	5	5	5	5
E040	DP above Los Alamos Canyon	2005	FB	F	1						1														
E040	DP above Los Alamos Canyon	2005	FB	UF	1						1	1									1	1	1		1
E042	Los Alamos above SR-4	2004		F	4						4														
E042	Los Alamos above SR-4	2004		UF	5	4	4	4		4	4	4					3				4	4	4	4	4
E042	Los Alamos above SR-4	2005		F	6						5														
E042	Los Alamos above SR-4	2005		UF	6				1	5	6	6					6				6	6	6	6	6
E050	Los Alamos below LA Weir	2004		F	1						1														
E050	Los Alamos below LA Weir	2004		UF	1						1	1					1				1	1	1	1	1
E050	Los Alamos below LA Weir	2005		F	5						4														
E050	Los Alamos below LA Weir	2005		UF	5				1	5	5	5					5				5	5	5	5	5
E055	Pueblo above Acid	2004		F	4						4														
E055	Pueblo above Acid	2004		UF	4	4	4	4		4	4	4					4				4	4	4	4	4
E055	Pueblo above Acid	2005		F	5						4														
E055	Pueblo above Acid	2005		UF	5				1	5	5	5					1				5	5	5	5	5
E055	Pueblo above Acid	2005	EQB	UF	1						1	1													
E055.5	South Fork of Acid Canyon	2004		F	1						1														
E055.5	South Fork of Acid Canyon	2004		UF	1	1	1	1		1	1														

Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E055.5	South Fork of Acid Canyon	2005		F	4						4														
E055.5	South Fork of Acid Canyon	2005		UF	6					4	5	2					2				3	3	3	2	3
E056	Acid above Pueblo	2005		F	3						3														
E056	Acid above Pueblo	2005		UF	3					2	3										2	2	2		2
E060	Pueblo above SR-502	2004		F	3						3														
E060	Pueblo above SR-502	2004		UF	3	3	3	3		3	3	3	3				3				3	3	3	3	3
E060	Pueblo above SR-502	2004	EQB	F	2						2														
E060	Pueblo above SR-502	2004	EQB	UF	2	2	2	1		2	2	2	2				2				2	2	2	2	2
E060	Pueblo above SR-502	2005		F	5						4														
E060	Pueblo above SR-502	2005		UF	5					5	4	3	2				3				4	4	4	2	4
E060	Pueblo above SR-502	2005	FD	F	1						1														
E060	Pueblo above SR-502	2005	FD	UF	1					1	1	1					1								
E099	Guaje at SR 502	2004		-	0																				
E099	Guaje at SR 502	2005		-	0																				
E110	Los Alamos Canyon near Otowi Bridge	2005		F	1																				
E110	Los Alamos Canyon near Otowi Bridge	2005		UF	1				1	1	1	1	1				1				1	1	1	1	1
E121	Sandia right fork at Power Plant	2004		F	4						4														
E121	Sandia right fork at Power Plant	2004		UF	4	2	3	3		3	4	3					3				3	3	3	3	3
E121	Sandia right fork at Power Plant	2005		F	4						4														
E121	Sandia right fork at Power Plant	2005		UF	5					5	4	4					4				4	4	4	4	4
E121	Sandia right fork at Power Plant	2005	EQB	UF	1						1	1													
E122	Sandia left fork at Asphalt Plant	2004		F	4						4														
E122	Sandia left fork at Asphalt Plant	2004		UF	7	5	4	4		7	4	4					4								
E123	Sandia below Wetlands	2004		F	4						4														
E123	Sandia below Wetlands	2004		UF	4					4	4	4					4								
E123	Sandia below Wetlands	2005		F	5						4														
E123	Sandia below Wetlands	2005		UF	5					5	4	4					4								
E123	Sandia below Wetlands	2005	FD	F	1						1														
E123	Sandia below Wetlands	2005	FD	UF	1					1	1	1					1								
E124	Sandia above Firing Range	2004		F	3						3														
E124	Sandia above Firing Range	2004		UF	5	3	3	3		5	3	3			3		2				3	3	3	2	3
E124	Sandia above Firing Range	2005		F	4						4														
E124	Sandia above Firing Range	2005		UF	5					5	4	4			4		4				4	4	4	4	4
E125	Sandia above SR-4	2005		F	1						1														
E125	Sandia above SR-4	2005		UF	1					1	1						1				1	1	1		1
E196	TA-55 NW above Effluent Canyon	2004		UF	5	4	4	4		5		4													
E200	Mortandad below Effluent Canyon	2004		F	4						4														
E200	Mortandad below Effluent Canyon	2004		UF	4	4	4	4	4	4	4	4					4				4	4	4	4	4
E200	Mortandad below Effluent Canyon	2005		F	4				3		4														
E200	Mortandad below Effluent Canyon	2005		UF	4					4	4	4					4				4	4	4	4	4
E201	Mortandad above Ten Site	2005		F	2				2		2														
E201	Mortandad above Ten Site	2005		UF	2					2	2	2					2				2	2	2	2	2
E201.1	Ten Site at TA-50	2004		UF	6	5	5	2		6		5									1	1	1	1	1
E201.1	Ten Site at TA-50	2005		UF	5					4		1									4	3	3	4	3

Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E201.3	Ten Site below MDA C	2004		F	3						3														
E201.3	Ten Site below MDA C	2004		UF	6	2	2	1		5	3	3									1	1	1	2	1
E201.3	Ten Site below MDA C	2005		F	5						4														
E201.3	Ten Site below MDA C	2005		UF	7					7	4	4	3								2	2	2	4	2
E201.5	Ten Site above Mortandad	2004		F	1						1														
E201.5	Ten Site above Mortandad	2004		UF	1	1	1	1		1	1	1												1	
E201.5	Ten Site above Mortandad	2005		F	4						4														
E201.5	Ten Site above Mortandad	2005		UF	4					4	4	4									3	3	3	2	3
E202	Mortandad above Sediment Traps	2005		F	2						2														
E202	Mortandad above Sediment Traps	2005		UF	2					2	2	2									1	1	1		1
E203	Mortandad below Sediment Traps	2004		-	0																				
E203	Mortandad below Sediment Traps	2005		-	0																				
E204	Mortandad at LANL Boundary	2004		-	0																				
E204	Mortandad at LANL Boundary	2005		-	0																				
E218	Canada del Buey near TA-46	2004		F	3						3														
E218	Canada del Buey near TA-46	2004		UF	4	3	2	2		4	3	3					3				2	2	2	2	2
E218	Canada del Buey near TA-46	2005		F	3						2														
E218	Canada del Buey near TA-46	2005		UF	3					2	2	2					2				2	2	2	1	2
E225	Canada del Buey near MDA G	2004		-	0																				
E225	Canada del Buey near MDA G	2005		-	0																				
E227	MDA G-13	2004		F	1						1														
E227	MDA G-13	2004		UF	2	1	1	1		1	1	1					1		1					1	
E227	MDA G-13	2005		F	5						4														
E227	MDA G-13	2005		UF	6					6	4	3	3				3				2	2	2	3	2
E230	Canada del Buey above SR-4	2004		F	3						3														
E230	Canada del Buey above SR-4	2004		UF	3					3	3	3					3				3	3	3	3	3
E230	Canada del Buey above SR-4	2005		F	2						1														
E230	Canada del Buey above SR-4	2005		UF	2					1	1	1					1								
E230	Canada del Buey above SR-4	2005	FD	F	1						1														
E230	Canada del Buey above SR-4	2005	FD	UF	2					1	1	1					1								
E240	Pajarito below SR-501	2004	EQB	F	2						2														
E240	Pajarito below SR-501	2004	EQB	UF	2					2	2	2									2	2	2	2	2
E240	Pajarito below SR-501	2005		F	4						2														
E240	Pajarito below SR-501	2005		UF	4				1	4	3	2									3	3	3	2	3
E241	Pajarito above Starmers	2004		F	1						1														
E241	Pajarito above Starmers	2004		UF	1					1	1	1													
E241	Pajarito above Starmers	2005		F	5						4														
E241	Pajarito above Starmers	2005		UF	5				1	5	5	5													
E241	Pajarito above Starmers	2005	EQB	UF	1						1	1													
E242	Starmers above Pajarito	2004		F	2						2														
E242	Starmers above Pajarito	2004		UF	2	2	2	2		2	2	2													
E242	Starmers above Pajarito	2005		F	2						1														
E242	Starmers above Pajarito	2005		UF	2				1	2	2	2													
E242.5	La Delfe above Pajarito	2004		F	1						1														

Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E242.5	La Delfe above Pajarito	2004		UF	1	1	1	1		1	1	1			1										
E242.5	La Delfe above Pajarito	2005		F	5						4														
E242.5	La Delfe above Pajarito	2005		UF	5				1	5	5	5			5										
E243	Pajarito above Twomile	2004		F	1						1														
E243	Pajarito above Twomile	2004		UF	1					1	1	1			1						1	1	1	1	1
E243	Pajarito above Twomile	2005		F	4						3														
E243	Pajarito above Twomile	2005		UF	4				1	3	3	3			3						4	4	4	2	4
E243.5	Twomile tributary at TA-3	2004		F	4						4														
E243.5	Twomile tributary at TA-3	2004		UF	12	7	6	4		1	8	7	2								6	6	6	6	6
E243.5	Twomile tributary at TA-3	2004	FD	UF	1					1		1	1												
E243.5	Twomile tributary at TA-3	2004	EQB	F	2						2														
E243.5	Twomile tributary at TA-3	2004	EQB	UF	2	2	2	1		2	2	2	2								2	2	2	2	2
E243.5	Twomile tributary at TA-3	2005		F	4						4		1												
E243.5	Twomile tributary at TA-3	2005		UF	6					6	4	4	3								4	4	4	4	4
E244	Twomile above Pajarito	2004		F	3						3														
E244	Twomile above Pajarito	2004		UF	3	2	1	1		3	3	2	1		1		1				3	3	3	1	3
E244	Twomile above Pajarito	2005		F	5						3														
E244	Twomile above Pajarito	2005		UF	5				1	5	5	5	2		3		3				1	1	1	1	1
E244	Twomile above Pajarito	2005	FD	F	1						1														
E244	Twomile above Pajarito	2005	FD	UF	2					1	1	1			1										
E245	Pajarito above TA-18	2004		F	3						3														
E245	Pajarito above TA-18	2004		UF	3					3	3	3			3		3				2	2	2	3	2
E245	Pajarito above TA-18	2005		F	6						4														
E245	Pajarito above TA-18	2005		UF	7				1	7	5	5			5		4				4	4	4	5	4
E245.5	Pajarito above Threemile	2004		F	4						4														
E245.5	Pajarito above Threemile	2004		UF	4					4	4	3			2		2				3	3	3	2	3
E245.5	Pajarito above Threemile	2005		F	6						4														
E245.5	Pajarito above Threemile	2005		UF	7				1	6	5	5			5		5				5	5	5	5	5
E245.5	Pajarito above Threemile	2005	FB	F	1						1														
E245.5	Pajarito above Threemile	2005	FB	UF	1						1	1									1	1	1	1	1
E246	Threemile above Pajarito	2004		F	2						2														
E246	Threemile above Pajarito	2004		UF	2	2	1	1		2	2	1			1		1				2	2	2	1	2
E246	Threemile above Pajarito	2005		F	1																				
E246	Threemile above Pajarito	2005		UF	1				1	1	1	1			1		1				1	1	1	1	1
E247	MDA G-1	2004		F	3						3														
E247	MDA G-1	2004		UF	3					3	3	3					2				2	2	2	3	2
E247	MDA G-1	2005		F	3						3														
E247	MDA G-1	2005		UF	3					3	3	3					3				3	3	3	3	3
E248.5	MDA G-6U	2004		F	3						3														
E248.5	MDA G-6U	2004		UF	6	2	3	3		4	3	3					2				1	1	1	3	1
E248.5	MDA G-6U	2004	FTB	UF	1															1					
E248.5	MDA G-6U	2005		F	5						4														
E248.5	MDA G-6U	2005		UF	6					6	4	4					4		4	3	4	4	4	4	4
E248.5	MDA G-6U	2005	FTB	UF	1															1					

Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E249	MDA G-4	2004		F	1						1														
E249	MDA G-4	2004		UF	2	1	1	1		1	1	1					1							1	
E250	Pajarito above SR-4	2004		F	1						1														
E250	Pajarito above SR-4	2004		UF	2	1	1			2	1	1	1		1		1				1	1	1	1	1
E250	Pajarito above SR-4	2005		F	2						1														
E250	Pajarito above SR-4	2005		UF	2				1	2	2	2	2		2		2				1	1	1	1	1
E250	Pajarito above SR-4	2005	EQB	UF	1						1	1													
E252	Water above SR-501	2005		F	1																				
E252	Water above SR-501	2005		UF	1				1	1	1	1									1	1	1	1	1
E252	Water above SR-501	2005	EQB	UF	1						1	1													
E252.5	Water above S Site Canyon	2004		F	2						2														
E252.5	Water above S Site Canyon	2004		UF	2	1	1	1		2	2	2			2										
E252.5	Water above S Site Canyon	2005		F	2						1														
E252.5	Water above S Site Canyon	2005		UF	2				1	2	2	2			1										
E252.8	S Site Canyon above Water	2004		F	1						1														
E252.8	S Site Canyon above Water	2004		UF	1	1	1	1		1	1	1			1										
E252.8	S Site Canyon above Water	2005		F	2						2														
E252.8	S Site Canyon above Water	2005		UF	2					2	2	2			2										
E253	Canon de Valle above SR-501	2004	EQB	F	2						2														
E253	Canon de Valle above SR-501	2004	EQB	UF	2					2	2	2									2	2	2	2	2
E253	Canon de Valle above SR-501	2005		F	2						1														
E253	Canon de Valle above SR-501	2005		UF	2				1	2	2	2									1	1	1	2	1
E256	Canon de Valle below MDA P	2004		F	3						3														
E256	Canon de Valle below MDA P	2004		UF	3	3	3	3		3	3	3			1										
E256	Canon de Valle below MDA P	2005		F	6						4														
E256	Canon de Valle below MDA P	2005		UF	6				1	6	5	5			5										
E257	Canon de Valle tributary at Burn Grounds	2004		F	4						4														
E257	Canon de Valle tributary at Burn Grounds	2004		UF	5	4	4	3		5	4	5			4										
E257	Canon de Valle tributary at Burn Grounds	2005		F	5						4														
E257	Canon de Valle tributary at Burn Grounds	2005		UF	5					5	4	4			4										
E257	Canon de Valle tributary at Burn Grounds	2005	FD	F	1						1														
E257	Canon de Valle tributary at Burn Grounds	2005	FD	UF	1					1	1	1													
E262	Canon de Valle above Water	2004		F	1						1														
E262	Canon de Valle above Water	2004		UF	1	1	1	1		1	1	1			1										
E262	Canon de Valle above Water	2005		F	3						2														
E262	Canon de Valle above Water	2005		UF	3				1	3	3	3			2						1	1	1	2	1
E262.5	Water below MDA AB	2004		F	3						3														
E262.5	Water below MDA AB	2004		UF	3	2	1	1		3	3	3			3						2	2	2	2	2
E262.5	Water below MDA AB	2005		F	4						3														
E262.5	Water below MDA AB	2005		UF	4				1	4	4	4			4						3	3	3	4	3
E262.5	Water below MDA AB	2005	FD	F	1						1														
E262.5	Water below MDA AB	2005	FD	UF	1					1	1	1			1						1	1	1	1	1
E263	Water at SR-4	2004		F	2						2														
E263	Water at SR-4	2004		UF	2					2	2	1			1						1	1	1	1	1

Table A1. FFCA Gage Station Samples Collected
Monitoring Years 2004 - 2005

Station ID	Station Name	Monitoring Year	Fld QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
						NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
E263	Water at SR-4	2005		F	3						2														
E263	Water at SR-4	2005		UF	3				1	3	3	3			3						1	1	1	1	1
E263	Water at SR-4	2005	EQB	UF	1						1	1													
E264	Indio at SR-4	2004		-	0																				
E264	Indio at SR-4	2005		-	0																				
E265	Water below SR-4	2004		F	2						2														
E265	Water below SR-4	2004		UF	2					1	2	2					2				2	2	2	2	2
E265	Water below SR-4	2004	EQB	F	2						2														
E265	Water below SR-4	2004	EQB	UF	2					2	2	2					2				2	2	2	2	2
E265	Water below SR-4	2005		F	4						3														
E265	Water below SR-4	2005		UF	4				1	4	4	2					1				3	3	3	2	3
E266	Potrillo at Lower Slobbovia	2004		-	0																				
E266	Potrillo at Lower Slobbovia	2005		-	0																				
E267	Potrillo above SR-4	2005		F	1						1														
E267	Potrillo above SR-4	2005		UF	1					1	1	1									1	1	1	1	1
E274	Ancho north fork below SR-4	2004		-	0																				
E274	Ancho north fork below SR-4	2005		-	0																				
E275	Ancho below SR-4	2004		-	0																				
E275	Ancho below SR-4	2005		-	0																				
E338	Chaquehui at TA-33	2004		-	0																				
E338	Chaquehui at TA-33	2005		-	0																				
E340	Chaquehui tributary at TA-33	2004		-	0																				
E340	Chaquehui tributary at TA-33	2005		-	0																				

Table A2. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E030	Los Alamos above DP Canyon	2004	UF	METALS	Arsenic	4	4	1	19.8	10.1	26.3	24.2	ug/L
E030	Los Alamos above DP Canyon	2004	UF	METALS	Lead	4	4	3	232	105	294	126	ug/L
E030	Los Alamos above DP Canyon	2004	UF	METALS	Mercury	4	2	1	0.736	0.272	1.2	0.77	ug/L
E030	Los Alamos above DP Canyon	2004	UF	METALS	Vanadium	4	4	3	116	50.2	180	100	ug/L
E030	Los Alamos above DP Canyon	2004	UF	PEST/PCB	Aroclor-1260	4	1	1	0.12	0.12	0.12	0.0017	ug/L
E030	Los Alamos above DP Canyon	2005	UF	METALS	Lead	4	4	1	158	1.3	552	126	ug/L
E030	Los Alamos above DP Canyon	2005	UF	METALS	Mercury	4	3	1	0.368	0.055	0.83	0.77	ug/L
E030	Los Alamos above DP Canyon	2005	UF	PEST/PCB	Aroclor-1254	4	1	1	0.36	0.36	0.36	0.0017	ug/L
E030	Los Alamos above DP Canyon	2005	UF	PEST/PCB	Aroclor-1260	4	2	2	0.29	0.062	0.52	0.0017	ug/L
E038	DP above TA-21	2004	UF	METALS	Lead	4	4	1	114	58.7	162	126	ug/L
E039	DP below Meadow at TA-21	2005	UF	METALS	Lead	4	4	2	85	13.1	161	126	ug/L
E040	DP above Los Alamos Canyon	2004	UF	METALS	Arsenic	4	4	1	22.0	11.1	30.9	24.2	ug/L
E040	DP above Los Alamos Canyon	2004	UF	METALS	Lead	4	4	4	305	177	509	126	ug/L
E040	DP above Los Alamos Canyon	2004	UF	METALS	Vanadium	4	4	2	109	64.8	156	100	ug/L
E040	DP above Los Alamos Canyon	2005	UF	METALS	Arsenic	5	4	1	17.3	11	27.8	24.2	ug/L
E040	DP above Los Alamos Canyon	2005	UF	METALS	Lead	5	4	3	240	96.5	352	126	ug/L
E040	DP above Los Alamos Canyon	2005	UF	METALS	Vanadium	5	4	2	90	41.8	140	100	ug/L
E042	Los Alamos above SR-4	2004	UF	METALS	Arsenic	4	4	2	24.4	13.4	39.7	24.2	ug/L
E042	Los Alamos above SR-4	2004	UF	METALS	Lead	4	4	4	265	160	412	126	ug/L
E042	Los Alamos above SR-4	2004	UF	METALS	Vanadium	4	4	2	118	76.1	171	100	ug/L
E042	Los Alamos above SR-4	2005	UF	METALS	Arsenic	6	5	2	23.6	7.1	45.7	24.2	ug/L
E042	Los Alamos above SR-4	2005	UF	METALS	Lead	6	6	4	220	2.3	406	126	ug/L
E042	Los Alamos above SR-4	2005	UF	METALS	Mercury	6	5	1	0.33	0.11	0.82	0.77	ug/L
E042	Los Alamos above SR-4	2005	UF	METALS	Vanadium	6	6	2	88	1.1	193	100	ug/L
E042	Los Alamos above SR-4	2005	UF	PEST/PCB	Aroclor-1254	6	1	1	0.39	0.39	0.39	0.0017	ug/L
E042	Los Alamos above SR-4	2005	UF	PEST/PCB	Aroclor-1260	6	1	1	0.57	0.57	0.57	0.0017	ug/L
E050	Los Alamos below LA Weir	2005	UF	METALS	Lead	5	5	2	77	0.93	154	126	ug/L
E050	Los Alamos below LA Weir	2005	UF	PEST/PCB	Aroclor-1254	5	1	1	0.21	0.21	0.21	0.0017	ug/L
E050	Los Alamos below LA Weir	2005	UF	PEST/PCB	Aroclor-1260	5	3	3	0.14	0.057	0.23	0.0017	ug/L
E055	Pueblo above Acid	2004	UF	METALS	Arsenic	4	2	1	27.3	23.6	31	24.2	ug/L
E055	Pueblo above Acid	2004	UF	METALS	Lead	4	4	2	178	94.9	270	126	ug/L
E055	Pueblo above Acid	2004	UF	METALS	Vanadium	4	4	2	111	42.8	154	100	ug/L
E055	Pueblo above Acid	2005	UF	METALS	Arsenic	5	4	1	18.8	10.1	25.3	24.2	ug/L
E055	Pueblo above Acid	2005	UF	METALS	Lead	5	5	3	113	1.9	162	126	ug/L
E055	Pueblo above Acid	2005	UF	METALS	Vanadium	5	4	2	98	63.9	124	100	ug/L
E055.5	South Fork of Acid Canyon	2005	UF	METALS	Lead	5	5	1	113	52.4	260	126	ug/L
E056	Acid above Pueblo	2005	UF	METALS	Lead	3	3	1	198	62.8	428	126	ug/L
E056	Acid above Pueblo	2005	UF	METALS	Vanadium	3	3	1	55	17.8	116	100	ug/L
E060	Pueblo above SR-502	2004	UF	METALS	Lead	3	3	1	79	31.4	167	126	ug/L
E060	Pueblo above SR-502	2004	UF	METALS	Vanadium	3	3	1	60	33	111	100	ug/L

Table A2. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E121	Sandia right fork at Power Plant	2005	UF	PEST/PCB	Aroclor-1254	4	3	3	0.38	0.056	0.64	0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	UF	PEST/PCB	Aroclor-1260	4	4	4	0.47	0.027	1.2	0.0017	ug/L
E123	Sandia below Wetlands	2004	UF	METALS	Mercury	4	4	2	0.69	0.31	0.921	0.77	ug/L
E123	Sandia below Wetlands	2004	UF	METALS	Silver	4	4	4	15.0	7.5	21.1	4.1	ug/L
E123	Sandia below Wetlands	2004	UF	PEST/PCB	Aroclor-1254	4	3	3	0.31	0.059	0.67	0.0017	ug/L
E123	Sandia below Wetlands	2004	UF	PEST/PCB	Aroclor-1260	4	3	3	0.31	0.076	0.61	0.0017	ug/L
E123	Sandia below Wetlands	2005	UF	METALS	Lead	4	4	1	43	7.6	128	126	ug/L
E123	Sandia below Wetlands	2005	UF	METALS	Mercury	4	2	1	0.63	0.32	0.93	0.77	ug/L
E123	Sandia below Wetlands	2005	UF	METALS	Silver	4	4	2	7.1	1.2	19.6	4.1	ug/L
E123	Sandia below Wetlands	2005	UF	METALS	Vanadium	4	4	1	41	11	115	100	ug/L
E123	Sandia below Wetlands	2005	UF	PEST/PCB	Aroclor-1254	4	3	3	0.29	0.21	0.38	0.0017	ug/L
E123	Sandia below Wetlands	2005	UF	PEST/PCB	Aroclor-1260	4	3	3	0.42	0.22	0.64	0.0017	ug/L
E124	Sandia above Firing Range	2004	UF	METALS	Silver	3	1	1	14.5	14.5	14.5	4.1	ug/L
E124	Sandia above Firing Range	2004	UF	PEST/PCB	Aroclor-1260	2	1	1	0.10	0.098	0.098	0.0017	ug/L
E124	Sandia above Firing Range	2005	UF	METALS	Lead	4	4	1	89	26	200	126	ug/L
E124	Sandia above Firing Range	2005	UF	METALS	Mercury	4	3	2	1.37	0.24	3	0.77	ug/L
E124	Sandia above Firing Range	2005	UF	METALS	Silver	4	4	2	5.9	0.29	13	4.1	ug/L
E124	Sandia above Firing Range	2005	UF	PEST/PCB	Aroclor-1254	4	3	3	0.69	0.11	1.7	0.0017	ug/L
E124	Sandia above Firing Range	2005	UF	PEST/PCB	Aroclor-1260	4	4	4	0.97	0.12	3.2	0.0017	ug/L
E125	Sandia above SR-4	2005	UF	METALS	Lead	1	1	1	163	163	163	126	ug/L
E125	Sandia above SR-4	2005	UF	METALS	Silver	1	1	1	9.3	9.3	9.3	4.1	ug/L
E125	Sandia above SR-4	2005	UF	PEST/PCB	Aroclor-1260	1	1	1	0.13	0.13	0.13	0.0017	ug/L
E200	Mortandad below Effluent Canyon	2005	UF	PEST/PCB	Aroclor-1254	4	1	1	0.22	0.22	0.22	0.0017	ug/L
E201.5	Ten Site above Mortandad	2005	UF	METALS	Lead	4	4	1	63	9.5	128	126	ug/L
E201.5	Ten Site above Mortandad	2005	UF	METALS	Silver	4	4	2	4.0	1.2	8.1	4.1	ug/L
E218	Canada del Buey near TA-46	2004	UF	METALS	Arsenic	3	2	1	15.3	4.7	25.8	24.2	ug/L
E218	Canada del Buey near TA-46	2005	UF	PEST/PCB	Aroclor-1254	2	1	1	0.08	0.083	0.083	0.0017	ug/L
E227	MDA G-13	2004	UF	METALS	Vanadium	1	1	1	108	108	108	100	ug/L
E227	MDA G-13	2005	UF	METALS	Vanadium	4	4	1	56	19.4	105	100	ug/L
E227	MDA G-13	2005	UF	PEST/PCB	Aroclor-1254	3	1	1	0.25	0.25	0.25	0.0017	ug/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Arsenic	3	3	1	28.6	16.3	51.3	24.2	ug/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Lead	3	3	1	377	48	985	126	ug/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Selenium	3	1	1	5.6	5.6	5.6	5	ug/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Thallium	3	2	1	9	0.18	17.6	6.3	ug/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Vanadium	3	3	3	271	127	537	100	ug/L
E230	Canada del Buey above SR-4	2005	UF	METALS	Arsenic	1	1	1	49.6	49.6	49.6	24.2	ug/L
E230	Canada del Buey above SR-4	2005	UF	METALS	Lead	1	1	1	214	214	214	126	ug/L
E230	Canada del Buey above SR-4	2005	UF	METALS	Vanadium	1	1	1	321	321	321	100	ug/L
E241	Pajarito above Starmers	2005	UF	METALS	Lead	5	5	1	63	0.83	171	126	ug/L
E241	Pajarito above Starmers	2005	UF	METALS	Vanadium	5	5	1	51	1.8	134	100	ug/L

Table A2. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E242	Starmers above Pajarito	2004	UF	METALS	Silver	2	2	2	11.4	10.1	12.7	4.1	ug/L
E242	Starmers above Pajarito	2005	UF	METALS	Silver	2	2	1	60.8	0.69	121	4.1	ug/L
E242	Starmers above Pajarito	2005	UF	METALS	Vanadium	2	2	1	57	4.1	110	100	ug/L
E242.5	La Delfe above Pajarito	2005	UF	METALS	Mercury	5	4	1	0.51	0.24	0.79	0.77	ug/L
E242.5	La Delfe above Pajarito	2005	UF	METALS	Silver	5	4	2	2.6	0.25	5.2	4.1	ug/L
E243	Pajarito above Twomile	2005	UF	METALS	Arsenic	3	1	1	67.1	67.1	67.1	24.2	ug/L
E243	Pajarito above Twomile	2005	UF	METALS	Copper	3	3	1	240	2.9	642	521	ug/L
E243	Pajarito above Twomile	2005	UF	METALS	Lead	3	3	1	132	2.3	318	126	ug/L
E243	Pajarito above Twomile	2005	UF	METALS	Silver	3	2	1	37.5	0.6	74.3	4.1	ug/L
E243	Pajarito above Twomile	2005	UF	METALS	Vanadium	3	3	1	183	6.4	453	100	ug/L
E244	Twomile above Pajarito	2004	UF	METALS	Arsenic	3	2	2	36.0	26.1	45.9	24.2	ug/L
E244	Twomile above Pajarito	2004	UF	METALS	Lead	3	2	2	207	154	259	126	ug/L
E244	Twomile above Pajarito	2004	UF	METALS	Selenium	3	1	1	6.23	6.23	6.23	5	ug/L
E244	Twomile above Pajarito	2004	UF	METALS	Vanadium	3	2	2	153	101	204	100	ug/L
E244	Twomile above Pajarito	2005	UF	METALS	Arsenic	5	4	2	37.2	8.8	96.1	24.2	ug/L
E244	Twomile above Pajarito	2005	UF	METALS	Lead	5	5	3	211	0.67	552	126	ug/L
E244	Twomile above Pajarito	2005	UF	METALS	Selenium	5	1	1	5.4	5.4	5.4	5	ug/L
E244	Twomile above Pajarito	2005	UF	METALS	Silver	5	3	1	2.3	0.55	5.1	4.1	ug/L
E244	Twomile above Pajarito	2005	UF	METALS	Vanadium	5	4	2	189	42.7	453	100	ug/L
E245	Pajarito above TA-18	2005	UF	METALS	Arsenic	5	4	1	17.1	9.4	33.5	24.2	ug/L
E245	Pajarito above TA-18	2005	UF	METALS	Lead	5	5	1	83	2.5	209	126	ug/L
E245	Pajarito above TA-18	2005	UF	METALS	Silver	5	5	2	5.4	0.48	11.7	4.1	ug/L
E245	Pajarito above TA-18	2005	UF	METALS	Vanadium	5	5	1	83	6	211	100	ug/L
E245.5	Pajarito above Threemile	2004	UF	METALS	Arsenic	4	3	2	29.9	4.1	43.1	24.2	ug/L
E245.5	Pajarito above Threemile	2004	UF	METALS	Lead	4	3	2	173	81.2	230	126	ug/L
E245.5	Pajarito above Threemile	2004	UF	METALS	Vanadium	4	3	2	138	50	189	100	ug/L
E245.5	Pajarito above Threemile	2005	UF	METALS	Arsenic	5	4	2	21.2	9	30.7	24.2	ug/L
E245.5	Pajarito above Threemile	2005	UF	METALS	Lead	5	5	2	107	2.9	202	126	ug/L
E245.5	Pajarito above Threemile	2005	UF	METALS	Vanadium	5	5	3	93	6	161	100	ug/L
E246	Threemile above Pajarito	2004	UF	METALS	Arsenic	2	1	1	30.5	30.5	30.5	24.2	ug/L
E246	Threemile above Pajarito	2004	UF	METALS	Lead	2	2	1	164	88.6	240	126	ug/L
E246	Threemile above Pajarito	2004	UF	METALS	Vanadium	2	2	1	100	23.9	177	100	ug/L
E247	MDA G-1	2004	UF	METALS	Vanadium	3	3	1	93	49.5	146	100	ug/L
E247	MDA G-1	2005	UF	METALS	Arsenic	3	2	1	24.1	22.5	25.6	24.2	ug/L
E247	MDA G-1	2005	UF	METALS	Lead	3	3	1	88	27.4	137	126	ug/L
E247	MDA G-1	2005	UF	METALS	Vanadium	3	3	2	108	26.3	154	100	ug/L
E248.5	MDA G-6U	2005	UF	PEST/PCB	Aroclor-1254	4	1	1	0.11	0.11	0.11	0.0017	ug/L
E248.5	MDA G-6U	2005	UF	PEST/PCB	Aroclor-1260	4	1	1	0.10	0.095	0.095	0.0017	ug/L
E252.8	S Site Canyon above Water	2004	UF	METALS	Arsenic	1	1	1	95.1	95.1	95.1	24.2	ug/L
E252.8	S Site Canyon above Water	2004	UF	METALS	Lead	1	1	1	225	225	225	126	ug/L

Table A2. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E252.8	S Site Canyon above Water	2004	UF	METALS	Vanadium	1	1	1	483	483	483	100	ug/L
E252.8	S Site Canyon above Water	2005	UF	METALS	Arsenic	2	1	1	37.8	37.8	37.8	24.2	ug/L
E252.8	S Site Canyon above Water	2005	UF	METALS	Lead	2	2	1	84	13.7	154	126	ug/L
E252.8	S Site Canyon above Water	2005	UF	METALS	Vanadium	2	2	1	100	15.8	185	100	ug/L
E256	Canon de Valle below MDA P	2004	UF	METALS	Arsenic	3	3	1	24.0	11.9	43.1	24.2	ug/L
E256	Canon de Valle below MDA P	2004	UF	METALS	Lead	3	3	2	123	69.6	163	126	ug/L
E256	Canon de Valle below MDA P	2004	UF	METALS	Vanadium	3	3	2	142	79.3	229	100	ug/L
E256	Canon de Valle below MDA P	2005	UF	METALS	Silver	5	5	1	9.5	0.21	42.5	4.1	ug/L
E256	Canon de Valle below MDA P	2005	UF	METALS	Vanadium	5	4	1	77	13.5	141	100	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	UF	METALS	Arsenic	4	2	1	18.5	7.3	29.6	24.2	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	UF	METALS	Vanadium	4	4	1	61	10.7	174	100	ug/L
E262	Canon de Valle above Water	2005	UF	METALS	Arsenic	3	2	1	25.4	16.2	34.6	24.2	ug/L
E262	Canon de Valle above Water	2005	UF	METALS	Lead	3	3	1	103	1.5	185	126	ug/L
E262	Canon de Valle above Water	2005	UF	METALS	Silver	3	2	1	10.1	0.61	19.5	4.1	ug/L
E262	Canon de Valle above Water	2005	UF	METALS	Vanadium	3	2	1	139	100	177	100	ug/L
E262.5	Water below MDA AB	2004	UF	METALS	Selenium	3	1	1	7	7	7	5	ug/L
E262.5	Water below MDA AB	2004	UF	METALS	Vanadium	3	2	1	80	35.8	125	100	ug/L
E262.5	Water below MDA AB	2005	UF	METALS	Lead	4	4	1	69	0.51	129	126	ug/L
E262.5	Water below MDA AB	2005	UF	METALS	Vanadium	4	3	1	92	55.8	123	100	ug/L
E263	Water at SR-4	2004	UF	METALS	Arsenic	2	2	2	38.5	25.4	51.6	24.2	ug/L
E263	Water at SR-4	2004	UF	METALS	Lead	2	2	2	313	246	379	126	ug/L
E263	Water at SR-4	2004	UF	METALS	Vanadium	2	2	2	227	135	318	100	ug/L
E265	Water below SR-4	2004	UF	METALS	Arsenic	3	2	2	66.8	60	73.5	24.2	ug/L
E265	Water below SR-4	2004	UF	METALS	Lead	3	2	2	344	282	405	126	ug/L
E265	Water below SR-4	2004	UF	METALS	Silver	3	1	1	6	6	6	4.1	ug/L
E265	Water below SR-4	2004	UF	METALS	Vanadium	3	2	2	357	338	375	100	ug/L
E265	Water below SR-4	2005	UF	METALS	Lead	4	4	1	80	0.85	182	126	ug/L

Table A3. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E026	Los Alamos below Ice Rink	2004	UF	GENINORG	Magnesium	2	1	1	4.44	4.44	4.44	0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	UF	GENINORG	Magnesium	3	3	3	8.19	5.29	11.7	0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	UF	METALS	Aluminum	3	3	2	30507	1020	56800	5000	ug/L
E030	Los Alamos above DP Canyon	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	587	347	779	120	mg/L
E030	Los Alamos above DP Canyon	2004	UF	GENINORG	Magnesium	4	4	4	18.93	11	25.4	0.0636	mg/L
E030	Los Alamos above DP Canyon	2004	UF	METALS	Aluminum	4	4	4	72975	37500	139000	5000	ug/L
E030	Los Alamos above DP Canyon	2005	UF	GENINORG	Magnesium	4	4	4	6.86	3.61	10.6	0.0636	mg/L
E030	Los Alamos above DP Canyon	2005	UF	METALS	Aluminum	4	4	3	17685	1040	29700	5000	ug/L
E038	DP above TA-21	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	288	208	461	120	mg/L
E038	DP above TA-21	2004	UF	GENINORG	Magnesium	4	4	4	6.35	3.41	8.2	0.0636	mg/L
E038	DP above TA-21	2004	UF	METALS	Aluminum	4	4	4	35200	20300	47400	5000	ug/L
E038	DP above TA-21	2005	UF	GENINORG	Magnesium	4	4	4	5.01	2.47	8.04	0.0636	mg/L
E038	DP above TA-21	2005	UF	METALS	Aluminum	4	4	4	23765	9260	35400	5000	ug/L
E039	DP below Meadow at TA-21	2004	UF	GENINORG	Chemical Oxygen Demand	4	3	3	196	176	211	120	mg/L
E039	DP below Meadow at TA-21	2004	UF	GENINORG	Magnesium	4	3	3	6.18	4.43	7.71	0.0636	mg/L
E039	DP below Meadow at TA-21	2004	UF	METALS	Aluminum	3	3	3	40267	28200	49000	5000	ug/L
E039	DP below Meadow at TA-21	2005	UF	GENINORG	Magnesium	4	4	4	6.51	2.11	11.8	0.0636	mg/L
E039	DP below Meadow at TA-21	2005	UF	METALS	Aluminum	4	4	4	37720	6580	75200	5000	ug/L
E040	DP above Los Alamos Canyon	2004	UF	GENINORG	Magnesium	4	4	4	13.82	7.77	19.7	0.0636	mg/L
E040	DP above Los Alamos Canyon	2004	UF	METALS	Aluminum	4	4	4	84875	46900	130000	5000	ug/L
E040	DP above Los Alamos Canyon	2005	UF	GENINORG	Magnesium	5	5	5	9.78	5.68	16.7	0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	UF	METALS	Aluminum	5	5	4	48930	52.3	97200	5000	ug/L
E042	Los Alamos above SR-4	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	3	322	74.4	577	120	mg/L
E042	Los Alamos above SR-4	2004	UF	GENINORG	Magnesium	4	4	4	17.62	9.28	26	0.0636	mg/L
E042	Los Alamos above SR-4	2004	UF	METALS	Aluminum	4	4	4	86550	50000	117000	5000	ug/L
E042	Los Alamos above SR-4	2005	UF	GENINORG	Magnesium	6	6	6	14.77	6.06	33	0.0636	mg/L
E042	Los Alamos above SR-4	2005	UF	METALS	Aluminum	6	6	5	66928	1470	158000	5000	ug/L
E050	Los Alamos below LA Weir	2004	UF	GENINORG	Magnesium	1	1	1	6.33	6.33	6.33	0.0636	mg/L
E050	Los Alamos below LA Weir	2005	UF	GENINORG	Magnesium	5	5	5	5.72	4.52	7.25	0.0636	mg/L
E050	Los Alamos below LA Weir	2005	UF	METALS	Aluminum	5	5	4	16436	970	37000	5000	ug/L
E055	Pueblo above Acid	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	758	369	1490	120	mg/L
E055	Pueblo above Acid	2004	UF	GENINORG	Magnesium	4	4	4	16.02	7.79	22	0.0636	mg/L
E055	Pueblo above Acid	2004	UF	METALS	Aluminum	4	4	4	81275	32600	114000	5000	ug/L
E055	Pueblo above Acid	2005	UF	GENINORG	Magnesium	5	5	5	12.45	4.48	18.7	0.0636	mg/L
E055	Pueblo above Acid	2005	UF	METALS	Aluminum	5	5	4	68684	4220	108000	5000	ug/L
E055.5	South Fork of Acid Canyon	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	161	161	161	120	mg/L
E055.5	South Fork of Acid Canyon	2004	UF	GENINORG	Magnesium	1	1	1	5.84	5.84	5.84	0.0636	mg/L
E055.5	South Fork of Acid Canyon	2004	UF	METALS	Aluminum	1	1	1	34200	34200	34200	5000	ug/L
E055.5	South Fork of Acid Canyon	2005	UF	GENINORG	Magnesium	5	5	5	6.45	2.98	13.6	0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	UF	METALS	Aluminum	5	5	5	35780	19300	64300	5000	ug/L
E056	Acid above Pueblo	2005	UF	GENINORG	Magnesium	3	3	3	5.90	2.19	12	0.0636	mg/L
E056	Acid above Pueblo	2005	UF	METALS	Aluminum	3	3	3	33900	11200	68600	5000	ug/L

Table A3. Watershed Storm Water Monitoring, 2005
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Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E060	Pueblo above SR-502	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	3	250	187	294	120	mg/L
E060	Pueblo above SR-502	2004	UF	GENINORG	Magnesium	3	3	3	12.00	9.4	16	0.0636	mg/L
E060	Pueblo above SR-502	2004	UF	METALS	Aluminum	3	3	3	50567	24800	99800	5000	ug/L
E060	Pueblo above SR-502	2005	UF	GENINORG	Magnesium	4	4	4	7.17	4.78	8.64	0.0636	mg/L
E060	Pueblo above SR-502	2005	UF	METALS	Aluminum	4	4	4	20875	11000	39000	5000	ug/L
E110	Los Alamos at Rio Grande	2005	UF	GENINORG	Magnesium	1	1	1	8.33	8.33	8.33	0.0636	mg/L
E110	Los Alamos at Rio Grande	2005	UF	METALS	Aluminum	1	1	1	32600	32600	32600	5000	ug/L
E121	Sandia right fork at Power Plant	2004	UF	GENINORG	Magnesium	5	5	5	4.26	2.9	6.72	0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	UF	METALS	Aluminum	4	4	4	13445	6980	16900	5000	ug/L
E121	Sandia right fork at Power Plant	2005	UF	GENINORG	Magnesium	4	4	4	5.21	3.07	7.99	0.0636	mg/L
E121	Sandia right fork at Power Plant	2005	UF	METALS	Aluminum	4	4	3	24258	4730	47900	5000	ug/L
E122	Sandia left fork at Asphalt Plant	2004	UF	GENINORG	Chemical Oxygen Demand	6	6	1	94	46.4	170	120	mg/L
E122	Sandia left fork at Asphalt Plant	2004	UF	GENINORG	Magnesium	5	5	5	3.03	0.942	6.76	0.0636	mg/L
E122	Sandia left fork at Asphalt Plant	2004	UF	METALS	Aluminum	5	5	4	16658	1090	43400	5000	ug/L
E123	Sandia below Wetlands	2004	UF	GENINORG	Magnesium	4	4	4	10.28	8.3	11.7	0.0636	mg/L
E123	Sandia below Wetlands	2004	UF	METALS	Aluminum	4	4	4	28650	15600	51000	5000	ug/L
E123	Sandia below Wetlands	2005	UF	GENINORG	Magnesium	4	4	4	9.05	4.16	16	0.0636	mg/L
E123	Sandia below Wetlands	2005	UF	METALS	Aluminum	4	4	2	26030	2950	90200	5000	ug/L
E124	Sandia above Firing Range	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	2	287	8.89	449	120	mg/L
E124	Sandia above Firing Range	2004	UF	GENINORG	Magnesium	3	3	3	9.20	6.7	10.7	0.0636	mg/L
E124	Sandia above Firing Range	2004	UF	METALS	Aluminum	3	3	3	32350	6650	47300	5000	ug/L
E124	Sandia above Firing Range	2005	UF	GENINORG	Magnesium	4	4	4	10.76	6.42	14.7	0.0636	mg/L
E124	Sandia above Firing Range	2005	UF	METALS	Aluminum	4	4	3	30590	4960	66700	5000	ug/L
E125	Sandia above SR-4	2005	UF	GENINORG	Magnesium	1	1	1	14.70	14.7	14.7	0.0636	mg/L
E125	Sandia above SR-4	2005	UF	METALS	Aluminum	1	1	1	91000	91000	91000	5000	ug/L
E200	Mortandad below Effluent Canyon	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	2	144	22	245	120	mg/L
E200	Mortandad below Effluent Canyon	2004	UF	GENINORG	Magnesium	4	4	4	4.77	2.76	7.14	0.0636	mg/L
E200	Mortandad below Effluent Canyon	2004	UF	METALS	Aluminum	4	4	4	25300	13300	42300	5000	ug/L
E200	Mortandad below Effluent Canyon	2005	UF	GENINORG	Magnesium	4	4	4	6.82	5.21	7.82	0.0636	mg/L
E200	Mortandad below Effluent Canyon	2005	UF	METALS	Aluminum	4	4	4	36875	19500	46400	5000	ug/L
E201	Mortandad above Ten Site	2005	UF	GENINORG	Magnesium	2	2	2	4.55	4.5	4.59	0.0636	mg/L
E201	Mortandad above Ten Site	2005	UF	METALS	Aluminum	2	2	2	28950	27700	30200	5000	ug/L
E201.3	Ten Site below MDA C	2004	UF	GENINORG	Chemical Oxygen Demand	2	1	1	171	171	171	120	mg/L
E201.3	Ten Site below MDA C	2004	UF	GENINORG	Magnesium	4	4	4	3.09	0.744	9.85	0.0636	mg/L
E201.3	Ten Site below MDA C	2004	UF	METALS	Aluminum	3	3	1	23203	1370	65100	5000	ug/L
E201.3	Ten Site below MDA C	2005	UF	GENINORG	Magnesium	4	4	4	3.66	2.2	6.53	0.0636	mg/L
E201.3	Ten Site below MDA C	2005	UF	METALS	Aluminum	4	4	4	23325	13600	43100	5000	ug/L
E201.5	Ten Site above Mortandad	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	242	242	242	120	mg/L
E201.5	Ten Site above Mortandad	2004	UF	GENINORG	Magnesium	1	1	1	4.39	4.39	4.39	0.0636	mg/L
E201.5	Ten Site above Mortandad	2004	UF	METALS	Aluminum	1	1	1	22200	22200	22200	5000	ug/L
E201.5	Ten Site above Mortandad	2005	UF	GENINORG	Magnesium	4	4	4	7.33	2.45	11.7	0.0636	mg/L
E201.5	Ten Site above Mortandad	2005	UF	METALS	Aluminum	4	4	4	43075	10600	73100	5000	ug/L

Table A3. Watershed Storm Water Monitoring, 2005
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Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E202	Mortandad above Sediment Traps	2005	UF	GENINORG	Magnesium	2	2	2	3.39	2.64	4.13	0.0636	mg/L
E202	Mortandad above Sediment Traps	2005	UF	METALS	Aluminum	2	2	2	22100	16700	27500	5000	ug/L
E218	Canada del Buey near TA-46	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	1	171	5.9	500	120	mg/L
E218	Canada del Buey near TA-46	2004	UF	GENINORG	Magnesium	3	3	3	7.34	3.16	14.3	0.0636	mg/L
E218	Canada del Buey near TA-46	2004	UF	METALS	Aluminum	3	3	2	36028	783	92300	5000	ug/L
E218	Canada del Buey near TA-46	2005	UF	GENINORG	Magnesium	2	2	2	4.83	4.78	4.88	0.0636	mg/L
E227	MDA G-13	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	160	160	160	120	mg/L
E227	MDA G-13	2004	UF	GENINORG	Magnesium	1	1	1	27.80	27.8	27.8	0.0636	mg/L
E227	MDA G-13	2004	UF	METALS	Aluminum	1	1	1	79300	79300	79300	5000	ug/L
E227	MDA G-13	2005	UF	GENINORG	Magnesium	4	4	4	15.71	6.92	25.4	0.0636	mg/L
E227	MDA G-13	2005	UF	METALS	Aluminum	4	4	4	38280	8920	74200	5000	ug/L
E230	Canada del Buey above SR-4	2004	UF	GENINORG	Magnesium	3	3	3	44.13	22.2	84.9	0.0636	mg/L
E230	Canada del Buey above SR-4	2004	UF	METALS	Aluminum	3	3	3	216467	64400	484000	5000	ug/L
E230	Canada del Buey above SR-4	2005	UF	GENINORG	Magnesium	1	1	1	58.70	58.7	58.7	0.0636	mg/L
E230	Canada del Buey above SR-4	2005	UF	METALS	Aluminum	1	1	1	314000	314000	314000	5000	ug/L
E240	Pajarito below SR-501	2005	UF	GENINORG	Magnesium	3	3	3	6.74	3.39	11.4	0.0636	mg/L
E240	Pajarito below SR-501	2005	UF	METALS	Aluminum	3	3	2	26500	1600	40300	5000	ug/L
E241	Pajarito above Starmers	2004	UF	GENINORG	Magnesium	1	1	1	10.30	10.3	10.3	0.0636	mg/L
E241	Pajarito above Starmers	2004	UF	METALS	Aluminum	1	1	1	8590	8590	8590	5000	ug/L
E241	Pajarito above Starmers	2005	UF	GENINORG	Magnesium	5	5	5	8.63	4.17	18.5	0.0636	mg/L
E241	Pajarito above Starmers	2005	UF	METALS	Aluminum	5	5	4	32446	2930	92700	5000	ug/L
E242	Starmers above Pajarito	2004	UF	GENINORG	Magnesium	2	2	2	12.30	12	12.6	0.0636	mg/L
E242	Starmers above Pajarito	2004	UF	METALS	Aluminum	2	2	2	77350	70800	83900	5000	ug/L
E242	Starmers above Pajarito	2005	UF	GENINORG	Magnesium	2	2	2	8.11	4.22	12	0.0636	mg/L
E242	Starmers above Pajarito	2005	UF	METALS	Aluminum	2	2	2	32040	5480	58600	5000	ug/L
E242.5	La Delfe above Pajarito	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	336	336	336	120	mg/L
E242.5	La Delfe above Pajarito	2004	UF	GENINORG	Magnesium	1	1	1	5.17	5.17	5.17	0.0636	mg/L
E242.5	La Delfe above Pajarito	2004	UF	METALS	Aluminum	1	1	1	18300	18300	18300	5000	ug/L
E242.5	La Delfe above Pajarito	2005	UF	GENINORG	Magnesium	5	5	5	5.48	2.03	8.64	0.0636	mg/L
E242.5	La Delfe above Pajarito	2005	UF	METALS	Aluminum	5	5	5	22390	6680	51700	5000	ug/L
E243	Pajarito above Twomile	2004	UF	GENINORG	Magnesium	1	1	1	4.27	4.27	4.27	0.0636	mg/L
E243	Pajarito above Twomile	2005	UF	GENINORG	Magnesium	3	3	3	23.65	5.24	55.3	0.0636	mg/L
E243	Pajarito above Twomile	2005	UF	METALS	Aluminum	3	3	3	123400	7400	350000	5000	ug/L
E243.5	Twomile tributary at TA-3	2004	UF	GENINORG	Chemical Oxygen Demand	7	5	1	83	55.7	121	120	mg/L
E243.5	Twomile tributary at TA-3	2004	UF	GENINORG	Magnesium	8	8	8	0.64	0.247	1.7	0.0636	mg/L
E243.5	Twomile tributary at TA-3	2005	UF	GENINORG	Magnesium	4	4	4	1.12	0.652	2.01	0.0636	mg/L
E244	Twomile above Pajarito	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	2	1370	1170	1570	120	mg/L
E244	Twomile above Pajarito	2004	UF	GENINORG	Magnesium	3	3	3	17.01	4.53	31	0.0636	mg/L
E244	Twomile above Pajarito	2004	UF	METALS	Aluminum	3	3	2	79192	875	161000	5000	ug/L
E244	Twomile above Pajarito	2005	UF	GENINORG	Magnesium	5	5	5	21.57	5.58	62.8	0.0636	mg/L
E244	Twomile above Pajarito	2005	UF	METALS	Aluminum	5	5	4	111740	1900	364000	5000	ug/L
E245	Pajarito above TA-18	2004	UF	GENINORG	Magnesium	3	3	3	10.17	4.42	14.5	0.0636	mg/L

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Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E245	Pajarito above TA-18	2004	UF	METALS	Aluminum	3	3	2	49810	2530	86200	5000	ug/L
E245	Pajarito above TA-18	2005	UF	GENINORG	Magnesium	5	5	5	12.31	5.05	27.6	0.0636	mg/L
E245	Pajarito above TA-18	2005	UF	METALS	Aluminum	5	5	5	71714	6670	174000	5000	ug/L
E245.5	Pajarito above Threemile	2004	UF	GENINORG	Magnesium	4	4	4	16.34	4.2	27.6	0.0636	mg/L
E245.5	Pajarito above Threemile	2004	UF	METALS	Aluminum	4	4	3	85385	2040	173000	5000	ug/L
E245.5	Pajarito above Threemile	2005	UF	GENINORG	Magnesium	5	5	5	14.96	5.37	25.3	0.0636	mg/L
E245.5	Pajarito above Threemile	2005	UF	METALS	Aluminum	5	5	5	80388	7040	155000	5000	ug/L
E246	Threemile above Pajarito	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	1	370	45.9	694	120	mg/L
E246	Threemile above Pajarito	2004	UF	GENINORG	Magnesium	2	2	2	13.85	4.49	23.2	0.0636	mg/L
E246	Threemile above Pajarito	2004	UF	METALS	Aluminum	2	2	2	67150	8300	126000	5000	ug/L
E246	Threemile above Pajarito	2005	UF	GENINORG	Magnesium	1	1	1	3.75	3.75	3.75	0.0636	mg/L
E247	MDA G-1	2004	UF	GENINORG	Magnesium	3	3	3	15.29	9.26	23	0.0636	mg/L
E247	MDA G-1	2004	UF	METALS	Aluminum	3	3	3	63067	30400	114000	5000	ug/L
E247	MDA G-1	2005	UF	GENINORG	Magnesium	3	3	3	17.23	4.38	23.7	0.0636	mg/L
E247	MDA G-1	2005	UF	METALS	Aluminum	3	3	3	86733	21200	122000	5000	ug/L
E248.5	MDA G-6U	2004	UF	GENINORG	Magnesium	3	3	3	3.69	2.37	4.93	0.0636	mg/L
E248.5	MDA G-6U	2004	UF	METALS	Aluminum	3	3	3	13880	9340	20600	5000	ug/L
E248.5	MDA G-6U	2005	UF	GENINORG	Magnesium	4	4	4	8.11	3.59	19.1	0.0636	mg/L
E248.5	MDA G-6U	2005	UF	METALS	Aluminum	4	4	4	15200	12500	19700	5000	ug/L
E249	MDA G-4	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	387	387	387	120	mg/L
E249	MDA G-4	2004	UF	GENINORG	Magnesium	1	1	1	2.84	2.84	2.84	0.0636	mg/L
E249	MDA G-4	2004	UF	METALS	Aluminum	1	1	1	5150	5150	5150	5000	ug/L
E250	Pajarito above SR-4	2004	UF	GENINORG	Magnesium	2	2	2	6.68	6.3	7.05	0.0636	mg/L
E250	Pajarito above SR-4	2004	UF	METALS	Aluminum	1	1	1	8130	8130	8130	5000	ug/L
E250	Pajarito above SR-4	2005	UF	GENINORG	Magnesium	2	2	2	6.38	6.18	6.58	0.0636	mg/L
E250	Pajarito above SR-4	2005	UF	METALS	Aluminum	2	2	1	9128	955	17300	5000	ug/L
E252	Water above SR-501	2005	UF	GENINORG	Magnesium	1	1	1	5.53	5.53	5.53	0.0636	mg/L
E252.5	Water above S Site Canyon	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	464	464	464	120	mg/L
E252.5	Water above S Site Canyon	2004	UF	GENINORG	Magnesium	2	2	2	8.45	5	11.9	0.0636	mg/L
E252.5	Water above S Site Canyon	2004	UF	METALS	Aluminum	2	2	1	18364	227	36500	5000	ug/L
E252.5	Water above S Site Canyon	2005	UF	GENINORG	Magnesium	2	2	2	7.62	5.29	9.94	0.0636	mg/L
E252.5	Water above S Site Canyon	2005	UF	METALS	Aluminum	2	2	1	27310	1220	53400	5000	ug/L
E252.8	S Site Canyon above Water	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	921	921	921	120	mg/L
E252.8	S Site Canyon above Water	2004	UF	GENINORG	Magnesium	1	1	1	69.50	69.5	69.5	0.0636	mg/L
E252.8	S Site Canyon above Water	2004	UF	METALS	Aluminum	1	1	1	397000	397000	397000	5000	ug/L
E252.8	S Site Canyon above Water	2005	UF	GENINORG	Magnesium	2	2	2	14.01	3.32	24.7	0.0636	mg/L
E252.8	S Site Canyon above Water	2005	UF	METALS	Aluminum	2	2	2	85000	15000	155000	5000	ug/L
E253	Canon de Valle above SR-501	2005	UF	GENINORG	Magnesium	2	2	2	5.28	3.85	6.7	0.0636	mg/L
E253	Canon de Valle above SR-501	2005	UF	METALS	Aluminum	2	2	1	17110	4420	29800	5000	ug/L
E256	Canon de Valle below MDA P	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	3	350	182	606	120	mg/L
E256	Canon de Valle below MDA P	2004	UF	GENINORG	Magnesium	3	3	3	22.03	13.4	35.2	0.0636	mg/L
E256	Canon de Valle below MDA P	2004	UF	METALS	Aluminum	3	3	3	138633	76900	232000	5000	ug/L

Table A3. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E256	Canon de Valle below MDA P	2005	UF	GENINORG	Magnesium	5	5	5	9.54	3.08	18.7	0.0636	mg/L
E256	Canon de Valle below MDA P	2005	UF	METALS	Aluminum	5	5	4	58258	2280	137000	5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	1	96	56.1	186	120	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	UF	GENINORG	Magnesium	4	4	4	6.46	3.11	11.9	0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	UF	METALS	Aluminum	4	4	4	34360	6840	76000	5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	UF	GENINORG	Magnesium	4	4	4	8.26	1.59	21.4	0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2005	UF	METALS	Aluminum	4	4	3	51398	4390	149000	5000	ug/L
E262	Canon de Valle above Water	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	547	547	547	120	mg/L
E262	Canon de Valle above Water	2004	UF	GENINORG	Magnesium	1	1	1	11.20	11.2	11.2	0.0636	mg/L
E262	Canon de Valle above Water	2004	UF	METALS	Aluminum	1	1	1	30000	30000	30000	5000	ug/L
E262	Canon de Valle above Water	2005	UF	GENINORG	Magnesium	3	3	3	15.07	3.61	23.7	0.0636	mg/L
E262	Canon de Valle above Water	2005	UF	METALS	Aluminum	3	3	3	77563	6490	146000	5000	ug/L
E262.5	Water below MDA AB	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	2	616	288	944	120	mg/L
E262.5	Water below MDA AB	2004	UF	GENINORG	Magnesium	3	3	3	9.73	4.86	18.2	0.0636	mg/L
E262.5	Water below MDA AB	2004	UF	METALS	Aluminum	3	3	2	40599	196	114000	5000	ug/L
E262.5	Water below MDA AB	2005	UF	GENINORG	Magnesium	4	4	4	12.26	4.91	19.8	0.0636	mg/L
E262.5	Water below MDA AB	2005	UF	METALS	Aluminum	4	4	3	69725	1300	129000	5000	ug/L
E263	Water at SR-4	2004	UF	GENINORG	Magnesium	2	2	2	38.05	20.2	55.9	0.0636	mg/L
E263	Water at SR-4	2004	UF	METALS	Aluminum	2	2	2	166900	55800	278000	5000	ug/L
E263	Water at SR-4	2005	UF	GENINORG	Magnesium	3	3	3	8.64	5.02	10.9	0.0636	mg/L
E263	Water at SR-4	2005	UF	METALS	Aluminum	3	3	2	42023	1970	67000	5000	ug/L
E265	Water below SR-4	2004	UF	GENINORG	Magnesium	3	2	2	66.75	56.3	77.2	0.0636	mg/L
E265	Water below SR-4	2004	UF	METALS	Aluminum	2	2	2	304500	293000	316000	5000	ug/L
E265	Water below SR-4	2005	UF	GENINORG	Magnesium	4	4	4	11.42	5.19	16.6	0.0636	mg/L
E265	Water below SR-4	2005	UF	METALS	Aluminum	4	4	3	60915	2060	93400	5000	ug/L
E267	Potrillo above SR-4	2005	UF	GENINORG	Magnesium	1	1	1	7.19	7.19	7.19	0.0636	mg/L
E267	Potrillo above SR-4	2005	UF	METALS	Aluminum	1	1	1	44300	44300	44300	5000	ug/L

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Table A4. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Gross Alpha

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E026	Los Alamos below Ice Rink	2005	UF	RAD	Gross alpha	2	1	1	37	36.8	36.8	15	pCi/L
E030	Los Alamos above DP Canyon	2004	UF	RAD	Gross alpha	4	4	4	147	54	291	15	pCi/L
E038	DP above TA-21	2004	UF	RAD	Gross alpha	4	3	2	98	4.02	234	15	pCi/L
E038	DP above TA-21	2005	UF	RAD	Gross alpha	4	4	2	17	2.08	34.2	15	pCi/L
E039	DP below Meadow at TA-21	2004	UF	RAD	Gross alpha	4	3	3	53	27.1	79.3	15	pCi/L
E039	DP below Meadow at TA-21	2005	UF	RAD	Gross alpha	4	4	2	32	3.37	75.7	15	pCi/L
E040	DP above Los Alamos Canyon	2004	UF	RAD	Gross alpha	4	4	4	165	59.8	368	15	pCi/L
E040	DP above Los Alamos Canyon	2005	UF	RAD	Gross alpha	5	4	4	91	30.2	123	15	pCi/L
E042	Los Alamos above SR-4	2004	UF	RAD	Gross alpha	4	4	4	275	21.5	848	15	pCi/L
E042	Los Alamos above SR-4	2005	UF	RAD	Gross alpha	6	5	4	99	7.4	243	15	pCi/L
E050	Los Alamos below LA Weir	2005	UF	RAD	Gross alpha	5	4	3	25	2.95	49.2	15	pCi/L
E055	Pueblo above Acid	2004	UF	RAD	Gross alpha	4	4	4	142	65.5	214	15	pCi/L
E055	Pueblo above Acid	2005	UF	RAD	Gross alpha	5	4	4	35	22.6	57.7	15	pCi/L
E055.5	South Fork of Acid Canyon	2005	UF	RAD	Gross alpha	3	3	3	53	36.1	79.9	15	pCi/L
E056	Acid above Pueblo	2005	UF	RAD	Gross alpha	2	2	2	124	95.4	153	15	pCi/L
E060	Pueblo above SR-502	2004	UF	RAD	Gross alpha	3	3	3	44	16.1	85.1	15	pCi/L
E060	Pueblo above SR-502	2005	UF	RAD	Gross alpha	4	4	2	17	5.13	33	15	pCi/L
E110	Los Alamos at Rio Grande	2005	UF	RAD	Gross alpha	1	1	1	48	47.7	47.7	15	pCi/L
E121	Sandia right fork at Power Plant	2004	UF	RAD	Gross alpha	3	3	2	21	5.79	32	15	pCi/L
E121	Sandia right fork at Power Plant	2005	UF	RAD	Gross alpha	4	4	3	19	11.3	26.6	15	pCi/L
E124	Sandia above Firing Range	2004	UF	RAD	Gross alpha	3	3	2	362	6.48	877	15	pCi/L
E124	Sandia above Firing Range	2005	UF	RAD	Gross alpha	4	4	4	110	20	261	15	pCi/L
E125	Sandia above SR-4	2005	UF	RAD	Gross alpha	1	1	1	47	47.3	47.3	15	pCi/L
E200	Mortandad below Effluent Canyon	2004	UF	RAD	Gross alpha	4	4	4	223	26.8	751	15	pCi/L
E200	Mortandad below Effluent Canyon	2005	UF	RAD	Gross alpha	4	4	4	104	29.7	232	15	pCi/L
E201	Mortandad above Ten Site	2005	UF	RAD	Gross alpha	2	2	2	120	112	127	15	pCi/L
E201.3	Ten Site below MDA C	2005	UF	RAD	Gross alpha	2	2	2	40	32.3	47.3	15	pCi/L
E201.5	Ten Site above Mortandad	2005	UF	RAD	Gross alpha	3	3	2	30	6.21	54.4	15	pCi/L
E202	Mortandad above Sediment Traps	2005	UF	RAD	Gross alpha	1	1	1	96	95.8	95.8	15	pCi/L
E218	Canada del Buey near TA-46	2004	UF	RAD	Gross alpha	2	1	1	50	49.5	49.5	15	pCi/L
E218	Canada del Buey near TA-46	2005	UF	RAD	Gross alpha	2	2	1	36	7.14	64.6	15	pCi/L
E227	MDA G-13	2005	UF	RAD	Gross alpha	2	2	2	69	31.2	106	15	pCi/L
E230	Canada del Buey above SR-4	2004	UF	RAD	Gross alpha	3	3	3	415	68.6	979	15	pCi/L
E240	Pajarito below SR-501	2005	UF	RAD	Gross alpha	3	2	2	173	68.3	277	15	pCi/L
E243	Pajarito above Twomile	2005	UF	RAD	Gross alpha	4	4	3	64	2.06	119	15	pCi/L
E243.5	Twomile tributary at TA-3	2004	UF	RAD	Gross alpha	6	6	1	13	5.33	37.3	15	pCi/L
E244	Twomile above Pajarito	2004	UF	RAD	Gross alpha	3	2	2	658	235	1080	15	pCi/L
E245	Pajarito above TA-18	2004	UF	RAD	Gross alpha	2	1	1	30	29.7	29.7	15	pCi/L
E245	Pajarito above TA-18	2005	UF	RAD	Gross alpha	4	4	3	34	3.33	77.3	15	pCi/L
E245.5	Pajarito above Threemile	2004	UF	RAD	Gross alpha	3	2	2	228	221	234	15	pCi/L

Table A4. Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Gross Alpha

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
E245.5	Pajarito above Threemile	2005	UF	RAD	Gross alpha	5	5	4	72	2.94	218	15	pCi/L
E246	Threemile above Pajarito	2004	UF	RAD	Gross alpha	2	2	2	206	148	264	15	pCi/L
E247	MDA G-1	2004	UF	RAD	Gross alpha	2	2	2	361	81.7	641	15	pCi/L
E247	MDA G-1	2005	UF	RAD	Gross alpha	3	2	2	87	76.7	97.7	15	pCi/L
E248.5	MDA G-6U	2004	UF	RAD	Gross alpha	1	1	1	132	132	132	15	pCi/L
E248.5	MDA G-6U	2005	UF	RAD	Gross alpha	4	4	2	47	5.39	85.7	15	pCi/L
E262.5	Water below MDA AB	2004	UF	RAD	Gross alpha	2	1	1	188	188	188	15	pCi/L
E262.5	Water below MDA AB	2005	UF	RAD	Gross alpha	3	2	2	49	37.7	60	15	pCi/L
E263	Water at SR-4	2004	UF	RAD	Gross alpha	1	1	1	604	604	604	15	pCi/L
E265	Water below SR-4	2004	UF	RAD	Gross alpha	3	2	2	97	32.5	161	15	pCi/L
E265	Water below SR-4	2005	UF	RAD	Gross alpha	3	2	2	46	24	67.3	15	pCi/L
E267	Potrillo above SR-4	2005	UF	RAD	Gross alpha	1	1	1	80	80.4	80.4	15	pCi/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E026	Los Alamos below Ice Rink	2004	Q2	4/28/2004	UF	GU04040M02601	GENINORG	Magnesium		4.44	mg/L			0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	Q1	3/18/2005	UF	GU05030M02601	GENINORG	Magnesium		5.29	mg/L			0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	Q2	4/16/2005	UF	GU05040E02601	GENINORG	Magnesium		11.7	mg/L			0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	Q2	4/16/2005	UF	GU05040E02601	METALS	Aluminum		56800	ug/L			5000	ug/L
E026	Los Alamos below Ice Rink	2005	Q2	4/17/2005	UF	GU05040E02602	GENINORG	Magnesium		7.58	mg/L			0.0636	mg/L
E026	Los Alamos below Ice Rink	2005	Q2	4/17/2005	UF	GU05040E02602	METALS	Aluminum		33700	ug/L			5000	ug/L
E026	Los Alamos below Ice Rink	2005	Q2	4/17/2005	UF	GU05040E02602	RAD	Gross alpha		36.8	pCi/L			15	pCi/L
E030	Los Alamos above DP Canyon	2004	Q2	4/4/2004	UF	GU04040E03002	GENINORG	Magnesium		11	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2004	Q2	4/4/2004	UF	GU04040E03002	METALS	Aluminum		42000	ug/L	E		5000	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	GENINORG	Chemical Oxygen Demand		779	mg/L			120	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	GENINORG	Magnesium		25.4	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	METALS	Aluminum		139000	ug/L			5000	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	METALS	Arsenic		26.3	ug/L	*		24.2	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	METALS	Lead		281	ug/L	E		126	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	METALS	Vanadium		180	ug/L			100	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/23/2004	UF	GU04070E03001	PEST/PCB	Aroclor-1260		0.12	ug/L			0.0017	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	7/27/2004	UF	GU04070E03002	GENINORG	Chemical Oxygen Demand		347	mg/L			120	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	7/27/2004	UF	GU04070E03002	RAD	Gross alpha		74.8	pCi/L			15	pCi/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	GENINORG	Chemical Oxygen Demand		728	mg/L			120	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	GENINORG	Magnesium		16.5	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	METALS	Aluminum		73400	ug/L	E		5000	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	METALS	Lead		294	ug/L	E		126	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	METALS	Vanadium		115	ug/L			100	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	RAD	Gross alpha		291	pCi/L			15	pCi/L
E030	Los Alamos above DP Canyon	2004	Q3	8/20/2004	UF	GU04080E03002	GENINORG	Chemical Oxygen Demand		492	mg/L			120	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	8/20/2004	UF	GU04080E03002	GENINORG	Magnesium		22.8	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2004	Q3	8/20/2004	UF	GU04080E03002	METALS	Aluminum		37500	ug/L			5000	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	8/20/2004	UF	GU04080E03002	METALS	Lead		249	ug/L			126	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	8/20/2004	UF	GU04080E03002	METALS	Vanadium		119	ug/L			100	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	9/27/2004	UF	GU04090E03001	METALS	Mercury		1.2	ug/L			0.77	ug/L
E030	Los Alamos above DP Canyon	2004	Q3	9/27/2004	UF	GU04090E03001	RAD	Gross alpha		167	pCi/L			15	pCi/L
E030	Los Alamos above DP Canyon	2004	Q4	10/5/2004	UF	GU04100E03001	RAD	Gross alpha		54	pCi/L			15	pCi/L
E030	Los Alamos above DP Canyon	2005	Q1	3/18/2005	UF	GU05030M03001	GENINORG	Magnesium		6.02	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	GENINORG	Magnesium		10.6	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	METALS	Aluminum		29700	ug/L			5000	ug/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	METALS	Lead		552	ug/L			126	ug/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	METALS	Mercury		0.83	ug/L			0.77	ug/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	PEST/PCB	Aroclor-1254		0.36	ug/L		J-	0.0017	ug/L
E030	Los Alamos above DP Canyon	2005	Q3	8/12/2005	UF	GU05080E03001	PEST/PCB	Aroclor-1260		0.52	ug/L		J-	0.0017	ug/L
E030	Los Alamos above DP Canyon	2005	Q3	9/29/2005	UF	GU05090E03001	GENINORG	Magnesium		3.61	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2005	Q3	9/29/2005	UF	GU05090E03001	METALS	Aluminum		18900	ug/L			5000	ug/L
E030	Los Alamos above DP Canyon	2005	Q4	10/19/2005	UF	GU05100E03001	GENINORG	Magnesium		7.22	mg/L			0.0636	mg/L
E030	Los Alamos above DP Canyon	2005	Q4	10/19/2005	UF	GU05100E03001	METALS	Aluminum		21100	ug/L			5000	ug/L
E030	Los Alamos above DP Canyon	2005	Q4	10/19/2005	UF	GU05100E03001	PEST/PCB	Aroclor-1260		0.062	ug/L	J		0.0017	ug/L
E038	DP above TA-21	2004	Q2	6/25/2004	UF	GU04060E03801	GENINORG	Chemical Oxygen Demand		461	mg/L			120	mg/L
E038	DP above TA-21	2004	Q2	6/25/2004	UF	GU04060E03801	GENINORG	Magnesium		8.2	mg/L			0.0636	mg/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E038	DP above TA-21	2004	Q2	6/25/2004	UF	GU04060E03801	METALS	Aluminum		36600	ug/L			5000	ug/L
E038	DP above TA-21	2004	Q3	7/18/2004	UF	GU04070E03801	GENINORG	Chemical Oxygen Demand		251	mg/L			120	mg/L
E038	DP above TA-21	2004	Q3	7/18/2004	UF	GU04070E03801	GENINORG	Magnesium		8.13	mg/L	N		0.0636	mg/L
E038	DP above TA-21	2004	Q3	7/18/2004	UF	GU04070E03801	METALS	Aluminum		47400	ug/L	*		5000	ug/L
E038	DP above TA-21	2004	Q3	7/18/2004	UF	GU04070E03801	METALS	Lead		162	ug/L			126	ug/L
E038	DP above TA-21	2004	Q3	7/23/2004	UF	GU04070E03803	GENINORG	Chemical Oxygen Demand		233	mg/L			120	mg/L
E038	DP above TA-21	2004	Q3	7/23/2004	UF	GU04070E03803	GENINORG	Magnesium		5.65	mg/L			0.0636	mg/L
E038	DP above TA-21	2004	Q3	7/23/2004	UF	GU04070E03803	METALS	Aluminum		36500	ug/L			5000	ug/L
E038	DP above TA-21	2004	Q3	7/23/2004	UF	GU04070E03803	RAD	Gross alpha		56.4	pCi/L			15	pCi/L
E038	DP above TA-21	2004	Q3	7/27/2004	UF	GU04070E03804	GENINORG	Chemical Oxygen Demand		208	mg/L			120	mg/L
E038	DP above TA-21	2004	Q3	7/27/2004	UF	GU04070E03804	GENINORG	Magnesium		3.41	mg/L			0.0636	mg/L
E038	DP above TA-21	2004	Q3	7/27/2004	UF	GU04070E03804	METALS	Aluminum		20300	ug/L			5000	ug/L
E038	DP above TA-21	2004	Q3	8/16/2004	UF	GU04080E03801	RAD	Gross alpha		234	pCi/L			15	pCi/L
E038	DP above TA-21	2005	Q2	4/16/2005	UF	GU05040E03801	GENINORG	Magnesium		8.04	mg/L	N	J+	0.0636	mg/L
E038	DP above TA-21	2005	Q2	4/16/2005	UF	GU05040E03801	METALS	Aluminum		35400	ug/L		J	5000	ug/L
E038	DP above TA-21	2005	Q2	4/24/2005	UF	GU05040E03802	GENINORG	Magnesium		4.28	mg/L			0.0636	mg/L
E038	DP above TA-21	2005	Q2	4/24/2005	UF	GU05040E03802	METALS	Aluminum		23800	ug/L			5000	ug/L
E038	DP above TA-21	2005	Q2	4/25/2005	UF	GU05040E03803	GENINORG	Magnesium		2.47	mg/L			0.0636	mg/L
E038	DP above TA-21	2005	Q2	4/25/2005	UF	GU05040E03803	METALS	Aluminum		9260	ug/L	N	J+	5000	ug/L
E038	DP above TA-21	2005	Q2	5/3/2005	UF	GU05050E03802	GENINORG	Magnesium		5.25	mg/L			0.0636	mg/L
E038	DP above TA-21	2005	Q2	5/3/2005	UF	GU05050E03802	METALS	Aluminum		26600	ug/L	N	J+	5000	ug/L
E038	DP above TA-21	2005	Q3	7/15/2005	UF	GU05070E03801	RAD	Gross alpha		34.2	pCi/L			15	pCi/L
E038	DP above TA-21	2005	Q3	8/5/2005	UF	GU05080E03801	RAD	Gross alpha		29.1	pCi/L		J-	15	pCi/L
E039	DP below Meadow at TA-21	2004	Q3	7/18/2004	UF	GU04070E03901	GENINORG	Chemical Oxygen Demand		211	mg/L			120	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/18/2004	UF	GU04070E03901	GENINORG	Magnesium		7.71	mg/L	N		0.0636	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/18/2004	UF	GU04070E03901	METALS	Aluminum		49000	ug/L	*		5000	ug/L
E039	DP below Meadow at TA-21	2004	Q3	7/18/2004	UF	GU04070E03901	RAD	Gross alpha		79.3	pCi/L			15	pCi/L
E039	DP below Meadow at TA-21	2004	Q3	7/23/2004	UF	GU04070E03902	GENINORG	Chemical Oxygen Demand		202	mg/L			120	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/23/2004	UF	GU04070E03902	GENINORG	Magnesium		6.41	mg/L			0.0636	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/23/2004	UF	GU04070E03902	METALS	Aluminum		43600	ug/L			5000	ug/L
E039	DP below Meadow at TA-21	2004	Q3	7/23/2004	UF	GU04070E03902	RAD	Gross alpha		52.1	pCi/L			15	pCi/L
E039	DP below Meadow at TA-21	2004	Q3	7/27/2004	UF	GU04070E03903	GENINORG	Chemical Oxygen Demand		176	mg/L			120	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/27/2004	UF	GU04070E03903	GENINORG	Magnesium		4.43	mg/L			0.0636	mg/L
E039	DP below Meadow at TA-21	2004	Q3	7/27/2004	UF	GU04070E03903	METALS	Aluminum		28200	ug/L			5000	ug/L
E039	DP below Meadow at TA-21	2004	Q3	7/27/2004	UF	GU04070E03903	RAD	Gross alpha		27.1	pCi/L			15	pCi/L
E039	DP below Meadow at TA-21	2005	Q2	5/3/2005	UF	GU05050E03901	GENINORG	Magnesium		2.66	mg/L			0.0636	mg/L
E039	DP below Meadow at TA-21	2005	Q2	5/3/2005	UF	GU05050E03901	METALS	Aluminum		14900	ug/L	N	J+	5000	ug/L
E039	DP below Meadow at TA-21	2005	Q3	7/15/2005	UF	GU05070E03901	GENINORG	Magnesium		9.47	mg/L			0.0636	mg/L
E039	DP below Meadow at TA-21	2005	Q3	7/15/2005	UF	GU05070E03901	METALS	Aluminum		54200	ug/L			5000	ug/L
E039	DP below Meadow at TA-21	2005	Q3	7/15/2005	UF	GU05070E03901	METALS	Lead		133	ug/L	E	J	126	ug/L
E039	DP below Meadow at TA-21	2005	Q3	7/15/2005	UF	GU05070E03901	RAD	Gross alpha		75.7	pCi/L			15	pCi/L
E039	DP below Meadow at TA-21	2005	Q3	8/4/2005	UF	GU05080E03901	GENINORG	Magnesium		11.8	mg/L			0.0636	mg/L
E039	DP below Meadow at TA-21	2005	Q3	8/4/2005	UF	GU05080E03901	METALS	Aluminum		75200	ug/L			5000	ug/L
E039	DP below Meadow at TA-21	2005	Q3	8/4/2005	UF	GU05080E03901	METALS	Lead		161	ug/L			126	ug/L
E039	DP below Meadow at TA-21	2005	Q3	8/4/2005	UF	GU05080E03901	RAD	Gross alpha		40.7	pCi/L		J-	15	pCi/L
E039	DP below Meadow at TA-21	2005	Q3	8/12/2005	UF	GU05080E03902	GENINORG	Magnesium		2.11	mg/L			0.0636	mg/L

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E039	DP below Meadow at TA-21	2005	Q3	8/12/2005	UF	GU05080E03902	METALS	Aluminum		6580	ug/L		J	5000	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	GENINORG	Magnesium		19.7	mg/L	N		0.0636	mg/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	METALS	Aluminum		130000	ug/L	*		5000	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	METALS	Arsenic		30.9	ug/L			24.2	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	METALS	Lead		509	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	METALS	Vanadium		156	ug/L			100	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	RAD	Gross alpha		368	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	7/27/2004	UF	GU04070E04002	GENINORG	Magnesium		7.77	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2004	Q3	7/27/2004	UF	GU04070E04002	METALS	Aluminum		46900	ug/L			5000	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/27/2004	UF	GU04070E04002	METALS	Lead		177	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	7/27/2004	UF	GU04070E04002	RAD	Gross alpha		146	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	8/11/2004	UF	GU04080E04001	GENINORG	Magnesium		12.2	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2004	Q3	8/11/2004	UF	GU04080E04001	METALS	Aluminum		69700	ug/L			5000	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	8/11/2004	UF	GU04080E04001	METALS	Lead		268	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	8/11/2004	UF	GU04080E04001	RAD	Gross alpha		87.9	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	8/15/2004	UF	GU04080E04002	GENINORG	Magnesium		15.6	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2004	Q3	8/15/2004	UF	GU04080E04002	METALS	Aluminum		92900	ug/L			5000	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	8/15/2004	UF	GU04080E04002	METALS	Lead		266	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	8/15/2004	UF	GU04080E04002	METALS	Vanadium		122	ug/L			100	ug/L
E040	DP above Los Alamos Canyon	2004	Q3	8/18/2004	UF	GU04080E04003	RAD	Gross alpha		59.8	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2005	Q1	3/22/2005	UF	GU05030M04001	GENINORG	Magnesium		5.68	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	Q2	5/3/2005	UF	GU05050E04001	GENINORG	Magnesium		5.98	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	Q2	5/3/2005	UF	GU05050E04001	METALS	Aluminum		34700	ug/L			5000	ug/L
E040	DP above Los Alamos Canyon	2005	Q2	5/3/2005	UF	GU05050E04001	RAD	Gross alpha		30.2	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	GENINORG	Magnesium		11.6	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	METALS	Aluminum		60500	ug/L		J	5000	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	METALS	Lead		352	ug/L		J	126	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	METALS	Vanadium		107	ug/L			100	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	RAD	Gross alpha		121	pCi/L		J-	15	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	GENINORG	Magnesium		16.7	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	METALS	Aluminum		97200	ug/L		J	5000	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	METALS	Arsenic		27.8	ug/L			24.2	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	METALS	Lead		329	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	METALS	Vanadium		140	ug/L			100	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	RAD	Gross alpha		90.5	pCi/L			15	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/12/2005	UF	GU05080E04004	GENINORG	Magnesium		8.96	mg/L			0.0636	mg/L
E040	DP above Los Alamos Canyon	2005	Q3	8/12/2005	UF	GU05080E04004	METALS	Aluminum		52200	ug/L			5000	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/12/2005	UF	GU05080E04004	METALS	Lead		181	ug/L			126	ug/L
E040	DP above Los Alamos Canyon	2005	Q3	8/12/2005	UF	GU05080E04004	RAD	Gross alpha		123	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2004	Q2	4/3/2004	UF	GU04040E04202	GENINORG	Magnesium		14.3	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2004	Q2	4/3/2004	UF	GU04040E04202	METALS	Aluminum		67200	ug/L	E		5000	ug/L
E042	Los Alamos above SR-4	2004	Q2	4/3/2004	UF	GU04040E04202	METALS	Lead		160	ug/L			126	ug/L
E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	GENINORG	Chemical Oxygen Demand		577	mg/L			120	mg/L
E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	GENINORG	Magnesium		9.28	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	METALS	Aluminum		50000	ug/L			5000	ug/L
E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	METALS	Lead		230	ug/L	E		126	ug/L

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E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	RAD	Gross alpha		848	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	GENINORG	Magnesium		26	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	METALS	Aluminum		117000	ug/L			5000	ug/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	METALS	Arsenic		39.7	ug/L			24.2	ug/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	METALS	Lead		412	ug/L	E		126	ug/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	METALS	Vanadium		171	ug/L			100	ug/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	RAD	Gross alpha		118	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	GENINORG	Chemical Oxygen Demand		457	mg/L			120	mg/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	GENINORG	Magnesium		20.9	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	METALS	Aluminum		112000	ug/L	N		5000	ug/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	METALS	Arsenic		29.5	ug/L			24.2	ug/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	METALS	Lead		256	ug/L			126	ug/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	METALS	Vanadium		139	ug/L			100	ug/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	RAD	Gross alpha		114	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2004	Q4	10/11/2004	UF	GU04100E04202	GENINORG	Chemical Oxygen Demand		180	mg/L			120	mg/L
E042	Los Alamos above SR-4	2004	Q4	10/11/2004	UF	GU04100E04202	RAD	Gross alpha		21.5	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2005	Q1	3/18/2005	UF	GU05030M04201	GENINORG	Magnesium		6.06	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	GENINORG	Magnesium		33	mg/L	N	J+	0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	METALS	Aluminum		158000	ug/L		J	5000	ug/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	METALS	Arsenic		42.3	ug/L			24.2	ug/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	METALS	Lead		406	ug/L			126	ug/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	METALS	Mercury		0.82	ug/L			0.77	ug/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	METALS	Vanadium		193	ug/L			100	ug/L
E042	Los Alamos above SR-4	2005	Q2	4/16/2005	UF	GU05040E04201	RAD	Gross alpha		24.4	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2005	Q2	5/3/2005	UF	GU05050E04201	GENINORG	Magnesium		7.89	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q2	5/3/2005	UF	GU05050E04201	METALS	Aluminum		31200	ug/L			5000	ug/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	GENINORG	Magnesium		9.23	mg/L	N		0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	METALS	Aluminum		28900	ug/L	N*		5000	ug/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	METALS	Lead		245	ug/L			126	ug/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	PEST/PCB	Aroclor-1254		0.39	ug/L	P		0.0017	ug/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	PEST/PCB	Aroclor-1260		0.57	ug/L	P		0.0017	ug/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	RAD	Gross alpha		90.4	pCi/L			15	pCi/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	GENINORG	Magnesium		22.7	mg/L	N*	J, J+	0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	METALS	Aluminum		123000	ug/L	*	J	5000	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	METALS	Arsenic		45.7	ug/L			24.2	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	METALS	Lead		398	ug/L			126	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	METALS	Vanadium		160	ug/L	*	J	100	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	RAD	Gross alpha		243	pCi/L		J-	15	pCi/L
E042	Los Alamos above SR-4	2005	Q3	8/12/2005	UF	GU05080E04202	GENINORG	Magnesium		9.75	mg/L			0.0636	mg/L
E042	Los Alamos above SR-4	2005	Q3	8/12/2005	UF	GU05080E04202	METALS	Aluminum		59000	ug/L		J	5000	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/12/2005	UF	GU05080E04202	METALS	Lead		159	ug/L		J	126	ug/L
E042	Los Alamos above SR-4	2005	Q3	8/12/2005	UF	GU05080E04202	RAD	Gross alpha		132	pCi/L		J	15	pCi/L
E050	Los Alamos below LA Weir	2004	Q2	4/28/2004	UF	GU04040M05001	GENINORG	Magnesium		6.33	mg/L			0.0636	mg/L
E050	Los Alamos below LA Weir	2005	Q1	3/22/2005	UF	GU05030M05001	GENINORG	Magnesium		5.56	mg/L			0.0636	mg/L
E050	Los Alamos below LA Weir	2005	Q2	4/24/2005	UF	GU05040E05001	GENINORG	Magnesium		5.68	mg/L			0.0636	mg/L
E050	Los Alamos below LA Weir	2005	Q2	4/24/2005	UF	GU05040E05001	METALS	Aluminum		8160	ug/L	N*	J+	5000	ug/L

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E050	Los Alamos below LA Weir	2005	Q2	4/24/2005	UF	GU05040E05001	PEST/PCB	Aroclor-1260		0.057	ug/L	J	J	0.0017 ug/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	GENINORG	Magnesium		5.61	mg/L	N		0.0636 mg/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	METALS	Aluminum		8950	ug/L	N*		5000 ug/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	METALS	Lead		154	ug/L			126 ug/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	PEST/PCB	Aroclor-1254		0.21	ug/L	P		0.0017 ug/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	PEST/PCB	Aroclor-1260		0.23	ug/L			0.0017 ug/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	RAD	Gross alpha		49.2	pCi/L			15 pCi/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05001	GENINORG	Magnesium		7.25	mg/L			0.0636 mg/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05001	METALS	Aluminum		37000	ug/L		J	5000 ug/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05001	METALS	Lead		133	ug/L			126 ug/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05001	RAD	Gross alpha		25.5	pCi/L			15 pCi/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05002	GENINORG	Magnesium		4.52	mg/L			0.0636 mg/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05002	METALS	Aluminum		27100	ug/L			5000 ug/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05002	PEST/PCB	Aroclor-1260		0.12	ug/L			0.0017 ug/L
E050	Los Alamos below LA Weir	2005	Q3	8/12/2005	UF	GU05080E05002	RAD	Gross alpha		20.8	pCi/L			15 pCi/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	GENINORG	Chemical Oxygen Demand		792	mg/L			120 mg/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	GENINORG	Magnesium		22	mg/L	E		0.0636 mg/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	METALS	Aluminum		114000	ug/L			5000 ug/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	METALS	Arsenic		31	ug/L			24.2 ug/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	METALS	Lead		270	ug/L			126 ug/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	METALS	Vanadium		152	ug/L			100 ug/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	RAD	Gross alpha		214	pCi/L			15 pCi/L
E055	Pueblo above Acid	2004	Q3	8/18/2004	UF	GU04080E05501	GENINORG	Chemical Oxygen Demand		1490	mg/L			120 mg/L
E055	Pueblo above Acid	2004	Q3	8/18/2004	UF	GU04080E05501	GENINORG	Magnesium		7.79	mg/L			0.0636 mg/L
E055	Pueblo above Acid	2004	Q3	8/18/2004	UF	GU04080E05501	METALS	Aluminum		32600	ug/L	E		5000 ug/L
E055	Pueblo above Acid	2004	Q3	8/18/2004	UF	GU04080E05501	RAD	Gross alpha		201	pCi/L			15 pCi/L
E055	Pueblo above Acid	2004	Q3	8/20/2004	UF	GU04080E05502	GENINORG	Chemical Oxygen Demand		379	mg/L			120 mg/L
E055	Pueblo above Acid	2004	Q3	8/20/2004	UF	GU04080E05502	GENINORG	Magnesium		14.4	mg/L	E		0.0636 mg/L
E055	Pueblo above Acid	2004	Q3	8/20/2004	UF	GU04080E05502	METALS	Aluminum		66500	ug/L			5000 ug/L
E055	Pueblo above Acid	2004	Q3	8/20/2004	UF	GU04080E05502	RAD	Gross alpha		87.5	pCi/L			15 pCi/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	GENINORG	Chemical Oxygen Demand		369	mg/L			120 mg/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	GENINORG	Magnesium		19.9	mg/L			0.0636 mg/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	METALS	Aluminum		112000	ug/L			5000 ug/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	METALS	Lead		236	ug/L			126 ug/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	METALS	Vanadium		154	ug/L			100 ug/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	RAD	Gross alpha		65.5	pCi/L			15 pCi/L
E055	Pueblo above Acid	2005	Q1	3/30/2005	UF	GU05030M05501	GENINORG	Magnesium		4.48	mg/L			0.0636 mg/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	GENINORG	Magnesium		18.7	mg/L			0.0636 mg/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	METALS	Aluminum		106000	ug/L			5000 ug/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	METALS	Arsenic		25.3	ug/L			24.2 ug/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	METALS	Lead		162	ug/L			126 ug/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	METALS	Vanadium		124	ug/L			100 ug/L
E055	Pueblo above Acid	2005	Q2	5/3/2005	UF	GU05050E05501	RAD	Gross alpha		28.8	pCi/L			15 pCi/L
E055	Pueblo above Acid	2005	Q3	7/15/2005	UF	GU05070E05501	GENINORG	Magnesium		13.4	mg/L			0.0636 mg/L
E055	Pueblo above Acid	2005	Q3	7/15/2005	UF	GU05070E05501	METALS	Aluminum		81300	ug/L			5000 ug/L
E055	Pueblo above Acid	2005	Q3	7/15/2005	UF	GU05070E05501	METALS	Lead		130	ug/L	E	J	126 ug/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E055	Pueblo above Acid	2005	Q3	7/15/2005	UF	GU05070E05501	RAD	Gross alpha		22.6	pCi/L			15	pCi/L
E055	Pueblo above Acid	2005	Q3	8/12/2005	UF	GU05080E05501	GENINORG	Magnesium		9.28	mg/L			0.0636	mg/L
E055	Pueblo above Acid	2005	Q3	8/12/2005	UF	GU05080E05501	METALS	Aluminum		43900	ug/L		J	5000	ug/L
E055	Pueblo above Acid	2005	Q3	8/12/2005	UF	GU05080E05501	METALS	Lead		150	ug/L			126	ug/L
E055	Pueblo above Acid	2005	Q3	8/12/2005	UF	GU05080E05501	RAD	Gross alpha		32.2	pCi/L			15	pCi/L
E055	Pueblo above Acid	2005	Q3	8/13/2005	UF	GU05080E05502	GENINORG	Magnesium		16.4	mg/L			0.0636	mg/L
E055	Pueblo above Acid	2005	Q3	8/13/2005	UF	GU05080E05502	METALS	Aluminum		108000	ug/L			5000	ug/L
E055	Pueblo above Acid	2005	Q3	8/13/2005	UF	GU05080E05502	METALS	Vanadium		114	ug/L			100	ug/L
E055	Pueblo above Acid	2005	Q3	8/13/2005	UF	GU05080E05502	RAD	Gross alpha		57.7	pCi/L			15	pCi/L
E055.5	South Fork of Acid Canyon	2004	Q3	9/27/2004	UF	GU0409E055501	GENINORG	Chemical Oxygen Demand		161	mg/L			120	mg/L
E055.5	South Fork of Acid Canyon	2004	Q3	9/27/2004	UF	GU0409E055501	GENINORG	Magnesium		5.84	mg/L	E		0.0636	mg/L
E055.5	South Fork of Acid Canyon	2004	Q3	9/27/2004	UF	GU0409E055501	METALS	Aluminum		34200	ug/L	*		5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	7/15/2005	UF	GU0507E055501	GENINORG	Magnesium		13.6	mg/L			0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	Q3	7/15/2005	UF	GU0507E055501	METALS	Aluminum		64300	ug/L	*		5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	7/15/2005	UF	GU0507E055501	METALS	Lead		260	ug/L	N	J-	126	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/5/2005	UF	GU0508E055501	GENINORG	Magnesium		6.66	mg/L	N*	J, J+	0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/5/2005	UF	GU0508E055501	METALS	Aluminum		38200	ug/L	*	J	5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/12/2005	UF	GU0508E055502	GENINORG	Magnesium		2.98	mg/L			0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/12/2005	UF	GU0508E055502	METALS	Aluminum		19300	ug/L			5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/25/2005	UF	GU0508E055503	GENINORG	Magnesium		5.81	mg/L			0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/25/2005	UF	GU0508E055503	METALS	Aluminum		37200	ug/L			5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Gross alpha		43.1	pCi/L			15	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/28/2005	UF	GU0509E055502	GENINORG	Magnesium		3.21	mg/L			0.0636	mg/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/28/2005	UF	GU0509E055502	METALS	Aluminum		19900	ug/L			5000	ug/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Gross alpha		79.9	pCi/L			15	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Gross alpha		36.1	pCi/L			15	pCi/L
E056	Acid above Pueblo	2005	Q3	8/12/2005	UF	GU05080E05601	GENINORG	Magnesium		2.19	mg/L			0.0636	mg/L
E056	Acid above Pueblo	2005	Q3	8/12/2005	UF	GU05080E05601	METALS	Aluminum		11200	ug/L			5000	ug/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	GENINORG	Magnesium		12	mg/L			0.0636	mg/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Aluminum		68600	ug/L			5000	ug/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Lead		428	ug/L			126	ug/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Vanadium		116	ug/L			100	ug/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Gross alpha		153	pCi/L			15	pCi/L
E056	Acid above Pueblo	2005	Q3	9/28/2005	UF	GU05090E05601	GENINORG	Magnesium		3.52	mg/L			0.0636	mg/L
E056	Acid above Pueblo	2005	Q3	9/28/2005	UF	GU05090E05601	METALS	Aluminum		21900	ug/L			5000	ug/L
E056	Acid above Pueblo	2005	Q3	9/28/2005	UF	GU05090E05601	RAD	Gross alpha		95.4	pCi/L		J-	15	pCi/L
E060	Pueblo above SR-502	2004	Q3	7/23/2004	UF	GU04070E06001	GENINORG	Chemical Oxygen Demand		187	mg/L			120	mg/L
E060	Pueblo above SR-502	2004	Q3	7/23/2004	UF	GU04070E06001	GENINORG	Magnesium		10.6	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2004	Q3	7/23/2004	UF	GU04070E06001	METALS	Aluminum		27100	ug/L			5000	ug/L
E060	Pueblo above SR-502	2004	Q3	7/23/2004	UF	GU04070E06001	RAD	Gross alpha		32.2	pCi/L			15	pCi/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	GENINORG	Chemical Oxygen Demand		294	mg/L			120	mg/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	GENINORG	Magnesium		16	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	METALS	Aluminum		99800	ug/L			5000	ug/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	METALS	Lead		167	ug/L			126	ug/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	METALS	Vanadium		111	ug/L			100	ug/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	RAD	Gross alpha		85.1	pCi/L			15	pCi/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E060	Pueblo above SR-502	2004	Q3	8/18/2004	UF	GU04080E06002	GENINORG	Chemical Oxygen Demand		268	mg/L			120	mg/L
E060	Pueblo above SR-502	2004	Q3	8/18/2004	UF	GU04080E06002	GENINORG	Magnesium		9.4	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2004	Q3	8/18/2004	UF	GU04080E06002	METALS	Aluminum		24800	ug/L	E		5000	ug/L
E060	Pueblo above SR-502	2004	Q3	8/18/2004	UF	GU04080E06002	RAD	Gross alpha		16.1	pCi/L			15	pCi/L
E060	Pueblo above SR-502	2005	Q3	8/12/2005	UF	GU05080E06001	GENINORG	Magnesium		7.08	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2005	Q3	8/12/2005	UF	GU05080E06001	METALS	Aluminum		16300	ug/L			5000	ug/L
E060	Pueblo above SR-502	2005	Q3	8/24/2005	UF	GU05080E06002	GENINORG	Magnesium		8.19	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2005	Q3	8/24/2005	UF	GU05080E06002	METALS	Aluminum		39000	ug/L			5000	ug/L
E060	Pueblo above SR-502	2005	Q3	8/24/2005	UF	GU05080E06002	RAD	Gross alpha		33	pCi/L			15	pCi/L
E060	Pueblo above SR-502	2005	Q3	8/25/2005	UF	GU05080E06003	GENINORG	Magnesium		8.64	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2005	Q3	8/25/2005	UF	GU05080E06003	METALS	Aluminum		17200	ug/L	N		5000	ug/L
E060	Pueblo above SR-502	2005	Q3	9/29/2005	UF	GU05090E06002	GENINORG	Magnesium		4.78	mg/L			0.0636	mg/L
E060	Pueblo above SR-502	2005	Q3	9/29/2005	UF	GU05090E06002	METALS	Aluminum		11000	ug/L		J	5000	ug/L
E060	Pueblo above SR-502	2005	Q3	9/29/2005	UF	GU05090E06002	RAD	Gross alpha		19	pCi/L		J-	15	pCi/L
E110	Los Alamos at Rio Grande	2005	Q2	4/20/2005	UF	GU05030M11001	GENINORG	Magnesium		8.33	mg/L			0.0636	mg/L
E110	Los Alamos at Rio Grande	2005	Q2	4/20/2005	UF	GU05030M11001	METALS	Aluminum		32600	ug/L		J	5000	ug/L
E110	Los Alamos at Rio Grande	2005	Q2	4/20/2005	UF	GU05030M11001	RAD	Gross alpha		47.7	pCi/L			15	pCi/L
E121	Sandia right fork at Power Plant	2004	Q1	2/25/2004	UF	GU04020E12101	GENINORG	Magnesium		6.72	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	Q3	7/27/2004	UF	GU04070E12101	GENINORG	Magnesium		3.46	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	Q3	7/27/2004	UF	GU04070E12101	METALS	Aluminum		16900	ug/L			5000	ug/L
E121	Sandia right fork at Power Plant	2004	Q3	8/11/2004	UF	GU04080E12101	GENINORG	Magnesium		3.24	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	Q3	8/11/2004	UF	GU04080E12101	METALS	Aluminum		13900	ug/L			5000	ug/L
E121	Sandia right fork at Power Plant	2004	Q3	8/18/2004	UF	GU04080E12102	GENINORG	Magnesium		2.9	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	Q3	8/18/2004	UF	GU04080E12102	METALS	Aluminum		6980	ug/L	N*		5000	ug/L
E121	Sandia right fork at Power Plant	2004	Q3	8/18/2004	UF	GU04080E12102	RAD	Gross alpha		24.7	pCi/L			15	pCi/L
E121	Sandia right fork at Power Plant	2004	Q3	9/27/2004	UF	GU04090E12101	GENINORG	Magnesium		4.96	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2004	Q3	9/27/2004	UF	GU04090E12101	METALS	Aluminum		16000	ug/L	N		5000	ug/L
E121	Sandia right fork at Power Plant	2004	Q3	9/27/2004	UF	GU04090E12101	RAD	Gross alpha		32	pCi/L			15	pCi/L
E121	Sandia right fork at Power Plant	2005	Q2	4/16/2005	UF	GU05040E12101	GENINORG	Magnesium		3.71	mg/L	N	J+	0.0636	mg/L
E121	Sandia right fork at Power Plant	2005	Q2	4/16/2005	UF	GU05040E12101	METALS	Aluminum		18400	ug/L		J	5000	ug/L
E121	Sandia right fork at Power Plant	2005	Q2	4/16/2005	UF	GU05040E12101	PEST/PCB	Aroclor-1260		0.027	ug/L	JP		0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q2	4/16/2005	UF	GU05040E12101	RAD	Gross alpha		19.3	pCi/L			15	pCi/L
E121	Sandia right fork at Power Plant	2005	Q3	7/15/2005	UF	GU05070E12101	GENINORG	Magnesium		3.07	mg/L	N		0.0636	mg/L
E121	Sandia right fork at Power Plant	2005	Q3	7/15/2005	UF	GU05070E12101	PEST/PCB	Aroclor-1254		0.64	ug/L			0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	7/15/2005	UF	GU05070E12101	PEST/PCB	Aroclor-1260		1.2	ug/L			0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	7/15/2005	UF	GU05070E12101	RAD	Gross alpha		26.6	pCi/L			15	pCi/L
E121	Sandia right fork at Power Plant	2005	Q3	7/20/2005	UF	GU05070E12102	GENINORG	Magnesium		6.07	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2005	Q3	7/20/2005	UF	GU05070E12102	METALS	Aluminum		26000	ug/L			5000	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	7/20/2005	UF	GU05070E12102	PEST/PCB	Aroclor-1254		0.43	ug/L	P		0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	7/20/2005	UF	GU05070E12102	PEST/PCB	Aroclor-1260		0.54	ug/L			0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	8/4/2005	UF	GU05080E12101	GENINORG	Magnesium		7.99	mg/L			0.0636	mg/L
E121	Sandia right fork at Power Plant	2005	Q3	8/4/2005	UF	GU05080E12101	METALS	Aluminum		47900	ug/L			5000	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	8/4/2005	UF	GU05080E12101	PEST/PCB	Aroclor-1254		0.056	ug/L	J		0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	8/4/2005	UF	GU05080E12101	PEST/PCB	Aroclor-1260		0.097	ug/L	J		0.0017	ug/L
E121	Sandia right fork at Power Plant	2005	Q3	8/12/2005	UF	GU05080E12102	RAD	Gross alpha		17.3	pCi/L			15	pCi/L
E122	Sandia left fork at Asphalt Plant	2004	Q1	2/25/2004	UF	GU04020E12201	GENINORG	Magnesium		2.84	mg/L			0.0636	mg/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E122	Sandia left fork at Asphalt Plant	2004	Q1	2/25/2004	UF	GU04020E12201	METALS	Aluminum		10800	ug/L	N		5000	ug/L
E122	Sandia left fork at Asphalt Plant	2004	Q2	4/6/2004	UF	GU04040E12201	GENINORG	Chemical Oxygen Demand		170	mg/L			120	mg/L
E122	Sandia left fork at Asphalt Plant	2004	Q2	4/11/2004	UF	GU04040E12202	GENINORG	Magnesium		0.942	mg/L			0.0636	mg/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	7/27/2004	UF	GU04070E12201	GENINORG	Magnesium		6.76	mg/L			0.0636	mg/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	7/27/2004	UF	GU04070E12201	METALS	Aluminum		43400	ug/L			5000	ug/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	8/11/2004	UF	GU04080E12201	GENINORG	Magnesium		2.72	mg/L			0.0636	mg/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	8/11/2004	UF	GU04080E12201	METALS	Aluminum		12500	ug/L			5000	ug/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	8/18/2004	UF	GU04080E12202	GENINORG	Magnesium		1.87	mg/L			0.0636	mg/L
E122	Sandia left fork at Asphalt Plant	2004	Q3	8/18/2004	UF	GU04080E12202	METALS	Aluminum		15500	ug/L			5000	ug/L
E123	Sandia below Wetlands	2004	Q3	7/21/2004	UF	GU04070E12301	GENINORG	Magnesium		11.7	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2004	Q3	7/21/2004	UF	GU04070E12301	METALS	Aluminum		17600	ug/L	N		5000	ug/L
E123	Sandia below Wetlands	2004	Q3	7/21/2004	UF	GU04070E12301	METALS	Silver		12.8	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2004	Q3	7/21/2004	UF	GU04070E12301	PEST/PCB	Aroclor-1254		0.21	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	7/21/2004	UF	GU04070E12301	PEST/PCB	Aroclor-1260		0.24	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	GENINORG	Magnesium		10.2	mg/L	E		0.0636	mg/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	METALS	Aluminum		51000	ug/L			5000	ug/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	METALS	Mercury		0.921	ug/L			0.77	ug/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	METALS	Silver		18.4	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	PEST/PCB	Aroclor-1254		0.67	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	7/23/2004	UF	GU04070E12302	PEST/PCB	Aroclor-1260		0.61	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	7/27/2004	UF	GU04070E12303	GENINORG	Magnesium		8.3	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2004	Q3	7/27/2004	UF	GU04070E12303	METALS	Aluminum		15600	ug/L			5000	ug/L
E123	Sandia below Wetlands	2004	Q3	7/27/2004	UF	GU04070E12303	METALS	Silver		7.5	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2004	Q3	7/27/2004	UF	GU04070E12303	PEST/PCB	Aroclor-1254		0.059	ug/L	J		0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	7/27/2004	UF	GU04070E12303	PEST/PCB	Aroclor-1260		0.076	ug/L	J		0.0017	ug/L
E123	Sandia below Wetlands	2004	Q3	8/11/2004	UF	GU04080E12301	GENINORG	Magnesium		10.9	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2004	Q3	8/11/2004	UF	GU04080E12301	METALS	Aluminum		30400	ug/L			5000	ug/L
E123	Sandia below Wetlands	2004	Q3	8/11/2004	UF	GU04080E12301	METALS	Mercury		0.87	ug/L			0.77	ug/L
E123	Sandia below Wetlands	2004	Q3	8/11/2004	UF	GU04080E12301	METALS	Silver		21.1	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2005	Q2	4/24/2005	UF	GU05040E12301	GENINORG	Magnesium		9.96	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2005	Q2	5/1/2005	UF	GU05050E12301	GENINORG	Magnesium		4.16	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2005	Q2	5/1/2005	UF	GU05050E12301	PEST/PCB	Aroclor-1254		0.21	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2005	Q2	5/1/2005	UF	GU05050E12301	PEST/PCB	Aroclor-1260		0.22	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2005	Q2	5/3/2005	UF	GU05050E12302	GENINORG	Magnesium		6.06	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2005	Q2	5/3/2005	UF	GU05050E12302	METALS	Aluminum		7420	ug/L	N	J+	5000	ug/L
E123	Sandia below Wetlands	2005	Q2	5/3/2005	UF	GU05050E12302	METALS	Silver		4.5	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	GENINORG	Magnesium		16	mg/L			0.0636	mg/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	METALS	Aluminum		90200	ug/L			5000	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	METALS	Lead		128	ug/L	E	J	126	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	METALS	Mercury		0.93	ug/L			0.77	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	METALS	Silver		19.6	ug/L			4.1	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	METALS	Vanadium		115	ug/L			100	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	PEST/PCB	Aroclor-1254		0.38	ug/L		J	0.0017	ug/L
E123	Sandia below Wetlands	2005	Q3	7/15/2005	UF	GU05070E12301	PEST/PCB	Aroclor-1260		0.64	ug/L		J	0.0017	ug/L
E123	Sandia below Wetlands	2005	Q3	7/20/2005	UF	GU05070E12302	PEST/PCB	Aroclor-1254		0.27	ug/L			0.0017	ug/L
E123	Sandia below Wetlands	2005	Q3	7/20/2005	UF	GU05070E12302	PEST/PCB	Aroclor-1260		0.4	ug/L			0.0017	ug/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	GENINORG	Chemical Oxygen Demand		449	mg/L			120	mg/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	GENINORG	Magnesium		10.2	mg/L			0.0636	mg/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	METALS	Aluminum		43100	ug/L	E		5000	ug/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	METALS	Silver		14.5	ug/L			4.1	ug/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	PEST/PCB	Aroclor-1260		0.098	ug/L	J		0.0017	ug/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	RAD	Gross alpha		877	pCi/L			15	pCi/L
E124	Sandia above Firing Range	2004	Q3	8/20/2004	UF	GU04080E12403	GENINORG	Chemical Oxygen Demand		403	mg/L			120	mg/L
E124	Sandia above Firing Range	2004	Q3	8/20/2004	UF	GU04080E12403	GENINORG	Magnesium		10.7	mg/L	E		0.0636	mg/L
E124	Sandia above Firing Range	2004	Q3	8/20/2004	UF	GU04080E12403	METALS	Aluminum		47300	ug/L			5000	ug/L
E124	Sandia above Firing Range	2004	Q3	8/20/2004	UF	GU04080E12403	RAD	Gross alpha		202	pCi/L			15	pCi/L
E124	Sandia above Firing Range	2004	Q4	10/26/2004	UF	GU04100E12401	GENINORG	Magnesium		6.7	mg/L			0.0636	mg/L
E124	Sandia above Firing Range	2004	Q4	10/26/2004	UF	GU04100E12401	METALS	Aluminum		6650	ug/L			5000	ug/L
E124	Sandia above Firing Range	2005	Q2	5/3/2005	UF	GU05050E12401	GENINORG	Magnesium		10.1	mg/L			0.0636	mg/L
E124	Sandia above Firing Range	2005	Q2	5/3/2005	UF	GU05050E12401	METALS	Aluminum		32800	ug/L	N	J+	5000	ug/L
E124	Sandia above Firing Range	2005	Q2	5/3/2005	UF	GU05050E12401	METALS	Silver		6.7	ug/L			4.1	ug/L
E124	Sandia above Firing Range	2005	Q2	5/3/2005	UF	GU05050E12401	PEST/PCB	Aroclor-1254		0.26	ug/L			0.0017	ug/L
E124	Sandia above Firing Range	2005	Q2	5/3/2005	UF	GU05050E12401	PEST/PCB	Aroclor-1260		0.42	ug/L			0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	GENINORG	Magnesium		11.8	mg/L	N		0.0636	mg/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	METALS	Aluminum		17900	ug/L	N*		5000	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	METALS	Lead		200	ug/L			126	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	METALS	Mercury		3	ug/L			0.77	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	PEST/PCB	Aroclor-1254		1.7	ug/L			0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	PEST/PCB	Aroclor-1260		3.2	ug/L			0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	RAD	Gross alpha		261	pCi/L			15	pCi/L
E124	Sandia above Firing Range	2005	Q3	7/20/2005	UF	GU05070E12402	GENINORG	Magnesium		6.42	mg/L			0.0636	mg/L
E124	Sandia above Firing Range	2005	Q3	7/20/2005	UF	GU05070E12402	PEST/PCB	Aroclor-1260		0.12	ug/L	JP	J	0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	7/20/2005	UF	GU05070E12402	RAD	Gross alpha		20	pCi/L			15	pCi/L
E124	Sandia above Firing Range	2005	Q3	7/23/2005	UF	GU05070E12403	RAD	Gross alpha		111	pCi/L			15	pCi/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	GENINORG	Magnesium		14.7	mg/L			0.0636	mg/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	METALS	Aluminum		66700	ug/L			5000	ug/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	METALS	Mercury		0.86	ug/L			0.77	ug/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	METALS	Silver		13	ug/L			4.1	ug/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	PEST/PCB	Aroclor-1254		0.11	ug/L	JP		0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	PEST/PCB	Aroclor-1260		0.15	ug/L			0.0017	ug/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	RAD	Gross alpha		49.6	pCi/L		J-	15	pCi/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	GENINORG	Magnesium		14.7	mg/L			0.0636	mg/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	METALS	Aluminum		91000	ug/L		J	5000	ug/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	METALS	Lead		163	ug/L	N*	J, J+	126	ug/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	METALS	Silver		9.3	ug/L			4.1	ug/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	PEST/PCB	Aroclor-1260		0.13	ug/L	JP		0.0017	ug/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	RAD	Gross alpha		47.3	pCi/L		J-	15	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	7/27/2004	UF	GU04070E20001	GENINORG	Magnesium		2.76	mg/L			0.0636	mg/L
E200	Mortandad below Effluent Canyon	2004	Q3	7/27/2004	UF	GU04070E20001	METALS	Aluminum		13300	ug/L			5000	ug/L
E200	Mortandad below Effluent Canyon	2004	Q3	7/27/2004	UF	GU04070E20001	RAD	Gross alpha		26.8	pCi/L			15	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/11/2004	UF	GU04080E20001	GENINORG	Chemical Oxygen Demand		245	mg/L			120	mg/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/11/2004	UF	GU04080E20001	GENINORG	Magnesium		5.63	mg/L			0.0636	mg/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value
E200	Mortandad below Effluent Canyon	2004	Q3	8/11/2004	UF	GU04080E20001	METALS	Aluminum		31300	ug/L			5000 ug/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/11/2004	UF	GU04080E20001	RAD	Gross alpha		39.4	pCi/L			15 pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	GENINORG	Chemical Oxygen Demand		243	mg/L			120 mg/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	GENINORG	Magnesium		7.14	mg/L			0.0636 mg/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	METALS	Aluminum		42300	ug/L	E		5000 ug/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Gross alpha		751	pCi/L			15 pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/20/2004	UF	GU04080E20003	GENINORG	Magnesium		3.53	mg/L			0.0636 mg/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/20/2004	UF	GU04080E20003	METALS	Aluminum		14300	ug/L			5000 ug/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/20/2004	UF	GU04080E20003	RAD	Gross alpha		74	pCi/L			15 pCi/L
E200	Mortandad below Effluent Canyon	2005	Q2	4/24/2005	UF	GU05040E20001	GENINORG	Magnesium		6.66	mg/L			0.0636 mg/L
E200	Mortandad below Effluent Canyon	2005	Q2	4/24/2005	UF	GU05040E20001	METALS	Aluminum		45200	ug/L			5000 ug/L
E200	Mortandad below Effluent Canyon	2005	Q2	4/24/2005	UF	GU05040E20001	RAD	Gross alpha		29.7	pCi/L		J	15 pCi/L
E200	Mortandad below Effluent Canyon	2005	Q2	5/3/2005	UF	GU05050E20001	GENINORG	Magnesium		5.21	mg/L			0.0636 mg/L
E200	Mortandad below Effluent Canyon	2005	Q2	5/3/2005	UF	GU05050E20001	METALS	Aluminum		36400	ug/L			5000 ug/L
E200	Mortandad below Effluent Canyon	2005	Q2	5/3/2005	UF	GU05050E20001	PEST/PCB	Aroclor-1254		0.22	ug/L			0.0017 ug/L
E200	Mortandad below Effluent Canyon	2005	Q2	5/3/2005	UF	GU05050E20001	RAD	Gross alpha		96.8	pCi/L			15 pCi/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/15/2005	UF	GU05070E20001	GENINORG	Magnesium		7.6	mg/L	N		0.0636 mg/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/15/2005	UF	GU05070E20001	METALS	Aluminum		19500	ug/L	N*		5000 ug/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Gross alpha		232	pCi/L			15 pCi/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/20/2005	UF	GU05070E20002	GENINORG	Magnesium		7.82	mg/L			0.0636 mg/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/20/2005	UF	GU05070E20002	METALS	Aluminum		46400	ug/L			5000 ug/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/20/2005	UF	GU05070E20002	RAD	Gross alpha		57.9	pCi/L			15 pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/29/2005	UF	GU05090E20101	GENINORG	Magnesium		4.59	mg/L			0.0636 mg/L
E201	Mortandad above Ten Site	2005	Q3	9/29/2005	UF	GU05090E20101	METALS	Aluminum		30200	ug/L		J	5000 ug/L
E201	Mortandad above Ten Site	2005	Q3	9/29/2005	UF	GU05090E20101	RAD	Gross alpha		127	pCi/L		J-	15 pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	GENINORG	Magnesium		4.5	mg/L			0.0636 mg/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	METALS	Aluminum		27700	ug/L		J	5000 ug/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	RAD	Gross alpha		112	pCi/L		J-	15 pCi/L
E201.3	Ten Site below MDA C	2004	Q2	4/2/2004	UF	GU0404E201302	GENINORG	Magnesium		0.935	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2004	Q2	4/5/2004	UF	GU0404E201303	GENINORG	Magnesium		0.744	mg/L	*		0.0636 mg/L
E201.3	Ten Site below MDA C	2004	Q3	7/23/2004	UF	GU0407E201301	GENINORG	Chemical Oxygen Demand		171	mg/L			120 mg/L
E201.3	Ten Site below MDA C	2004	Q3	7/23/2004	UF	GU0407E201301	GENINORG	Magnesium		9.85	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2004	Q3	7/23/2004	UF	GU0407E201301	METALS	Aluminum		65100	ug/L			5000 ug/L
E201.3	Ten Site below MDA C	2004	Q4	10/6/2004	UF	GU0410E201301	GENINORG	Magnesium		0.824	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2005	Q3	8/12/2005	UF	GU0508E201301	GENINORG	Magnesium		2.47	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2005	Q3	8/12/2005	UF	GU0508E201301	METALS	Aluminum		14800	ug/L			5000 ug/L
E201.3	Ten Site below MDA C	2005	Q3	8/12/2005	UF	GU0508E201301	RAD	Gross alpha		47.3	pCi/L			15 pCi/L
E201.3	Ten Site below MDA C	2005	Q3	8/24/2005	UF	GU0508E201303	GENINORG	Magnesium		6.53	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2005	Q3	8/24/2005	UF	GU0508E201303	METALS	Aluminum		43100	ug/L			5000 ug/L
E201.3	Ten Site below MDA C	2005	Q3	8/25/2005	UF	GU0508E201304	GENINORG	Magnesium		3.42	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2005	Q3	8/25/2005	UF	GU0508E201304	METALS	Aluminum		21800	ug/L			5000 ug/L
E201.3	Ten Site below MDA C	2005	Q3	9/22/2005	UF	GU0509E201301	GENINORG	Magnesium		2.2	mg/L			0.0636 mg/L
E201.3	Ten Site below MDA C	2005	Q3	9/22/2005	UF	GU0509E201301	METALS	Aluminum		13600	ug/L	N	J+	5000 ug/L
E201.3	Ten Site below MDA C	2005	Q3	9/28/2005	UF	GU0509E201302	RAD	Gross alpha		32.3	pCi/L		J-	15 pCi/L
E201.5	Ten Site above Mortandad	2004	Q3	8/15/2004	UF	GU0408E201501	GENINORG	Chemical Oxygen Demand		242	mg/L			120 mg/L
E201.5	Ten Site above Mortandad	2004	Q3	8/15/2004	UF	GU0408E201501	GENINORG	Magnesium		4.39	mg/L			0.0636 mg/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E201.5	Ten Site above Mortandad	2004	Q3	8/15/2004	UF	GU0408E201501	METALS	Aluminum		22200	ug/L			5000	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/24/2005	UF	GU0508E201501	GENINORG	Magnesium		11.7	mg/L			0.0636	mg/L
E201.5	Ten Site above Mortandad	2005	Q3	8/24/2005	UF	GU0508E201501	METALS	Aluminum		73100	ug/L			5000	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/24/2005	UF	GU0508E201501	METALS	Lead		128	ug/L			126	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/24/2005	UF	GU0508E201501	METALS	Silver		4.6	ug/L			4.1	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/25/2005	UF	GU0508E201502	GENINORG	Magnesium		11.3	mg/L			0.0636	mg/L
E201.5	Ten Site above Mortandad	2005	Q3	8/25/2005	UF	GU0508E201502	METALS	Aluminum		64700	ug/L			5000	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/25/2005	UF	GU0508E201502	METALS	Silver		8.1	ug/L			4.1	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	8/25/2005	UF	GU0508E201502	RAD	Gross alpha		54.4	pCi/L			15	pCi/L
E201.5	Ten Site above Mortandad	2005	Q3	9/29/2005	UF	GU0509E201502	GENINORG	Magnesium		2.45	mg/L			0.0636	mg/L
E201.5	Ten Site above Mortandad	2005	Q3	9/29/2005	UF	GU0509E201502	METALS	Aluminum		10600	ug/L			5000	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	9/29/2005	UF	GU0509E201501	GENINORG	Magnesium		3.86	mg/L			0.0636	mg/L
E201.5	Ten Site above Mortandad	2005	Q3	9/29/2005	UF	GU0509E201501	METALS	Aluminum		23900	ug/L			5000	ug/L
E201.5	Ten Site above Mortandad	2005	Q3	9/29/2005	UF	GU0509E201501	RAD	Gross alpha		28.4	pCi/L		J, J-	15	pCi/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20201	GENINORG	Magnesium		2.64	mg/L			0.0636	mg/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20201	METALS	Aluminum		16700	ug/L			5000	ug/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20202	GENINORG	Magnesium		4.13	mg/L			0.0636	mg/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20202	METALS	Aluminum		27500	ug/L			5000	ug/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20202	RAD	Gross alpha		95.8	pCi/L		J-	15	pCi/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	GENINORG	Chemical Oxygen Demand		500	mg/L			120	mg/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	GENINORG	Magnesium		14.3	mg/L			0.0636	mg/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	METALS	Aluminum		92300	ug/L	E		5000	ug/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	METALS	Arsenic		25.8	ug/L			24.2	ug/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	RAD	Gross alpha		49.5	pCi/L			15	pCi/L
E218	Canada del Buey near TA-46	2004	Q4	10/4/2004	UF	GU04100E21801	GENINORG	Magnesium		4.55	mg/L			0.0636	mg/L
E218	Canada del Buey near TA-46	2004	Q4	10/11/2004	UF	GU04100E21802	GENINORG	Magnesium		3.16	mg/L	N		0.0636	mg/L
E218	Canada del Buey near TA-46	2004	Q4	10/11/2004	UF	GU04100E21802	METALS	Aluminum		15000	ug/L	EN		5000	ug/L
E218	Canada del Buey near TA-46	2005	Q3	7/15/2005	UF	GU05070E21801	GENINORG	Magnesium		4.88	mg/L			0.0636	mg/L
E218	Canada del Buey near TA-46	2005	Q3	7/20/2005	UF	GU05070E21802	GENINORG	Magnesium		4.78	mg/L			0.0636	mg/L
E218	Canada del Buey near TA-46	2005	Q3	8/24/2005	UF	GU05080E21801	PEST/PCB	Aroclor-1254		0.083	ug/L	J		0.0017	ug/L
E218	Canada del Buey near TA-46	2005	Q3	8/24/2005	UF	GU05080E21801	RAD	Gross alpha		64.6	pCi/L			15	pCi/L
E227	MDA G-13	2004	Q3	8/10/2004	UF	GU04080E22701	GENINORG	Chemical Oxygen Demand		160	mg/L			120	mg/L
E227	MDA G-13	2004	Q3	8/10/2004	UF	GU04080E22701	GENINORG	Magnesium		27.8	mg/L			0.0636	mg/L
E227	MDA G-13	2004	Q3	8/10/2004	UF	GU04080E22701	METALS	Aluminum		79300	ug/L			5000	ug/L
E227	MDA G-13	2004	Q3	8/10/2004	UF	GU04080E22701	METALS	Vanadium		108	ug/L			100	ug/L
E227	MDA G-13	2005	Q3	7/17/2005	UF	GU05070E22701	GENINORG	Magnesium		11	mg/L	N		0.0636	mg/L
E227	MDA G-13	2005	Q3	7/17/2005	UF	GU05070E22701	METALS	Aluminum		8920	ug/L	N*		5000	ug/L
E227	MDA G-13	2005	Q3	7/17/2005	UF	GU05070E22701	PEST/PCB	Aroclor-1254		0.25	ug/L	P		0.0017	ug/L
E227	MDA G-13	2005	Q3	8/12/2005	UF	GU05080E22701	GENINORG	Magnesium		6.92	mg/L			0.0636	mg/L
E227	MDA G-13	2005	Q3	8/12/2005	UF	GU05080E22701	METALS	Aluminum		15800	ug/L			5000	ug/L
E227	MDA G-13	2005	Q3	8/13/2005	UF	GU05080E22702	GENINORG	Magnesium		19.5	mg/L			0.0636	mg/L
E227	MDA G-13	2005	Q3	8/13/2005	UF	GU05080E22702	METALS	Aluminum		54200	ug/L			5000	ug/L
E227	MDA G-13	2005	Q3	9/28/2005	UF	GU05100E22701	RAD	Gross alpha		106	pCi/L			15	pCi/L
E227	MDA G-13	2005	Q4	10/9/2005	UF	GU05100E22702	GENINORG	Magnesium		25.4	mg/L			0.0636	mg/L
E227	MDA G-13	2005	Q4	10/9/2005	UF	GU05100E22702	METALS	Aluminum		74200	ug/L			5000	ug/L
E227	MDA G-13	2005	Q4	10/9/2005	UF	GU05100E22702	METALS	Vanadium		105	ug/L			100	ug/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value
E227	MDA G-13	2005	Q4	10/9/2005	UF	GU05100E22702	RAD	Gross alpha		31.2	pCi/L			15 pCi/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	GENINORG	Magnesium		84.9	mg/L			0.0636 mg/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Aluminum		484000	ug/L			5000 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Arsenic		51.3	ug/L			24.2 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Lead		985	ug/L			126 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Selenium		5.6	ug/L	*		5 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Thallium		17.6	ug/L			6.3 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	METALS	Vanadium		537	ug/L			100 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	RAD	Gross alpha		979	pCi/L			15 pCi/L
E230	Canada del Buey above SR-4	2004	Q3	8/19/2004	UF	GU04080E23002	GENINORG	Magnesium		22.2	mg/L			0.0636 mg/L
E230	Canada del Buey above SR-4	2004	Q3	8/19/2004	UF	GU04080E23002	METALS	Aluminum		64400	ug/L			5000 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/19/2004	UF	GU04080E23002	METALS	Vanadium		148	ug/L			100 ug/L
E230	Canada del Buey above SR-4	2004	Q3	8/19/2004	UF	GU04080E23002	RAD	Gross alpha		196	pCi/L			15 pCi/L
E230	Canada del Buey above SR-4	2004	Q4	10/5/2004	UF	GU04100E23001	GENINORG	Magnesium		25.3	mg/L			0.0636 mg/L
E230	Canada del Buey above SR-4	2004	Q4	10/5/2004	UF	GU04100E23001	METALS	Aluminum		101000	ug/L			5000 ug/L
E230	Canada del Buey above SR-4	2004	Q4	10/5/2004	UF	GU04100E23001	METALS	Vanadium		127	ug/L			100 ug/L
E230	Canada del Buey above SR-4	2004	Q4	10/5/2004	UF	GU04100E23001	RAD	Gross alpha		68.6	pCi/L			15 pCi/L
E230	Canada del Buey above SR-4	2005	Q3	9/28/2005	UF	GU05090E23001	GENINORG	Magnesium		58.7	mg/L			0.0636 mg/L
E230	Canada del Buey above SR-4	2005	Q3	9/28/2005	UF	GU05090E23001	METALS	Aluminum		314000	ug/L			5000 ug/L
E230	Canada del Buey above SR-4	2005	Q3	9/28/2005	UF	GU05090E23001	METALS	Arsenic		49.6	ug/L			24.2 ug/L
E230	Canada del Buey above SR-4	2005	Q3	9/28/2005	UF	GU05090E23001	METALS	Lead		214	ug/L			126 ug/L
E230	Canada del Buey above SR-4	2005	Q3	9/28/2005	UF	GU05090E23001	METALS	Vanadium		321	ug/L			100 ug/L
E240	Pajarito below SR-501	2005	Q1	3/23/2005	UF	GU05030M24001	GENINORG	Magnesium		3.39	mg/L			0.0636 mg/L
E240	Pajarito below SR-501	2005	Q3	8/11/2005	UF	GU05080E24001	GENINORG	Magnesium		11.4	mg/L			0.0636 mg/L
E240	Pajarito below SR-501	2005	Q3	8/11/2005	UF	GU05080E24001	METALS	Aluminum		37600	ug/L			5000 ug/L
E240	Pajarito below SR-501	2005	Q3	8/11/2005	UF	GU05080E24001	RAD	Gross alpha		68.3	pCi/L			15 pCi/L
E240	Pajarito below SR-501	2005	Q3	8/12/2005	UF	GU05080E24002	GENINORG	Magnesium		5.43	mg/L			0.0636 mg/L
E240	Pajarito below SR-501	2005	Q3	8/12/2005	UF	GU05080E24002	METALS	Aluminum		40300	ug/L			5000 ug/L
E240	Pajarito below SR-501	2005	Q3	8/24/2005	UF	GU05080E24003	RAD	Gross alpha		277	pCi/L			15 pCi/L
E241	Pajarito above Starmers	2004	Q4	10/5/2004	UF	GU04100E24101	GENINORG	Magnesium		10.3	mg/L			0.0636 mg/L
E241	Pajarito above Starmers	2004	Q4	10/5/2004	UF	GU04100E24101	METALS	Aluminum		8590	ug/L	N		5000 ug/L
E241	Pajarito above Starmers	2005	Q1	3/24/2005	UF	GU05030M24101	GENINORG	Magnesium		4.17	mg/L			0.0636 mg/L
E241	Pajarito above Starmers	2005	Q3	7/15/2005	UF	GU05070E24101	GENINORG	Magnesium		8.19	mg/L			0.0636 mg/L
E241	Pajarito above Starmers	2005	Q3	7/15/2005	UF	GU05070E24101	METALS	Aluminum		29800	ug/L	*	J	5000 ug/L
E241	Pajarito above Starmers	2005	Q3	8/4/2005	UF	GU05080E24101	GENINORG	Magnesium		18.5	mg/L			0.0636 mg/L
E241	Pajarito above Starmers	2005	Q3	8/4/2005	UF	GU05080E24101	METALS	Aluminum		92700	ug/L			5000 ug/L
E241	Pajarito above Starmers	2005	Q3	8/4/2005	UF	GU05080E24101	METALS	Lead		171	ug/L			126 ug/L
E241	Pajarito above Starmers	2005	Q3	8/4/2005	UF	GU05080E24101	METALS	Vanadium		134	ug/L			100 ug/L
E241	Pajarito above Starmers	2005	Q3	8/6/2005	UF	GU05080E24102	GENINORG	Magnesium		5.21	mg/L			0.0636 mg/L
E241	Pajarito above Starmers	2005	Q3	8/6/2005	UF	GU05080E24102	METALS	Aluminum		17700	ug/L		J	5000 ug/L
E241	Pajarito above Starmers	2005	Q3	8/22/2005	UF	GU05080E24103	GENINORG	Magnesium		7.06	mg/L	N	J+	0.0636 mg/L
E241	Pajarito above Starmers	2005	Q3	8/22/2005	UF	GU05080E24103	METALS	Aluminum		19100	ug/L	N*	J, J+	5000 ug/L
E242	Starmers above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24201	GENINORG	Magnesium		12.6	mg/L	E		0.0636 mg/L
E242	Starmers above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24201	METALS	Aluminum		83900	ug/L			5000 ug/L
E242	Starmers above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24201	METALS	Silver		12.7	ug/L			4.1 ug/L
E242	Starmers above Pajarito	2004	Q4	10/5/2004	UF	GU04100E24201	GENINORG	Magnesium		12	mg/L	N		0.0636 mg/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value
E242	Starmers above Pajarito	2004	Q4	10/5/2004	UF	GU04100E24201	METALS	Aluminum		70800	ug/L	*		5000 ug/L
E242	Starmers above Pajarito	2004	Q4	10/5/2004	UF	GU04100E24201	METALS	Silver		10.1	ug/L			4.1 ug/L
E242	Starmers above Pajarito	2005	Q1	3/24/2005	UF	GU05030M24201	GENINORG	Magnesium		4.22	mg/L			0.0636 mg/L
E242	Starmers above Pajarito	2005	Q1	3/24/2005	UF	GU05030M24201	METALS	Aluminum		5480	ug/L			5000 ug/L
E242	Starmers above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24201	GENINORG	Magnesium		12	mg/L			0.0636 mg/L
E242	Starmers above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24201	METALS	Aluminum		58600	ug/L	*	J	5000 ug/L
E242	Starmers above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24201	METALS	Silver		121	ug/L			4.1 ug/L
E242	Starmers above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24201	METALS	Vanadium		110	ug/L	*	J	100 ug/L
E242.5	La Delfe above Pajarito	2004	Q3	7/24/2004	UF	GU0407E242501	GENINORG	Chemical Oxygen Demand		336	mg/L			120 mg/L
E242.5	La Delfe above Pajarito	2004	Q3	7/24/2004	UF	GU0407E242501	GENINORG	Magnesium		5.17	mg/L	E		0.0636 mg/L
E242.5	La Delfe above Pajarito	2004	Q3	7/24/2004	UF	GU0407E242501	METALS	Aluminum		18300	ug/L			5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q1	3/24/2005	UF	GU0503M242501	GENINORG	Magnesium		4.73	mg/L			0.0636 mg/L
E242.5	La Delfe above Pajarito	2005	Q1	3/24/2005	UF	GU0503M242501	METALS	Aluminum		6680	ug/L			5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	7/15/2005	UF	GU0507E242501	GENINORG	Magnesium		6.21	mg/L			0.0636 mg/L
E242.5	La Delfe above Pajarito	2005	Q3	7/15/2005	UF	GU0507E242501	METALS	Aluminum		21400	ug/L	*	J	5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	7/15/2005	UF	GU0507E242501	METALS	Mercury		0.79	ug/L			0.77 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	7/15/2005	UF	GU0507E242501	METALS	Silver		4.5	ug/L			4.1 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	8/4/2005	UF	GU0508E242501	GENINORG	Magnesium		5.81	mg/L			0.0636 mg/L
E242.5	La Delfe above Pajarito	2005	Q3	8/4/2005	UF	GU0508E242501	METALS	Aluminum		25400	ug/L			5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	8/6/2005	UF	GU0508E242502	GENINORG	Magnesium		2.03	mg/L			0.0636 mg/L
E242.5	La Delfe above Pajarito	2005	Q3	8/6/2005	UF	GU0508E242502	METALS	Aluminum		6770	ug/L		J	5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	8/12/2005	UF	GU0508E242503	GENINORG	Magnesium		8.64	mg/L			0.0636 mg/L
E242.5	La Delfe above Pajarito	2005	Q3	8/12/2005	UF	GU0508E242503	METALS	Aluminum		51700	ug/L			5000 ug/L
E242.5	La Delfe above Pajarito	2005	Q3	8/12/2005	UF	GU0508E242503	METALS	Silver		5.2	ug/L			4.1 ug/L
E243	Pajarito above Twomile	2004	Q2	4/27/2004	UF	GU04040M24301	GENINORG	Magnesium		4.27	mg/L			0.0636 mg/L
E243	Pajarito above Twomile	2005	Q1	3/22/2005	UF	GU05030M24301	GENINORG	Magnesium		5.24	mg/L			0.0636 mg/L
E243	Pajarito above Twomile	2005	Q1	3/22/2005	UF	GU05030M24301	METALS	Aluminum		7400	ug/L	N	J+	5000 ug/L
E243	Pajarito above Twomile	2005	Q3	7/15/2005	UF	GU05070E24301	GENINORG	Magnesium		10.4	mg/L	N		0.0636 mg/L
E243	Pajarito above Twomile	2005	Q3	7/15/2005	UF	GU05070E24301	METALS	Aluminum		12800	ug/L	N*		5000 ug/L
E243	Pajarito above Twomile	2005	Q3	7/15/2005	UF	GU05070E24301	RAD	Gross alpha		96.1	pCi/L			15 pCi/L
E243	Pajarito above Twomile	2005	Q3	8/12/2005	UF	GU05080E24301	RAD	Gross alpha		37.6	pCi/L			15 pCi/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	GENINORG	Magnesium		55.3	mg/L			0.0636 mg/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Aluminum		350000	ug/L			5000 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Arsenic		67.1	ug/L			24.2 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Copper		642	ug/L			521 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Lead		318	ug/L	E		126 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Silver		74.3	ug/L			4.1 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	METALS	Vanadium		453	ug/L			100 ug/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	RAD	Gross alpha		119	pCi/L			15 pCi/L
E243.5	Twomile tributary at TA-3	2004	Q1	2/25/2004	UF	GU0402E243501	GENINORG	Magnesium		0.495	mg/L			0.0636 mg/L
E243.5	Twomile tributary at TA-3	2004	Q2	4/2/2004	UF	GU0404E243503	GENINORG	Magnesium		0.308	mg/L			0.0636 mg/L
E243.5	Twomile tributary at TA-3	2004	Q2	6/25/2004	UF	GU0406E243501	GENINORG	Magnesium		1.7	mg/L			0.0636 mg/L
E243.5	Twomile tributary at TA-3	2004	Q2	6/25/2004	UF	GU0406E243501	RAD	Gross alpha		37.3	pCi/L			15 pCi/L
E243.5	Twomile tributary at TA-3	2004	Q3	7/15/2004	UF	GU0407E243501	GENINORG	Chemical Oxygen Demand		121	mg/L			120 mg/L
E243.5	Twomile tributary at TA-3	2004	Q3	7/15/2004	UF	GU0407E243501	GENINORG	Magnesium		0.961	mg/L			0.0636 mg/L
E243.5	Twomile tributary at TA-3	2004	Q3	7/18/2004	UF	GU0407E243503	GENINORG	Magnesium		0.686	mg/L	N		0.0636 mg/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E243.5	Twomile tributary at TA-3	2004	Q3	7/27/2004	UF	GU0407E243505	GENINORG	Magnesium		0.353	mg/L			0.0636	mg/L
E243.5	Twomile tributary at TA-3	2004	Q3	9/4/2004	UF	GU0409E243501	GENINORG	Magnesium		0.341	mg/L			0.0636	mg/L
E243.5	Twomile tributary at TA-3	2004	Q3	9/19/2004	UF	GU0409E243502	GENINORG	Magnesium		0.247	mg/L			0.0636	mg/L
E243.5	Twomile tributary at TA-3	2005	Q2	4/16/2005	UF	GU0504E243501	GENINORG	Magnesium		1.09	mg/L	N	J+	0.0636	mg/L
E243.5	Twomile tributary at TA-3	2005	Q2	4/24/2005	UF	GU0504E243502	GENINORG	Magnesium		0.652	mg/L			0.0636	mg/L
E243.5	Twomile tributary at TA-3	2005	Q2	5/27/2005	UF	GU0505E243502	GENINORG	Magnesium		2.01	mg/L		J	0.0636	mg/L
E243.5	Twomile tributary at TA-3	2005	Q2	6/11/2005	UF	GU0506E243501	GENINORG	Magnesium		0.715	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2004	Q2	4/27/2004	UF	GU04040M24401	GENINORG	Magnesium		4.53	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	GENINORG	Chemical Oxygen Demand		1170	mg/L			120	mg/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	GENINORG	Magnesium		31	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	METALS	Aluminum		161000	ug/L			5000	ug/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	METALS	Arsenic		45.9	ug/L	*		24.2	ug/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	METALS	Lead		259	ug/L	E		126	ug/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	METALS	Selenium		6.23	ug/L			5	ug/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	METALS	Vanadium		204	ug/L			100	ug/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	RAD	Gross alpha		1080	pCi/L			15	pCi/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	GENINORG	Chemical Oxygen Demand		1570	mg/L			120	mg/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	GENINORG	Magnesium		15.5	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	METALS	Aluminum		75700	ug/L	E		5000	ug/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	METALS	Arsenic		26.1	ug/L			24.2	ug/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	METALS	Lead		154	ug/L	E		126	ug/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	METALS	Vanadium		101	ug/L			100	ug/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	RAD	Gross alpha		235	pCi/L			15	pCi/L
E244	Twomile above Pajarito	2005	Q1	3/22/2005	UF	GU05030M24401	GENINORG	Magnesium		5.58	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24401	GENINORG	Magnesium		12	mg/L	N		0.0636	mg/L
E244	Twomile above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24401	METALS	Aluminum		24400	ug/L	N*		5000	ug/L
E244	Twomile above Pajarito	2005	Q3	7/15/2005	UF	GU05070E24401	METALS	Lead		248	ug/L			126	ug/L
E244	Twomile above Pajarito	2005	Q3	8/22/2005	UF	GU05080E24401	GENINORG	Magnesium		21	mg/L	N	J+	0.0636	mg/L
E244	Twomile above Pajarito	2005	Q3	8/22/2005	UF	GU05080E24401	METALS	Aluminum		129000	ug/L	N*	J, J+	5000	ug/L
E244	Twomile above Pajarito	2005	Q3	8/22/2005	UF	GU05080E24401	METALS	Arsenic		31.9	ug/L			24.2	ug/L
E244	Twomile above Pajarito	2005	Q3	8/22/2005	UF	GU05080E24401	METALS	Lead		184	ug/L			126	ug/L
E244	Twomile above Pajarito	2005	Q3	8/22/2005	UF	GU05080E24401	METALS	Vanadium		160	ug/L			100	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	GENINORG	Magnesium		62.8	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Aluminum		364000	ug/L			5000	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Arsenic		96.1	ug/L			24.2	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Lead		552	ug/L	E		126	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Selenium		5.4	ug/L			5	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Silver		5.1	ug/L			4.1	ug/L
E244	Twomile above Pajarito	2005	Q3	8/24/2005	UF	GU05080E24402	METALS	Vanadium		453	ug/L			100	ug/L
E244	Twomile above Pajarito	2005	Q3	9/28/2005	UF	GU05100E24401	GENINORG	Magnesium		6.49	mg/L			0.0636	mg/L
E244	Twomile above Pajarito	2005	Q3	9/28/2005	UF	GU05100E24401	METALS	Aluminum		39400	ug/L			5000	ug/L
E245	Pajarito above TA-18	2004	Q2	4/26/2004	UF	GU04040M24501	GENINORG	Magnesium		4.42	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2004	Q3	7/27/2004	UF	GU04070E24501	GENINORG	Magnesium		14.5	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2004	Q3	7/27/2004	UF	GU04070E24501	METALS	Aluminum		86200	ug/L			5000	ug/L
E245	Pajarito above TA-18	2004	Q4	10/11/2004	UF	GU04100E24501	GENINORG	Magnesium		11.6	mg/L	N		0.0636	mg/L
E245	Pajarito above TA-18	2004	Q4	10/11/2004	UF	GU04100E24501	METALS	Aluminum		60700	ug/L	EN		5000	ug/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E245	Pajarito above TA-18	2004	Q4	10/11/2004	UF	GU04100E24501	RAD	Gross alpha		29.7	pCi/L			15	pCi/L
E245	Pajarito above TA-18	2005	Q1	3/21/2005	UF	GU05030M24501	GENINORG	Magnesium		5.05	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2005	Q1	3/21/2005	UF	GU05030M24501	METALS	Aluminum		6670	ug/L			5000	ug/L
E245	Pajarito above TA-18	2005	Q3	7/15/2005	UF	GU05070E24501	GENINORG	Magnesium		11.6	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2005	Q3	7/15/2005	UF	GU05070E24501	METALS	Aluminum		70600	ug/L	*	J	5000	ug/L
E245	Pajarito above TA-18	2005	Q3	7/15/2005	UF	GU05070E24501	METALS	Silver		8	ug/L			4.1	ug/L
E245	Pajarito above TA-18	2005	Q3	7/15/2005	UF	GU05070E24501	RAD	Gross alpha		22.5	pCi/L			15	pCi/L
E245	Pajarito above TA-18	2005	Q3	8/4/2005	UF	GU05080E24501	GENINORG	Magnesium		7.35	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2005	Q3	8/4/2005	UF	GU05080E24501	METALS	Aluminum		40600	ug/L		J	5000	ug/L
E245	Pajarito above TA-18	2005	Q3	8/6/2005	UF	GU05080E24502	RAD	Gross alpha		32.1	pCi/L		J-	15	pCi/L
E245	Pajarito above TA-18	2005	Q3	8/12/2005	UF	GU05080E24503	GENINORG	Magnesium		9.97	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2005	Q3	8/12/2005	UF	GU05080E24503	METALS	Aluminum		66700	ug/L			5000	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	GENINORG	Magnesium		27.6	mg/L			0.0636	mg/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	METALS	Aluminum		174000	ug/L			5000	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	METALS	Arsenic		33.5	ug/L			24.2	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	METALS	Lead		209	ug/L			126	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	METALS	Silver		11.7	ug/L			4.1	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	METALS	Vanadium		211	ug/L			100	ug/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	RAD	Gross alpha		77.3	pCi/L			15	pCi/L
E245.5	Pajarito above Threemile	2004	Q2	4/26/2004	UF	GU0404M245501	GENINORG	Magnesium		4.2	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	GENINORG	Magnesium		27.6	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	METALS	Aluminum		155000	ug/L			5000	ug/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	METALS	Arsenic		42.5	ug/L			24.2	ug/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	METALS	Lead		230	ug/L			126	ug/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	METALS	Vanadium		189	ug/L			100	ug/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	RAD	Gross alpha		234	pCi/L			15	pCi/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	GENINORG	Magnesium		25.7	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	METALS	Aluminum		173000	ug/L	E		5000	ug/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	METALS	Arsenic		43.1	ug/L			24.2	ug/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	METALS	Lead		209	ug/L	E		126	ug/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	METALS	Vanadium		175	ug/L			100	ug/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	RAD	Gross alpha		221	pCi/L			15	pCi/L
E245.5	Pajarito above Threemile	2004	Q4	10/5/2004	UF	GU0410E245501	GENINORG	Magnesium		7.85	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2004	Q4	10/5/2004	UF	GU0410E245501	METALS	Aluminum		11500	ug/L	*		5000	ug/L
E245.5	Pajarito above Threemile	2005	Q1	3/21/2005	UF	GU0503M245501	GENINORG	Magnesium		5.37	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2005	Q1	3/21/2005	UF	GU0503M245501	METALS	Aluminum		7040	ug/L			5000	ug/L
E245.5	Pajarito above Threemile	2005	Q3	7/15/2005	UF	GU0507E245501	GENINORG	Magnesium		21.5	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2005	Q3	7/15/2005	UF	GU0507E245501	METALS	Aluminum		124000	ug/L	*	J	5000	ug/L
E245.5	Pajarito above Threemile	2005	Q3	7/15/2005	UF	GU0507E245501	METALS	Arsenic		30.7	ug/L			24.2	ug/L
E245.5	Pajarito above Threemile	2005	Q3	7/15/2005	UF	GU0507E245501	METALS	Lead		202	ug/L	N	J+	126	ug/L
E245.5	Pajarito above Threemile	2005	Q3	7/15/2005	UF	GU0507E245501	METALS	Vanadium		153	ug/L	*	J	100	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/12/2005	UF	GU0508E245502	GENINORG	Magnesium		14.2	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2005	Q3	8/12/2005	UF	GU0508E245502	METALS	Aluminum		82500	ug/L			5000	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/12/2005	UF	GU0508E245502	METALS	Vanadium		103	ug/L			100	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/12/2005	UF	GU0508E245502	RAD	Gross alpha		34.2	pCi/L			15	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	GENINORG	Magnesium		25.3	mg/L			0.0636	mg/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	METALS	Aluminum		155000	ug/L			5000	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	METALS	Arsenic		27.4	ug/L			24.2	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	METALS	Lead		166	ug/L			126	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	METALS	Vanadium		161	ug/L			100	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	RAD	Gross alpha		44.5	pCi/L		J-	15	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/24/2005	UF	GU0508E245504	RAD	Gross alpha		218	pCi/L			15	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/25/2005	UF	GU0508E245505	GENINORG	Magnesium		8.42	mg/L			0.0636	mg/L
E245.5	Pajarito above Threemile	2005	Q3	8/25/2005	UF	GU0508E245505	METALS	Aluminum		33400	ug/L			5000	ug/L
E245.5	Pajarito above Threemile	2005	Q3	8/25/2005	UF	GU0508E245505	RAD	Gross alpha		62.1	pCi/L			15	pCi/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	GENINORG	Chemical Oxygen Demand		694	mg/L			120	mg/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	GENINORG	Magnesium		23.2	mg/L			0.0636	mg/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	METALS	Aluminum		126000	ug/L			5000	ug/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	METALS	Arsenic		30.5	ug/L			24.2	ug/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	METALS	Lead		240	ug/L			126	ug/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	METALS	Vanadium		177	ug/L			100	ug/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	RAD	Gross alpha		148	pCi/L			15	pCi/L
E246	Threemile above Pajarito	2004	Q3	8/20/2004	UF	GU04080E24601	GENINORG	Magnesium		4.49	mg/L			0.0636	mg/L
E246	Threemile above Pajarito	2004	Q3	8/20/2004	UF	GU04080E24601	METALS	Aluminum		8300	ug/L			5000	ug/L
E246	Threemile above Pajarito	2004	Q3	8/20/2004	UF	GU04080E24601	RAD	Gross alpha		264	pCi/L			15	pCi/L
E246	Threemile above Pajarito	2005	Q1	3/21/2005	UF	GU05030M24601	GENINORG	Magnesium		3.75	mg/L			0.0636	mg/L
E247	MDA G-1	2004	Q3	8/10/2004	UF	GU04080E24701	GENINORG	Magnesium		13.6	mg/L			0.0636	mg/L
E247	MDA G-1	2004	Q3	8/10/2004	UF	GU04080E24701	METALS	Aluminum		30400	ug/L			5000	ug/L
E247	MDA G-1	2004	Q3	8/10/2004	UF	GU04080E24701	RAD	Gross alpha		641	pCi/L			15	pCi/L
E247	MDA G-1	2004	Q4	10/5/2004	UF	GU04100E24701	GENINORG	Magnesium		23	mg/L			0.0636	mg/L
E247	MDA G-1	2004	Q4	10/5/2004	UF	GU04100E24701	METALS	Aluminum		114000	ug/L			5000	ug/L
E247	MDA G-1	2004	Q4	10/5/2004	UF	GU04100E24701	METALS	Vanadium		146	ug/L			100	ug/L
E247	MDA G-1	2004	Q4	10/5/2004	UF	GU04100E24701	RAD	Gross alpha		81.7	pCi/L			15	pCi/L
E247	MDA G-1	2004	Q4	10/11/2004	UF	GU04100E24702	GENINORG	Magnesium		9.26	mg/L			0.0636	mg/L
E247	MDA G-1	2004	Q4	10/11/2004	UF	GU04100E24702	METALS	Aluminum		44800	ug/L			5000	ug/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	GENINORG	Magnesium		23.6	mg/L			0.0636	mg/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	METALS	Aluminum		122000	ug/L			5000	ug/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	METALS	Lead		137	ug/L			126	ug/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	METALS	Vanadium		154	ug/L			100	ug/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	RAD	Gross alpha		76.7	pCi/L			15	pCi/L
E247	MDA G-1	2005	Q3	9/29/2005	UF	GU05090E24701	GENINORG	Magnesium		4.38	mg/L			0.0636	mg/L
E247	MDA G-1	2005	Q3	9/29/2005	UF	GU05090E24701	METALS	Aluminum		21200	ug/L		J	5000	ug/L
E247	MDA G-1	2005	Q3	9/29/2005	UF	GU05090E24701	RAD	Gross alpha		97.7	pCi/L		J-	15	pCi/L
E247	MDA G-1	2005	Q4	10/9/2005	UF	GU05100E24701	GENINORG	Magnesium		23.7	mg/L			0.0636	mg/L
E247	MDA G-1	2005	Q4	10/9/2005	UF	GU05100E24701	METALS	Aluminum		117000	ug/L			5000	ug/L
E247	MDA G-1	2005	Q4	10/9/2005	UF	GU05100E24701	METALS	Arsenic		25.6	ug/L			24.2	ug/L
E247	MDA G-1	2005	Q4	10/9/2005	UF	GU05100E24701	METALS	Vanadium		145	ug/L			100	ug/L
E248.5	MDA G-6U	2004	Q2	4/2/2004	UF	GU0404E248502	GENINORG	Magnesium		4.93	mg/L			0.0636	mg/L
E248.5	MDA G-6U	2004	Q2	4/2/2004	UF	GU0404E248502	METALS	Aluminum		20600	ug/L	E		5000	ug/L
E248.5	MDA G-6U	2004	Q3	7/24/2004	UF	GU0407E248501	GENINORG	Magnesium		3.78	mg/L			0.0636	mg/L
E248.5	MDA G-6U	2004	Q3	7/24/2004	UF	GU0407E248501	METALS	Aluminum		9340	ug/L			5000	ug/L
E248.5	MDA G-6U	2004	Q3	8/10/2004	UF	GU0408E248501	RAD	Gross alpha		132	pCi/L			15	pCi/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value
E248.5	MDA G-6U	2004	Q3	9/25/2004	UF	GU0409E248501	GENINORG	Magnesium		2.37	mg/L			0.0636 mg/L
E248.5	MDA G-6U	2004	Q3	9/25/2004	UF	GU0409E248501	METALS	Aluminum		11700	ug/L	N*		5000 ug/L
E248.5	MDA G-6U	2005	Q2	4/24/2005	UF	GU0504E248501	GENINORG	Magnesium		3.59	mg/L			0.0636 mg/L
E248.5	MDA G-6U	2005	Q2	4/24/2005	UF	GU0504E248501	METALS	Aluminum		12500	ug/L	N*	J+	5000 ug/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	GENINORG	Magnesium		19.1	mg/L	N		0.0636 mg/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	METALS	Aluminum		19700	ug/L	N*		5000 ug/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	PEST/PCB	Aroclor-1254		0.11	ug/L			0.0017 ug/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	PEST/PCB	Aroclor-1260		0.095	ug/L	J		0.0017 ug/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	RAD	Gross alpha		84.3	pCi/L			15 pCi/L
E248.5	MDA G-6U	2005	Q3	8/5/2005	UF	GU0508E248501	GENINORG	Magnesium		6.02	mg/L			0.0636 mg/L
E248.5	MDA G-6U	2005	Q3	8/5/2005	UF	GU0508E248501	METALS	Aluminum		15400	ug/L		J	5000 ug/L
E248.5	MDA G-6U	2005	Q3	8/12/2005	UF	GU0508E248502	GENINORG	Magnesium		3.71	mg/L			0.0636 mg/L
E248.5	MDA G-6U	2005	Q3	8/12/2005	UF	GU0508E248502	METALS	Aluminum		13200	ug/L		J	5000 ug/L
E248.5	MDA G-6U	2005	Q4	10/9/2005	UF	GU0510E248501	RAD	Gross alpha		85.7	pCi/L			15 pCi/L
E249	MDA G-4	2004	Q3	8/10/2004	UF	GU04080E24901	GENINORG	Chemical Oxygen Demand		387	mg/L			120 mg/L
E249	MDA G-4	2004	Q3	8/10/2004	UF	GU04080E24901	GENINORG	Magnesium		2.84	mg/L			0.0636 mg/L
E249	MDA G-4	2004	Q3	8/10/2004	UF	GU04080E24901	METALS	Aluminum		5150	ug/L			5000 ug/L
E250	Pajarito above SR-4	2004	Q2	4/8/2004	UF	GU04040E25002	GENINORG	Magnesium		6.3	mg/L			0.0636 mg/L
E250	Pajarito above SR-4	2004	Q2	4/8/2004	UF	GU04040E25001	GENINORG	Magnesium		7.05	mg/L			0.0636 mg/L
E250	Pajarito above SR-4	2004	Q2	4/8/2004	UF	GU04040E25001	METALS	Aluminum		8130	ug/L	E		5000 ug/L
E250	Pajarito above SR-4	2005	Q1	3/23/2005	UF	GU05030M25001	GENINORG	Magnesium		6.58	mg/L			0.0636 mg/L
E250	Pajarito above SR-4	2005	Q3	8/12/2005	UF	GU05080E25001	GENINORG	Magnesium		6.18	mg/L			0.0636 mg/L
E250	Pajarito above SR-4	2005	Q3	8/12/2005	UF	GU05080E25001	METALS	Aluminum		17300	ug/L			5000 ug/L
E252	Water above SR-501	2005	Q1	3/29/2005	UF	GU05030M25201	GENINORG	Magnesium		5.53	mg/L			0.0636 mg/L
E252.5	Water above S Site Canyon	2004	Q2	4/27/2004	UF	GU04040M26001	GENINORG	Magnesium		5	mg/L			0.0636 mg/L
E252.5	Water above S Site Canyon	2004	Q3	8/20/2004	UF	GU04080E26001	GENINORG	Chemical Oxygen Demand		464	mg/L			120 mg/L
E252.5	Water above S Site Canyon	2004	Q3	8/20/2004	UF	GU04080E26001	GENINORG	Magnesium		11.9	mg/L			0.0636 mg/L
E252.5	Water above S Site Canyon	2004	Q3	8/20/2004	UF	GU04080E26001	METALS	Aluminum		36500	ug/L			5000 ug/L
E252.5	Water above S Site Canyon	2005	Q1	3/30/2005	UF	GU0503M252501	GENINORG	Magnesium		5.29	mg/L			0.0636 mg/L
E252.5	Water above S Site Canyon	2005	Q3	8/12/2005	UF	GU0508E252501	GENINORG	Magnesium		9.94	mg/L			0.0636 mg/L
E252.5	Water above S Site Canyon	2005	Q3	8/12/2005	UF	GU0508E252501	METALS	Aluminum		53400	ug/L			5000 ug/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	GENINORG	Chemical Oxygen Demand		921	mg/L			120 mg/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	GENINORG	Magnesium		69.5	mg/L			0.0636 mg/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	METALS	Aluminum		397000	ug/L			5000 ug/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	METALS	Arsenic		95.1	ug/L			24.2 ug/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	METALS	Lead		225	ug/L			126 ug/L
E252.8	S Site Canyon above Water	2004	Q3	8/20/2004	UF	GU04080E26101	METALS	Vanadium		483	ug/L			100 ug/L
E252.8	S Site Canyon above Water	2005	Q3	8/12/2005	UF	GU0508E252801	GENINORG	Magnesium		3.32	mg/L			0.0636 mg/L
E252.8	S Site Canyon above Water	2005	Q3	8/12/2005	UF	GU0508E252801	METALS	Aluminum		15000	ug/L			5000 ug/L
E252.8	S Site Canyon above Water	2005	Q3	8/24/2005	UF	GU0508E252802	GENINORG	Magnesium		24.7	mg/L			0.0636 mg/L
E252.8	S Site Canyon above Water	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Aluminum		155000	ug/L			5000 ug/L
E252.8	S Site Canyon above Water	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Arsenic		37.8	ug/L			24.2 ug/L
E252.8	S Site Canyon above Water	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Lead		154	ug/L	E		126 ug/L
E252.8	S Site Canyon above Water	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Vanadium		185	ug/L			100 ug/L
E253	Canon de Valle above SR-501	2005	Q2	4/11/2005	UF	GU05030M25301	GENINORG	Magnesium		3.85	mg/L			0.0636 mg/L
E253	Canon de Valle above SR-501	2005	Q2	4/16/2005	UF	GU05040E25301	GENINORG	Magnesium		6.7	mg/L	N	J+	0.0636 mg/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E253	Canon de Valle above SR-501	2005	Q2	4/16/2005	UF	GU05040E25301	METALS	Aluminum		29800	ug/L		J	5000	ug/L
E256	Canon de Valle below MDA P	2004	Q3	7/27/2004	UF	GU04070E25601	GENINORG	Chemical Oxygen Demand		182	mg/L			120	mg/L
E256	Canon de Valle below MDA P	2004	Q3	7/27/2004	UF	GU04070E25601	GENINORG	Magnesium		17.5	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2004	Q3	7/27/2004	UF	GU04070E25601	METALS	Aluminum		107000	ug/L			5000	ug/L
E256	Canon de Valle below MDA P	2004	Q3	7/27/2004	UF	GU04070E25601	METALS	Lead		163	ug/L			126	ug/L
E256	Canon de Valle below MDA P	2004	Q3	7/27/2004	UF	GU04070E25601	METALS	Vanadium		119	ug/L			100	ug/L
E256	Canon de Valle below MDA P	2004	Q3	8/11/2004	UF	GU04080E25601	GENINORG	Chemical Oxygen Demand		606	mg/L			120	mg/L
E256	Canon de Valle below MDA P	2004	Q3	8/11/2004	UF	GU04080E25601	GENINORG	Magnesium		13.4	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2004	Q3	8/11/2004	UF	GU04080E25601	METALS	Aluminum		76900	ug/L			5000	ug/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	GENINORG	Chemical Oxygen Demand		262	mg/L			120	mg/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	GENINORG	Magnesium		35.2	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	METALS	Aluminum		232000	ug/L			5000	ug/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	METALS	Arsenic		43.1	ug/L			24.2	ug/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	METALS	Lead		135	ug/L			126	ug/L
E256	Canon de Valle below MDA P	2004	Q3	8/20/2004	UF	GU04080E25602	METALS	Vanadium		229	ug/L			100	ug/L
E256	Canon de Valle below MDA P	2005	Q1	3/31/2005	UF	GU05030M25601	GENINORG	Magnesium		5.45	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2005	Q3	7/15/2005	UF	GU05070E25601	GENINORG	Magnesium		11.9	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2005	Q3	7/15/2005	UF	GU05070E25601	METALS	Aluminum		83500	ug/L			5000	ug/L
E256	Canon de Valle below MDA P	2005	Q3	7/15/2005	UF	GU05070E25601	METALS	Silver		42.5	ug/L			4.1	ug/L
E256	Canon de Valle below MDA P	2005	Q3	8/4/2005	UF	GU05080E25601	GENINORG	Magnesium		18.7	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2005	Q3	8/4/2005	UF	GU05080E25601	METALS	Aluminum		137000	ug/L			5000	ug/L
E256	Canon de Valle below MDA P	2005	Q3	8/4/2005	UF	GU05080E25601	METALS	Vanadium		141	ug/L			100	ug/L
E256	Canon de Valle below MDA P	2005	Q3	8/6/2005	UF	GU05080E25602	GENINORG	Magnesium		3.08	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2005	Q3	8/6/2005	UF	GU05080E25602	METALS	Aluminum		9910	ug/L		J	5000	ug/L
E256	Canon de Valle below MDA P	2005	Q3	8/12/2005	UF	GU05080E25603	GENINORG	Magnesium		8.55	mg/L			0.0636	mg/L
E256	Canon de Valle below MDA P	2005	Q3	8/12/2005	UF	GU05080E25603	METALS	Aluminum		58600	ug/L		J	5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q2	4/8/2004	UF	GU04040E25701	GENINORG	Magnesium		3.11	mg/L	*		0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q2	4/8/2004	UF	GU04040E25701	METALS	Aluminum		6840	ug/L	E		5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	7/23/2004	UF	GU04070E25701	GENINORG	Magnesium		11.9	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	7/23/2004	UF	GU04070E25701	METALS	Aluminum		76000	ug/L			5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	7/27/2004	UF	GU04070E25702	GENINORG	Chemical Oxygen Demand		186	mg/L			120	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	7/27/2004	UF	GU04070E25702	GENINORG	Magnesium		6.66	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	7/27/2004	UF	GU04070E25702	METALS	Aluminum		42400	ug/L			5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	8/11/2004	UF	GU04080E25701	GENINORG	Magnesium		4.15	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2004	Q3	8/11/2004	UF	GU04080E25701	METALS	Aluminum		12200	ug/L			5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q2	4/26/2005	UF	GU05040E25701	GENINORG	Magnesium		4.81	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q2	4/26/2005	UF	GU05040E25701	METALS	Aluminum		16800	ug/L	N	J+	5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/4/2005	UF	GU05080E25701	GENINORG	Magnesium		21.4	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/4/2005	UF	GU05080E25701	METALS	Aluminum		149000	ug/L			5000	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/4/2005	UF	GU05080E25701	METALS	Arsenic		29.6	ug/L			24.2	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/4/2005	UF	GU05080E25701	METALS	Vanadium		174	ug/L			100	ug/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/6/2005	UF	GU05080E25702	GENINORG	Magnesium		1.59	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/12/2005	UF	GU05080E25703	GENINORG	Magnesium		5.24	mg/L			0.0636	mg/L
E257	Canon de Valle tributary at Burn Grounds	2005	Q3	8/12/2005	UF	GU05080E25703	METALS	Aluminum		35400	ug/L		J	5000	ug/L
E262	Canon de Valle above Water	2004	Q3	8/20/2004	UF	GU04080E26201	GENINORG	Chemical Oxygen Demand		547	mg/L			120	mg/L
E262	Canon de Valle above Water	2004	Q3	8/20/2004	UF	GU04080E26201	GENINORG	Magnesium		11.2	mg/L			0.0636	mg/L

Table A5. FFCA Watershed Storm Water Monitoring, 2005
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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E262	Canon de Valle above Water	2004	Q3	8/20/2004	UF	GU04080E26201	METALS	Aluminum		30000	ug/L			5000	ug/L
E262	Canon de Valle above Water	2005	Q1	3/30/2005	UF	GU05030M26201	GENINORG	Magnesium		3.61	mg/L			0.0636	mg/L
E262	Canon de Valle above Water	2005	Q1	3/30/2005	UF	GU05030M26201	METALS	Aluminum		6490	ug/L			5000	ug/L
E262	Canon de Valle above Water	2005	Q3	8/12/2005	UF	GU05080E26201	GENINORG	Magnesium		17.9	mg/L			0.0636	mg/L
E262	Canon de Valle above Water	2005	Q3	8/12/2005	UF	GU05080E26201	METALS	Aluminum		80200	ug/L			5000	ug/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	GENINORG	Magnesium		23.7	mg/L			0.0636	mg/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	METALS	Aluminum		146000	ug/L			5000	ug/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	METALS	Arsenic		34.6	ug/L			24.2	ug/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	METALS	Lead		185	ug/L	E		126	ug/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	METALS	Silver		19.5	ug/L			4.1	ug/L
E262	Canon de Valle above Water	2005	Q3	8/24/2005	UF	GU05080E26202	METALS	Vanadium		177	ug/L			100	ug/L
E262.5	Water below MDA AB	2004	Q2	4/27/2004	UF	GU0404M262501	GENINORG	Magnesium		4.86	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2004	Q3	8/19/2004	UF	GU0408E262501	GENINORG	Chemical Oxygen Demand		944	mg/L			120	mg/L
E262.5	Water below MDA AB	2004	Q3	8/19/2004	UF	GU0408E262501	GENINORG	Magnesium		18.2	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2004	Q3	8/19/2004	UF	GU0408E262501	METALS	Aluminum		114000	ug/L			5000	ug/L
E262.5	Water below MDA AB	2004	Q3	8/19/2004	UF	GU0408E262501	METALS	Vanadium		125	ug/L			100	ug/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	GENINORG	Chemical Oxygen Demand		288	mg/L			120	mg/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	GENINORG	Magnesium		6.12	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	METALS	Aluminum		7600	ug/L	*		5000	ug/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	METALS	Selenium		7	ug/L			5	ug/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	RAD	Gross alpha		188	pCi/L			15	pCi/L
E262.5	Water below MDA AB	2005	Q1	3/30/2005	UF	GU0503M262501	GENINORG	Magnesium		4.91	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2005	Q3	8/4/2005	UF	GU0508E262501	GENINORG	Magnesium		14.5	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2005	Q3	8/4/2005	UF	GU0508E262501	METALS	Aluminum		94500	ug/L			5000	ug/L
E262.5	Water below MDA AB	2005	Q3	8/4/2005	UF	GU0508E262501	RAD	Gross alpha		60	pCi/L		J-	15	pCi/L
E262.5	Water below MDA AB	2005	Q3	8/12/2005	UF	GU0508E262502	GENINORG	Magnesium		9.84	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2005	Q3	8/12/2005	UF	GU0508E262502	METALS	Aluminum		54100	ug/L			5000	ug/L
E262.5	Water below MDA AB	2005	Q3	8/12/2005	UF	GU0508E262502	RAD	Gross alpha		37.7	pCi/L			15	pCi/L
E262.5	Water below MDA AB	2005	Q3	8/24/2005	UF	GU0508E262503	GENINORG	Magnesium		19.8	mg/L			0.0636	mg/L
E262.5	Water below MDA AB	2005	Q3	8/24/2005	UF	GU0508E262503	METALS	Aluminum		129000	ug/L			5000	ug/L
E262.5	Water below MDA AB	2005	Q3	8/24/2005	UF	GU0508E262503	METALS	Lead		129	ug/L	E		126	ug/L
E262.5	Water below MDA AB	2005	Q3	8/24/2005	UF	GU0508E262503	METALS	Vanadium		123	ug/L			100	ug/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	GENINORG	Magnesium		55.9	mg/L			0.0636	mg/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	METALS	Aluminum		278000	ug/L			5000	ug/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	METALS	Arsenic		51.6	ug/L			24.2	ug/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	METALS	Lead		246	ug/L			126	ug/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	METALS	Vanadium		318	ug/L			100	ug/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	RAD	Gross alpha		604	pCi/L			15	pCi/L
E263	Water at SR-4	2004	Q3	8/20/2004	UF	GU04080E26302	GENINORG	Magnesium		20.2	mg/L	E		0.0636	mg/L
E263	Water at SR-4	2004	Q3	8/20/2004	UF	GU04080E26302	METALS	Aluminum		55800	ug/L			5000	ug/L
E263	Water at SR-4	2004	Q3	8/20/2004	UF	GU04080E26302	METALS	Arsenic		25.4	ug/L			24.2	ug/L
E263	Water at SR-4	2004	Q3	8/20/2004	UF	GU04080E26302	METALS	Lead		379	ug/L			126	ug/L
E263	Water at SR-4	2004	Q3	8/20/2004	UF	GU04080E26302	METALS	Vanadium		135	ug/L			100	ug/L
E263	Water at SR-4	2005	Q1	3/28/2005	UF	GU05030M26301	GENINORG	Magnesium		5.02	mg/L			0.0636	mg/L
E263	Water at SR-4	2005	Q3	8/12/2005	UF	GU05080E26301	GENINORG	Magnesium		10.9	mg/L			0.0636	mg/L
E263	Water at SR-4	2005	Q3	8/12/2005	UF	GU05080E26301	METALS	Aluminum		67000	ug/L			5000	ug/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	wSAL Value	
E263	Water at SR-4	2005	Q3	9/29/2005	UF	GU05090E26301	GENINORG	Magnesium		9.99	mg/L			0.0636	mg/L
E263	Water at SR-4	2005	Q3	9/29/2005	UF	GU05090E26301	METALS	Aluminum		57100	ug/L			5000	ug/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	GENINORG	Magnesium		56.3	mg/L			0.0636	mg/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	METALS	Aluminum		316000	ug/L			5000	ug/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	METALS	Arsenic		60	ug/L			24.2	ug/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	METALS	Lead		282	ug/L			126	ug/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	METALS	Vanadium		338	ug/L			100	ug/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	RAD	Gross alpha		32.5	pCi/L			15	pCi/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	GENINORG	Magnesium		77.2	mg/L	E		0.0636	mg/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	METALS	Aluminum		293000	ug/L			5000	ug/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	METALS	Arsenic		73.5	ug/L			24.2	ug/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	METALS	Lead		405	ug/L			126	ug/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	METALS	Silver		6	ug/L			4.1	ug/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	METALS	Vanadium		375	ug/L			100	ug/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	RAD	Gross alpha		161	pCi/L			15	pCi/L
E265	Water below SR-4	2005	Q1	3/28/2005	UF	GU05030M26501	GENINORG	Magnesium		5.19	mg/L			0.0636	mg/L
E265	Water below SR-4	2005	Q3	8/12/2005	UF	GU05080E26501	GENINORG	Magnesium		10.1	mg/L			0.0636	mg/L
E265	Water below SR-4	2005	Q3	8/12/2005	UF	GU05080E26501	METALS	Aluminum		61900	ug/L			5000	ug/L
E265	Water below SR-4	2005	Q3	8/12/2005	UF	GU05080E26501	RAD	Gross alpha		24	pCi/L			15	pCi/L
E265	Water below SR-4	2005	Q3	8/24/2005	UF	GU05080E26502	GENINORG	Magnesium		13.8	mg/L			0.0636	mg/L
E265	Water below SR-4	2005	Q3	8/24/2005	UF	GU05080E26502	METALS	Aluminum		86300	ug/L			5000	ug/L
E265	Water below SR-4	2005	Q3	9/28/2005	UF	GU05090E26501	GENINORG	Magnesium		16.6	mg/L			0.0636	mg/L
E265	Water below SR-4	2005	Q3	9/28/2005	UF	GU05090E26501	METALS	Aluminum		93400	ug/L			5000	ug/L
E265	Water below SR-4	2005	Q3	9/28/2005	UF	GU05090E26501	METALS	Lead		182	ug/L			126	ug/L
E265	Water below SR-4	2005	Q3	9/28/2005	UF	GU05090E26501	RAD	Gross alpha		67.3	pCi/L		J-	15	pCi/L
E267	Potrillo above SR-4	2005	Q3	9/28/2005	UF	GU05090E26701	GENINORG	Magnesium		7.19	mg/L			0.0636	mg/L
E267	Potrillo above SR-4	2005	Q3	9/28/2005	UF	GU05090E26701	METALS	Aluminum		44300	ug/L			5000	ug/L
E267	Potrillo above SR-4	2005	Q3	9/28/2005	UF	GU05090E26701	RAD	Gross alpha		80.4	pCi/L		J-	15	pCi/L

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	03/18/05	UF	CS	GU05030M02601	<	0.2		1020	<	2.6		47.1	<	0.46	<	0.1
E026	Los Alamos below Ice Rink	WT	04/16/05	F	CS	GF05040E02601	<	0.2		212	<	6		28	<	1	<	0.1
E026	Los Alamos below Ice Rink	WT	04/16/05	UF	CS	GU05040E02601		0.23		56800		14		738		4.2		4.4
E026	Los Alamos below Ice Rink	WT	04/17/05	F	CS	GF05040E02602	<	0.2		98.6	<	6		27.3	<	1	<	0.1
E026	Los Alamos below Ice Rink	WT	04/17/05	UF	CS	GU05040E02602	<	0.2		33700	<	6		381		2.6		0.83
E030	Los Alamos above DP Canyon	WM	03/18/05	UF	CS	GU05030M03001	<	0.2		1040	<	1.67		63.2	<	0.172	<	0.1
E030	Los Alamos above DP Canyon	WT	08/12/05	F	CS	GF05080E03001	<	0.2		331	<	6		24.6	<	1	<	0.1
E030	Los Alamos above DP Canyon	WT	08/12/05	UF	CS	GU05080E03001		1.7		29700		10.9		1350		10.2		9.9
E030	Los Alamos above DP Canyon	WT	09/29/05	F	CS	GF05090E03001	<	0.2		3420	<	6		29.5	<	1	<	0.1
E030	Los Alamos above DP Canyon	WT	09/29/05	UF	CS	GU05090E03001	<	0.2		18900	<	6		135		1.2		0.39
E030	Los Alamos above DP Canyon	WT	10/19/05	F	CS	GF05100E03001	<	0.2		738	<	6		38.8	<	1	<	0.1
E030	Los Alamos above DP Canyon	WT	10/19/05	UF	CS	GU05100E03001		0.25		21100		7.6		284		1.9		1.3
E038	DP above TA-21	WT	04/16/05	F	CS	GF05040E03801	<	0.2		637	<	6		20.6	<	1	<	0.1
E038	DP above TA-21	WT	04/16/05	UF	CS	GU05040E03801	<	0.2		35400		10		504		3.1		2
E038	DP above TA-21	WT	04/24/05	F	CS	GF05040E03802	<	0.2		511	<	6		13.4	<	1	<	0.1
E038	DP above TA-21	WT	04/24/05	UF	CS	GU05040E03802	<	0.2		23800		7.6		220		1.8		1.1
E038	DP above TA-21	WT	04/25/05	F	CS	GF05040E03803	<	0.2		941	<	6		24.1	<	1		0.21
E038	DP above TA-21	WT	04/25/05	UF	CS	GU05040E03803	<	0.2		9260	<	6		92	<	1		0.48
E038	DP above TA-21	WT	05/03/05	F	CS	GF05050E03802	<	0.2		596	<	6		16.1	<	1		0.19
E038	DP above TA-21	WT	05/03/05	UF	CS	GU05050E03802		0.23		26600	<	11.5		271		2		1.2
E039	DP below Meadow at TA-21	WT	05/03/05	F	CS	GF05050E03901	<	0.2		1100	<	6		17.1	<	1	<	0.1
E039	DP below Meadow at TA-21	WT	05/03/05	UF	CS	GU05050E03901	<	0.2		14900	<	6		126		1.1		0.56
E039	DP below Meadow at TA-21	WT	07/15/05	F	CS	GF05070E03901	<	0.2		165	<	6		32.1	<	1	<	0.1
E039	DP below Meadow at TA-21	WT	07/15/05	UF	CS	GU05070E03901		0.44		54200		14.1		495		3.8		2.1
E039	DP below Meadow at TA-21	WT	08/04/05	F	CS	GF05080E03901	<	0.2		102	<	6		17.2	<	1	<	0.1
E039	DP below Meadow at TA-21	WT	08/04/05	UF	CS	GU05080E03901	<	0.46		75200		16.7		581		4.7		2
E039	DP below Meadow at TA-21	WT	08/12/05	F	CS	GF05080E03902	<	0.2		561	<	6		39.6	<	1	<	0.1
E039	DP below Meadow at TA-21	WT	08/12/05	UF	CS	GU05080E03902	<	0.2		6580	<	6		81.4	<	1		0.24
E040	DP above Los Alamos Canyon	WM	03/22/05	UF	CS	GU05030M04001	<	0.2		52.3	<	1.67		201	<	0.172	<	0.1
E040	DP above Los Alamos Canyon	WT	05/03/05	F	CS	GF05050E04001	<	0.2		511	<	6		30.6	<	1		0.11
E040	DP above Los Alamos Canyon	WT	05/03/05	UF	CS	GU05050E04001		0.28		34700		11		317		2.8		1.5
E040	DP above Los Alamos Canyon	WT	08/04/05	F	CS	GF05080E04001	<	0.2		250	<	6		23.5	<	1	<	0.1
E040	DP above Los Alamos Canyon	WT	08/04/05	UF	CS	GU05080E04001		0.63		60500		17.8		1080		9.6		4.2
E040	DP above Los Alamos Canyon	WT	08/11/05	F	CS	GF05080E04002	<	0.2		918	<	6		25.7	<	1	<	0.1
E040	DP above Los Alamos Canyon	WT	08/11/05	UF	CS	GU05080E04002		0.91		97200		27.8		1000		9.7		5
E040	DP above Los Alamos Canyon	WT	08/12/05	F	CS	GF05080E04004	<	0.2		1760	<	6		31	<	1	<	0.1
E040	DP above Los Alamos Canyon	WT	08/12/05	UF	CS	GU05080E04004		0.51		52200		12.6		595		5.1		2.3
E042	Los Alamos above SR-4	WM	03/18/05	UF	CS	GU05030M04201	<	0.2		1470	<	1.67		66.6	<	0.172	<	0.1
E042	Los Alamos above SR-4	WT	04/16/05	F	CS	GF05040E04201	<	0.2		196	<	6		38	<	1	<	0.1
E042	Los Alamos above SR-4	WT	04/16/05	UF	CS	GU05040E04201		1.6		158000		42.3		1930		16.4		5.8
E042	Los Alamos above SR-4	WT	05/03/05	F	CS	GF05050E04201	<	0.2		436	<	6		33.8	<	1	<	0.1
E042	Los Alamos above SR-4	WT	05/03/05	UF	CS	GU05050E04201		0.24		31200		9.2		497		3.8		1.6
E042	Los Alamos above SR-4	WT	07/15/05	F	CS	GF05070E04201	<	0.2		470	<	6		51.3	<	1	<	0.1
E042	Los Alamos above SR-4	WT	07/15/05	UF	CS	GU05070E04201	<	0.2		28900		7.1		1010		7.2		2.8
E042	Los Alamos above SR-4	WT	08/04/05	F	CS	GF05080E04201	<	0.2		796	<	6		28	<	1	<	0.1
E042	Los Alamos above SR-4	WT	08/04/05	UF	CS	GU05080E04201		1.3		123000		45.7		1240		12.1		5
E042	Los Alamos above SR-4	WT	08/12/05	F	CS	GF05080E04202	<	0.2		1350	<	6		34.3	<	1	<	0.1
E042	Los Alamos above SR-4	WT	08/12/05	UF	CS	GU05080E04202		0.56		59000		13.5		536		5.1		1.8

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	03/18/05	UF	CS	GU05030M02601	<	0.762	<	1.43	<	1.8		492	<	0.0472		34.7	<	1.3
E026	Los Alamos below Ice Rink	WT	04/16/05	F	CS	GF05040E02601	<	1	<	1	<	3		117				7.1	<	2
E026	Los Alamos below Ice Rink	WT	04/16/05	UF	CS	GU05040E02601		17.5		34.7		44.2		40200		0.12		4360	<	2
E026	Los Alamos below Ice Rink	WT	04/17/05	F	CS	GF05040E02602	<	1	<	1	<	3		50.9				2	<	2
E026	Los Alamos below Ice Rink	WT	04/17/05	UF	CS	GU05040E02602		8.4		16.9		20.5		20300	<	0.05		1960	<	2
E030	Los Alamos above DP Canyon	WM	03/18/05	UF	CS	GU05030M03001	<	0.79	<	1.43	<	1.8		572	<	0.0472		34.8	<	2.3
E030	Los Alamos above DP Canyon	WT	08/12/05	F	CS	GF05080E03001	<	1	<	1		4.4		192				7.1	<	2
E030	Los Alamos above DP Canyon	WT	08/12/05	UF	CS	GU05080E03001		35.7		36.7		182		24000		0.83		6450	<	2
E030	Los Alamos above DP Canyon	WT	09/29/05	F	CS	GF05090E03001		1.6		4.2		3.1		1690				15.3		2.1
E030	Los Alamos above DP Canyon	WT	09/29/05	UF	CS	GU05090E03001		3.3		13.7		13.2		12500		0.055		374		2
E030	Los Alamos above DP Canyon	WT	10/19/05	F	CS	GF05100E03001		3.4		1.7	<	3		377				9.4		4
E030	Los Alamos above DP Canyon	WT	10/19/05	UF	CS	GU05100E03001		6		18.2		24.4		14300	<	0.22		1130		4.4
E038	DP above TA-21	WT	04/16/05	F	CS	GF05040E03801		3		4.1		5.1		382				101	<	2
E038	DP above TA-21	WT	04/16/05	UF	CS	GU05040E03801		14.7		51.9		94.1		31700	<	0.05		1370		2.4
E038	DP above TA-21	WT	04/24/05	F	CS	GF05040E03802		3.4		2		6.4		279				22.9	<	2
E038	DP above TA-21	WT	04/24/05	UF	CS	GU05040E03802		5.1		20.5		45.6		16800	<	0.05		670		3.8
E038	DP above TA-21	WT	04/25/05	F	CS	GF05040E03803	<	1.7	<	3.9		6		498				10.2	<	2.1
E038	DP above TA-21	WT	04/25/05	UF	CS	GU05040E03803	<	2.6		11.3		17.1		6840	<	0.05		208	<	2.5
E038	DP above TA-21	WT	05/03/05	F	CS	GF05050E03802		2.2		3.9	<	5.3		292				14.6	<	2
E038	DP above TA-21	WT	05/03/05	UF	CS	GU05050E03802		8.9		30.5		51		20300	<	0.12		851	<	2
E039	DP below Meadow at TA-21	WT	05/03/05	F	CS	GF05050E03901		2.9		4.4	<	3.8		544				11.3	<	2
E039	DP below Meadow at TA-21	WT	05/03/05	UF	CS	GU05050E03901		3.2		14.5		19.9		10200	<	0.098		364	<	2
E039	DP below Meadow at TA-21	WT	07/15/05	F	CS	GF05070E03901	<	1		1.9		4.2		116				52.9		2.2
E039	DP below Meadow at TA-21	WT	07/15/05	UF	CS	GU05070E03901		16		51.7		86.8		47400		0.095		1430		4.1
E039	DP below Meadow at TA-21	WT	08/04/05	F	CS	GF05080E03901	<	1		2.9		3		57.1			<	2	<	2
E039	DP below Meadow at TA-21	WT	08/04/05	UF	CS	GU05080E03901		18.8		66.6		84		77000		0.16		2000		3.8
E039	DP below Meadow at TA-21	WT	08/12/05	F	CS	GF05080E03902	<	1		1.7		3.9		322				3.4		2.1
E039	DP below Meadow at TA-21	WT	08/12/05	UF	CS	GU05080E03902	<	1		5.3		8.9		4090		0.08		141		2.3
E040	DP above Los Alamos Canyon	WM	03/22/05	UF	CS	GU05030M04001	<	0.762	<	1.43	<	1.8		31.9	<	0.0472	<	1.6	<	2.1
E040	DP above Los Alamos Canyon	WT	05/03/05	F	CS	GF05050E04001	<	2		2.6		3.4		252				5.7		2.4
E040	DP above Los Alamos Canyon	WT	05/03/05	UF	CS	GU05050E04001		9.4		28.9		41.8		28000		0.1		963	<	2
E040	DP above Los Alamos Canyon	WT	08/04/05	F	CS	GF05080E04001	<	1		2.5		4.9		158				6.9		3
E040	DP above Los Alamos Canyon	WT	08/04/05	UF	CS	GU05080E04001		31		53.5		128		43800		0.18		4090		3.1
E040	DP above Los Alamos Canyon	WT	08/11/05	F	CS	GF05080E04002		3.5		1.8		5.4		530				11.4	<	2
E040	DP above Los Alamos Canyon	WT	08/11/05	UF	CS	GU05080E04002		30.8		86.4		130		73300		0.28		4000		6.2
E040	DP above Los Alamos Canyon	WT	08/12/05	F	CS	GF05080E04004		7.3		2.5		6.5		907				21.8		2.7
E040	DP above Los Alamos Canyon	WT	08/12/05	UF	CS	GU05080E04004		17.3		41		75.8		37000		0.2		2120		3.1
E042	Los Alamos above SR-4	WM	03/18/05	UF	CS	GU05030M04201	<	0.762	<	1.43	<	1.8		826	<	0.0472		46.5		16.2
E042	Los Alamos above SR-4	WT	04/16/05	F	CS	GF05040E04201		2	<	1	<	3		101				6.3		5.1
E042	Los Alamos above SR-4	WT	04/16/05	UF	CS	GU05040E04201		56.1		131		194		131000		0.82		9190		10.6
E042	Los Alamos above SR-4	WT	05/03/05	F	CS	GF05050E04201	<	1		1.6	<	3		184				2.9		3.4
E042	Los Alamos above SR-4	WT	05/03/05	UF	CS	GU05050E04201		13.9		23.2		45.3		21600		0.11		2140		2.5
E042	Los Alamos above SR-4	WT	07/15/05	F	CS	GF05070E04201		3.1		1.7		3.7		383				548	<	7.2
E042	Los Alamos above SR-4	WT	07/15/05	UF	CS	GU05070E04201		26		26.9		84.6		25600		0.22		4600	<	2
E042	Los Alamos above SR-4	WT	08/04/05	F	CS	GF05080E04201		1.1		2.8		3.5		461				16		3.1
E042	Los Alamos above SR-4	WT	08/04/05	UF	CS	GU05080E04201		36.9		97.8		187		97200		0.33		4450		7.7
E042	Los Alamos above SR-4	WT	08/12/05	F	CS	GF05080E04202	<	1		1.9		4.3		699				66.4		2.8
E042	Los Alamos above SR-4	WT	08/12/05	UF	CS	GU05080E04202		16.5		47.3		69.1		46300		0.17		2070		4.3

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	03/18/05	UF	CS	GU05030M02601		1.2		0.74	<	0.5	<	2.5	<	0.4		1.3		6.3
E026	Los Alamos below Ice Rink	WT	04/16/05	F	CS	GF05040E02601		0.72	<	0.5	<	0.5	<	2.5	<	0.4	<	1		3.3
E026	Los Alamos below Ice Rink	WT	04/16/05	UF	CS	GU05040E02601		46.3		93.2		0.52	<	2.5		1		62.4		249
E026	Los Alamos below Ice Rink	WT	04/17/05	F	CS	GF05040E02602		0.62	<	0.5	<	0.5	<	2.5	<	0.4	<	1	<	2
E026	Los Alamos below Ice Rink	WT	04/17/05	UF	CS	GU05040E02602		19.7		40.5	<	0.5	<	2.5		0.65		29.9		111
E030	Los Alamos above DP Canyon	WM	03/18/05	UF	CS	GU05030M03001		1.1		1.3	<	0.5	<	2.5	<	0.4		1.5		11.7
E030	Los Alamos above DP Canyon	WT	08/12/05	F	CS	GF05080E03001		0.97		0.5	<	0.64	<	2.5	<	0.4		1.4	<	9.6
E030	Los Alamos above DP Canyon	WT	08/12/05	UF	CS	GU05080E03001		94		552	<	1.4	<	2.5		2.7		73.5		1070
E030	Los Alamos above DP Canyon	WT	09/29/05	F	CS	GF05090E03001		1.8		2.3	<	0.65	<	2.5		0.56		3.7		9.8
E030	Los Alamos above DP Canyon	WT	09/29/05	UF	CS	GU05090E03001		11.5		27.7	<	0.58	<	2.5	<	0.4		17.7		80.2
E030	Los Alamos above DP Canyon	WT	10/19/05	F	CS	GF05100E03001		1.4		0.69	<	0.5	<	2.5		0.45		1.8	<	10.5
E030	Los Alamos above DP Canyon	WT	10/19/05	UF	CS	GU05100E03001		11		49.3		0.71	<	2.5		0.43		23.2		199
E038	DP above TA-21	WT	04/16/05	F	CS	GF05040E03801		2.9		1.1		0.91	<	3.4	<	0.4		2.4		27.8
E038	DP above TA-21	WT	04/16/05	UF	CS	GU05040E03801		14.3		120		0.87	<	3.8	<	0.4		54.6		890
E038	DP above TA-21	WT	04/24/05	F	CS	GF05040E03802		1.4		0.83		0.71	<	2.5	<	0.4		1.9		22.3
E038	DP above TA-21	WT	04/24/05	UF	CS	GU05040E03802		16.8		64.1		1.5	<	2.5	<	0.4		29		351
E038	DP above TA-21	WT	04/25/05	F	CS	GF05040E03803		1.7		0.95		0.85	<	2.5	<	0.4	<	2.1		22.6
E038	DP above TA-21	WT	04/25/05	UF	CS	GU05040E03803		6.8		18.7		1.4	<	2.5	<	0.4		12.1		139
E038	DP above TA-21	WT	05/03/05	F	CS	GF05050E03802		1.4		0.54	<	0.94	<	2.5	<	0.4		2.7	<	13.3
E038	DP above TA-21	WT	05/03/05	UF	CS	GU05050E03802		17		75.6	<	1.7	<	2.5	<	0.4		36.8		462
E039	DP below Meadow at TA-21	WT	05/03/05	F	CS	GF05050E03901		1.3		0.96	<	0.5	<	2.5	<	0.4		2.6	<	14.7
E039	DP below Meadow at TA-21	WT	05/03/05	UF	CS	GU05050E03901		7.4		33.6	<	0.97	<	2.5	<	0.4		18.9		149
E039	DP below Meadow at TA-21	WT	07/15/05	F	CS	GF05070E03901		1.9	<	0.5	<	0.9	<	2.5	<	0.4		2.1		21.2
E039	DP below Meadow at TA-21	WT	07/15/05	UF	CS	GU05070E03901		28.2		133	<	2.1	<	2.5		0.55		72		701
E039	DP below Meadow at TA-21	WT	08/04/05	F	CS	GF05080E03901		0.91	<	0.5		0.53	<	2.5	<	0.4		3.6		5.1
E039	DP below Meadow at TA-21	WT	08/04/05	UF	CS	GU05080E03901		35.9		161		3	<	2.5		0.84		100		687
E039	DP below Meadow at TA-21	WT	08/12/05	F	CS	GF05080E03902		1.2		0.53	<	0.5	<	2.5	<	0.4		2.3	<	10.2
E039	DP below Meadow at TA-21	WT	08/12/05	UF	CS	GU05080E03902		3.4		13.1		0.63	<	2.5	<	0.4		8.4		51.7
E040	DP above Los Alamos Canyon	WM	03/22/05	UF	CS	GU05030M04001		1.4	<	0.5	<	0.5	<	2.5	<	0.4	<	0.732		6.4
E040	DP above Los Alamos Canyon	WT	05/03/05	F	CS	GF05050E04001		1.5	<	0.5		0.69	<	2.5	<	0.4		1.3		6.1
E040	DP above Los Alamos Canyon	WT	05/03/05	UF	CS	GU05050E04001		19.4		96.5		1.2	<	2.5		0.46		41.8		335
E040	DP above Los Alamos Canyon	WT	08/04/05	F	CS	GF05080E04001		1	<	0.5	<	0.5	<	2.5	<	0.4		2.9	<	9
E040	DP above Los Alamos Canyon	WT	08/04/05	UF	CS	GU05080E04001		48.9		352		1.5	<	2.5		0.83		107		1110
E040	DP above Los Alamos Canyon	WT	08/11/05	F	CS	GF05080E04002		1.4		0.92		0.56	<	2.5	<	0.4		3.3	<	11.4
E040	DP above Los Alamos Canyon	WT	08/11/05	UF	CS	GU05080E04002		79.6		329		1.8	<	2.5		0.96		140		1060
E040	DP above Los Alamos Canyon	WT	08/12/05	F	CS	GF05080E04004		2.5		1.7	<	0.8	<	2.5	<	0.4		3.5		14.7
E040	DP above Los Alamos Canyon	WT	08/12/05	UF	CS	GU05080E04004		29.2		181	<	1.3	<	2.5		0.57		71.8		553
E042	Los Alamos above SR-4	WM	03/18/05	UF	CS	GU05030M04201		1.4		2.3	<	0.5	<	2.5	<	0.4		1.1		13.5
E042	Los Alamos above SR-4	WT	04/16/05	F	CS	GF05040E04201		0.75	<	0.5	<	0.5	<	3.4	<	0.4	<	1		4.8
E042	Los Alamos above SR-4	WT	04/16/05	UF	CS	GU05040E04201		109		406		0.92	<	5.6		2.5		193		1450
E042	Los Alamos above SR-4	WT	05/03/05	F	CS	GF05050E04201		0.7	<	0.5	<	0.5	<	2.5	<	0.4	<	1		4.7
E042	Los Alamos above SR-4	WT	05/03/05	UF	CS	GU05050E04201		21.1		112		0.86	<	2.5		0.57		40.1		370
E042	Los Alamos above SR-4	WT	07/15/05	F	CS	GF05070E04201		2.2		1.7		0.62	<	2.5	<	0.4		2.3		19.4
E042	Los Alamos above SR-4	WT	07/15/05	UF	CS	GU05070E04201		34.4		245	<	0.5	<	2.5	<	0.4		61.9		727
E042	Los Alamos above SR-4	WT	08/04/05	F	CS	GF05080E04201		1.5		0.91	<	0.82	<	2.5	<	0.4		3.6		14.1
E042	Los Alamos above SR-4	WT	08/04/05	UF	CS	GU05080E04201		68.8		398	<	2.9	<	2.5		1.8		160		1340
E042	Los Alamos above SR-4	WT	08/12/05	F	CS	GF05080E04202		1.5		1.3		0.56	<	2.5	<	0.4		3.1		15.6
E042	Los Alamos above SR-4	WT	08/12/05	UF	CS	GU05080E04202		27.9		159		0.92	<	2.5		0.76		73.3		502

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WM	03/22/05	UF	CS	GU05030M05001	<	0.2		970		2.6		62.2	<	0.172	<	0.1
E050	Los Alamos below LA Weir	WT	04/24/05	F	CS	GF05040E05001	<	0.2		790	<	6		31.6	<	1	<	0.1
E050	Los Alamos below LA Weir	WT	04/24/05	UF	CS	GU05040E05001	<	0.2		8160	<	6		437		2.7		0.99
E050	Los Alamos below LA Weir	WT	07/15/05	F	CS	GF05070E05001	<	0.2		281	<	6		51	<	1	<	0.1
E050	Los Alamos below LA Weir	WT	07/15/05	UF	CS	GU05070E05001	<	0.2		8950	<	6		623		4.4		1.8
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05001	<	0.2	<	68	<	6		18.7	<	1	<	0.1
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05002	<	0.2		7810	<	6		48.4	<	1		0.12
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05001		0.4		37000		7.4		437		3.7		1.8
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05002	<	0.2		27100		6.4		210		2		0.68
E055	Pueblo above Acid	WM	03/30/05	UF	CS	GU05030M05501	<	0.2		4220	<	6		62.1	<	1	<	0.1
E055	Pueblo above Acid	WT	05/03/05	F	CS	GF05050E05501	<	0.2		1170	<	6		27.5	<	1		0.16
E055	Pueblo above Acid	WT	05/03/05	UF	CS	GU05050E05501		0.55		106000		25.3		1020		7		2.1
E055	Pueblo above Acid	WT	07/15/05	F	CS	GF05070E05501	<	0.2		73	<	6		41.2	<	1	<	0.1
E055	Pueblo above Acid	WT	07/15/05	UF	CS	GU05070E05501		0.42		81300		15.8		582		4.6		1.4
E055	Pueblo above Acid	WT	08/12/05	F	CS	GF05080E05501	<	0.2		362	<	6		32.3	<	1	<	0.1
E055	Pueblo above Acid	WT	08/12/05	UF	CS	GU05080E05501		0.72		43900		10.1		637		3.5		1.9
E055	Pueblo above Acid	WT	08/13/05	F	CS	GF05080E05502	<	0.2		1170	<	6		38.8	<	1	<	0.1
E055	Pueblo above Acid	WT	08/13/05	UF	CS	GU05080E05502		0.37		108000		23.8		691		6.5		1.4
E0555	South Fork of Acid Canyon	WT	07/15/05	F	CS	GF0507E055501	<	0.2		225	<	6		34.1	<	1	<	0.1
E0555	South Fork of Acid Canyon	WT	07/15/05	UF	CS	GU0507E055501		2.9		64300		17.2		639		4.7		4.2
E0555	South Fork of Acid Canyon	WT	08/05/05	F	CS	GF0508E055501	<	0.2		1110	<	6		16.2	<	1	<	0.1
E0555	South Fork of Acid Canyon	WT	08/05/05	UF	CS	GU0508E055501		1.2		38200		14.7		309		2.5		1.1
E0555	South Fork of Acid Canyon	WT	08/12/05	F	CS	GF0508E055502		0.23		2790	<	6		18.9	<	1		0.11
E0555	South Fork of Acid Canyon	WT	08/12/05	UF	CS	GU0508E055502		0.91		19300	<	6		116		1.3		0.8
E0555	South Fork of Acid Canyon	WT	08/25/05	F	CS	GF0508E055503	<	0.2		89.8	<	6		13.4	<	1	<	0.1
E0555	South Fork of Acid Canyon	WT	08/25/05	UF	CS	GU0508E055503		1.7		37200		6.8		261		2.3		1.3
E0555	South Fork of Acid Canyon	WT	09/28/05	UF	CS	GU0509E055502		0.97		19900		6.5		168		1.4		1.1
E056	Acid above Pueblo	WT	08/12/05	F	CS	GF05080E05601	<	0.2		1390	<	6		15.4	<	1	<	0.1
E056	Acid above Pueblo	WT	08/12/05	UF	CS	GU05080E05601	<	0.2		11200	<	6		156	<	1		0.87
E056	Acid above Pueblo	WT	08/24/05	F	CS	GF05080E05602	<	0.2		602	<	6		15.2	<	1	<	0.1
E056	Acid above Pueblo	WT	08/24/05	UF	CS	GU05080E05602		1.9		68600		18.6		903		6.4		5.8
E056	Acid above Pueblo	WT	09/28/05	F	CS	GF05090E05601	<	0.2		956	<	6		13.6	<	1	<	0.1
E056	Acid above Pueblo	WT	09/28/05	UF	CS	GU05090E05601		0.59		21900		7.6		221		1.5		1.6
E060	Pueblo above SR-502	WT	08/12/05	F	CS	GF05080E06001	<	0.2		781	<	6		35.8	<	1	<	0.1
E060	Pueblo above SR-502	WT	08/12/05	UF	CS	GU05080E06001		0.52		16300		7.4		131		1.1		0.82
E060	Pueblo above SR-502	WT	08/24/05	F	CS	GF05080E06002	<	0.2		724	<	6		32	<	1		0.22
E060	Pueblo above SR-502	WT	08/24/05	UF	CS	GU05080E06002		0.99		39000		8.1		249		2.7		1.3
E060	Pueblo above SR-502	WT	08/25/05	F	CS	GF05080E06003	<	0.2		200	<	6		38.8	<	1	<	0.1
E060	Pueblo above SR-502	WT	08/25/05	UF	CS	GU05080E06003		0.24		17200		6.7		161		1.6		0.8
E060	Pueblo above SR-502	WT	09/29/05	F	CS	GF05090E06002	<	0.2		706	<	6		22	<	1		0.63
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06001												
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06002		0.47		11000	<	6		87.9	<	1		0.41
E110	Los Alamos Canyon near Otowi Bridge	WM	04/20/05	UF	CS	GU05030M11001		0.25		32600	<	6		380		2.6		0.88

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WM	03/22/05	UF	CS	GU05030M05001	<	0.762		5.5	<	1.8		540	<	0.0472		32.3		18.4
E050	Los Alamos below LA Weir	WT	04/24/05	F	CS	GF05040E05001	<	1		1.2	<	3		355				6.3		3
E050	Los Alamos below LA Weir	WT	04/24/05	UF	CS	GU05040E05001		9.9		4.2		17		3860	<	0.05		2450		2.4
E050	Los Alamos below LA Weir	WT	07/15/05	F	CS	GF05070E05001		2.9		1.5		4.7		358				476	<	5.4
E050	Los Alamos below LA Weir	WT	07/15/05	UF	CS	GU05070E05001		15.6		11.8		50.5		10800		0.18		2950	<	2
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05001	<	1		2		3.8		42.9				2.2	<	2
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05002		1.3		6.2		6.5		4180				61.2	<	2
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05001		12		28.1		50.8		24900		0.15		1660		2.4
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05002		5.1		18.8		25.2		18200		0.052		719		2
E055	Pueblo above Acid	WM	03/30/05	UF	CS	GU05030M05501	<	1		2.3	<	3		2280	<	0.05		84.6	<	2.6
E055	Pueblo above Acid	WT	05/03/05	F	CS	GF05050E05501	<	2.6		3.6	<	3		605				15.8		2.1
E055	Pueblo above Acid	WT	05/03/05	UF	CS	GU05050E05501		29		69.1		77.6		83900		0.14		3300		2.5
E055	Pueblo above Acid	WT	07/15/05	F	CS	GF05070E05501		1.1		1.1	<	3		209				768		2.8
E055	Pueblo above Acid	WT	07/15/05	UF	CS	GU05070E05501		18.2		56		61.6		67200		0.12		2230		5.1
E055	Pueblo above Acid	WT	08/12/05	F	CS	GF05080E05501		1.2		1.6		3		245				6.1	<	2
E055	Pueblo above Acid	WT	08/12/05	UF	CS	GU05080E05501		15.9		33.7		56.1		31100		0.25		3370		2.9
E055	Pueblo above Acid	WT	08/13/05	F	CS	GF05080E05502	<	1		1.2		3.2		660				22.4		2.3
E055	Pueblo above Acid	WT	08/13/05	UF	CS	GU05080E05502		21.4		64.6		65.6		84000		0.22		2520		3.5
E0555	South Fork of Acid Canyon	WT	07/15/05	F	CS	GF0507E055501		1.4		2.9	<	3.9		343				285		2.2
E0555	South Fork of Acid Canyon	WT	07/15/05	UF	CS	GU0507E055501		17.6		71.4		123		60400				2070		7.6
E0555	South Fork of Acid Canyon	WT	08/05/05	F	CS	GF0508E055501	<	1		2.7		3.6		603				11.7	<	2
E0555	South Fork of Acid Canyon	WT	08/05/05	UF	CS	GU0508E055501		7.3		29.3		43.4		28000		0.18		727		3.3
E0555	South Fork of Acid Canyon	WT	08/12/05	F	CS	GF0508E055502	<	1	<	3.2		5.3		1490				10.2		2.1
E0555	South Fork of Acid Canyon	WT	08/12/05	UF	CS	GU0508E055502		2.8		14.8		23		12700				269		2.9
E0555	South Fork of Acid Canyon	WT	08/25/05	F	CS	GF0508E055503	<	1	<	1.6	<	3	<	59.7			<	2	<	2
E0555	South Fork of Acid Canyon	WT	08/25/05	UF	CS	GU0508E055503		7.6		29.7		36.9		26900		0.091		677		3.8
E0555	South Fork of Acid Canyon	WT	09/28/05	UF	CS	GU0509E055502		4.1		16.6		26.7		14600				442	<	2
E056	Acid above Pueblo	WT	08/12/05	F	CS	GF05080E05601		3.2		3.4		3.2		763				11.7	<	2
E056	Acid above Pueblo	WT	08/12/05	UF	CS	GU05080E05601		4.2		11.4		24.5		8170				481	<	2
E056	Acid above Pueblo	WT	08/24/05	F	CS	GF05080E05602		2.4		1.2	<	3		359				7.9	<	2
E056	Acid above Pueblo	WT	08/24/05	UF	CS	GU05080E05602		32.7		66		131		59100				3630		4.4
E056	Acid above Pueblo	WT	09/28/05	F	CS	GF05090E05601		3.4		3.2				502				9.9	<	2
E056	Acid above Pueblo	WT	09/28/05	UF	CS	GU05090E05601		6.9		20.1		34.5		15100				778	<	2
E060	Pueblo above SR-502	WT	08/12/05	F	CS	GF05080E06001		1.5	<	1		9.7		535				335		4.1
E060	Pueblo above SR-502	WT	08/12/05	UF	CS	GU05080E06001		3.6		9.2		20.4		11800		0.11		913		3.9
E060	Pueblo above SR-502	WT	08/24/05	F	CS	GF05080E06002		2.9	<	1		4.9		453				106		3.7
E060	Pueblo above SR-502	WT	08/24/05	UF	CS	GU05080E06002		7.1		22.2		31.4		27600				938		4.5
E060	Pueblo above SR-502	WT	08/25/05	F	CS	GF05080E06003		4.1	<	1		4.4	<	175				354		6.3
E060	Pueblo above SR-502	WT	08/25/05	UF	CS	GU05080E06003		5.6		9.1		12.9		10700				1030		6.1
E060	Pueblo above SR-502	WT	09/29/05	F	CS	GF05090E06002		2		1.4		5		461				240		3.9
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06001										0.095				
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06002		2.1		6.4		13.5		7670		0.073		566		3.7
E110	Los Alamos Canyon near Otowi Bridge	WM	04/20/05	UF	CS	GU05030M11001		10.3		16.6		20.9		19600	<	0.05		1510		2.7

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WM	03/22/05	UF	CS	GU05030M05001		1.1		0.93	<	0.5	<	2.5	<	0.4	<	0.732		19.3
E050	Los Alamos below LA Weir	WT	04/24/05	F	CS	GF05040E05001		0.89		0.59	<	0.5	<	2.5	<	0.4	<	1		6.6
E050	Los Alamos below LA Weir	WT	04/24/05	UF	CS	GU05040E05001		10.1		49.4	<	0.5	<	2.5	<	0.4		14.3		223
E050	Los Alamos below LA Weir	WT	07/15/05	F	CS	GF05070E05001		2		1.8		0.62	<	2.5	<	0.4		2.4		24.6
E050	Los Alamos below LA Weir	WT	07/15/05	UF	CS	GU05070E05001		19.5		154	<	0.5	<	2.5	<	0.4		34.5		531
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05001		0.5	<	0.5	<	0.5	<	2.5	<	0.4		1.8	<	7
E050	Los Alamos below LA Weir	WT	08/12/05	F	CS	GF05080E05002		2.2		5.7	<	0.57	<	2.5	<	0.4		7.7		36.7
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05001		19.6		133		1.1	<	2.5		0.53		51.4		423
E050	Los Alamos below LA Weir	WT	08/12/05	UF	CS	GU05080E05002		8.7		47.4	<	0.8	<	2.5	<	0.4		27.6		180
E055	Pueblo above Acid	WM	03/30/05	UF	CS	GU05030M05501		2.7		1.9	<	0.5	<	2.5	<	0.4	<	4.7		15.9
E055	Pueblo above Acid	WT	05/03/05	F	CS	GF05050E05501		1.4	<	0.5		0.65	<	2.5	<	0.4		4.2		4.6
E055	Pueblo above Acid	WT	05/03/05	UF	CS	GU05050E05501		51.2		162	<	0.5	<	2.5		1.3		124		532
E055	Pueblo above Acid	WT	07/15/05	F	CS	GF05070E05501		1.8	<	0.5	<	0.5	<	2.5	<	0.4		2.7	<	9.3
E055	Pueblo above Acid	WT	07/15/05	UF	CS	GU05070E05501		33.9		130	<	0.68	<	2.5		0.9		91.9		442
E055	Pueblo above Acid	WT	08/12/05	F	CS	GF05080E05501		1.1		0.54	<	0.5	<	2.5	<	0.4		2.3	<	8.1
E055	Pueblo above Acid	WT	08/12/05	UF	CS	GU05080E05501		31.6		150		0.93	<	2.5		0.75		63.9		453
E055	Pueblo above Acid	WT	08/13/05	F	CS	GF05080E05502		1.3		0.94	<	0.5	<	2.5	<	0.4		2.7	<	11.4
E055	Pueblo above Acid	WT	08/13/05	UF	CS	GU05080E05502		37.8		123	<	0.5	<	2.5		1.1		114		455
E0555	South Fork of Acid Canyon	WT	07/15/05	F	CS	GF0507E055501		2.1		1.8		0.66	<	2.5	<	0.4		2.5		29.5
E0555	South Fork of Acid Canyon	WT	07/15/05	UF	CS	GU0507E055501		42.2		260		3.8	<	2.5		1.1		86.9		922
E0555	South Fork of Acid Canyon	WT	08/05/05	F	CS	GF0508E055501		1.5		1.7	<	0.54	<	2.5	<	0.4		3		18.1
E0555	South Fork of Acid Canyon	WT	08/05/05	UF	CS	GU0508E055501		13.5		79.1	<	0.93	<	2.5	<	0.4		44.2		293
E0555	South Fork of Acid Canyon	WT	08/12/05	F	CS	GF0508E055502		1.9		3.9	<	0.61	<	2.5	<	0.4		4.1		35.5
E0555	South Fork of Acid Canyon	WT	08/12/05	UF	CS	GU0508E055502		8.4		52.4	<	0.67	<	2.5	<	0.4		21.5		157
E0555	South Fork of Acid Canyon	WT	08/25/05	F	CS	GF0508E055503		0.68	<	0.5	<	0.5	<	2.5	<	0.4		2.2	<	8.4
E0555	South Fork of Acid Canyon	WT	08/25/05	UF	CS	GU0508E055503		16.1		96.5		0.71	<	2.5		0.55		45.2		257
E0555	South Fork of Acid Canyon	WT	09/28/05	UF	CS	GU0509E055502		10.2		77.4	<	0.76	<	2.5	<	0.4		22.6		172
E056	Acid above Pueblo	WT	08/12/05	F	CS	GF05080E05601		1.4		1.6	<	0.5	<	2.5	<	0.4		2.8		16.8
E056	Acid above Pueblo	WT	08/12/05	UF	CS	GU05080E05601		6		62.8	<	0.5	<	2.5	<	0.4		17.8		211
E056	Acid above Pueblo	WT	08/24/05	F	CS	GF05080E05602		1.2		1.2	<	0.5	<	2.5	<	0.4		2.5	<	13.5
E056	Acid above Pueblo	WT	08/24/05	UF	CS	GU05080E05602		49.7		428		1	<	2.5		1.1		116		1310
E056	Acid above Pueblo	WT	09/28/05	F	CS	GF05090E05601		1.2		1.1	<	0.5	<	2.5	<	0.4		2.1		11.2
E056	Acid above Pueblo	WT	09/28/05	UF	CS	GU05090E05601		12.4		102	<	1	<	2.5	<	0.4		31.2		306
E060	Pueblo above SR-502	WT	08/12/05	F	CS	GF05080E06001		5		0.89	<	0.59	<	2.5	<	0.4		11.8	<	17.2
E060	Pueblo above SR-502	WT	08/12/05	UF	CS	GU05080E06001		9.9		22.7	<	0.65	<	2.5	<	0.4		27.3		82.9
E060	Pueblo above SR-502	WT	08/24/05	F	CS	GF05080E06002		3.4		0.87	<	0.5	<	2.5		0.59		8.4	<	11.9
E060	Pueblo above SR-502	WT	08/24/05	UF	CS	GU05080E06002		17.8		59.5	<	0.5	<	2.5		0.53		46		165
E060	Pueblo above SR-502	WT	08/25/05	F	CS	GF05080E06003		4.7	<	0.5	<	0.5	<	2.5	<	0.4		8.2		13.9
E060	Pueblo above SR-502	WT	08/25/05	UF	CS	GU05080E06003		9.7		16.1	<	0.5	<	2.5	<	0.4		23.5		66.1
E060	Pueblo above SR-502	WT	09/29/05	F	CS	GF05090E06002		2.9		0.81	<	0.58	<	2.5	<	0.4		8.3		7.2
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06001														
E060	Pueblo above SR-502	WT	09/29/05	UF	CS	GU05090E06002		6.3		15	<	0.5	<	2.5	<	0.4		18		48.2
E110	Los Alamos Canyon near Otowi Bridge	WM	04/20/05	UF	CS	GU05030M11001		21.7		37.3	<	0.5	<	2.5		0.52		30.4		100

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E121	Sandia right fork at Power Plant	WT	04/16/05	F	CS	GF05040E12101	<	0.2		392	<	6		17.9	<	1	<	0.1
E121	Sandia right fork at Power Plant	WT	04/16/05	UF	CS	GU05040E12101		0.27		18400	<	6		137		1.1		2.1
E121	Sandia right fork at Power Plant	WT	07/15/05	F	CS	GF05070E12101	<	0.2		151	<	6		22.8	<	1	<	0.1
E121	Sandia right fork at Power Plant	WT	07/15/05	UF	CS	GU05070E12101	<	0.2		4730	<	6		362		1.9		1.4
E121	Sandia right fork at Power Plant	WT	07/20/05	F	CS	GF05070E12102	<	0.2		200	<	6		33.9	<	1	<	0.1
E121	Sandia right fork at Power Plant	WT	07/20/05	UF	CS	GU05070E12102		0.31		26000	<	6		204		1.5		0.55
E121	Sandia right fork at Power Plant	WT	08/04/05	F	CS	GF05080E12101	<	0.2		547	<	6		22.9	<	1	<	0.1
E121	Sandia right fork at Power Plant	WT	08/04/05	UF	CS	GU05080E12101	<	0.4		47900		8.6		363		2.8		0.82
E123	Sandia below Wetlands	WT	04/24/05	F	CS	GF05040E12301	<	0.2		115	<	6		50.7	<	1	<	0.1
E123	Sandia below Wetlands	WT	04/24/05	UF	CS	GU05040E12301		3		3550	<	6		155	<	1		0.48
E123	Sandia below Wetlands	WT	05/01/05	F	CS	GF05050E12301	<	0.2		136	<	6.4		26.2	<	1	<	0.1
E123	Sandia below Wetlands	WT	05/01/05	UF	CS	GU05050E12301		1.2		2950	<	6.7		62.2	<	1		0.28
E123	Sandia below Wetlands	WT	05/03/05	F	CS	GF05050E12302	<	0.2		432	<	6		22.9	<	1	<	0.1
E123	Sandia below Wetlands	WT	05/03/05	UF	CS	GU05050E12302		4.5		7420	<	8.3		110	<	1		0.63
E123	Sandia below Wetlands	WT	07/15/05	F	CS	GF05070E12301	<	0.2		871	<	6		33.3	<	1	<	0.1
E123	Sandia below Wetlands	WT	07/15/05	UF	CS	GU05070E12301		19.6		90200		19.5		735		5.3		3.1
E123	Sandia below Wetlands	WT	07/20/05	UF	CS	GU05070E12302												
E124	Sandia above Firing Range	WT	05/03/05	F	CS	GF05050E12401	<	0.2		191	<	6.7		27.5	<	1		0.15
E124	Sandia above Firing Range	WT	05/03/05	UF	CS	GU05050E12401		6.7		32800	<	13.5		290		3.2		1.3
E124	Sandia above Firing Range	WT	07/15/05	F	CS	GF05070E12401	<	0.2		163	<	6		36.7	<	1	<	0.1
E124	Sandia above Firing Range	WT	07/15/05	UF	CS	GU05070E12401		0.29		17900		10.1		1360		12.8		7
E124	Sandia above Firing Range	WT	07/20/05	F	CS	GF05070E12402		0.26		224	<	6		35.7	<	1	<	0.1
E124	Sandia above Firing Range	WT	07/20/05	UF	CS	GU05070E12402		3.5		4960	<	6		157		1.2		0.8
E124	Sandia above Firing Range	WT	08/04/05	F	CS	GF05080E12401	<	0.2		325	<	6		27.8	<	1	<	0.1
E124	Sandia above Firing Range	WT	08/04/05	UF	CS	GU05080E12401		13		66700		16.2		536		4.6		2
E125	Sandia above SR-4	WT	09/29/05	F	CS	GF05090E12501		10.1		88800		20.3		701		8.5		2.7
E125	Sandia above SR-4	WT	09/29/05	UF	CS	GU05090E12501		9.3		91000		17.9		691		8.5		2.8
E200	Mortandad below Effluent Canyon	WT	04/24/05	F	CS	GF05040E20001	<	0.2		752	<	6		13.3	<	1	<	0.1
E200	Mortandad below Effluent Canyon	WT	04/24/05	UF	CS	GU05040E20001		0.3		45200		9.5		248		4.7		0.98
E200	Mortandad below Effluent Canyon	WT	05/03/05	F	CS	GF05050E20001	<	0.2		395	<	6		13.4	<	1	<	0.1
E200	Mortandad below Effluent Canyon	WT	05/03/05	UF	CS	GU05050E20001		0.23		36400		14.4		211		3.7		0.99
E200	Mortandad below Effluent Canyon	WT	07/15/05	F	CS	GF05070E20001	<	0.2		165	<	6		36.8	<	1	<	0.1
E200	Mortandad below Effluent Canyon	WT	07/15/05	UF	CS	GU05070E20001	<	0.2		19500		8.7		895		7.9		2.2
E200	Mortandad below Effluent Canyon	WT	07/20/05	F	CS	GF05070E20002	<	0.2		1290	<	6		29.6	<	1	<	0.1
E200	Mortandad below Effluent Canyon	WT	07/20/05	UF	CS	GU05070E20002		0.26		46400		10.5		348		3.6		1
E201	Mortandad above Ten Site	WT	09/29/05	F	CS	GF05090E20101	<	0.2		1660	<	6		18.8	<	1	<	0.1
E201	Mortandad above Ten Site	WT	09/29/05	UF	CS	GU05090E20101		0.25		30200		8.6		190		2.7		0.62
E201	Mortandad above Ten Site	WT	09/30/05	F	CS	GF05090E20102	<	0.2		2620	<	6		20.4	<	1		0.15
E201	Mortandad above Ten Site	WT	09/30/05	UF	CS	GU05090E20102		0.25		27700		8.5		222		2.9		1.6
E201.3	Ten Site below MDA C	WT	08/12/05	UF	CS	GU0508E201301	<	0.2		14800	<	6		143	<	1		0.87
E201.3	Ten Site below MDA C	WT	08/22/05	F	CS	GF0508E201301	<	0.2		1350	<	6		15.3	<	1	<	0.1
E201.3	Ten Site below MDA C	WT	08/22/05	UF	CS	GU0508E201302												
E201.3	Ten Site below MDA C	WT	08/24/05	F	CS	GF0508E201302	<	0.2		1000		6.9		17.9	<	1	<	0.1
E201.3	Ten Site below MDA C	WT	08/24/05	UF	CS	GU0508E201303		0.28		43100		17.3		461		3.5		1.8
E201.3	Ten Site below MDA C	WT	08/25/05	F	CS	GF0508E201303	<	0.2		728		7.3		24.4	<	1	<	0.1
E201.3	Ten Site below MDA C	WT	08/25/05	UF	CS	GU0508E201304	<	0.2		21800		14.5		182		1.4		0.69
E201.3	Ten Site below MDA C	WT	09/22/05	F	CS	GF0509E201301	<	0.2		769		7.7		26.7	<	1		0.11
E201.3	Ten Site below MDA C	WT	09/22/05	UF	CS	GU0509E201301	<	0.2		13600		8.3		127	<	1		0.6
E201.3	Ten Site below MDA C	WT	10/10/05	UF	CS	GU0510E201301												

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E121	Sandia right fork at Power Plant	WT	04/16/05	F	CS	GF05040E12101	<	1		2.2		7.1		235				47.5	<	2
E121	Sandia right fork at Power Plant	WT	04/16/05	UF	CS	GU05040E12101		4.2		21		36.4		14300		0.073		337		2.1
E121	Sandia right fork at Power Plant	WT	07/15/05	F	CS	GF05070E12101	<	1		3.1		5.6		112				10.3		5
E121	Sandia right fork at Power Plant	WT	07/15/05	UF	CS	GU05070E12101		9.7		27		79.5		4120		0.34		1010	<	2
E121	Sandia right fork at Power Plant	WT	07/20/05	F	CS	GF05070E12102	<	1		3.8		9		209				47.5		4
E121	Sandia right fork at Power Plant	WT	07/20/05	UF	CS	GU05070E12102		6		35.7		36		19400		0.24		452		4.4
E121	Sandia right fork at Power Plant	WT	08/04/05	F	CS	GF05080E12101	<	1		2.5		6		273				26.9		2
E121	Sandia right fork at Power Plant	WT	08/04/05	UF	CS	GU05080E12101		10.7		53.7		56.1		45400		0.22		1000		3.3
E123	Sandia below Wetlands	WT	04/24/05	F	CS	GF05040E12301	<	1		4.8		5.6		265				7.6		7.9
E123	Sandia below Wetlands	WT	04/24/05	UF	CS	GU05040E12301		1.6		50.1		23.3		4390	<	0.05		578		6.5
E123	Sandia below Wetlands	WT	05/01/05	F	CS	GF05050E12301		2.6		4.8	<	5.6		228				23.3		5.2
E123	Sandia below Wetlands	WT	05/01/05	UF	CS	GU05050E12301	<	1		36.5		16.8		2540	<	0.15		156		4.7
E123	Sandia below Wetlands	WT	05/03/05	F	CS	GF05050E12302	<	1		3.4	<	5		333				28.8		2.8
E123	Sandia below Wetlands	WT	05/03/05	UF	CS	GU05050E12302		1.5		108		25.6		5980				357		5.9
E123	Sandia below Wetlands	WT	07/15/05	F	CS	GF05070E12301		2.6		3.9		5.4		546				8.9		14
E123	Sandia below Wetlands	WT	07/15/05	UF	CS	GU05070E12301		21.9		506		159		81300		0.93		1910		25.9
E123	Sandia below Wetlands	WT	07/20/05	UF	CS	GU05070E12302										0.32				
E124	Sandia above Firing Range	WT	05/03/05	F	CS	GF05050E12401	<	1		6.1	<	4.9		257				3.4		8.8
E124	Sandia above Firing Range	WT	05/03/05	UF	CS	GU05050E12401		6.7		192		48.9		22600	<	0.39		1270		9.4
E124	Sandia above Firing Range	WT	07/15/05	F	CS	GF05070E12401	<	1		5.2		3.2		299				905		26.8
E124	Sandia above Firing Range	WT	07/15/05	UF	CS	GU05070E12401		31.2		233		220		22300		3		7350		3.5
E124	Sandia above Firing Range	WT	07/20/05	F	CS	GF05070E12402	<	1		8.5		6.4		260				10.5		26.3
E124	Sandia above Firing Range	WT	07/20/05	UF	CS	GU05070E12402		2.4		36.8		21.5		3600		0.24		575		16.8
E124	Sandia above Firing Range	WT	08/04/05	F	CS	GF05080E12401	<	1		7.4		8.5		270				7.7		15.5
E124	Sandia above Firing Range	WT	08/04/05	UF	CS	GU05080E12401		13		423		91.3		59400		0.86		2410		19.9
E125	Sandia above SR-4	WT	09/29/05	F	CS	GF05090E12501		19.9		272		82.4		53600				3000		11.5
E125	Sandia above SR-4	WT	09/29/05	UF	CS	GU05090E12501		19.7		270		80.8		56400				2970		12
E200	Mortandad below Effluent Canyon	WT	04/24/05	F	CS	GF05040E20001	<	1	<	1	<	3		386				15		6.6
E200	Mortandad below Effluent Canyon	WT	04/24/05	UF	CS	GU05040E20001		6.3		25.5		37.9		40500	<	0.05		1180		9.1
E200	Mortandad below Effluent Canyon	WT	05/03/05	F	CS	GF05050E20001	<	1	<	1	<	3		204				16.5		4.4
E200	Mortandad below Effluent Canyon	WT	05/03/05	UF	CS	GU05050E20001		6.6		22.3		31.3		33900		0.078		1010		6
E200	Mortandad below Effluent Canyon	WT	07/15/05	F	CS	GF05070E20001	<	1		1.6		3.9		122				100		6.8
E200	Mortandad below Effluent Canyon	WT	07/15/05	UF	CS	GU05070E20001		21.5		23.8		133		15600		0.21		3680	<	2
E200	Mortandad below Effluent Canyon	WT	07/20/05	F	CS	GF05070E20002	<	1		3.5		8.9		676				95.2		7.8
E200	Mortandad below Effluent Canyon	WT	07/20/05	UF	CS	GU05070E20002		10		36.5		59.9		41500		0.092		1260		9.2
E201	Mortandad above Ten Site	WT	09/29/05	F	CS	GF05090E20101		1.3		2.8		5.6		906				10.5		15.3
E201	Mortandad above Ten Site	WT	09/29/05	UF	CS	GU05090E20101		5.3		24.2		33.5		17600		0.19		890		15.7
E201	Mortandad above Ten Site	WT	09/30/05	F	CS	GF05090E20102		1.1		3.8		6.9		1430				14.4		14.1
E201	Mortandad above Ten Site	WT	09/30/05	UF	CS	GU05090E20102		6.2		22.6		38.9		16200		0.21		1110		14.6
E201.3	Ten Site below MDA C	WT	08/12/05	UF	CS	GU0508E201301		3.4		10.4		16.9		10100	<	0.05		317	<	2
E201.3	Ten Site below MDA C	WT	08/22/05	F	CS	GF0508E201301		1.6		1.3		3.3		645				11.3	<	2
E201.3	Ten Site below MDA C	WT	08/22/05	UF	CS	GU0508E201302										0.1				
E201.3	Ten Site below MDA C	WT	08/24/05	F	CS	GF0508E201302		1.8		3.6		5.2		502				7.4	<	2
E201.3	Ten Site below MDA C	WT	08/24/05	UF	CS	GU0508E201303		13.6		32.5		64.5		30800				1200		2.6
E201.3	Ten Site below MDA C	WT	08/25/05	F	CS	GF0508E201303	<	1	<	3.7		6.6		388				6.2		2.1
E201.3	Ten Site below MDA C	WT	08/25/05	UF	CS	GU0508E201304		5.2		21.5		33.5		15000		0.088		418		2.8
E201.3	Ten Site below MDA C	WT	09/22/05	F	CS	GF0509E201301		4.7		3.7		15.2		417				29	<	2
E201.3	Ten Site below MDA C	WT	09/22/05	UF	CS	GU0509E201301		2.8		12.3		33.6		9240				250	<	2
E201.3	Ten Site below MDA C	WT	10/10/05	UF	CS	GU0510E201301									<	0.05				

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E121	Sandia right fork at Power Plant	WT	04/16/05	F	CS	GF05040E12101		0.98		0.59		1.4	<	3.7	<	0.4		1.9		23.5
E121	Sandia right fork at Power Plant	WT	04/16/05	UF	CS	GU05040E12101		8.1		30		2	<	3.3	<	0.4		21.6		226
E121	Sandia right fork at Power Plant	WT	07/15/05	F	CS	GF05070E12101		0.89		0.57		0.79	<	2.5	<	0.4		2.6		19.5
E121	Sandia right fork at Power Plant	WT	07/15/05	UF	CS	GU05070E12101		12.7		90.5	<	0.76	<	2.5	<	0.4		21.4		784
E121	Sandia right fork at Power Plant	WT	07/20/05	F	CS	GF05070E12102		1.4	<	0.5	<	2.2	<	2.5	<	0.4		7.3		23.4
E121	Sandia right fork at Power Plant	WT	07/20/05	UF	CS	GU05070E12102		11.3		28	<	2	<	2.5	<	0.4		32.7		216
E121	Sandia right fork at Power Plant	WT	08/04/05	F	CS	GF05080E12101		1.1	<	0.5		4	<	2.5	<	0.4		4.8		5.1
E121	Sandia right fork at Power Plant	WT	08/04/05	UF	CS	GU05080E12101		18		50.7		2.1	<	2.5		0.53		54.4		358
E123	Sandia below Wetlands	WT	04/24/05	F	CS	GF05040E12301		4.3	<	0.5	<	0.5	<	2.5	<	0.4		11.3		108
E123	Sandia below Wetlands	WT	04/24/05	UF	CS	GU05040E12301		8.2		20.9		0.59	<	2.5	<	0.4		18.9		244
E123	Sandia below Wetlands	WT	05/01/05	F	CS	GF05050E12301		2.3		0.55	<	0.5	<	2.5	<	0.4		7.9		42.5
E123	Sandia below Wetlands	WT	05/01/05	UF	CS	GU05050E12301		3.6		7.6	<	0.97	<	2.5	<	0.4		11		105
E123	Sandia below Wetlands	WT	05/03/05	F	CS	GF05050E12302		2.1		0.52	<	0.68	<	2.5	<	0.4		8.2		38.8
E123	Sandia below Wetlands	WT	05/03/05	UF	CS	GU05050E12302		6		14.7	<	0.83		2.8	<	0.4		17.9		196
E123	Sandia below Wetlands	WT	07/15/05	F	CS	GF05070E12301		2		0.76	<	0.69	<	2.5	<	0.4		4.6		22.7
E123	Sandia below Wetlands	WT	07/15/05	UF	CS	GU05070E12301		40.2		128	<	1.4	<	2.5		0.86		115		880
E123	Sandia below Wetlands	WT	07/20/05	UF	CS	GU05070E12302														
E124	Sandia above Firing Range	WT	05/03/05	F	CS	GF05050E12401		1.9		0.61	<	0.5	<	2.5	<	0.4		9.5		35.3
E124	Sandia above Firing Range	WT	05/03/05	UF	CS	GU05050E12401		15.7		49.6	<	0.89	<	2.5		0.55		45.6		414
E124	Sandia above Firing Range	WT	07/15/05	F	CS	GF05070E12401		3.2		0.66		0.69	<	2.5	<	0.4		6.8	<	17.6
E124	Sandia above Firing Range	WT	07/15/05	UF	CS	GU05070E12401		52.3		200	<	0.5	<	2.5	<	0.4		95.9		2170
E124	Sandia above Firing Range	WT	07/20/05	F	CS	GF05070E12402		2.7		1.1		0.64	<	2.5	<	0.4		16.2		38
E124	Sandia above Firing Range	WT	07/20/05	UF	CS	GU05070E12402		12.1		26		0.73	<	2.5	<	0.4		22.6		181
E124	Sandia above Firing Range	WT	08/04/05	F	CS	GF05080E12401		2.4		0.68		1	<	2.5	<	0.4		13.9		30.5
E124	Sandia above Firing Range	WT	08/04/05	UF	CS	GU05080E12401		28.2		79.7		3	<	2.5		0.81		84.8		712
E125	Sandia above SR-4	WT	09/29/05	F	CS	GF05090E12501		38.2		168	<	0.82	<	2.5		1.2		90.9		572
E125	Sandia above SR-4	WT	09/29/05	UF	CS	GU05090E12501		37		163	<	0.92	<	2.5		1.1		94.3		575
E200	Mortandad below Effluent Canyon	WT	04/24/05	F	CS	GF05040E20001		0.54	<	0.5		2.9	<	2.5	<	0.4		1		8.5
E200	Mortandad below Effluent Canyon	WT	04/24/05	UF	CS	GU05040E20001		17.5		51.1		1.8	<	2.5		0.49		39.7		361
E200	Mortandad below Effluent Canyon	WT	05/03/05	F	CS	GF05050E20001		1	<	0.5		2.2	<	2.5	<	0.4		1.4		14.2
E200	Mortandad below Effluent Canyon	WT	05/03/05	UF	CS	GU05050E20001		15.1		48		3.4	<	2.5		0.41		32.5		323
E200	Mortandad below Effluent Canyon	WT	07/15/05	F	CS	GF05070E20001		1.5	<	0.5		1.7	<	2.5	<	0.4		1.1	<	13.7
E200	Mortandad below Effluent Canyon	WT	07/15/05	UF	CS	GU05070E20001		31.1		122	<	0.63	<	2.5	<	0.4		52.3		510
E200	Mortandad below Effluent Canyon	WT	07/20/05	F	CS	GF05070E20002		2.6		0.76	<	2.4	<	2.5	<	0.4		3.4		30.7
E200	Mortandad below Effluent Canyon	WT	07/20/05	UF	CS	GU05070E20002		20.4		57.3	<	1.2	<	2.5		0.5		52.5		390
E201	Mortandad above Ten Site	WT	09/29/05	F	CS	GF05090E20101		3		0.82	<	0.77	<	2.5	<	0.4		2.5		7.5
E201	Mortandad above Ten Site	WT	09/29/05	UF	CS	GU05090E20101		13.2		33.6	<	0.77	<	2.5		0.5		26.9		143
E201	Mortandad above Ten Site	WT	09/30/05	F	CS	GF05090E20102		3.5		1.3	<	0.65	<	2.5	<	0.4		3		12
E201	Mortandad above Ten Site	WT	09/30/05	UF	CS	GU05090E20102		15.5		38.8	<	0.77	<	2.5		0.54		27.2		151
E201.3	Ten Site below MDA C	WT	08/12/05	UF	CS	GU0508E201301		7.5		19.9	<	0.55	<	2.5	<	0.4		17.4		213
E201.3	Ten Site below MDA C	WT	08/22/05	F	CS	GF0508E201301		1		0.68	<	0.5	<	2.5	<	0.4		2.4	<	11.6
E201.3	Ten Site below MDA C	WT	08/22/05	UF	CS	GU0508E201302														
E201.3	Ten Site below MDA C	WT	08/24/05	F	CS	GF0508E201302		1.4		0.51	<	0.74	<	2.5	<	0.4		2.1		22.3
E201.3	Ten Site below MDA C	WT	08/24/05	UF	CS	GU0508E201303		24.4		61.2		0.63	<	2.5		0.65		51.1		721
E201.3	Ten Site below MDA C	WT	08/25/05	F	CS	GF0508E201303		1	<	0.5		1	<	2.5	<	0.4		3.5	<	18
E201.3	Ten Site below MDA C	WT	08/25/05	UF	CS	GU0508E201304		10.2		25.2		1.2	<	2.5	<	0.4		26.3		332
E201.3	Ten Site below MDA C	WT	09/22/05	F	CS	GF0509E201301		2.8		0.63		0.65	<	2.5	<	0.57		3.1		64.4
E201.3	Ten Site below MDA C	WT	09/22/05	UF	CS	GU0509E201301		7.1		16.4		0.77	<	2.5	<	0.4		16		306
E201.3	Ten Site below MDA C	WT	10/10/05	UF	CS	GU0510E201301														

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E201.5	Ten Site above Mortandad	WT	08/24/05	F	CS	GF0508E201501	<	0.2		1070	<	6		18.3	<	1	<	0.1
E201.5	Ten Site above Mortandad	WT	08/24/05	UF	CS	GU0508E201501		4.6		73100		17.2		700		6.7		2.2
E201.5	Ten Site above Mortandad	WT	08/25/05	F	CS	GF0508E201502		0.46		2940	<	6		34.2	<	1	<	0.1
E201.5	Ten Site above Mortandad	WT	08/25/05	UF	CS	GU0508E201502		8.1		64700		17.5		554	<	5	<	1.8
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201501	<	0.2		2540	<	6		21.5	<	1	<	0.1
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201502		0.36		3320	<	6		28	<	1	<	0.1
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201501		2.2		23900		8.2		169		1.6		0.49
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201502		1.2		10600	<	6		71.9	<	1		0.38
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20201	<	0.2		2080	<	6		17.7	<	1	<	0.1
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20202	<	0.2		3260	<	6		21.8	<	1	<	0.1
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20201	<	0.2		16700	<	6		81.3		1.1		0.33
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20202		0.27		27500		7.7		203		2.6		0.74
E218	Canada del Buey near TA-46	WT	07/15/05	F	CS	GF05070E21801	<	0.2	<	68	<	6		63.7	<	1	<	0.1
E218	Canada del Buey near TA-46	WT	07/15/05	UF	CS	GU05070E21801	<	0.2		3440	<	6		79.4	<	1		1.4
E218	Canada del Buey near TA-46	WT	07/20/05	F	CS	GF05070E21802	<	0.2	<	68	<	6		31	<	1	<	0.1
E218	Canada del Buey near TA-46	WT	07/20/05	UF	CS	GU05070E21802	<	0.2		825	<	6		40.4	<	1		0.16
E218	Canada del Buey near TA-46	WT	08/24/05	UF	CS	GU05080E21801												
E227	MDA G-13	WT	07/17/05	F	CS	GF05070E22701	<	0.2		237	<	6		39.4	<	1	<	0.1
E227	MDA G-13	WT	07/17/05	UF	CS	GU05070E22701		1		8920	<	6		312		2		1.6
E227	MDA G-13	WT	08/12/05	F	CS	GF05080E22701	<	0.2	<	68	<	6		15.8	<	1	<	0.1
E227	MDA G-13	WT	08/12/05	UF	CS	GU05080E22701		0.21		15800	<	6		125		1.1		0.39
E227	MDA G-13	WT	08/13/05	F	CS	GF05080E22702	<	0.2		432	<	6		22.5	<	1	<	0.1
E227	MDA G-13	WT	08/13/05	UF	CS	GU05080E22702		1.1		54200		13.5		473		4.4		1.8
E227	MDA G-13	WT	10/09/05	F	CS	GF05100E22702	<	0.2		1020	<	6		16.7	<	1	<	0.1
E227	MDA G-13	WT	10/09/05	UF	CS	GU05100E22702		0.38		74200		19.1		733		6.6		0.61
E230	Canada del Buey above SR-4	WT	09/28/05	F	CS	GF05090E23001	<	0.2		1350	<	6		47.1	<	1	<	0.1
E230	Canada del Buey above SR-4	WT	09/28/05	UF	CS	GU05090E23001		1		314000		49.6		2870		23		4.6
E240	Pajarito below SR-501	WM	03/23/05	UF	CS	GU05030M24001	<	0.2		1600	<	1.67		40.1		0.18	<	0.1
E240	Pajarito below SR-501	WT	08/11/05	F	CS	GF05080E24001	<	0.2		1700	<	6		19.9	<	1		0.26
E240	Pajarito below SR-501	WT	08/11/05	UF	CS	GU05080E24001	<	0.2		37600	<	6		1380		7.5		2.3
E240	Pajarito below SR-501	WT	08/12/05	F	CS	GF05080E24002	<	0.2		11500	<	6		51.1	<	1		0.13
E240	Pajarito below SR-501	WT	08/12/05	UF	CS	GU05080E24002	<	0.2		40300	<	6		210		2		0.43
E241	Pajarito above Starmers	WM	03/24/05	UF	CS	GU05030M24101	<	0.2		2930		2.3		58.3		0.25	<	0.1
E241	Pajarito above Starmers	WT	07/15/05	F	CS	GF05070E24101	<	0.2		470	<	6		41.6	<	1	<	0.1
E241	Pajarito above Starmers	WT	07/15/05	UF	CS	GU05070E24101	<	0.2		29800		6.8		674		3.7		1.4
E241	Pajarito above Starmers	WT	08/04/05	F	CS	GF05080E24101	<	0.24	<	68	<	6		23	<	1	<	0.1
E241	Pajarito above Starmers	WT	08/04/05	UF	CS	GU05080E24101	<	0.74		92700		17.1		1810		9.6		3.5
E241	Pajarito above Starmers	WT	08/06/05	F	CS	GF05080E24102	<	0.2		457	<	6		25.1	<	1	<	0.1
E241	Pajarito above Starmers	WT	08/06/05	UF	CS	GU05080E24102	<	0.2		17700	<	6		702		3.1		1
E241	Pajarito above Starmers	WT	08/22/05	F	CS	GF05080E24103	<	0.2		692	<	6		33.2	<	1	<	0.1
E241	Pajarito above Starmers	WT	08/22/05	UF	CS	GU05080E24103	<	0.2		19100	<	6		834		4.3		0.5
E242	Starmers above Pajarito	WM	03/24/05	UF	CS	GU05030M24201		0.69		5480		3		64.7		0.39	<	0.1
E242	Starmers above Pajarito	WT	07/15/05	F	CS	GF05070E24201		0.31		267	<	6		42.4	<	1	<	0.1
E242	Starmers above Pajarito	WT	07/15/05	UF	CS	GU05070E24201		121		58600		13.7		1480		6.7		3.6

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E201.5	Ten Site above Mortandad	WT	08/24/05	F	CS	GF0508E201501		2.4	<	1.3		3.1		561				10.3		3.8
E201.5	Ten Site above Mortandad	WT	08/24/05	UF	CS	GU0508E201501		19.2		43.8		84.3		52100		0.35		2670		6.6
E201.5	Ten Site above Mortandad	WT	08/25/05	F	CS	GF0508E201502	<	1.8	<	2	<	6.5		1550			<	19.5	<	4.2
E201.5	Ten Site above Mortandad	WT	08/25/05	UF	CS	GU0508E201502		17		42.8		83.9		51400		0.34		2070	<	11.5
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201501		6.3		3.4		6		1240				20.8		3.3
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201502		3.7		2.8		6.4		1610				19.4		8.1
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201501		4.7		14.3		23.1		13900		0.16		479		4.7
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201502		1.8		6.3		12.5		5840	<	0.05		139		8.1
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20201		2.8		3		4.5		1060				16.3		12.1
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20202		3		3.5		6		1660				22.9		13.8
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20201		1.8		12.8		13.8		8920		0.42		205		12.9
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20202		5.4		23.5		31.7		16600		0.19		895		13.3
E218	Canada del Buey near TA-46	WT	07/15/05	F	CS	GF05070E21801		1.1		2.8	<	3		35.7				8		12.1
E218	Canada del Buey near TA-46	WT	07/15/05	UF	CS	GU05070E21801	<	1		4.7	<	5.9		1960				126		13.8
E218	Canada del Buey near TA-46	WT	07/20/05	F	CS	GF05070E21802	<	1		5.1	<	3	<	18			<	2	<	2
E218	Canada del Buey near TA-46	WT	07/20/05	UF	CS	GU05070E21802	<	1		5.5	<	3		496	<	0.05		35.1	<	2
E218	Canada del Buey near TA-46	WT	08/24/05	UF	CS	GU05080E21801										0.22				
E227	MDA G-13	WT	07/17/05	F	CS	GF05070E22701		1.2	<	1		5.5		153				20.5	<	2
E227	MDA G-13	WT	07/17/05	UF	CS	GU05070E22701		6.7		7.4		33.7		5050		0.057		773	<	2
E227	MDA G-13	WT	08/12/05	F	CS	GF05080E22701	<	1	<	1		3	<	48.7				7.9	<	2
E227	MDA G-13	WT	08/12/05	UF	CS	GU05080E22701		3.2		8.8		12.6		9470	<	0.05		335	<	2
E227	MDA G-13	WT	08/13/05	F	CS	GF05080E22702		2.3	<	1	<	3		222				11.2	<	2
E227	MDA G-13	WT	08/13/05	UF	CS	GU05080E22702		14.4		35.8		44.5		41300				1600	<	2
E227	MDA G-13	WT	10/09/05	F	CS	GF05100E22702		5.2		1.3	<	3		550				21.5	<	2
E227	MDA G-13	WT	10/09/05	UF	CS	GU05100E22702		23.4		48.2		59.2		57700		0.11		2390		4.1
E230	Canada del Buey above SR-4	WT	09/28/05	F	CS	GF05090E23001		6.8		1.7		4.6		640				37.2	<	2
E230	Canada del Buey above SR-4	WT	09/28/05	UF	CS	GU05090E23001		88		176		182		229000		0.24		5700		3.2
E240	Pajarito below SR-501	WM	03/23/05	UF	CS	GU05030M24001	<	0.762	<	1.43	<	1.8		678	<	0.0472		7.3	<	0.948
E240	Pajarito below SR-501	WT	08/11/05	F	CS	GF05080E24001		3.2		1.8		3.9		962				22.2	<	2
E240	Pajarito below SR-501	WT	08/11/05	UF	CS	GU05080E24001		38.8		23		38		21800		0.19		2920	<	2
E240	Pajarito below SR-501	WT	08/12/05	F	CS	GF05080E24002		5.7		5.2		5.6		5740				38.1	<	2
E240	Pajarito below SR-501	WT	08/12/05	UF	CS	GU05080E24002		5.4		21.1		18.1		24800				317	<	2
E241	Pajarito above Starmers	WM	03/24/05	UF	CS	GU05030M24101	<	0.762		2.1	<	1.8		1410	<	0.0472		23.4	<	0.948
E241	Pajarito above Starmers	WT	07/15/05	F	CS	GF05070E24101		1.4	<	1	<	3		375				250	<	2
E241	Pajarito above Starmers	WT	07/15/05	UF	CS	GU05070E24101		17.3		16.8	<	19.8		20800		0.2		2020		2.3
E241	Pajarito above Starmers	WT	08/04/05	F	CS	GF05080E24101	<	1	<	1	<	3		48.3				73	<	2
E241	Pajarito above Starmers	WT	08/04/05	UF	CS	GU05080E24101		47.8		56.1		57.6		72700		0.22		5550	<	2
E241	Pajarito above Starmers	WT	08/06/05	F	CS	GF05080E24102	<	1	<	1	<	3		251				11.2	<	2
E241	Pajarito above Starmers	WT	08/06/05	UF	CS	GU05080E24102		16.5		10.2		21.3		11200		0.11		2640	<	2
E241	Pajarito above Starmers	WT	08/22/05	F	CS	GF05080E24103	<	1	<	1	<	3		403				4	<	2
E241	Pajarito above Starmers	WT	08/22/05	UF	CS	GU05080E24103		18.2		11.6		22.6		11200		0.11		1540	<	2
E242	Starmers above Pajarito	WM	03/24/05	UF	CS	GU05030M24201	<	0.762		3.3	<	1.8		2600	<	0.0472		17.5	<	0.948
E242	Starmers above Pajarito	WT	07/15/05	F	CS	GF05070E24201		1.9	<	1	<	3		294				288	<	2
E242	Starmers above Pajarito	WT	07/15/05	UF	CS	GU05070E24201		43		37.4		53.4		43200		0.13		4160		2.4

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E201.5	Ten Site above Mortandad	WT	08/24/05	F	CS	GF0508E201501		1.6		0.56	<	0.5	<	2.5		0.5		2.9	<	10
E201.5	Ten Site above Mortandad	WT	08/24/05	UF	CS	GU0508E201501		35.6		128		0.6	<	2.5		0.87		83.4		323
E201.5	Ten Site above Mortandad	WT	08/25/05	F	CS	GF0508E201502		2.6		1.4	<	0.5	<	2.5	<	0.4	<	4.4		18.6
E201.5	Ten Site above Mortandad	WT	08/25/05	UF	CS	GU0508E201502		30.8		89.4		0.72	<	2.5		0.73		78.5		311
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201501		2.4		1.1	<	0.5	<	2.5	<	0.4		3.4		11.2
E201.5	Ten Site above Mortandad	WT	09/29/05	F	CS	GF0509E201502		2.5		1.6	<	0.5	<	2.5	<	0.4		4.9		6.4
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201501		9.4		24.5	<	0.61	<	2.5	<	0.4		24.3		90.1
E201.5	Ten Site above Mortandad	WT	09/29/05	UF	CS	GU0509E201502		4.7		9.5	<	0.5	<	2.5	<	0.4		11.3		32.2
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20201		2.7		0.92	<	0.78	<	2.5	<	0.4		2.9		7.2
E202	Mortandad above Sediment Traps	WT	09/29/05	F	CS	GF05090E20202		2.8		1.5	<	0.67	<	2.5	<	0.4		3.6		11.2
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20201		5.6		10.8	<	0.74	<	2.5	<	0.4		13.8		137
E202	Mortandad above Sediment Traps	WT	09/29/05	UF	CS	GU05090E20202		17		37.7	<	0.69	<	2.5	<	0.6		25.7		126
E218	Canada del Buey near TA-46	WT	07/15/05	F	CS	GF05070E21801		1.1	<	0.5	<	0.5	<	2.5	<	0.4		8		45.2
E218	Canada del Buey near TA-46	WT	07/15/05	UF	CS	GU05070E21801		3		6.9	<	0.5	<	2.5	<	0.4		15		123
E218	Canada del Buey near TA-46	WT	07/20/05	F	CS	GF05070E21802	<	0.5	<	0.5	<	0.5	<	2.5	<	0.4		10.1	<	3.1
E218	Canada del Buey near TA-46	WT	07/20/05	UF	CS	GU05070E21802		0.9		2	<	0.5	<	2.5	<	0.4		11		18
E218	Canada del Buey near TA-46	WT	08/24/05	UF	CS	GU05080E21801														
E227	MDA G-13	WT	07/17/05	F	CS	GF05070E22701		1.4	<	0.5		1.8	<	2.5	<	0.4		8.1	<	6.2
E227	MDA G-13	WT	07/17/05	UF	CS	GU05070E22701		36.6		49.8	<	1.1		2.5		0.87		27.1		185
E227	MDA G-13	WT	08/12/05	F	CS	GF05080E22701	<	0.5	<	0.5		4.3	<	2.5	<	0.4		2.7	<	4.1
E227	MDA G-13	WT	08/12/05	UF	CS	GU05080E22701		8.2		12.1		3.9	<	2.5	<	0.4		19.4		79.6
E227	MDA G-13	WT	08/13/05	F	CS	GF05080E22702		1.3	<	0.5	<	1.8	<	2.5	<	0.4		3.6	<	6.5
E227	MDA G-13	WT	08/13/05	UF	CS	GU05080E22702		25.7		47.1	<	1.2	<	2.5		0.54		71.8		323
E227	MDA G-13	WT	10/09/05	F	CS	GF05100E22702		2.4		0.67		2.2	<	2.5	<	0.4		3.4		2.9
E227	MDA G-13	WT	10/09/05	UF	CS	GU05100E22702		12.2		18.6		1.8	<	2.5	<	0.4		105		536
E230	Canada del Buey above SR-4	WT	09/28/05	F	CS	GF05090E23001		2.5		0.6	<	0.5	<	2.5	<	0.4		7.6	<	2
E230	Canada del Buey above SR-4	WT	09/28/05	UF	CS	GU05090E23001		151		214	<	0.5	<	2.5		3.6		321		726
E240	Pajarito below SR-501	WM	03/23/05	UF	CS	GU05030M24001		0.68		0.55	<	0.5	<	2.5	<	0.4		0.96		7.5
E240	Pajarito below SR-501	WT	08/11/05	F	CS	GF05080E24001		2.1		0.68	<	0.69	<	2.5	<	0.4		2.9	<	9.3
E240	Pajarito below SR-501	WT	08/11/05	UF	CS	GU05080E24001		29.9		97.2	<	0.85	<	2.5	<	0.4		77.6		176
E240	Pajarito below SR-501	WT	08/12/05	F	CS	GF05080E24002		4.6		3.8	<	0.5	<	2.5	<	0.4		8.8		30.9
E240	Pajarito below SR-501	WT	08/12/05	UF	CS	GU05080E24002		12.5		21.1	<	0.5	<	2.5		0.42		35.6		95.6
E241	Pajarito above Starmers	WM	03/24/05	UF	CS	GU05030M24101		0.55		0.83	<	0.5		3	<	0.4		1.8		4.3
E241	Pajarito above Starmers	WT	07/15/05	F	CS	GF05070E24101		1.5	<	0.5		0.99	<	2.5	<	0.4		2.3	<	11.5
E241	Pajarito above Starmers	WT	07/15/05	UF	CS	GU05070E24101		24.8		55.3		0.59	<	2.5		0.69		44.8		198
E241	Pajarito above Starmers	WT	08/04/05	F	CS	GF05080E24101		0.8	<	0.5	<	0.5	<	2.5	<	0.4		2.2		2.7
E241	Pajarito above Starmers	WT	08/04/05	UF	CS	GU05080E24101		88.4		171		2.2	<	2.5		2.6		134		492
E241	Pajarito above Starmers	WT	08/06/05	F	CS	GF05080E24102		0.81	<	0.5	<	0.5	<	2.5	<	0.4		1.7	<	5.1
E241	Pajarito above Starmers	WT	08/06/05	UF	CS	GU05080E24102		15.7		54.5	<	0.5	<	2.5	<	0.4		33.3		116
E241	Pajarito above Starmers	WT	08/22/05	F	CS	GF05080E24103		0.85	<	0.5	<	0.5	<	2.5		0.43		1.9	<	9.6
E241	Pajarito above Starmers	WT	08/22/05	UF	CS	GU05080E24103		12.7		32.5	<	0.5	<	2.5	<	0.4		39.9		154
E242	Starmers above Pajarito	WM	03/24/05	UF	CS	GU05030M24201		1.6		1.6	<	0.5	<	2.5	<	0.4		4.1		7.3
E242	Starmers above Pajarito	WT	07/15/05	F	CS	GF05070E24201		1.4	<	0.5		0.81	<	2.5	<	0.4		2.5	<	11.3
E242	Starmers above Pajarito	WT	07/15/05	UF	CS	GU05070E24201		37.4		86.1		1.1	<	2.5		0.69		110		443

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E242.5	La Delfe above Pajarito	WM	03/24/05	UF	CS	GU0503M242501		0.33		6680		3.1		78.5		0.42		0.11
E242.5	La Delfe above Pajarito	WT	07/15/05	F	CS	GF0507E242501	<	0.2		478	<	6		57.5	<	1	<	0.1
E242.5	La Delfe above Pajarito	WT	07/15/05	UF	CS	GU0507E242501		4.5		21400	<	6		601		3.4		5.8
E242.5	La Delfe above Pajarito	WT	08/04/05	F	CS	GF0508E242501	<	0.2		304	<	6		35	<	1	<	0.1
E242.5	La Delfe above Pajarito	WT	08/04/05	UF	CS	GU0508E242501	<	1.7		25400	<	6		328		1.5		1.9
E242.5	La Delfe above Pajarito	WT	08/06/05	F	CS	GF0508E242502	<	0.2		1120	<	6		33.2	<	1	<	0.1
E242.5	La Delfe above Pajarito	WT	08/06/05	UF	CS	GU0508E242502		0.25		6770	<	6		59.1	<	1		0.19
E242.5	La Delfe above Pajarito	WT	08/12/05	F	CS	GF0508E242503	<	0.2		853	<	6		27.4	<	1	<	0.1
E242.5	La Delfe above Pajarito	WT	08/12/05	UF	CS	GU0508E242503		5.2		51700		12.5		487		3.1		4
E243	Pajarito above Twomile	WM	03/22/05	UF	CS	GU05030M24301		0.6		7400	<	1.67		82.2	<	0.64		0.14
E243	Pajarito above Twomile	WT	07/15/05	F	CS	GF05070E24301	<	0.2		728	<	6		57.1	<	1	<	0.1
E243	Pajarito above Twomile	WT	07/15/05	UF	CS	GU05070E24301	<	0.2		12800	<	6		2040		9.3		11
E243	Pajarito above Twomile	WT	08/12/05	F	CS	GF05080E24301	<	0.2		1160	<	6		31.6	<	1	<	0.1
E243	Pajarito above Twomile	WT	08/12/05	UF	CS	GU05080E24301												
E243	Pajarito above Twomile	WT	08/24/05	F	CS	GF05080E24302		0.4		3580	<	6		42.5	<	1	<	0.17
E243	Pajarito above Twomile	WT	08/24/05	UF	CS	GU05080E24302		74.3		350000		67.1		4900		26.3		28.9
E243.5	Twomile tributary at TA-3	WT	04/16/05	F	CS	GF0504E243501		0.21	<	68	<	6		190	<	1		1.1
E243.5	Twomile tributary at TA-3	WT	04/16/05	UF	CS	GU0504E243501	<	0.2		1310	<	6		35.4	<	1		0.23
E243.5	Twomile tributary at TA-3	WT	04/24/05	F	CS	GF0504E243502	<	0.2		86.8	<	6		23.4	<	1		0.5
E243.5	Twomile tributary at TA-3	WT	04/24/05	UF	CS	GU0504E243502	<	0.2		903		7.2		30.3	<	1		0.54
E243.5	Twomile tributary at TA-3	WT	05/03/05	UF	CS	GU0505E243501												
E243.5	Twomile tributary at TA-3	WT	05/27/05	F	CS	GF0505E243501	<	0.2		104		8		27.2	<	1		0.54
E243.5	Twomile tributary at TA-3	WT	05/27/05	UF	CS	GU0505E243502	<	0.2		4860		10.5		82.9	<	1		1.3
E243.5	Twomile tributary at TA-3	WT	06/11/05	F	CS	GF0506E243501	<	0.2		145	<	6		32	<	1		0.64
E243.5	Twomile tributary at TA-3	WT	06/11/05	UF	CS	GU0506E243501	<	0.2		849	<	6		40.1	<	1		0.84
E244	Twomile above Pajarito	WM	03/22/05	UF	CS	GU05030M24401	<	0.23		1900	<	1.67		70.6	<	0.21	<	0.07
E244	Twomile above Pajarito	WT	07/15/05	F	CS	GF05070E24401	<	0.2		282	<	6		43.3	<	1	<	0.1
E244	Twomile above Pajarito	WT	07/15/05	UF	CS	GU05070E24401	<	0.2		24400		8.8		2240		14.5		7.4
E244	Twomile above Pajarito	WT	08/22/05	F	CS	GF05080E24401	<	0.2		1300	<	6		18.2	<	1	<	0.1
E244	Twomile above Pajarito	WT	08/22/05	UF	CS	GU05080E24401		1.3		129000		31.9		1250		10.2		3.9
E244	Twomile above Pajarito	WT	08/24/05	F	CS	GF05080E24402	<	0.2		2890	<	6		26.1	<	1	<	0.1
E244	Twomile above Pajarito	WT	08/24/05	UF	CS	GU05080E24402		5.1		364000		96.1		4380		34.8		13
E244	Twomile above Pajarito	WT	09/28/05	UF	CS	GU05100E24401		0.55		39400		12.1		324		2.6		1.1
E245	Pajarito above TA-18	WM	03/21/05	UF	CS	GU05030M24501		0.48		6670	<	1.67		78.5	<	0.27	<	0.1
E245	Pajarito above TA-18	WT	07/15/05	F	CS	GF05070E24501	<	0.2		623	<	6		61.6	<	1	<	0.1
E245	Pajarito above TA-18	WT	07/15/05	UF	CS	GU05070E24501		8		70600		14		686		4.6		2.5
E245	Pajarito above TA-18	WT	08/04/05	F	CS	GF05080E24501	<	0.2	<	68	<	6		38.9	<	1	<	0.1
E245	Pajarito above TA-18	WT	08/04/05	UF	CS	GU05080E24501		2.6		40600		9.4		345		2.5		1.2
E245	Pajarito above TA-18	WT	08/12/05	F	CS	GF05080E24502	<	0.2		1430	<	6		29.3	<	1	<	0.1
E245	Pajarito above TA-18	WT	08/12/05	UF	CS	GU05080E24503		4.1		66700		11.6		595		4.4		1.5
E245	Pajarito above TA-18	WT	08/24/05	F	CS	GF05080E24503	<	0.2		797	<	6		25.2	<	1	<	0.1
E245	Pajarito above TA-18	WT	08/24/05	UF	CS	GU05080E24504		11.7		174000		33.5		1670		12.3		5.9
E245.5	Pajarito above Threemile	WM	03/21/05	UF	CS	GU0503M245501		0.48		7040	<	1.67		84.2	<	0.29	<	0.1
E245.5	Pajarito above Threemile	WT	07/15/05	F	CS	GF0507E245501	<	0.2		1070	<	6		76.5	<	1	<	0.1
E245.5	Pajarito above Threemile	WT	07/15/05	UF	CS	GU0507E245501		3.7		124000		30.7		1360		10.6		5.2
E245.5	Pajarito above Threemile	WT	08/06/05	UF	CS	GU0508E245501												
E245.5	Pajarito above Threemile	WT	08/12/05	F	CS	GF0508E245502	<	0.2		1150	<	6		41.8	<	1	<	0.1
E245.5	Pajarito above Threemile	WT	08/12/05	UF	CS	GU0508E245502		2.5		82500		17.7		918		5.9		2.2
E245.5	Pajarito above Threemile	WT	08/22/05	F	CS	GF0508E245503	<	0.2		522	<	6		30.7	<	1	<	0.1

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E242.5	La Delfe above Pajarito	WM	03/24/05	UF	CS	GU0503M242501	<	0.762		3.8		2.4		3220	<	0.0472		25.1		1.2
E242.5	La Delfe above Pajarito	WT	07/15/05	F	CS	GF0507E242501		1.6		1.1	<	3		586				686	<	2
E242.5	La Delfe above Pajarito	WT	07/15/05	UF	CS	GU0507E242501		14.8		15.7		30.1		18400		0.79		2810		2.1
E242.5	La Delfe above Pajarito	WT	08/04/05	F	CS	GF0508E242501	<	1	<	1		3		193				30.4	<	2
E242.5	La Delfe above Pajarito	WT	08/04/05	UF	CS	GU0508E242501		7.1		17.2		18.6		19700		0.3		1100	<	2
E242.5	La Delfe above Pajarito	WT	08/06/05	F	CS	GF0508E242502	<	1		1.1	<	3		617				11.7	<	2
E242.5	La Delfe above Pajarito	WT	08/06/05	UF	CS	GU0508E242502	<	1		3.5		4.2		3780		0.24		80.9	<	2
E242.5	La Delfe above Pajarito	WT	08/12/05	F	CS	GF0508E242503	<	1	<	1		3.4		451				4.2	<	2
E242.5	La Delfe above Pajarito	WT	08/12/05	UF	CS	GU0508E242503		14.2		32.9		43		36300		0.7		1490	<	2
E243	Pajarito above Twomile	WM	03/22/05	UF	CS	GU05030M24301	<	1.6		4		2.9		3570	<	0.0472		25.6	<	0.948
E243	Pajarito above Twomile	WT	07/15/05	F	CS	GF05070E24301		4.3		1.3		3.2		427				542	<	2
E243	Pajarito above Twomile	WT	07/15/05	UF	CS	GU05070E24301		50.8		11.7		74.6		13600				7350	<	2
E243	Pajarito above Twomile	WT	08/12/05	F	CS	GF05080E24301	<	1	<	1		3.6		583				5.6	<	2
E243	Pajarito above Twomile	WT	08/12/05	UF	CS	GU05080E24301										0.066				
E243	Pajarito above Twomile	WT	08/24/05	F	CS	GF05080E24302	<	2.7	<	2.2	<	5.3		1860				36	<	2.2
E243	Pajarito above Twomile	WT	08/24/05	UF	CS	GU05080E24302		138		282		642		258000		0.31		15200	<	9.2
E243.5	Twomile tributary at TA-3	WT	04/16/05	F	CS	GF0504E243501	<	1	<	1		13.3	<	18				325		2.6
E243.5	Twomile tributary at TA-3	WT	04/16/05	UF	CS	GU0504E243501	<	1		1.8		33.6		1130	<	0.05		54.5	<	2
E243.5	Twomile tributary at TA-3	WT	04/24/05	F	CS	GF0504E243502		1		1.5		99.2		239				60	<	2
E243.5	Twomile tributary at TA-3	WT	04/24/05	UF	CS	GU0504E243502	<	1		1.4		117		966				65	<	2
E243.5	Twomile tributary at TA-3	WT	05/03/05	UF	CS	GU0505E243501									<	0.05				
E243.5	Twomile tributary at TA-3	WT	05/27/05	F	CS	GF0505E243501		4.4	<	1.2		45.5		820				132	<	2
E243.5	Twomile tributary at TA-3	WT	05/27/05	UF	CS	GU0505E243502		3	<	6		196		5880		0.066		249	<	2
E243.5	Twomile tributary at TA-3	WT	06/11/05	F	CS	GF0506E243501		5.3		1.1		140		758				112		2.6
E243.5	Twomile tributary at TA-3	WT	06/11/05	UF	CS	GU0506E243501		1.2		2		205		1080		0.074		100	<	2
E244	Twomile above Pajarito	WM	03/22/05	UF	CS	GU05030M24401	<	0.762	<	1.43	<	1.8		926	<	0.0472		7.5	<	0.948
E244	Twomile above Pajarito	WT	07/15/05	F	CS	GF05070E24401		3.7		1		4		222				185		2.9
E244	Twomile above Pajarito	WT	07/15/05	UF	CS	GU05070E24401		60		28.4		99.7		16600		0.16		11500	<	2
E244	Twomile above Pajarito	WT	08/22/05	F	CS	GF05080E24401		2.1		1.8	<	3		757				11.2	<	2
E244	Twomile above Pajarito	WT	08/22/05	UF	CS	GU05080E24401		37.7		89.5		102		122000		0.2		4860		9.1
E244	Twomile above Pajarito	WT	08/24/05	F	CS	GF05080E24402	<	5.6	<	1.9	<	3		1520				38.3	<	2
E244	Twomile above Pajarito	WT	08/24/05	UF	CS	GU05080E24402		127		262		313		321000		0.18		18100	<	18.3
E244	Twomile above Pajarito	WT	09/28/05	UF	CS	GU05100E24401		9.7		23.8		31.3		31800		0.08		1250		2.8
E245	Pajarito above TA-18	WM	03/21/05	UF	CS	GU05030M24501	<	0.762		3.6		2.5		3610	<	0.0472		44.7	<	0.948
E245	Pajarito above TA-18	WT	07/15/05	F	CS	GF05070E24501		2.8		3.3	<	3		586				605		4.5
E245	Pajarito above TA-18	WT	07/15/05	UF	CS	GU05070E24501		17.9		45.2		55		49800		0.31		2000		4.9
E245	Pajarito above TA-18	WT	08/04/05	F	CS	GF05080E24501	<	1	<	1		3.4		56.4			<	2		2.4
E245	Pajarito above TA-18	WT	08/04/05	UF	CS	GU05080E24501		9.1		25		36.7		33800		0.06		1020		2.5
E245	Pajarito above TA-18	WT	08/12/05	F	CS	GF05080E24502		2.9		1.7	<	3		741				11.8	<	2
E245	Pajarito above TA-18	WT	08/12/05	UF	CS	GU05080E24503		15.1		40.5		49.2		47500	<	0.05		1720	<	2
E245	Pajarito above TA-18	WT	08/24/05	F	CS	GF05080E24503		1.7	<	1	<	3		434				6.2	<	2
E245	Pajarito above TA-18	WT	08/24/05	UF	CS	GU05080E24504		48.1		116		155		134000		0.5		4760		4.4
E245.5	Pajarito above Threemile	WM	03/21/05	UF	CS	GU0503M245501	<	0.762		3.4		3.1		3560	<	0.0472		52.9	<	0.948
E245.5	Pajarito above Threemile	WT	07/15/05	F	CS	GF0507E245501		3.9		1.6	<	3		722				552		6.1
E245.5	Pajarito above Threemile	WT	07/15/05	UF	CS	GU0507E245501		35.4		91.8		113		107000				5290		10.1
E245.5	Pajarito above Threemile	WT	08/06/05	UF	CS	GU0508E245501										0.051				
E245.5	Pajarito above Threemile	WT	08/12/05	F	CS	GF0508E245502	<	1	<	1	<	3		541				21.4	<	2
E245.5	Pajarito above Threemile	WT	08/12/05	UF	CS	GU0508E245502		26		56.1		63.4		64300		0.11		2640		2.3
E245.5	Pajarito above Threemile	WT	08/22/05	F	CS	GF0508E245503		1.7		1.1	<	3		283				7.6	<	2

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E242.5	La Delfe above Pajarito	WM	03/24/05	UF	CS	GU0503M242501		1.3		2.1	<	0.2		2.5		0.47		6.4		13.1
E242.5	La Delfe above Pajarito	WT	07/15/05	F	CS	GF0507E242501		1.4		0.5	<	0.5	<	2.5	<	0.4		3.4	<	4.2
E242.5	La Delfe above Pajarito	WT	07/15/05	UF	CS	GU0507E242501		20.5		59.8		0.52	<	2.5		1.7		47.7		118
E242.5	La Delfe above Pajarito	WT	08/04/05	F	CS	GF0508E242501		0.88	<	0.5	<	0.5	<	2.5	<	0.4		3.2	<	2
E242.5	La Delfe above Pajarito	WT	08/04/05	UF	CS	GU0508E242501		11.1		25.1		0.55	<	2.5		0.95		34.9		70.5
E242.5	La Delfe above Pajarito	WT	08/06/05	F	CS	GF0508E242502		1.1		0.58	<	0.5	<	2.5	<	0.4		3	<	6.1
E242.5	La Delfe above Pajarito	WT	08/06/05	UF	CS	GU0508E242502		2.7		5.7	<	0.5	<	2.5	<	0.4		7.1		17.1
E242.5	La Delfe above Pajarito	WT	08/12/05	F	CS	GF0508E242503		1.1	<	0.5	<	1.5	<	2.5	<	0.4		3.1	<	6.1
E242.5	La Delfe above Pajarito	WT	08/12/05	UF	CS	GU0508E242503		16.7		47	<	1.3	<	2.5		2.3		65.9		137
E243	Pajarito above Twomile	WM	03/22/05	UF	CS	GU05030M24301		4.2		2.3	<	0.2	<	1.9		0.46		6.4		13.3
E243	Pajarito above Twomile	WT	07/15/05	F	CS	GF05070E24301		4.1		0.64		0.94	<	2.5	<	0.4		2.5	<	8.5
E243	Pajarito above Twomile	WT	07/15/05	UF	CS	GU05070E24301		118		76.7	<	0.75	<	2.5	<	0.4		88.9		392
E243	Pajarito above Twomile	WT	08/12/05	F	CS	GF05080E24301		3	<	0.5	<	0.89	<	2.5	<	0.4		3	<	7.7
E243	Pajarito above Twomile	WT	08/12/05	UF	CS	GU05080E24301														
E243	Pajarito above Twomile	WT	08/24/05	F	CS	GF05080E24302		4.3		1.5	<	0.5	<	2.5		0.59	<	3.7	<	12.3
E243	Pajarito above Twomile	WT	08/24/05	UF	CS	GU05080E24302		489		318		0.84		3.8		4.8		453		1230
E243.5	Twomile tributary at TA-3	WT	04/16/05	F	CS	GF0504E243501		4.2	<	0.5		79.6	<	2.5	<	0.4	<	1		1240
E243.5	Twomile tributary at TA-3	WT	04/16/05	UF	CS	GU0504E243501		1.5		3.8		64.3	<	2.9	<	0.4		1.7		316
E243.5	Twomile tributary at TA-3	WT	04/24/05	F	CS	GF0504E243502		1.9		0.58		124	<	2.5	<	0.4	<	1		699
E243.5	Twomile tributary at TA-3	WT	04/24/05	UF	CS	GU0504E243502		2.2		3.5		126	<	2.5	<	0.4		2.1		712
E243.5	Twomile tributary at TA-3	WT	05/03/05	UF	CS	GU0505E243501														
E243.5	Twomile tributary at TA-3	WT	05/27/05	F	CS	GF0505E243501		3.9		0.66		213	<	2.5	<	0.4	<	1		742
E243.5	Twomile tributary at TA-3	WT	05/27/05	UF	CS	GU0505E243502		8.4		16.8		238	<	2.5	<	0.4		10.9		1020
E243.5	Twomile tributary at TA-3	WT	06/11/05	F	CS	GF0506E243501		3.2		1.7		153	<	2.5	<	0.4	<	3.1		919
E243.5	Twomile tributary at TA-3	WT	06/11/05	UF	CS	GU0506E243501		3.1		5.5		172	<	2.5	<	0.4	<	4.4		971
E244	Twomile above Pajarito	WM	03/22/05	UF	CS	GU05030M24401	<	1.7		0.67	<	0.35	<	2.4		0.1	<	0.732		5.5
E244	Twomile above Pajarito	WT	07/15/05	F	CS	GF05070E24401		1.7		0.97		3	<	2.5	<	0.4		1.6	<	13.2
E244	Twomile above Pajarito	WT	07/15/05	UF	CS	GU05070E24401		49.9		248	<	1.8	<	2.5	<	0.4		98.8		1060
E244	Twomile above Pajarito	WT	08/22/05	F	CS	GF05080E24401		0.89		0.57	<	0.5	<	2.5	<	0.4		1.8	<	9.3
E244	Twomile above Pajarito	WT	08/22/05	UF	CS	GU05080E24401		44.3		184		1.1	<	2.5		1.6		160		738
E244	Twomile above Pajarito	WT	08/24/05	F	CS	GF05080E24402		2.4		1.3		1.2	<	2.5	<	0.4	<	2.6	<	13.4
E244	Twomile above Pajarito	WT	08/24/05	UF	CS	GU05080E24402		190		552		0.97		5.4		4.4		453		2000
E244	Twomile above Pajarito	WT	09/28/05	UF	CS	GU05100E24401		17.8		70	<	2.4	<	2.5		0.42		42.7		178
E245	Pajarito above TA-18	WM	03/21/05	UF	CS	GU05030M24501		3.2		2.5	<	0.5	<	2.5	<	0.4		6		18.3
E245	Pajarito above TA-18	WT	07/15/05	F	CS	GF05070E24501		3.1		1.1		1.1	<	2.5	<	0.4		3	<	9
E245	Pajarito above TA-18	WT	07/15/05	UF	CS	GU05070E24501		38.1		86.3		1.6	<	2.5		0.95		82.8		280
E245	Pajarito above TA-18	WT	08/04/05	F	CS	GF05080E24501		2.5	<	0.5	<	2.6	<	2.5	<	0.4		1.9	<	5.1
E245	Pajarito above TA-18	WT	08/04/05	UF	CS	GU05080E24501		20.5		34.6	<	2.1	<	2.5		0.49		41.4		142
E245	Pajarito above TA-18	WT	08/12/05	F	CS	GF05080E24502		1.3		0.64	<	2.2	<	2.5	<	0.4		2.2	<	9.8
E245	Pajarito above TA-18	WT	08/12/05	UF	CS	GU05080E24503		28.9		83.3	<	3.1	<	2.5		1.1		72.7		232
E245	Pajarito above TA-18	WT	08/24/05	F	CS	GF05080E24503		1.7	<	0.5	<	0.5	<	2.5	<	0.4		2	<	4.9
E245	Pajarito above TA-18	WT	08/24/05	UF	CS	GU05080E24504		117		209	<	0.5	<	2.5		2.7		211		593
E245.5	Pajarito above Threemile	WM	03/21/05	UF	CS	GU0503M245501		3.3		2.9	<	0.5	<	2.5	<	0.4		6		17.9
E245.5	Pajarito above Threemile	WT	07/15/05	F	CS	GF0507E245501		3.6		1.2		1.3	<	2.5	<	0.4		3.4	<	11.1
E245.5	Pajarito above Threemile	WT	07/15/05	UF	CS	GU0507E245501		58.5		202		1.6	<	2.5		1.5		153		782
E245.5	Pajarito above Threemile	WT	08/06/05	UF	CS	GU0508E245501														
E245.5	Pajarito above Threemile	WT	08/12/05	F	CS	GF0508E245502		1.6	<	0.5	<	0.68	<	2.5	<	0.4		2.1	<	8.2
E245.5	Pajarito above Threemile	WT	08/12/05	UF	CS	GU0508E245502		52.5		117	<	1.2	<	2.5		1.1		103		349
E245.5	Pajarito above Threemile	WT	08/22/05	F	CS	GF0508E245503		1.3	<	0.5	<	0.5	<	2.5	<	0.4		1.9	<	6.8

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E245.5	Pajarito above Threemile	WT	08/22/05	UF	CS	GU0508E245503		2.9		155000		27.4		1630		13.3		3
E245.5	Pajarito above Threemile	WT	08/25/05	F	CS	GF0508E245504	<	0.2		2060	<	6		48.8	<	1	<	0.11
E245.5	Pajarito above Threemile	WT	08/25/05	UF	CS	GU0508E245505		2.3		33400		9		394	<	2.3	<	1.2

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E245.5	Pajarito above Threemile	WT	08/22/05	UF	CS	GU0508E245503		41		82.4		86.9		94200		0.21		4810		3.4
E245.5	Pajarito above Threemile	WT	08/25/05	F	CS	GF0508E245504	<	2.6	<	1.7	<	3		1130			<	13.9	<	2
E245.5	Pajarito above Threemile	WT	08/25/05	UF	CS	GU0508E245505	<	8.7		21.8		33		25700	<	0.05		1080	<	2.6

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E245.5	Pajarito above Threemile	WT	08/22/05	UF	CS	GU0508E245503		61.5		166	<	0.74	<	2.5		2.3		161		507
E245.5	Pajarito above Threemile	WT	08/25/05	F	CS	GF0508E245504		2.3		1.2		0.54	<	2.5	<	0.4	<	2.9	<	10.4
E245.5	Pajarito above Threemile	WT	08/25/05	UF	CS	GU0508E245505		21.2		46.6		0.6	<	2.5		0.49		40		135

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E246	Threemile above Pajarito	WM	03/21/05	UF	CS	GU05030M24601	<	0.2		4140	<	1.67		62.4	<	0.23	<	0.1
E247	MDA G-1	WT	08/13/05	F	CS	GF05080E24701	<	0.2		88.1	<	6		31.5	<	1	<	0.1
E247	MDA G-1	WT	08/13/05	UF	CS	GU05080E24701		0.55		122000		22.5		1290		9.8		2.4
E247	MDA G-1	WT	09/29/05	UF	CS	GU05090E24701	<	0.2		21200	<	6		239		1.7		1
E247	MDA G-1	WT	10/09/05	F	CS	GF05100E24701	<	0.2		78.6	<	6		17	<	1	<	0.1
E247	MDA G-1	WT	10/09/05	UF	CS	GU05100E24701		0.27		117000		25.6		1210		9.8		1.9
E248.5	MDA G-6U	WT	04/24/05	F	CS	GF0504E248501	<	0.2		275	<	6		13.8	<	1	<	0.1
E248.5	MDA G-6U	WT	04/24/05	UF	CS	GU0504E248501		0.48		12500	<	6		111		1		0.93
E248.5	MDA G-6U	WT	07/15/05	F	CS	GF0507E248501	<	0.2		96.6	<	6		28.6	<	1	<	0.1
E248.5	MDA G-6U	WT	07/15/05	UF	CS	GU0507E248501		1.4		19700		6.5		842		5.7		2.9
E248.5	MDA G-6U	WT	08/05/05	F	CS	GF0508E248501	<	0.2		328	<	6		30.2	<	1	<	0.1
E248.5	MDA G-6U	WT	08/05/05	UF	CS	GU0508E248501		0.81		15400	<	6		169		1.3		1
E248.5	MDA G-6U	WT	08/12/05	F	CS	GF0508E248502	<	0.2	<	68	<	6		13.2	<	1	<	0.1
E248.5	MDA G-6U	WT	08/12/05	UF	CS	GU0508E248502		0.73		13200	<	6		95.6	<	1		0.31
E250	Pajarito above SR-4	WM	03/23/05	UF	CS	GU05030M25001	<	0.23		955		3.9		81.7	<	0.172	<	0.07
E250	Pajarito above SR-4	WT	08/12/05	F	CS	GF05080E25001	<	0.2		5030	<	6		57.4	<	1	<	0.1
E250	Pajarito above SR-4	WT	08/12/05	UF	CS	GU05080E25001		0.6		17300		6.1		137	<	1	<	0.35
E252	Water above SR-501	WM	03/29/05	UF	CS	GU05030M25201	<	0.2		553	<	6		39.2	<	1	<	0.1
E252.5	Water above S Site Canyon	WM	03/30/05	UF	CS	GU0503M252501	<	0.2		1220	<	6		93.3	<	1	<	0.1
E252.5	Water above S Site Canyon	WT	08/12/05	F	CS	GF0508E252501	<	0.2		2110	<	6		54.4	<	1	<	0.1
E252.5	Water above S Site Canyon	WT	08/12/05	UF	CS	GU0508E252501		0.72		53400		12.2		678		3.9		2.7
E252.8	S Site Canyon above Water	WT	08/12/05	F	CS	GF0508E252801	<	0.2		2500	<	6		95.6	<	1	<	0.1
E252.8	S Site Canyon above Water	WT	08/12/05	UF	CS	GU0508E252801	<	0.2		15000	<	6		311		1		0.46
E252.8	S Site Canyon above Water	WT	08/24/05	F	CS	GF0508E252802	<	0.2		567	<	6		92	<	1	<	0.1
E252.8	S Site Canyon above Water	WT	08/24/05	UF	CS	GU0508E252802		1.6		155000		37.8		3300	<	11.4	<	3
E253	Canon de Valle above SR-501	WM	04/11/05	UF	CS	GU05030M25301	<	0.2		4420	<	6		77.9	<	1	<	0.1
E253	Canon de Valle above SR-501	WT	04/16/05	F	CS	GF05040E25301	<	0.2		1170	<	6		35.1	<	1	<	0.1
E253	Canon de Valle above SR-501	WT	04/16/05	UF	CS	GU05040E25301	<	0.2		29800	<	6		411		1.8		9.3
E256	Canon de Valle below MDA P	WM	03/31/05	UF	CS	GU05030M25601		0.23		2280	<	6		3490	<	1	<	0.1
E256	Canon de Valle below MDA P	WT	07/15/05	F	CS	GF05070E25601		0.27		1250	<	6		547	<	1	<	0.1
E256	Canon de Valle below MDA P	WT	07/15/05	UF	CS	GU05070E25601		42.5		83500		11.5		4730		4.9		1.2
E256	Canon de Valle below MDA P	WT	08/04/05	F	CS	GF05080E25601	<	0.2		1270	<	6		992	<	1	<	0.1
E256	Canon de Valle below MDA P	WT	08/04/05	UF	CS	GU05080E25601		3.6		137000		20.9		8510		7.3		1.6
E256	Canon de Valle below MDA P	WT	08/06/05	F	CS	GF05080E25602	<	0.2		495	<	6		760	<	1	<	0.1
E256	Canon de Valle below MDA P	WT	08/06/05	UF	CS	GU05080E25602		0.21		9910	<	6		1750	<	1		0.23
E256	Canon de Valle below MDA P	WT	08/12/05	F	CS	GF05080E25603	<	0.2		133	<	6		933	<	1	<	0.1
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25603		0.97		58600		8.5		3960		3.1		0.62
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25604												
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	F	CS	GF05040E25701	<	0.2		9300		6		1010	<	1		0.22
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	UF	CS	GU05040E25701		0.26		16800		7.3		1300	<	1		0.26
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	F	CS	GF05080E25701	<	0.2		86.6	<	6		186	<	1	<	0.1
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	UF	CS	GU05080E25701		4.1		149000		29.6		5120		8.6		2.3
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	F	CS	GF05080E25702	<	0.2		741	<	6		147	<	1	<	0.1
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	UF	CS	GU05080E25702	<	0.2		4390	<	6		811		1		0.3
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	F	CS	GF05080E25703	<	0.2		143	<	6		119	<	1	<	0.1
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	UF	CS	GU05080E25703		1.1		35400	<	6		1820		2.5		0.78
E262	Canon de Valle above Water	WM	03/30/05	UF	CS	GU05030M26201	<	0.2		6490	<	6		752	<	1	<	0.1
E262	Canon de Valle above Water	WT	08/12/05	F	CS	GF05080E26201	<	0.2		105	<	6		62.6	<	1	<	0.1
E262	Canon de Valle above Water	WT	08/12/05	UF	CS	GU05080E26201		0.61		80200		16.2		1570		11.2		3

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E246	Threemile above Pajarito	WM	03/21/05	UF	CS	GU05030M24601	<	0.762		2.4		2.7		2160	<	0.0472		28	<	0.948
E247	MDA G-1	WT	08/13/05	F	CS	GF05080E24701	<	1	<	1	<	3		50.9				6.7	<	2
E247	MDA G-1	WT	08/13/05	UF	CS	GU05080E24701		40.5		77		72.9		86700		0.07		2980	<	2
E247	MDA G-1	WT	09/29/05	UF	CS	GU05090E24701		6.4		11.5		12.5		12800		0.14		590	<	2
E247	MDA G-1	WT	10/09/05	F	CS	GF05100E24701	<	1	<	1	<	3		47.3				2.9	<	2
E247	MDA G-1	WT	10/09/05	UF	CS	GU05100E24701		39.6		71.7		71.8		88400		0.23		3140		2.1
E248.5	MDA G-6U	WT	04/24/05	F	CS	GF0504E248501	<	1		1.3	<	3		137				13.7	<	2
E248.5	MDA G-6U	WT	04/24/05	UF	CS	GU0504E248501		2		8.3		12.3		6910	<	0.05		254	<	2
E248.5	MDA G-6U	WT	07/15/05	F	CS	GF0507E248501	<	1	<	1		4.5		61.6				32.1	<	2
E248.5	MDA G-6U	WT	07/15/05	UF	CS	GU0507E248501		19.3		27.2		147		8730	<	0.05		2110	<	2
E248.5	MDA G-6U	WT	08/05/05	F	CS	GF0508E248501		1.1		1.2		4.3		198				6.5	<	2
E248.5	MDA G-6U	WT	08/05/05	UF	CS	GU0508E248501		3.4		10.4		21.3		8970		0.067		411	<	2
E248.5	MDA G-6U	WT	08/12/05	F	CS	GF0508E248502	<	1		1.4	<	3		21.8				6.4	<	2
E248.5	MDA G-6U	WT	08/12/05	UF	CS	GU0508E248502		2.2		9.1		12.2		8330	<	0.05		231	<	2
E250	Pajarito above SR-4	WM	03/23/05	UF	CS	GU05030M25001	<	0.762	<	1.43	<	1.8		466	<	0.0472		12.1		2.1
E250	Pajarito above SR-4	WT	08/12/05	F	CS	GF05080E25001	<	2.7	<	3.3	<	5.7		2550				26	<	2
E250	Pajarito above SR-4	WT	08/12/05	UF	CS	GU05080E25001	<	2.1	<	9.6	<	12		10300	<	0.05		326	<	2
E252	Water above SR-501	WM	03/29/05	UF	CS	GU05030M25201	<	1		1.1	<	3		270	<	0.05		4.6	<	2
E252.5	Water above S Site Canyon	WM	03/30/05	UF	CS	GU0503M252501	<	1		1.2	<	3		606	<	0.05		14.2	<	2
E252.5	Water above S Site Canyon	WT	08/12/05	F	CS	GF0508E252501	<	1		1.2	<	3		1010				7.8	<	2
E252.5	Water above S Site Canyon	WT	08/12/05	UF	CS	GU0508E252501		14		29.6		35.2		40300	<	0.05		1710	<	2
E252.8	S Site Canyon above Water	WT	08/12/05	F	CS	GF0508E252801	<	1		1.4		3.6		1280				8.8	<	2
E252.8	S Site Canyon above Water	WT	08/12/05	UF	CS	GU0508E252801		3		7.3		12.5		8680	<	0.05		353	<	2
E252.8	S Site Canyon above Water	WT	08/24/05	F	CS	GF0508E252802	<	1	<	1	<	3		369				260	<	3.7
E252.8	S Site Canyon above Water	WT	08/24/05	UF	CS	GU0508E252802		51.8		91.9		137		119000		0.42		5860	<	7.5
E253	Canon de Valle above SR-501	WM	04/11/05	UF	CS	GU05030M25301	<	1.2	<	2.4	<	3		2210	<	0.05		120	<	2
E253	Canon de Valle above SR-501	WT	04/16/05	F	CS	GF05040E25301	<	1	<	1	<	3		466				11.2	<	2
E253	Canon de Valle above SR-501	WT	04/16/05	UF	CS	GU05040E25301		7.7		13.7		18.1		18000	<	0.05		1250	<	2
E256	Canon de Valle below MDA P	WM	03/31/05	UF	CS	GU05030M25601	<	1		1.5	<	3		1110	<	0.05		38.6	<	2
E256	Canon de Valle below MDA P	WT	07/15/05	F	CS	GF05070E25601		1.3	<	1		7.6		896				148	<	2
E256	Canon de Valle below MDA P	WT	07/15/05	UF	CS	GU05070E25601		22.6		47		60.3		61400				2100	<	2
E256	Canon de Valle below MDA P	WT	08/04/05	F	CS	GF05080E25601		2		1.4		6.3		595				21.2	<	2
E256	Canon de Valle below MDA P	WT	08/04/05	UF	CS	GU05080E25601		23.1		79.3		114		110000		0.21		1730		6.2
E256	Canon de Valle below MDA P	WT	08/06/05	F	CS	GF05080E25602	<	1	<	1		4.6		266				2.8		2
E256	Canon de Valle below MDA P	WT	08/06/05	UF	CS	GU05080E25602		1.4		4.8		12.2		5100		0.13		122	<	2
E256	Canon de Valle below MDA P	WT	08/12/05	F	CS	GF05080E25603	<	1	<	1		5.5		111				7.4	<	2
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25603		8.7		30.7		40.9		34500		0.18		693		2.9
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25604									<	0.05				
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	F	CS	GF05040E25701	<	4.1	<	4.1		5		4900				28.1	<	3
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	UF	CS	GU05040E25701	<	2.3		7.4		8.6		9020	<	0.05		76.7	<	2
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	F	CS	GF05080E25701	<	1	<	1		3.6		53.7				41.9	<	2
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	UF	CS	GU05080E25701		31.9		91.5		93.8		124000		0.23		2350		5.3
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	F	CS	GF05080E25702		1.7	<	1	<	3		414				9.2	<	2
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	UF	CS	GU05080E25702		3.5		2.7		8.7		2280		0.078		341	<	2
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	F	CS	GF05080E25703	<	1	<	1	<	3		99.9				4.3	<	2
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	UF	CS	GU05080E25703		10.7		19		23.6		20400		0.16		832	<	2
E262	Canon de Valle above Water	WM	03/30/05	UF	CS	GU05030M26201	<	1		3.7	<	3		3230	<	0.05		18.3	<	2
E262	Canon de Valle above Water	WT	08/12/05	F	CS	GF05080E26201	<	1	<	1	<	3		79.4				60.1	<	2
E262	Canon de Valle above Water	WT	08/12/05	UF	CS	GU05080E26201		35.2		46.9		88.6		66700	<	0.05		4670		2.8

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E246	Threemile above Pajarito	WM	03/21/05	UF	CS	GU05030M24601		2.2		1.6	<	0.5	<	2.5	<	0.4		3		8.5
E247	MDA G-1	WT	08/13/05	F	CS	GF05080E24701		0.71	<	0.5	<	0.5	<	2.5	<	0.4		2.8	<	3.5
E247	MDA G-1	WT	08/13/05	UF	CS	GU05080E24701		47.7		137	<	0.62	<	2.5		1.4		154		340
E247	MDA G-1	WT	09/29/05	UF	CS	GU05090E24701		9.8		27.4	<	0.5	<	2.5	<	0.4		26.3		62.4
E247	MDA G-1	WT	10/09/05	F	CS	GF05100E24701		0.52	<	0.5	<	0.5	<	2.5	<	0.4		1.4	<	2
E247	MDA G-1	WT	10/09/05	UF	CS	GU05100E24701		34.8		100		0.53	<	2.5		0.63		145		413
E248.5	MDA G-6U	WT	04/24/05	F	CS	GF0504E248501		0.59	<	0.5		8.7	<	2.5	<	0.4		1.3	<	4
E248.5	MDA G-6U	WT	04/24/05	UF	CS	GU0504E248501		6.3		9.5		7.1	<	2.5	<	0.4		12.8		84.2
E248.5	MDA G-6U	WT	07/15/05	F	CS	GF0507E248501		0.97	<	0.5		4.9	<	2.5	<	0.4		3.6	<	4.7
E248.5	MDA G-6U	WT	07/15/05	UF	CS	GU0507E248501		33.4		90.5	<	1.1	<	2.5	<	0.4		56.1		492
E248.5	MDA G-6U	WT	08/05/05	F	CS	GF0508E248501		1.2	<	0.5		6.6	<	2.5	<	0.4		3.2		12.1
E248.5	MDA G-6U	WT	08/05/05	UF	CS	GU0508E248501		9.1		17.8		5.1	<	2.5	<	0.4		19.8		143
E248.5	MDA G-6U	WT	08/12/05	F	CS	GF0508E248502	<	0.5	<	0.5		11.1	<	2.5	<	0.4		1.7	<	3.5
E248.5	MDA G-6U	WT	08/12/05	UF	CS	GU0508E248502		4.6		9.2		9.6	<	2.5	<	0.4		14.2		72.9
E250	Pajarito above SR-4	WM	03/23/05	UF	CS	GU05030M25001		1.2		0.53	<	0.2		2.3	<	0.4	<	0.732		3.7
E250	Pajarito above SR-4	WT	08/12/05	F	CS	GF05080E25001		3.3		1.8		1	<	2.5	<	0.4	<	5.7	<	14.6
E250	Pajarito above SR-4	WT	08/12/05	UF	CS	GU05080E25001		7.5		12.2		0.8	<	2.5	<	0.4		17.9		48.8
E252	Water above SR-501	WM	03/29/05	UF	CS	GU05030M25201		0.71	<	0.5	<	0.5	<	2.5	<	0.4		1.9		5.2
E252.5	Water above S Site Canyon	WM	03/30/05	UF	CS	GU0503M252501		0.97		0.55	<	0.5	<	2.5	<	0.4	<	3.5		4
E252.5	Water above S Site Canyon	WT	08/12/05	F	CS	GF0508E252501		1.3		0.68	<	0.53	<	2.5	<	0.4		3.3	<	7.7
E252.5	Water above S Site Canyon	WT	08/12/05	UF	CS	GU0508E252501		19.1		53.7	<	0.5	<	2.5		0.67		60		176
E252.8	S Site Canyon above Water	WT	08/12/05	F	CS	GF0508E252801		1.8		0.81	<	0.5	<	2.5	<	0.4		3.8	<	13.8
E252.8	S Site Canyon above Water	WT	08/12/05	UF	CS	GU0508E252801		6.8		13.7	<	0.5	<	2.5	<	0.4		15.8		39.7
E252.8	S Site Canyon above Water	WT	08/24/05	F	CS	GF0508E252802		1.8	<	0.5	<	0.5	<	2.5	<	0.4	<	3.6	<	3.7
E252.8	S Site Canyon above Water	WT	08/24/05	UF	CS	GU0508E252802		53.9		154		0.68	<	2.5		2		185		413
E253	Canon de Valle above SR-501	WM	04/11/05	UF	CS	GU05030M25301		2		3	<	0.5	<	2.5		0.45	<	5.6		14.1
E253	Canon de Valle above SR-501	WT	04/16/05	F	CS	GF05040E25301	<	0.5		0.5	<	0.5	<	3.4	<	0.4		1.1		4.7
E253	Canon de Valle above SR-501	WT	04/16/05	UF	CS	GU05040E25301		9.1		22	<	0.5	<	3.7	<	0.4		27.5		91.2
E256	Canon de Valle below MDA P	WM	03/31/05	UF	CS	GU05030M25601		2.1		0.74	<	0.5	<	2.5	<	0.4	<	4.1		5.9
E256	Canon de Valle below MDA P	WT	07/15/05	F	CS	GF05070E25601		3.3		0.74	<	0.57	<	2.5	<	0.4		3.3		21
E256	Canon de Valle below MDA P	WT	07/15/05	UF	CS	GU05070E25601		49		82.9	<	0.63	<	2.5		0.9		93.9		225
E256	Canon de Valle below MDA P	WT	08/04/05	F	CS	GF05080E25601		1.5		0.62		0.71	<	2.5	<	0.4		4.8		3.6
E256	Canon de Valle below MDA P	WT	08/04/05	UF	CS	GU05080E25601		44.6		102		2.8	<	2.5		1.7		141		331
E256	Canon de Valle below MDA P	WT	08/06/05	F	CS	GF05080E25602		0.95	<	0.5	<	0.5	<	2.5	<	0.4		2.7	<	3.6
E256	Canon de Valle below MDA P	WT	08/06/05	UF	CS	GU05080E25602		6.2		13.8	<	0.5	<	2.5	<	0.4		13.5		29.6
E256	Canon de Valle below MDA P	WT	08/12/05	F	CS	GF05080E25603		0.56	<	0.5	<	0.5	<	2.5	<	0.4		2.5	<	4.3
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25603		17.7		38.3		0.66	<	2.5		0.6		57.6		136
E256	Canon de Valle below MDA P	WT	08/12/05	UF	CS	GU05080E25604														
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	F	CS	GF05040E25701		3.8		3.2	<	0.5	<	2.5	<	0.4	<	8.1		267
E257	Canon de Valle tributary at Burn Grounds	WT	04/26/05	UF	CS	GU05040E25701		5.4		6.8	<	0.5	<	2.5	<	0.4		14.2		246
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	F	CS	GF05080E25701		0.85	<	0.5	<	0.5	<	2.5	<	0.4		3.5		5.2
E257	Canon de Valle tributary at Burn Grounds	WT	08/04/05	UF	CS	GU05080E25701		49.5		115		1.7	<	2.5		2.5		174		395
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	F	CS	GF05080E25702		1.5	<	0.5	<	0.5	<	2.5	<	0.4		3.6	<	5.4
E257	Canon de Valle tributary at Burn Grounds	WT	08/06/05	UF	CS	GU05080E25702		5.4		15.3	<	0.5	<	2.5	<	0.4		10.7		41
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	F	CS	GF05080E25703		0.66	<	0.5	<	0.5	<	2.5	<	0.4		2.4	<	6
E257	Canon de Valle tributary at Burn Grounds	WT	08/12/05	UF	CS	GU05080E25703		13.2		41.5	<	0.5	<	2.5		0.74		43.4		95.3
E262	Canon de Valle above Water	WM	03/30/05	UF	CS	GU05030M26201		1.9		1.5	<	0.5	<	2.5	<	0.4	<	6.7		11.5
E262	Canon de Valle above Water	WT	08/12/05	F	CS	GF05080E26201		1.2	<	0.5	<	0.5	<	2.5	<	0.4		1.7	<	4
E262	Canon de Valle above Water	WT	08/12/05	UF	CS	GU05080E26201		55.7		123	<	0.5	<	2.5		0.95		100		283

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262	Canon de Valle above Water	WT	08/24/05	F	CS	GF05080E26202	<	0.2		2400	<	6		513	<	1	<	0.1
E262	Canon de Valle above Water	WT	08/24/05	UF	CS	GU05080E26202		19.5		146000		34.6		12000	<	11.9	<	3.7

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262	Canon de Valle above Water	WT	08/24/05	F	CS	GF05080E26202	<	3.1	<	1.1	<	3.4		1410				161	<	3.3
E262	Canon de Valle above Water	WT	08/24/05	UF	CS	GU05080E26202		47.7		88.3		159		121000		0.39		7200	<	6.9

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262	Canon de Valle above Water	WT	08/24/05	F	CS	GF05080E26202		2.8		1	<	0.5	<	2.5	<	0.4	<	3.4	<	10
E262	Canon de Valle above Water	WT	08/24/05	UF	CS	GU05080E26202		63.3		185		0.98	<	2.5		1.9		177		552

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ag		Al		As		Ba		Be		Cd	
							EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262.5	Water below MDA AB	WM	03/30/05	UF	CS	GU0503M262501	<	0.2		1300	<	6		148	<	1	<	0.1
E262.5	Water below MDA AB	WT	08/04/05	F	CS	GF0508E262501	<	0.2		493	<	6		49.8	<	1	<	0.1
E262.5	Water below MDA AB	WT	08/04/05	UF	CS	GU0508E262501	<	0.78		94500		19		1130		5.9		1.7
E262.5	Water below MDA AB	WT	08/12/05	F	CS	GF0508E262502	<	0.2		747	<	6		60.6	<	1	<	0.1
E262.5	Water below MDA AB	WT	08/12/05	UF	CS	GU0508E262502		0.62		54100		14		799		4.5		1.2
E262.5	Water below MDA AB	WT	08/24/05	F	CS	GF0508E262503	<	0.2	<	116	<	6		36.4	<	1	<	0.1
E262.5	Water below MDA AB	WT	08/24/05	UF	CS	GU0508E262503		1.4		129000		20.8		1920	<	13.6	<	3.2
E263	Water at SR-4	WM	03/28/05	UF	CS	GU05030M26301	<	0.2		1970	<	6		155	<	1	<	0.1
E263	Water at SR-4	WT	08/12/05	F	CS	GF05080E26301	<	0.2		3090	<	6		115	<	1	<	0.1
E263	Water at SR-4	WT	08/12/05	UF	CS	GU05080E26301		0.97		67000		13.9		1230		5.5		1.4
E263	Water at SR-4	WT	09/29/05	F	CS	GF05090E26301	<	0.2		2120	<	6		89.7	<	1	<	0.1
E263	Water at SR-4	WT	09/29/05	UF	CS	GU05090E26301		0.94		57100		12.2		930		4.3		1.1
E265	Water below SR-4	WM	03/28/05	UF	CS	GU05030M26501	<	0.2		2060	<	6		157	<	1	<	0.1
E265	Water below SR-4	WT	08/12/05	F	CS	GF05080E26501	<	0.2		478	<	6		100	<	1	<	0.1
E265	Water below SR-4	WT	08/12/05	UF	CS	GU05080E26501		0.89		61900		15		1090		5.5		1.4
E265	Water below SR-4	WT	08/24/05	F	CS	GF05080E26502	<	0.2		948	<	6		92.3	<	1	<	0.1
E265	Water below SR-4	WT	08/24/05	UF	CS	GU05080E26502		1.5		86300		17.5		1440		5.8		1.4
E265	Water below SR-4	WT	09/28/05	F	CS	GF05090E26501	<	0.2		1220	<	6		45	<	1	<	0.1
E265	Water below SR-4	WT	09/28/05	UF	CS	GU05090E26501		0.48		93400		18.5		1270		17.7		3.8
E267	Potrillo above SR-4	WT	09/28/05	F	CS	GF05090E26701	<	0.2		597	<	6		27.7	<	1	<	0.1
E267	Potrillo above SR-4	WT	09/28/05	UF	CS	GU05090E26701	<	0.2		44300		6.9		255		2.8		0.63

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Co		Cr		Cu		Fe		Hg		Mn		Mo	
							EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:245.2		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262.5	Water below MDA AB	WM	03/30/05	UF	CS	GU0503M262501	<	1	<	1	<	3		618	<	0.05		10.7	<	2
E262.5	Water below MDA AB	WT	08/04/05	F	CS	GF0508E262501	<	1		1	<	3		270				29.1	<	2
E262.5	Water below MDA AB	WT	08/04/05	UF	CS	GU0508E262501		21.9		50.9		58.4		75300		0.27		2590		4.3
E262.5	Water below MDA AB	WT	08/12/05	F	CS	GF0508E262502	<	1	<	1	<	3		381				69.2	<	2
E262.5	Water below MDA AB	WT	08/12/05	UF	CS	GU0508E262502		14.5		29.9		35.3		41200	<	0.05		1760		2.1
E262.5	Water below MDA AB	WT	08/24/05	F	CS	GF0508E262503	<	1	<	1	<	3	<	67.2				318	<	2
E262.5	Water below MDA AB	WT	08/24/05	UF	CS	GU0508E262503		42.5		68.7		84.8		97900		0.28		5850	<	4
E263	Water at SR-4	WM	03/28/05	UF	CS	GU05030M26301	<	1		1.2	<	3		988	<	0.05		21.3	<	2
E263	Water at SR-4	WT	08/12/05	F	CS	GF05080E26301		1.2		1	<	3		1550				31	<	2
E263	Water at SR-4	WT	08/12/05	UF	CS	GU05080E26301		19.1		35.8		44.2		48700		0.073		2370		2.1
E263	Water at SR-4	WT	09/29/05	F	CS	GF05090E26301		3		1.7	<	3		1000				19.7	<	2
E263	Water at SR-4	WT	09/29/05	UF	CS	GU05090E26301		15.8		29.2		34.5		43000	<	0.05		1820		2.5
E265	Water below SR-4	WM	03/28/05	UF	CS	GU05030M26501	<	1		1.1	<	3		987	<	0.05		16.1	<	2
E265	Water below SR-4	WT	08/12/05	F	CS	GF05080E26501		2.1	<	1.1	<	3	<	306				9.7		2
E265	Water below SR-4	WT	08/12/05	UF	CS	GU05080E26501		15.7		32.2		37.7		44300				1990		4.1
E265	Water below SR-4	WT	08/24/05	F	CS	GF05080E26502		2.7	<	1		4.7		535				11.3	<	2
E265	Water below SR-4	WT	08/24/05	UF	CS	GU05080E26502		20.1		45.2		51.1		61100				2540		4.4
E265	Water below SR-4	WT	09/28/05	F	CS	GF05090E26501		4.2		1.1	<	3		554				21.3	<	2
E265	Water below SR-4	WT	09/28/05	UF	CS	GU05090E26501		31.3		42.8		68.1		64000		0.23		4510		2.9
E267	Potrillo above SR-4	WT	09/28/05	F	CS	GF05090E26701	<	1	<	1				280				21.5	<	2
E267	Potrillo above SR-4	WT	09/28/05	UF	CS	GU05090E26701		6.9		21.9		16.3		24000		0.14		493	<	2

Table A6. FFCA Watershed Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	Ni		Pb		Sb		Se		Tl		V		Zn	
							EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
							ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E262.5	Water below MDA AB	WM	03/30/05	UF	CS	GU0503M262501		0.98		0.51	<	0.5	<	2.5	<	0.4	<	2.9		3.5
E262.5	Water below MDA AB	WT	08/04/05	F	CS	GF0508E262501		1.1	<	0.5	<	0.5	<	2.5	<	0.4		3.1		3
E262.5	Water below MDA AB	WT	08/04/05	UF	CS	GU0508E262501		34.2		93.2		1.2	<	2.5		1.4		98.1		250
E262.5	Water below MDA AB	WT	08/12/05	F	CS	GF0508E262502		0.99	<	0.5	<	0.5	<	2.5	<	0.4		2.1	<	4.5
E262.5	Water below MDA AB	WT	08/12/05	UF	CS	GU0508E262502		20.4		51.7	<	0.54	<	2.5		0.76		55.8		156
E262.5	Water below MDA AB	WT	08/24/05	F	CS	GF0508E262503		0.83	<	0.5	<	0.5	<	2.5	<	0.4	<	1.1	<	3.7
E262.5	Water below MDA AB	WT	08/24/05	UF	CS	GU0508E262503		51.1		129		0.57	<	2.5		1.8		123		389
E263	Water at SR-4	WM	03/28/05	UF	CS	GU05030M26301		1.1		1.1	<	0.5		3.1	<	0.4		2.4		3.8
E263	Water at SR-4	WT	08/12/05	F	CS	GF05080E26301		1.6		1.2	<	0.5	<	2.5	<	0.4		4	<	12.8
E263	Water at SR-4	WT	08/12/05	UF	CS	GU05080E26301		24.2		62.9	<	0.67	<	2.5		0.9		68.2		250
E263	Water at SR-4	WT	09/29/05	F	CS	GF05090E26301		1.5		0.68	<	0.5	<	2.5	<	0.4		2.5	<	2
E263	Water at SR-4	WT	09/29/05	UF	CS	GU05090E26301		28.7		55.7	<	0.5	<	2.5		0.61		55.8		161
E265	Water below SR-4	WM	03/28/05	UF	CS	GU05030M26501		1.1		0.85	<	0.5	<	2.5	<	0.4		3.2		3.7
E265	Water below SR-4	WT	08/12/05	F	CS	GF05080E26501		1.4		0.54	<	0.82	<	2.5	<	0.4		2.5	<	10
E265	Water below SR-4	WT	08/12/05	UF	CS	GU05080E26501		27.2		62.2	<	0.5	<	2.5		0.82		64.4		218
E265	Water below SR-4	WT	08/24/05	F	CS	GF05080E26502		1.8		0.54	<	0.5	<	2.5	<	0.4		2.8	<	6
E265	Water below SR-4	WT	08/24/05	UF	CS	GU05080E26502		32.6		76.8	<	0.5	<	2.5		1.2		85.2		237
E265	Water below SR-4	WT	09/28/05	F	CS	GF05090E26501		1.8		0.94	<	0.5	<	2.5		0.65		3.7		7.7
E265	Water below SR-4	WT	09/28/05	UF	CS	GU05090E26501		40.4		182	<	0.7		2.8		1.2		88.1		381
E267	Potrillo above SR-4	WT	09/28/05	F	CS	GF05090E26701		1.4	<	0.5	<	0.5	<	2.5	<	0.67		2.4	<	2
E267	Potrillo above SR-4	WT	09/28/05	UF	CS	GU05090E26701		14		24.9	<	0.5	<	2.5	<	0.58		38.7		79.1

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Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2 TSS mg/L		EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	18-MAR-2005	F	CS	GF05030M02601																		
E026	Los Alamos below Ice Rink	WM	18-MAR-2005	UF	CS	GU05030M02601				18.5		3.83		5.29		14.3	<	1.45		34.8		34.7	<	4
E026	Los Alamos below Ice Rink	WT	16-APR-2005	F	CS	GF05040E02601				12		3.15		3.08		12.7	<	1.45		27.6		27.6		
E026	Los Alamos below Ice Rink	WT	16-APR-2005	UF	CS	GU05040E02601				30.9		13.2		11.7		15.7								
E026	Los Alamos below Ice Rink	WT	17-APR-2005	F	CS	GF05040E02602				12.4		3.37		3.37		11.6	<	1.45		25.5		25.5		
E026	Los Alamos below Ice Rink	WT	17-APR-2005	UF	CS	GU05040E02602				20.3		9.68		7.58		13.7								
E030	Los Alamos above DP Canyon	WM	18-MAR-2005	F	CS	GF05030M03001																		
E030	Los Alamos above DP Canyon	WM	18-MAR-2005	UF	CS	GU05030M03001				22.9		4.3		6.02		38.3	<	1.45		43.3		43	<	4
E030	Los Alamos above DP Canyon	WT	12-AUG-2005	F	CS	GF05080E03001				7.32		3.98		1.24		16.2				27				
E030	Los Alamos above DP Canyon	WT	12-AUG-2005	UF	CS	GU05080E03001				53		12		10.6		11.8								
E030	Los Alamos above DP Canyon	WT	29-SEP-2005	F	CS	GF05090E03001				7.74		2.94		1.74		20				35.1				
E030	Los Alamos above DP Canyon	WT	29-SEP-2005	UF	CS	GU05090E03001				9.85		5.76		3.61		20								
E030	Los Alamos above DP Canyon	WT	19-OCT-2005	F	CS	GF05100E03001				13.8		3.93		3.25		31.5				57.1				
E030	Los Alamos above DP Canyon	WT	19-OCT-2005	UF	CS	GU05100E03001				23.5		9.19		7.22		41.7								
E038	DP above TA-21	WT	16-APR-2005	F	CS	GF05040E03801				10.3		3.46		0.676		16.3	<	1.45		39.3		39.3		
E038	DP above TA-21	WT	16-APR-2005	UF	CS	GU05040E03801				40.5		10.7		8.04		13.8								
E038	DP above TA-21	WT	24-APR-2005	F	CS	GF05040E03802				7.51		2.94		0.539		12.9								
E038	DP above TA-21	WT	24-APR-2005	UF	CS	GU05040E03802				17.7		9.51		4.28		20.9								
E038	DP above TA-21	WT	25-APR-2005	F	CS	GF05040E03803				12.6		3.59		1		24.3	<	1.45		42.5		42.4		
E038	DP above TA-21	WT	25-APR-2005	UF	CS	GU05040E03803				15.8		5.86		2.47		28.1								
E038	DP above TA-21	WT	01-MAY-2005	F	CS	GF05050E03801											<	1.45		31.9		31.8		
E038	DP above TA-21	WT	03-MAY-2005	F	CS	GF05050E03802				10.5		2.64		0.76		13.9								
E038	DP above TA-21	WT	03-MAY-2005	UF	CS	GU05050E03802				23.9		8.08		5.25		11.4								
E038	DP above TA-21	WT	05-AUG-2005	F	CS	GF05080E03801														32.4				
E039	DP below Meadow at TA-21	WT	03-MAY-2005	F	CS	GF05050E03901				7.53		2.26		0.651		14.4	<	1.45		38.3		38.2		
E039	DP below Meadow at TA-21	WT	03-MAY-2005	UF	CS	GU05050E03901				11		5.47		2.66		14.6								
E039	DP below Meadow at TA-21	WT	15-JUL-2005	F	CS	GF05070E03901				12.6		3.54		0.927		9.2				41				
E039	DP below Meadow at TA-21	WT	15-JUL-2005	UF	CS	GU05070E03901				29		13.7		9.47		12.2								
E039	DP below Meadow at TA-21	WT	04-AUG-2005	F	CS	GF05080E03901				7.57		3.07		0.662		5.1				18.4				
E039	DP below Meadow at TA-21	WT	04-AUG-2005	UF	CS	GU05080E03901				26		13.3		11.8		6.11								
E039	DP below Meadow at TA-21	WT	12-AUG-2005	F	CS	GF05080E03902				16.7		3.9		1.38		21.7				59.7				
E039	DP below Meadow at TA-21	WT	12-AUG-2005	UF	CS	GU05080E03902				18.2		5.3		2.11		22.6								
E040	DP above Los Alamos Canyon	WM	22-MAR-2005	F	CS	GF05030M04001																		
E040	DP above Los Alamos Canyon	WM	22-MAR-2005	UF	CS	GU05030M04001				59.1		13		5.68		194	<	1.45		46.4		46.1	<	4
E040	DP above Los Alamos Canyon	WT	03-MAY-2005	F	CS	GF05050E04001				12.2		4.75		1.1		38.8	<	1.45		42.5		42.4		
E040	DP above Los Alamos Canyon	WT	03-MAY-2005	UF	CS	GU05050E04001				17.6		11.1		5.98		23.9								
E040	DP above Los Alamos Canyon	WT	04-AUG-2005	F	CS	GF05080E04001				8.87		4.24		0.776		9.04				36.7				
E040	DP above Los Alamos Canyon	WT	04-AUG-2005	UF	CS	GU05080E04001				49.4		16.6		11.6		12.4								
E040	DP above Los Alamos Canyon	WT	11-AUG-2005	F	CS	GF05080E04002				9.65		4.73		0.897		16.2				27				
E040	DP above Los Alamos Canyon	WT	11-AUG-2005	UF	CS	GU05080E04002				43.5		22.9		16.7		26.4								
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	F	CS	GF05080E04004				11.2		4.67		1.11		22.8								
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	F	CS	GF05080E04005														33.8				
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	UF	CS	GU05080E04004				30.1		15.5		8.96		26.5								
E042	Los Alamos above SR-4	WM	18-MAR-2005	F	CS	GF05030M04201																		
E042	Los Alamos above SR-4	WM	18-MAR-2005	UF	CS	GU05030M04201				23		4.5		6.06		38.5	<	1.45		46.4		46.2	<	4
E042	Los Alamos above SR-4	WT	16-APR-2005	F	CS	GF05040E04201				14.6		4.33		3.73		20	<	1.45		31.9		31.8		
E042	Los Alamos above SR-4	WT	16-APR-2005	UF	CS	GU05040E04201				71		28.4		33		40.6								
E042	Los Alamos above SR-4	WT	03-MAY-2005	F	CS	GF05050E04201				12.9		3.65		3.25		24.6	<	1.45		41.5		41.4		
E042	Los Alamos above SR-4	WT	03-MAY-2005	UF	CS	GU05050E04201				28.3		11.1		7.89		30								
E042	Los Alamos above SR-4	WT	15-JUL-2005	F	CS	GF05070E04201				13		6.41		2.46		19.6	<	1.45		48.6				
E042	Los Alamos above SR-4	WT	15-JUL-2005	UF	CS	GU05070E04201				42.8		12.9		9.23		21.3								
E042	Los Alamos above SR-4	WT	04-AUG-2005	F	CS	GF05080E04201				9.25		4.95		1.17		10.4				27				
E042	Los Alamos above SR-4	WT	04-AUG-2005	UF	CS	GU05080E04201				53.5		25.5		22.7		16.2								
E042	Los Alamos above SR-4	WT	12-AUG-2005	F	CS	GF05080E04202				10.8		5.05		1.57		16.5				31.5				
E042	Los Alamos above SR-4	WT	12-AUG-2005	UF	CS	GU05080E04202				22.1		14.2		9.75		13.4								

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M) ClO4 ug/L		EPA:410.4 COD mg/L		EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	18-MAR-2005	F	CS	GF05030M02601						7.4				
E026	Los Alamos below Ice Rink	WM	18-MAR-2005	UF	CS	GU05030M02601		0.451								68
E026	Los Alamos below Ice Rink	WT	16-APR-2005	F	CS	GF05040E02601				9.57		8.48				42.6
E026	Los Alamos below Ice Rink	WT	16-APR-2005	UF	CS	GU05040E02601										125
E026	Los Alamos below Ice Rink	WT	17-APR-2005	F	CS	GF05040E02602				23.2		10.3				44.9
E026	Los Alamos below Ice Rink	WT	17-APR-2005	UF	CS	GU05040E02602										81.8
E030	Los Alamos above DP Canyon	WM	18-MAR-2005	F	CS	GF05030M03001						7.09				
E030	Los Alamos above DP Canyon	WM	18-MAR-2005	UF	CS	GU05030M03001		0.308								82.1
E030	Los Alamos above DP Canyon	WT	12-AUG-2005	F	CS	GF05080E03001						10.6				23.4
E030	Los Alamos above DP Canyon	WT	12-AUG-2005	UF	CS	GU05080E03001										176
E030	Los Alamos above DP Canyon	WT	29-SEP-2005	F	CS	GF05090E03001						9.47				26.5
E030	Los Alamos above DP Canyon	WT	29-SEP-2005	UF	CS	GU05090E03001										39.5
E030	Los Alamos above DP Canyon	WT	19-OCT-2005	F	CS	GF05100E03001						5.83				47.9
E030	Los Alamos above DP Canyon	WT	19-OCT-2005	UF	CS	GU05100E03001										88.5
E038	DP above TA-21	WT	16-APR-2005	F	CS	GF05040E03801						13				28.5
E038	DP above TA-21	WT	16-APR-2005	UF	CS	GU05040E03801										134
E038	DP above TA-21	WT	24-APR-2005	F	CS	GF05040E03802										21
E038	DP above TA-21	WT	24-APR-2005	UF	CS	GU05040E03802										61.7
E038	DP above TA-21	WT	25-APR-2005	F	CS	GF05040E03803						12.7				35.6
E038	DP above TA-21	WT	25-APR-2005	UF	CS	GU05040E03803										49.7
E038	DP above TA-21	WT	01-MAY-2005	F	CS	GF05050E03801										
E038	DP above TA-21	WT	03-MAY-2005	F	CS	GF05050E03802										29.4
E038	DP above TA-21	WT	03-MAY-2005	UF	CS	GU05050E03802										81.4
E038	DP above TA-21	WT	05-AUG-2005	F	CS	GF05080E03801						12.7				
E039	DP below Meadow at TA-21	WT	03-MAY-2005	F	CS	GF05050E03901										21.5
E039	DP below Meadow at TA-21	WT	03-MAY-2005	UF	CS	GU05050E03901										38.4
E039	DP below Meadow at TA-21	WT	15-JUL-2005	F	CS	GF05070E03901						22.1				35.3
E039	DP below Meadow at TA-21	WT	15-JUL-2005	UF	CS	GU05070E03901										112
E039	DP below Meadow at TA-21	WT	04-AUG-2005	F	CS	GF05080E03901						9.64				21.6
E039	DP below Meadow at TA-21	WT	04-AUG-2005	UF	CS	GU05080E03901										114
E039	DP below Meadow at TA-21	WT	12-AUG-2005	F	CS	GF05080E03902						8.48				47.4
E039	DP below Meadow at TA-21	WT	12-AUG-2005	UF	CS	GU05080E03902										54
E040	DP above Los Alamos Canyon	WM	22-MAR-2005	F	CS	GF05030M04001								3.42		
E040	DP above Los Alamos Canyon	WM	22-MAR-2005	UF	CS	GU05030M04001		0.184								171
E040	DP above Los Alamos Canyon	WT	03-MAY-2005	F	CS	GF05050E04001						11.7				34.9
E040	DP above Los Alamos Canyon	WT	03-MAY-2005	UF	CS	GU05050E04001										68.5
E040	DP above Los Alamos Canyon	WT	04-AUG-2005	F	CS	GF05080E04001						12.6				25.3
E040	DP above Los Alamos Canyon	WT	04-AUG-2005	UF	CS	GU05080E04001										171
E040	DP above Los Alamos Canyon	WT	11-AUG-2005	F	CS	GF05080E04002						9.78				27.8
E040	DP above Los Alamos Canyon	WT	11-AUG-2005	UF	CS	GU05080E04002										177
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	F	CS	GF05080E04004										32.5
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	F	CS	GF05080E04005						6.86				
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	UF	CS	GU05080E04004										112
E042	Los Alamos above SR-4	WM	18-MAR-2005	F	CS	GF05030M04201						6.32				
E042	Los Alamos above SR-4	WM	18-MAR-2005	UF	CS	GU05030M04201		0.315								82.5
E042	Los Alamos above SR-4	WT	16-APR-2005	F	CS	GF05040E04201						8.97				51.7
E042	Los Alamos above SR-4	WT	16-APR-2005	UF	CS	GU05040E04201										313
E042	Los Alamos above SR-4	WT	03-MAY-2005	F	CS	GF05050E04201						7.41				45.7
E042	Los Alamos above SR-4	WT	03-MAY-2005	UF	CS	GU05050E04201										103
E042	Los Alamos above SR-4	WT	15-JUL-2005	F	CS	GF05070E04201						21.8				42.7
E042	Los Alamos above SR-4	WT	15-JUL-2005	UF	CS	GU05070E04201										145
E042	Los Alamos above SR-4	WT	04-AUG-2005	F	CS	GF05080E04201						15.8				27.9
E042	Los Alamos above SR-4	WT	04-AUG-2005	UF	CS	GU05080E04201										227
E042	Los Alamos above SR-4	WT	12-AUG-2005	F	CS	GF05080E04202						17.1				33.4
E042	Los Alamos above SR-4	WT	12-AUG-2005	UF	CS	GU05080E04202										95.4

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
							TSS		Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
							mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WM	22-MAR-2005	F	CS	GF05030M05001																		
E050	Los Alamos below LA Weir	WM	22-MAR-2005	UF	CS	GU05030M05001				21.7		4.32		5.56		40	<	1.45		50.7		50.3	<	4
E050	Los Alamos below LA Weir	WT	24-APR-2005	F	CS	GF05040E05001				11.1		3.79		2.85		25.5	<	1.45		31.9		31.8		
E050	Los Alamos below LA Weir	WT	24-APR-2005	UF	CS	GU05040E05001				25.3		5.98		5.68		24.4								
E050	Los Alamos below LA Weir	WT	15-JUL-2005	F	CS	GF05070E05001				12.5		6.33		2.27		19.7	<	1.45		38.9				
E050	Los Alamos below LA Weir	WT	15-JUL-2005	UF	CS	GU05070E05001				30.8		9.35		5.61		20.2								
E050	Los Alamos below LA Weir	WT	12-AUG-2005	F	CS	GF05080E05001				6.63		4.39		0.963		11.2				37.2				
E050	Los Alamos below LA Weir	WT	12-AUG-2005	F	CS	GF05080E05002				7.83		4.43		1.92		15.3				29.3				
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	CS	GU05080E05001				21.3		13.5		7.25		21.8								
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	CS	GU05080E05002				11.7		8.75		4.52		17.3								
E055	Pueblo above Acid	WM	30-MAR-2005	F	CS	GF05030M05501																		
E055	Pueblo above Acid	WM	30-MAR-2005	UF	CS	GU05030M05501				24.8		5.36		4.48		47.7	<	1.45		59.1		58.7	<	4
E055	Pueblo above Acid	WT	03-MAY-2005	F	CS	GF05050E05501				12.9		3.19		1.52		19.7	<	1.45		44.6		44.4		
E055	Pueblo above Acid	WT	03-MAY-2005	UF	CS	GU05050E05501				55.6		19		18.7		19.6								
E055	Pueblo above Acid	WT	15-JUL-2005	F	CS	GF05070E05501				15.3		4.21		1.63		9.66				56.1				
E055	Pueblo above Acid	WT	15-JUL-2005	UF	CS	GU05070E05501				31		15.9		13.4		12.3								
E055	Pueblo above Acid	WT	12-AUG-2005	F	CS	GF05080E05501				18.4		4.69		2.19		19.5				76.6				
E055	Pueblo above Acid	WT	12-AUG-2005	UF	CS	GU05080E05501				38		13.1		9.28		20.1								
E055	Pueblo above Acid	WT	13-AUG-2005	F	CS	GF05080E05502				19.2		4.58		2.5		19.8								
E055	Pueblo above Acid	WT	13-AUG-2005	UF	CS	GU05080E05502				32.3		19		16.4		12.5								
E0555	South Fork of Acid Canyon	WT	15-JUL-2005	F	CS	GF0507E055501				9.53		4.31		0.846		10.1				25.9				
E0555	South Fork of Acid Canyon	WT	15-JUL-2005	UF	CS	GU0507E055501				35.3		16.4		13.6		19.8								
E0555	South Fork of Acid Canyon	WT	05-AUG-2005	F	CS	GF0508E055501				4.95		2.9		0.567		8.26				16.2				
E0555	South Fork of Acid Canyon	WT	05-AUG-2005	UF	CS	GU0508E055501				16		9.92		6.66		8.53								
E0555	South Fork of Acid Canyon	WT	12-AUG-2005	F	CS	GF0508E055502				4.31		2.47		0.701		8.88				16.9				
E0555	South Fork of Acid Canyon	WT	12-AUG-2005	UF	CS	GU0508E055502				7.63		6		2.98		12.5								
E0555	South Fork of Acid Canyon	WT	25-AUG-2005	F	CS	GF0508E055503				4.51		2.01		0.465		4.37				14				
E0555	South Fork of Acid Canyon	WT	25-AUG-2005	UF	CS	GU0508E055503				12.4		8.76		5.81		5.89								
E0555	South Fork of Acid Canyon	WT	28-SEP-2005	UF	CS	GU0509E055502				9.41		6.11		3.21		4.88								
E056	Acid above Pueblo	WT	12-AUG-2005	F	CS	GF05080E05601				4.52		2.33		0.595		7.57				22.5				
E056	Acid above Pueblo	WT	12-AUG-2005	UF	CS	GU05080E05601				9.35		4.99		2.19		9.14								
E056	Acid above Pueblo	WT	24-AUG-2005	F	CS	GF05080E05602				4.73		1.94		0.555		3.86				27				
E056	Acid above Pueblo	WT	24-AUG-2005	UF	CS	GU05080E05602				35.3		13.6		12		6.08								
E056	Acid above Pueblo	WT	28-SEP-2005	F	CS	GF05090E05601				4.18		1.98		0.473		4.17				12				
E056	Acid above Pueblo	WT	28-SEP-2005	UF	CS	GU05090E05601				10.4		6.87		3.52		6								
E060	Pueblo above SR-502	WT	12-AUG-2005	F	CS	GF05080E06001				25.2		32.8		5.46		49.1				64.2				
E060	Pueblo above SR-502	WT	12-AUG-2005	UF	CS	GU05080E06001				25.9		32.3		7.08		47.4								
E060	Pueblo above SR-502	WT	24-AUG-2005	F	CS	GF05080E06002				15.2		15.3		2.93		22.2				56.3				
E060	Pueblo above SR-502	WT	24-AUG-2005	UF	CS	GU05080E06002				22		19.7		8.19		25.9								
E060	Pueblo above SR-502	WT	25-AUG-2005	F	CS	GF05080E06003				29		14.6		5.48		57.6				117				
E060	Pueblo above SR-502	WT	25-AUG-2005	UF	CS	GU05080E06003				35.5		18.2		8.64		63								
E060	Pueblo above SR-502	WT	29-SEP-2005	F	CS	GF05090E06001																		
E060	Pueblo above SR-502	WT	29-SEP-2005	F	CS	GF05090E06002				16		12.1		3.24		27.1				62.2				
E060	Pueblo above SR-502	WT	29-SEP-2005	UF	CS	GU05090E06002				18.6		13.9		4.78		30.2								
E110	Los Alamos Canyon near Otowi Bridge	WM	20-APR-2005	F	CS	GF05030M11001																		
E110	Los Alamos Canyon near Otowi Bridge	WM	20-APR-2005	UF	CS	GU05030M11001				24.4		10.7		8.33		21.6				40.4			<	4
E121	Sandia right fork at Power Plant	WT	16-APR-2005	F	CS	GF05040E12101				7.45		5.42		0.988		33.4	<	1.45		35.1		35		
E121	Sandia right fork at Power Plant	WT	16-APR-2005	UF	CS	GU05040E12101				9.6		8.28		3.71		19.8								
E121	Sandia right fork at Power Plant	WT	15-JUL-2005	F	CS	GF05070E12101				7.16		3.43		0.761		9.3	<	1.45		20.5				
E121	Sandia right fork at Power Plant	WT	15-JUL-2005	UF	CS	GU05070E12101				23.1		4.61		3.07		7.78								
E121	Sandia right fork at Power Plant	WT	20-JUL-2005	F	CS	GF05070E12102				11.7		6.82		2.18		31				44.3				
E121	Sandia right fork at Power Plant	WT	20-JUL-2005	UF	CS	GU05070E12102				15.9		11.2		6.07		30.3								
E121	Sandia right fork at Power Plant	WT	04-AUG-2005	F	CS	GF05080E12101				7.1		3.4		0.88		13.5				30.2				
E121	Sandia right fork at Power Plant	WT	04-AUG-2005	UF	CS	GU05080E12101				16.8		10.2		7.99		10.5								
E123	Sandia below Wetlands	WT	24-APR-2005	F	CS	GF05040E12301				33.5		19		9.42		227		3.7		161		157		
E123	Sandia below Wetlands	WT	24-APR-2005	UF	CS	GU05040E12301				35.2		19.5		9.96		185								
E123	Sandia below Wetlands	WT	01-MAY-2005	F	CS	GF05050E12301				17.6		12.1		4.77		120								
E123	Sandia below Wetlands	WT	01-MAY-2005	UF	CS	GU05050E12301				15.2		11.1		4.16		104								
E123	Sandia below Wetlands	WT	03-MAY-2005	F	CS	GF05050E12302				15.7		10.7		4.37		87								

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M) ClO4 ug/L		EPA:410.4 COD mg/L		EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WM	22-MAR-2005	F	CS	GF05030M05001								6.8		
E050	Los Alamos below LA Weir	WM	22-MAR-2005	UF	CS	GU05030M05001		0.3								77
E050	Los Alamos below LA Weir	WT	24-APR-2005	F	CS	GF05040E05001						11.3				39.4
E050	Los Alamos below LA Weir	WT	24-APR-2005	UF	CS	GU05040E05001										86.4
E050	Los Alamos below LA Weir	WT	15-JUL-2005	F	CS	GF05070E05001						15.6				40.4
E050	Los Alamos below LA Weir	WT	15-JUL-2005	UF	CS	GU05070E05001										100
E050	Los Alamos below LA Weir	WT	12-AUG-2005	F	CS	GF05080E05001						12.7				20.5
E050	Los Alamos below LA Weir	WT	12-AUG-2005	F	CS	GF05080E05002						8.43				27.4
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	CS	GU05080E05001										83.1
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	CS	GU05080E05002										47.8
E055	Pueblo above Acid	WM	30-MAR-2005	F	CS	GF05030M05501								13		
E055	Pueblo above Acid	WM	30-MAR-2005	UF	CS	GU05030M05501		0.301								80.3
E055	Pueblo above Acid	WT	03-MAY-2005	F	CS	GF05050E05501						11.1				38.4
E055	Pueblo above Acid	WT	03-MAY-2005	UF	CS	GU05050E05501										216
E055	Pueblo above Acid	WT	15-JUL-2005	F	CS	GF05070E05501						18.8				45
E055	Pueblo above Acid	WT	15-JUL-2005	UF	CS	GU05070E05501										132
E055	Pueblo above Acid	WT	12-AUG-2005	F	CS	GF05080E05501						10.9				54.9
E055	Pueblo above Acid	WT	12-AUG-2005	UF	CS	GU05080E05501										133
E055	Pueblo above Acid	WT	13-AUG-2005	F	CS	GF05080E05502						13.1				58.2
E055	Pueblo above Acid	WT	13-AUG-2005	UF	CS	GU05080E05502										148
E0555	South Fork of Acid Canyon	WT	15-JUL-2005	F	CS	GF0507E055501										27.3
E0555	South Fork of Acid Canyon	WT	15-JUL-2005	UF	CS	GU0507E055501										144
E0555	South Fork of Acid Canyon	WT	05-AUG-2005	F	CS	GF0508E055501						16				14.7
E0555	South Fork of Acid Canyon	WT	05-AUG-2005	UF	CS	GU0508E055501										67.4
E0555	South Fork of Acid Canyon	WT	12-AUG-2005	F	CS	GF0508E055502										13.7
E0555	South Fork of Acid Canyon	WT	12-AUG-2005	UF	CS	GU0508E055502										31.3
E0555	South Fork of Acid Canyon	WT	25-AUG-2005	F	CS	GF0508E055503						8.7				13.2
E0555	South Fork of Acid Canyon	WT	25-AUG-2005	UF	CS	GU0508E055503										54.9
E0555	South Fork of Acid Canyon	WT	28-SEP-2005	UF	CS	GU0509E055502										36.7
E056	Acid above Pueblo	WT	12-AUG-2005	F	CS	GF05080E05601										13.7
E056	Acid above Pueblo	WT	12-AUG-2005	UF	CS	GU05080E05601										32.4
E056	Acid above Pueblo	WT	24-AUG-2005	F	CS	GF05080E05602										14.1
E056	Acid above Pueblo	WT	24-AUG-2005	UF	CS	GU05080E05602										137
E056	Acid above Pueblo	WT	28-SEP-2005	F	CS	GF05090E05601										12.4
E056	Acid above Pueblo	WT	28-SEP-2005	UF	CS	GU05090E05601										40.4
E060	Pueblo above SR-502	WT	12-AUG-2005	F	CS	GF05080E06001						34				85.4
E060	Pueblo above SR-502	WT	12-AUG-2005	UF	CS	GU05080E06001										93.9
E060	Pueblo above SR-502	WT	24-AUG-2005	F	CS	GF05080E06002										50.1
E060	Pueblo above SR-502	WT	24-AUG-2005	UF	CS	GU05080E06002										88.7
E060	Pueblo above SR-502	WT	25-AUG-2005	F	CS	GF05080E06003										95.1
E060	Pueblo above SR-502	WT	25-AUG-2005	UF	CS	GU05080E06003										124
E060	Pueblo above SR-502	WT	29-SEP-2005	F	CS	GF05090E06001						19.2				
E060	Pueblo above SR-502	WT	29-SEP-2005	F	CS	GF05090E06002						13.3				53.3
E060	Pueblo above SR-502	WT	29-SEP-2005	UF	CS	GU05090E06002										66
E110	Los Alamos Canyon near Otowi Bridge	WM	20-APR-2005	F	CS	GF05030M11001				7.3		8.24				
E110	Los Alamos Canyon near Otowi Bridge	WM	20-APR-2005	UF	CS	GU05030M11001		0.517								95.1
E121	Sandia right fork at Power Plant	WT	16-APR-2005	F	CS	GF05040E12101						12.3				22.7
E121	Sandia right fork at Power Plant	WT	16-APR-2005	UF	CS	GU05040E12101										39.3
E121	Sandia right fork at Power Plant	WT	15-JUL-2005	F	CS	GF05070E12101						6.84				21
E121	Sandia right fork at Power Plant	WT	15-JUL-2005	UF	CS	GU05070E12101										70.4
E121	Sandia right fork at Power Plant	WT	20-JUL-2005	F	CS	GF05070E12102						11.8				38.2
E121	Sandia right fork at Power Plant	WT	20-JUL-2005	UF	CS	GU05070E12102										64.7
E121	Sandia right fork at Power Plant	WT	04-AUG-2005	F	CS	GF05080E12101						8.35				21.3
E121	Sandia right fork at Power Plant	WT	04-AUG-2005	UF	CS	GU05080E12101										74.9
E123	Sandia below Wetlands	WT	24-APR-2005	F	CS	GF05040E12301						7.67				122
E123	Sandia below Wetlands	WT	24-APR-2005	UF	CS	GU05040E12301										129
E123	Sandia below Wetlands	WT	01-MAY-2005	F	CS	GF05050E12301						13.1				63.5
E123	Sandia below Wetlands	WT	01-MAY-2005	UF	CS	GU05050E12301										55.1
E123	Sandia below Wetlands	WT	03-MAY-2005	F	CS	GF05050E12302										57.1

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
							TSS		Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
							mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E123	Sandia below Wetlands	WT	03-MAY-2005	UF	CS	GU05050E12302				19.2		12.8		6.06		92.7								
E123	Sandia below Wetlands	WT	15-JUL-2005	F	CS	GF05070E12301				13.9		5.34		1.49		17.1				39.9				
E123	Sandia below Wetlands	WT	15-JUL-2005	UF	CS	GU05070E12301				33		18.9		16		20.2								
E123	Sandia below Wetlands	WT	20-JUL-2005	F	CS	GF05070E12302														57.2				
E124	Sandia above Firing Range	WT	03-MAY-2005	F	CS	GF05050E12401				19.3		12.4		5.04		123	<	1.45		91.4		90.8		
E124	Sandia above Firing Range	WT	03-MAY-2005	UF	CS	GU05050E12401				27.2		18.4		10.1		125								
E124	Sandia above Firing Range	WT	15-JUL-2005	F	CS	GF05070E12401				13.2		9.9		3.02		38.3	<	1.45		61.5				
E124	Sandia above Firing Range	WT	15-JUL-2005	UF	CS	GU05070E12401				63.8		15.6		11.8		33								
E124	Sandia above Firing Range	WT	20-JUL-2005	F	CS	GF05070E12402				22.1		15.6		5.42		96.3				141				
E124	Sandia above Firing Range	WT	20-JUL-2005	UF	CS	GU05070E12402				25.2		16.5		6.42		94								
E124	Sandia above Firing Range	WT	04-AUG-2005	F	CS	GF05080E12401				17.9		14.2		4.61		69.3				103				
E124	Sandia above Firing Range	WT	04-AUG-2005	UF	CS	GU05080E12401				31.4		24.3		14.7		76.1								
E125	Sandia above SR-4	WT	29-SEP-2005	F	CS	GF05090E12501				23.2		21.8		14.6		21.7				32.1				
E125	Sandia above SR-4	WT	29-SEP-2005	UF	CS	GU05090E12501				22.8		21.9		14.7		21								
E200	Mortandad below Effluent Canyon	WT	24-APR-2005	F	CS	GF05040E20001				5.36		4.6		0.973		12.2	<	1.45		31.9		31.8	<	4
E200	Mortandad below Effluent Canyon	WT	24-APR-2005	UF	CS	GU05040E20001				13.9		13.7		6.66		15.9								
E200	Mortandad below Effluent Canyon	WT	03-MAY-2005	F	CS	GF05050E20001				4.96		4.01		0.813		13.2		4.39		112		107	<	4
E200	Mortandad below Effluent Canyon	WT	03-MAY-2005	UF	CS	GU05050E20001				10.6		11.3		5.21		12.5								
E200	Mortandad below Effluent Canyon	WT	15-JUL-2005	F	CS	GF05070E20001				10.5		3.76		1.25		9.37	<	1.45		37.8				
E200	Mortandad below Effluent Canyon	WT	15-JUL-2005	UF	CS	GU05070E20001				42		8.53		7.6		8.5								
E200	Mortandad below Effluent Canyon	WT	20-JUL-2005	F	CS	GF05070E20002				7.69		5.47		1.14		17.1				39.9			<	4
E200	Mortandad below Effluent Canyon	WT	20-JUL-2005	UF	CS	GU05070E20002				17.2		13.9		7.82		20.5								
E201	Mortandad above Ten Site	WT	29-SEP-2005	F	CS	GF05090E20101				9.04		4.75		1.32		20.9				46.1			<	4
E201	Mortandad above Ten Site	WT	29-SEP-2005	UF	CS	GU05090E20101				14.5		11.2		4.59		23.8								
E201	Mortandad above Ten Site	WT	30-SEP-2005	F	CS	GF05090E20102				8.37		4.64		1.31		20.8				45.1			<	4
E201	Mortandad above Ten Site	WT	30-SEP-2005	UF	CS	GU05090E20102				16.3		10.4		4.5		22.7								
E201.3	Ten Site below MDA C	WT	12-AUG-2005	UF	CS	GU0508E201301				7.27		5.65		2.47		4.3								
E201.3	Ten Site below MDA C	WT	22-AUG-2005	F	CS	GF0508E201301				5.04		2.62		0.48		3.24				12.4				
E201.3	Ten Site below MDA C	WT	24-AUG-2005	F	CS	GF0508E201302				3.21		3.07		0.348		2.83				21.4				
E201.3	Ten Site below MDA C	WT	24-AUG-2005	UF	CS	GU0508E201303				14.2		10.9		6.53		4.02								
E201.3	Ten Site below MDA C	WT	25-AUG-2005	F	CS	GF0508E201303				6.3		4.79		0.484		5.19								
E201.3	Ten Site below MDA C	WT	25-AUG-2005	UF	CS	GU0508E201304				10.4		9.32		3.42		6.36								
E201.3	Ten Site below MDA C	WT	22-SEP-2005	F	CS	GF0509E201301				6.86		4.04		0.508		3.36								
E201.3	Ten Site below MDA C	WT	22-SEP-2005	UF	CS	GU0509E201301				9.31		7.09		2.2		4.33								
E201.3	Ten Site below MDA C	WT	28-SEP-2005	F	CS	GF0509E201302																		
E201.5	Ten Site above Mortandad	WT	24-AUG-2005	F	CS	GF0508E201501				4.43		4.47		0.934		2.33				7.89				
E201.5	Ten Site above Mortandad	WT	24-AUG-2005	UF	CS	GU0508E201501				23.5		18.8		11.7		6.96								
E201.5	Ten Site above Mortandad	WT	25-AUG-2005	F	CS	GF0508E201502				8.25		4.84		1.7		6.3								
E201.5	Ten Site above Mortandad	WT	25-AUG-2005	UF	CS	GU0508E201502				23.7		16.1		11.3		9.82								
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	F	CS	GF0509E201501				5.18		3.9		1.15		4.09								
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	F	CS	GF0509E201502				6.93		4		1.51		4.95								
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	CS	GU0509E201501				8.62		8.71		3.86		6.12								
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	CS	GU0509E201502				8.11		5.49		2.45		5.52								
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	F	CS	GF05090E20201				7.07		4.47		1.03		12								
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	F	CS	GF05090E20202				7.33		4.47		1.2		15								
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	CS	GU05090E20201				9.2		7.55		2.64		13.1								
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	CS	GU05090E20202				12.5		9.63		4.13		17.1								
E218	Canada del Buey near TA-46	WT	15-JUL-2005	F	CS	GF05070E21801				17.4		3.61		5.81		15.8								
E218	Canada del Buey near TA-46	WT	15-JUL-2005	UF	CS	GU05070E21801				14.1		4.3		4.88		14.6								
E218	Canada del Buey near TA-46	WT	20-JUL-2005	F	CS	GF05070E21802				12		2.45		4.6		13.5				69.1				
E218	Canada del Buey near TA-46	WT	20-JUL-2005	UF	CS	GU05070E21802				12.4		2.71		4.78		13.7								
E218	Canada del Buey near TA-46	WT	24-AUG-2005	F	CS	GF05080E21801														9.01				
E227	MDA G-13	WT	17-JUL-2005	F	CS	GF05070E22701				15.6		5.84		3.77		6.57	<	1.45		48.6				
E227	MDA G-13	WT	17-JUL-2005	UF	CS	GU05070E22701				34.3		8.38		11		7.27								
E227	MDA G-13	WT	12-AUG-2005	F	CS	GF05080E22701				8.34		2.41		1.9		2.42				29.3				
E227	MDA G-13	WT	12-AUG-2005	UF	CS	GU05080E22701				12		7.02		6.92		4.39								
E227	MDA G-13	WT	13-AUG-2005	F	CS	GF05080E22702				9.55		2.9		2.02		2.27								
E227	MDA G-13	WT	13-AUG-2005	UF	CS	GU05080E22702				36.3		15.8		19.5		6.53								
E227	MDA G-13	WT	28-SEP-2005	F	CS	GF05100E22701																		

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M)		EPA:410.4		EPA:415.1		EPA:415.1		SM:A2340B	
							ClO4		COD		DOC		TOC		Hardness	
							ug/L		mg/L		mg/L		mg/L		mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E123	Sandia below Wetlands	WT	03-MAY-2005	UF	CS	GU05050E12302										73
E123	Sandia below Wetlands	WT	15-JUL-2005	F	CS	GF05070E12301						10.1				40.8
E123	Sandia below Wetlands	WT	15-JUL-2005	UF	CS	GU05070E12301										149
E123	Sandia below Wetlands	WT	20-JUL-2005	F	CS	GF05070E12302						17.8				
E124	Sandia above Firing Range	WT	03-MAY-2005	F	CS	GF05050E12401						7.98				68.9
E124	Sandia above Firing Range	WT	03-MAY-2005	UF	CS	GU05050E12401										109
E124	Sandia above Firing Range	WT	15-JUL-2005	F	CS	GF05070E12401										45.4
E124	Sandia above Firing Range	WT	15-JUL-2005	UF	CS	GU05070E12401										208
E124	Sandia above Firing Range	WT	20-JUL-2005	F	CS	GF05070E12402						11.2				77.4
E124	Sandia above Firing Range	WT	20-JUL-2005	UF	CS	GU05070E12402										89.4
E124	Sandia above Firing Range	WT	04-AUG-2005	F	CS	GF05080E12401						17.1				63.7
E124	Sandia above Firing Range	WT	04-AUG-2005	UF	CS	GU05080E12401										139
E125	Sandia above SR-4	WT	29-SEP-2005	F	CS	GF05090E12501										118
E125	Sandia above SR-4	WT	29-SEP-2005	UF	CS	GU05090E12501										117
E200	Mortandad below Effluent Canyon	WT	24-APR-2005	F	CS	GF05040E20001		0.223				6.14				17.4
E200	Mortandad below Effluent Canyon	WT	24-APR-2005	UF	CS	GU05040E20001										62.2
E200	Mortandad below Effluent Canyon	WT	03-MAY-2005	F	CS	GF05050E20001		0.225				5.33				15.7
E200	Mortandad below Effluent Canyon	WT	03-MAY-2005	UF	CS	GU05050E20001										48
E200	Mortandad below Effluent Canyon	WT	15-JUL-2005	F	CS	GF05070E20001						9.89				31.5
E200	Mortandad below Effluent Canyon	WT	15-JUL-2005	UF	CS	GU05070E20001										136
E200	Mortandad below Effluent Canyon	WT	20-JUL-2005	F	CS	GF05070E20002		0.214				22.7				23.9
E200	Mortandad below Effluent Canyon	WT	20-JUL-2005	UF	CS	GU05070E20002										75.1
E201	Mortandad above Ten Site	WT	29-SEP-2005	F	CS	GF05090E20101		2.84				12.8				28
E201	Mortandad above Ten Site	WT	29-SEP-2005	UF	CS	GU05090E20101										55.1
E201	Mortandad above Ten Site	WT	30-SEP-2005	F	CS	GF05090E20102		2.42				12.2				26.3
E201	Mortandad above Ten Site	WT	30-SEP-2005	UF	CS	GU05090E20102										59.2
E201.3	Ten Site below MDA C	WT	12-AUG-2005	UF	CS	GU0508E201301										28.3
E201.3	Ten Site below MDA C	WT	22-AUG-2005	F	CS	GF0508E201301						7.73				14.5
E201.3	Ten Site below MDA C	WT	24-AUG-2005	F	CS	GF0508E201302										9.4
E201.3	Ten Site below MDA C	WT	24-AUG-2005	UF	CS	GU0508E201303										62.3
E201.3	Ten Site below MDA C	WT	25-AUG-2005	F	CS	GF0508E201303						8.63				17.7
E201.3	Ten Site below MDA C	WT	25-AUG-2005	UF	CS	GU0508E201304										40.1
E201.3	Ten Site below MDA C	WT	22-SEP-2005	F	CS	GF0509E201301										19.2
E201.3	Ten Site below MDA C	WT	22-SEP-2005	UF	CS	GU0509E201301										32.3
E201.3	Ten Site below MDA C	WT	28-SEP-2005	F	CS	GF0509E201302						6.8				
E201.5	Ten Site above Mortandad	WT	24-AUG-2005	F	CS	GF0508E201501						15.3				14.9
E201.5	Ten Site above Mortandad	WT	24-AUG-2005	UF	CS	GU0508E201501										107
E201.5	Ten Site above Mortandad	WT	25-AUG-2005	F	CS	GF0508E201502										27.6
E201.5	Ten Site above Mortandad	WT	25-AUG-2005	UF	CS	GU0508E201502										106
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	F	CS	GF0509E201501										17.7
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	F	CS	GF0509E201502										23.5
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	CS	GU0509E201501										37.4
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	CS	GU0509E201502										30.3
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	F	CS	GF05090E20201										21.9
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	F	CS	GF05090E20202										23.2
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	CS	GU05090E20201										33.8
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	CS	GU05090E20202										48.3
E218	Canada del Buey near TA-46	WT	15-JUL-2005	F	CS	GF05070E21801										67.4
E218	Canada del Buey near TA-46	WT	15-JUL-2005	UF	CS	GU05070E21801										55.4
E218	Canada del Buey near TA-46	WT	20-JUL-2005	F	CS	GF05070E21802										48.9
E218	Canada del Buey near TA-46	WT	20-JUL-2005	UF	CS	GU05070E21802										50.7
E218	Canada del Buey near TA-46	WT	24-AUG-2005	F	CS	GF05080E21801						14				
E227	MDA G-13	WT	17-JUL-2005	F	CS	GF05070E22701						17.6				54.5
E227	MDA G-13	WT	17-JUL-2005	UF	CS	GU05070E22701										131
E227	MDA G-13	WT	12-AUG-2005	F	CS	GF05080E22701										28.7
E227	MDA G-13	WT	12-AUG-2005	UF	CS	GU05080E22701										58.4
E227	MDA G-13	WT	13-AUG-2005	F	CS	GF05080E22702										32.2
E227	MDA G-13	WT	13-AUG-2005	UF	CS	GU05080E22702										171
E227	MDA G-13	WT	28-SEP-2005	F	CS	GF05100E22701						10.7				

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
							TSS		Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
							mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E227	MDA G-13	WT	09-OCT-2005	F	CS	GF05100E22702				6.23		2.43		1.73		2.6								
E227	MDA G-13	WT	09-OCT-2005	UF	CS	GU05100E22702				47		18.5		25.4		6.47								
E230	Canada del Buey above SR-4	WT	28-SEP-2005	F	CS	GF05090E23001				16.2		3.92		1.49		2.07								
E230	Canada del Buey above SR-4	WT	28-SEP-2005	UF	CS	GU05090E23001				134		60.8		58.7		4.48								
E230	Canada del Buey above SR-4	WT	20-OCT-2005	F	CS	GF05100E23001														27.1				

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M) ClO4 ug/L		EPA:410.4 COD mg/L		EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E227	MDA G-13	WT	09-OCT-2005	F	CS	GF05100E22702										22.7
E227	MDA G-13	WT	09-OCT-2005	UF	CS	GU05100E22702										222
E230	Canada del Buey above SR-4	WT	28-SEP-2005	F	CS	GF05090E23001										46.6
E230	Canada del Buey above SR-4	WT	28-SEP-2005	UF	CS	GU05090E23001										576
E230	Canada del Buey above SR-4	WT	20-OCT-2005	F	CS	GF05100E23001										

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2 TSS mg/L		EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E240	Pajarito below SR-501	WM	23-MAR-2005	F	CS	GF05030M24001																		
E240	Pajarito below SR-501	WM	23-MAR-2005	UF	CS	GU05030M24001				12.4		2.36		3.39		6.18	<	1.45		26.4		26.3	<	4
E240	Pajarito below SR-501	WT	11-AUG-2005	F	CS	GF05080E24001				2.97		2.41		0.761		3.99								
E240	Pajarito below SR-501	WT	11-AUG-2005	UF	CS	GU05080E24001				39.3		9.71		11.4		4.9								
E240	Pajarito below SR-501	WT	12-AUG-2005	F	CS	GF05080E24002				5.29		4.04		1.86		14.1								
E240	Pajarito below SR-501	WT	12-AUG-2005	UF	CS	GU05080E24002				9.17		8.18		5.43		14.9								
E240	Pajarito below SR-501	WT	24-AUG-2005	F	CS	GF05080E24003														7.89				
E241	Pajarito above Starmers	WM	24-MAR-2005	F	CS	GF05030M24101																		
E241	Pajarito above Starmers	WM	24-MAR-2005	UF	CS	GU05030M24101				12.6		2.8		4.17		9.49	<	1.45		29.6		29.4	<	4
E241	Pajarito above Starmers	WT	15-JUL-2005	F	CS	GF05070E24101				9.63		3.71		2.02		6.25				38.9				
E241	Pajarito above Starmers	WT	15-JUL-2005	UF	CS	GU05070E24101				32.2		10.4		8.19		10.8								
E241	Pajarito above Starmers	WT	04-AUG-2005	F	CS	GF05080E24101				6.64		3.22		1.61		6.61				20.5				
E241	Pajarito above Starmers	WT	04-AUG-2005	UF	CS	GU05080E24101				67		16.7		18.5		7.87								
E241	Pajarito above Starmers	WT	06-AUG-2005	F	CS	GF05080E24102				6.14		2.76		1.4		4.19				23.7				
E241	Pajarito above Starmers	WT	06-AUG-2005	UF	CS	GU05080E24102				23.5		7.41		5.21		3.97								
E241	Pajarito above Starmers	WT	22-AUG-2005	F	CS	GF05080E24103				8.23		2.41		2.14		7.95				25.9				
E241	Pajarito above Starmers	WT	22-AUG-2005	UF	CS	GU05080E24103				31.3		6.08		7.06		8.97								
E242	Starmers above Pajarito	WM	24-MAR-2005	F	CS	GF05030M24201																		
E242	Starmers above Pajarito	WM	24-MAR-2005	UF	CS	GU05030M24201				13.5		3.11		4.22		12.9	<	1.45		29.6		29.4	<	4
E242	Starmers above Pajarito	WT	15-JUL-2005	F	CS	GF05070E24201				6.28		3.96		1.34		4.96				19.4				
E242	Starmers above Pajarito	WT	15-JUL-2005	UF	CS	GU05070E24201				36.5		13.9		12		5.28								
E242.5	La Delfe above Pajarito	WM	24-MAR-2005	F	CS	GF0503M242501																		
E242.5	La Delfe above Pajarito	WM	24-MAR-2005	UF	CS	GU0503M242501				15.4		3.41		4.73		16.5	<	1.45		43.3		43	<	4
E242.5	La Delfe above Pajarito	WT	15-JUL-2005	F	CS	GF0507E242501				9.09		5.77		2.26		6.02				31.3				
E242.5	La Delfe above Pajarito	WT	15-JUL-2005	UF	CS	GU0507E242501				22.8		10.9		6.21		7.21								
E242.5	La Delfe above Pajarito	WT	04-AUG-2005	F	CS	GF0508E242501				7.74		4.51		2.02		6.82				22.7				
E242.5	La Delfe above Pajarito	WT	04-AUG-2005	UF	CS	GU0508E242501				14.7		9.41		5.81		8.52								
E242.5	La Delfe above Pajarito	WT	06-AUG-2005	F	CS	GF0508E242502				7.07		3.9		1.94		6.66				24.8				
E242.5	La Delfe above Pajarito	WT	06-AUG-2005	UF	CS	GU0508E242502				5.79		4.79		2.03		4.75								
E242.5	La Delfe above Pajarito	WT	12-AUG-2005	F	CS	GF0508E242503				4.75		3.39		1.28		4.16				19.2				
E242.5	La Delfe above Pajarito	WT	12-AUG-2005	UF	CS	GU0508E242503				15.1		12		8.64		6.68								
E243	Pajarito above Twomile	WM	22-MAR-2005	F	CS	GF05030M24301																		
E243	Pajarito above Twomile	WM	22-MAR-2005	UF	CS	GU05030M24301				15.4		3.69		5.24		14.7	<	1.45		34.8		34.7	<	4
E243	Pajarito above Twomile	WT	15-JUL-2005	F	CS	GF05070E24301				8.81		4.06		2.09		5.51	<	1.45		29.1				
E243	Pajarito above Twomile	WT	15-JUL-2005	UF	CS	GU05070E24301				62.4		9.87		10.4		6.33								
E243	Pajarito above Twomile	WT	12-AUG-2005	F	CS	GF05080E24301				5.33		3.19		1.38		5.81				21.4				
E243	Pajarito above Twomile	WT	24-AUG-2005	F	CS	GF05080E24302				6.14		3.31		1.71		2.91				22.5				
E243	Pajarito above Twomile	WT	24-AUG-2005	UF	CS	GU05080E24302				118		46.3		55.3		7.3								
E243.5	Twomile tributary at TA-3	WT	16-APR-2005	F	CS	GF0504E243501				59.8		62		5.37		2650	<	1.45		11.7		11.7		
E243.5	Twomile tributary at TA-3	WT	16-APR-2005	UF	CS	GU0504E243501				8.6		8.38		1.09		202								
E243.5	Twomile tributary at TA-3	WT	24-APR-2005	F	CS	GF0504E243502				6.7		1.66		0.481		13	<	1.45		15.9		15.9		
E243.5	Twomile tributary at TA-3	WT	24-APR-2005	UF	CS	GU0504E243502				6.63		1.72		0.652		11.6								
E243.5	Twomile tributary at TA-3	WT	27-MAY-2005	F	CS	GF0505E243501				8.66		2.36		0.579		8.47	<	1.45		10.7		10.7		
E243.5	Twomile tributary at TA-3	WT	27-MAY-2005	UF	CS	GU0505E243502				12.3		4.45		2.01		11								
E243.5	Twomile tributary at TA-3	WT	11-JUN-2005	F	CS	GF0506E243501				8.88		2.63		0.636		6.49				15.9				
E243.5	Twomile tributary at TA-3	WT	11-JUN-2005	UF	CS	GU0506E243501				8.03		2.69		0.715		6.61								
E244	Twomile above Pajarito	WM	22-MAR-2005	F	CS	GF05030M24401																		
E244	Twomile above Pajarito	WM	22-MAR-2005	UF	CS	GU05030M24401				21.1		3.71		5.58		52.2	<	1.45		29.6		29.5	<	4
E244	Twomile above Pajarito	WT	15-JUL-2005	F	CS	GF05070E24401				9.12		4.71		1.62		9.97	<	1.45		29.1				
E244	Twomile above Pajarito	WT	15-JUL-2005	UF	CS	GU05070E24401				89.3		12.4		12		11.4								
E244	Twomile above Pajarito	WT	22-AUG-2005	F	CS	GF05080E24401				3.96		2.37		0.873		7.5				15.8				
E244	Twomile above Pajarito	WT	22-AUG-2005	UF	CS	GU05080E24401				35.5		23.9		21		12.5								
E244	Twomile above Pajarito	WT	24-AUG-2005	F	CS	GF05080E24402				4.81		3.53		1.26		6.21								
E244	Twomile above Pajarito	WT	24-AUG-2005	UF	CS	GU05080E24402				125		58.1		62.8		13.9								
E244	Twomile above Pajarito	WT	28-SEP-2005	F	CS	GF05100E24401																		
E244	Twomile above Pajarito	WT	28-SEP-2005	UF	CS	GU05100E24401				11.4		9.47		6.49		13.5								

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M)		EPA:410.4		EPA:415.1		EPA:415.1		SM:A2340B	
							ClO4		COD		DOC		TOC		Hardness	
							ug/L		mg/L		mg/L		mg/L		mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E240	Pajarito below SR-501	WM	23-MAR-2005	F	CS	GF05030M24001								11.3		
E240	Pajarito below SR-501	WM	23-MAR-2005	UF	CS	GU05030M24001		0.48								44.9
E240	Pajarito below SR-501	WT	11-AUG-2005	F	CS	GF05080E24001										10.6
E240	Pajarito below SR-501	WT	11-AUG-2005	UF	CS	GU05080E24001										145
E240	Pajarito below SR-501	WT	12-AUG-2005	F	CS	GF05080E24002										20.9
E240	Pajarito below SR-501	WT	12-AUG-2005	UF	CS	GU05080E24002										45.2
E240	Pajarito below SR-501	WT	24-AUG-2005	F	CS	GF05080E24003						9.08				
E241	Pajarito above Starmers	WM	24-MAR-2005	F	CS	GF05030M24101								9.44		
E241	Pajarito above Starmers	WM	24-MAR-2005	UF	CS	GU05030M24101		0.365								48.7
E241	Pajarito above Starmers	WT	15-JUL-2005	F	CS	GF05070E24101						18.4				32.4
E241	Pajarito above Starmers	WT	15-JUL-2005	UF	CS	GU05070E24101										114
E241	Pajarito above Starmers	WT	04-AUG-2005	F	CS	GF05080E24101						12.7				23.2
E241	Pajarito above Starmers	WT	04-AUG-2005	UF	CS	GU05080E24101										244
E241	Pajarito above Starmers	WT	06-AUG-2005	F	CS	GF05080E24102						11.5				21.1
E241	Pajarito above Starmers	WT	06-AUG-2005	UF	CS	GU05080E24102										80.2
E241	Pajarito above Starmers	WT	22-AUG-2005	F	CS	GF05080E24103						9.17				29.3
E241	Pajarito above Starmers	WT	22-AUG-2005	UF	CS	GU05080E24103										107
E242	Starmers above Pajarito	WM	24-MAR-2005	F	CS	GF05030M24201								9.76		
E242	Starmers above Pajarito	WM	24-MAR-2005	UF	CS	GU05030M24201		0.431								51.2
E242	Starmers above Pajarito	WT	15-JUL-2005	F	CS	GF05070E24201						24.2				21.2
E242	Starmers above Pajarito	WT	15-JUL-2005	UF	CS	GU05070E24201										141
E242.5	La Delfe above Pajarito	WM	24-MAR-2005	F	CS	GF0503M242501								10.3		
E242.5	La Delfe above Pajarito	WM	24-MAR-2005	UF	CS	GU0503M242501		0.624								57.9
E242.5	La Delfe above Pajarito	WT	15-JUL-2005	F	CS	GF0507E242501						25.9				32
E242.5	La Delfe above Pajarito	WT	15-JUL-2005	UF	CS	GU0507E242501										82.6
E242.5	La Delfe above Pajarito	WT	04-AUG-2005	F	CS	GF0508E242501						20.7				27.6
E242.5	La Delfe above Pajarito	WT	04-AUG-2005	UF	CS	GU0508E242501										60.6
E242.5	La Delfe above Pajarito	WT	06-AUG-2005	F	CS	GF0508E242502						18.2				25.6
E242.5	La Delfe above Pajarito	WT	06-AUG-2005	UF	CS	GU0508E242502										22.8
E242.5	La Delfe above Pajarito	WT	12-AUG-2005	F	CS	GF0508E242503						10.2				17.1
E242.5	La Delfe above Pajarito	WT	12-AUG-2005	UF	CS	GU0508E242503										73.2
E243	Pajarito above Twomile	WM	22-MAR-2005	F	CS	GF05030M24301								10.1		
E243	Pajarito above Twomile	WM	22-MAR-2005	UF	CS	GU05030M24301		0.41								59.9
E243	Pajarito above Twomile	WT	15-JUL-2005	F	CS	GF05070E24301										30.6
E243	Pajarito above Twomile	WT	15-JUL-2005	UF	CS	GU05070E24301										199
E243	Pajarito above Twomile	WT	12-AUG-2005	F	CS	GF05080E24301						14				19
E243	Pajarito above Twomile	WT	24-AUG-2005	F	CS	GF05080E24302										22.4
E243	Pajarito above Twomile	WT	24-AUG-2005	UF	CS	GU05080E24302										523
E243.5	Twomile tributary at TA-3	WT	16-APR-2005	F	CS	GF0504E243501						1.1				171
E243.5	Twomile tributary at TA-3	WT	16-APR-2005	UF	CS	GU0504E243501										26
E243.5	Twomile tributary at TA-3	WT	24-APR-2005	F	CS	GF0504E243502						33.7				18.7
E243.5	Twomile tributary at TA-3	WT	24-APR-2005	UF	CS	GU0504E243502										19.2
E243.5	Twomile tributary at TA-3	WT	27-MAY-2005	F	CS	GF0505E243501						66.5				22.7
E243.5	Twomile tributary at TA-3	WT	27-MAY-2005	UF	CS	GU0505E243502										41
E243.5	Twomile tributary at TA-3	WT	11-JUN-2005	F	CS	GF0506E243501						45.8				24.7
E243.5	Twomile tributary at TA-3	WT	11-JUN-2005	UF	CS	GU0506E243501										23.1
E244	Twomile above Pajarito	WM	22-MAR-2005	F	CS	GF05030M24401								6.9		
E244	Twomile above Pajarito	WM	22-MAR-2005	UF	CS	GU05030M24401		0.288								75.7
E244	Twomile above Pajarito	WT	15-JUL-2005	F	CS	GF05070E24401						17				29.4
E244	Twomile above Pajarito	WT	15-JUL-2005	UF	CS	GU05070E24401										273
E244	Twomile above Pajarito	WT	22-AUG-2005	F	CS	GF05080E24401										13.5
E244	Twomile above Pajarito	WT	22-AUG-2005	UF	CS	GU05080E24401										175
E244	Twomile above Pajarito	WT	24-AUG-2005	F	CS	GF05080E24402						10.5				17.2
E244	Twomile above Pajarito	WT	24-AUG-2005	UF	CS	GU05080E24402										571
E244	Twomile above Pajarito	WT	28-SEP-2005	F	CS	GF05100E24401						9.83				
E244	Twomile above Pajarito	WT	28-SEP-2005	UF	CS	GU05100E24401										55.1

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2 TSS mg/L		EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E245	Pajarito above TA-18	WM	21-MAR-2005	F	CS	GF05030M24501																		
E245	Pajarito above TA-18	WM	21-MAR-2005	UF	CS	GU05030M24501				16.3		3.77		5.05		22.2	<	1.45		36.9		36.7	<	4
E245	Pajarito above TA-18	WT	15-JUL-2005	F	CS	GF05070E24501				14.4		5.79		2.64		9.72				27				
E245	Pajarito above TA-18	WT	15-JUL-2005	UF	CS	GU05070E24501				22.8		15		11.6		10.2								
E245	Pajarito above TA-18	WT	04-AUG-2005	F	CS	GF05080E24501				9.09		6.45		2.14		10.4				29.1				
E245	Pajarito above TA-18	WT	04-AUG-2005	UF	CS	GU05080E24501				15.4		12.8		7.35		12.2								
E245	Pajarito above TA-18	WT	12-AUG-2005	F	CS	GF05080E24502				6.39		3.99		1.48		10.5				31.5				
E245	Pajarito above TA-18	WT	12-AUG-2005	UF	CS	GU05080E24503				16.5		13		9.97		8.59								
E245	Pajarito above TA-18	WT	24-AUG-2005	F	CS	GF05080E24503				6.15		3.4		1.42		6.69				25.9				
E245	Pajarito above TA-18	WT	24-AUG-2005	UF	CS	GU05080E24504				40.8		25.8		27.6		6.46								
E245	Pajarito above TA-18	WT	25-AUG-2005	F	CS	GF05080E24504																		
E245.5	Pajarito above Threemile	WM	21-MAR-2005	F	CS	GF0503M245501																		
E245.5	Pajarito above Threemile	WM	21-MAR-2005	UF	CS	GU0503M245501				17.1		4		5.37		22.7	<	1.45		35.9		35.7	<	4
E245.5	Pajarito above Threemile	WT	15-JUL-2005	F	CS	GF0507E245501				18.2		7.84		3.37		12.2								
E245.5	Pajarito above Threemile	WT	15-JUL-2005	UF	CS	GU0507E245501				48.1		25.3		21.5		12								
E245.5	Pajarito above Threemile	WT	06-AUG-2005	F	CS	GF0508E245501														30.2				
E245.5	Pajarito above Threemile	WT	12-AUG-2005	F	CS	GF0508E245502				10.2		4.16		2.28		9.11				38.3				
E245.5	Pajarito above Threemile	WT	12-AUG-2005	UF	CS	GU0508E245502				27.7		18.3		14.2		15.6								
E245.5	Pajarito above Threemile	WT	22-AUG-2005	F	CS	GF0508E245503				9.49		3.33		1.82		10.8				25.9				
E245.5	Pajarito above Threemile	WT	22-AUG-2005	UF	CS	GU0508E245503				47.2		25		25.3		12.4								
E245.5	Pajarito above Threemile	WT	25-AUG-2005	F	CS	GF0508E245504				11.2		4.49		2.64		19.9				43.9				
E245.5	Pajarito above Threemile	WT	25-AUG-2005	UF	CS	GU0508E245505				23.4		11.1		8.42		22.6								
E246	Threemile above Pajarito	WM	21-MAR-2005	F	CS	GF05030M24601																		
E246	Threemile above Pajarito	WM	21-MAR-2005	UF	CS	GU05030M24601				11.4		3.36		3.75		9.93	<	1.45		31.7		31.5	<	4
E247	MDA G-1	WT	13-AUG-2005	F	CS	GF05080E24701				8.41		2.64		1.06		1.18				25.9				
E247	MDA G-1	WT	13-AUG-2005	UF	CS	GU05080E24701				39.9		22.5		23.6		3.89								
E247	MDA G-1	WT	29-SEP-2005	F	CS	GF05090E24701														13				
E247	MDA G-1	WT	29-SEP-2005	UF	CS	GU05090E24701				10.6		6.81		4.38		2.65								
E247	MDA G-1	WT	09-OCT-2005	F	CS	GF05100E24701				5.74		1.57		0.775		0.821				15				
E247	MDA G-1	WT	09-OCT-2005	UF	CS	GU05100E24701				42		20.8		23.7		3.2								
E248.5	MDA G-6U	WT	24-APR-2005	F	CS	GF0504E248501				4.5		2.42		0.969		2.95	<	1.45		31.9		31.8		
E248.5	MDA G-6U	WT	24-APR-2005	UF	CS	GU0504E248501				7.18		6.08		3.59		4.76								
E248.5	MDA G-6U	WT	15-JUL-2005	F	CS	GF0507E248501				10.9		3.73		2.13		3.4	<	1.45		29.1				
E248.5	MDA G-6U	WT	15-JUL-2005	UF	CS	GU0507E248501				57.4		11.8		19.1		7.88								
E248.5	MDA G-6U	WT	05-AUG-2005	F	CS	GF0508E248501				9.42		3.66		1.92		2.49				20.5				
E248.5	MDA G-6U	WT	05-AUG-2005	UF	CS	GU0508E248501				13.3		7.91		6.02		5.31								
E248.5	MDA G-6U	WT	12-AUG-2005	F	CS	GF0508E248502				4.83		2.15		0.979		1.99				15.8				
E248.5	MDA G-6U	WT	12-AUG-2005	UF	CS	GU0508E248502				7.05		5.83		3.71		4.04								
E248.5	MDA G-6U	WT	29-SEP-2005	F	CS	GF0509E248501																		
E250	Pajarito above SR-4	WM	23-MAR-2005	F	CS	GF05030M25001																		
E250	Pajarito above SR-4	WM	23-MAR-2005	UF	CS	GU05030M25001				28		5.13		6.58		29.1	<	1.45		66.5		66.1	<	4
E250	Pajarito above SR-4	WT	12-AUG-2005	F	CS	GF05080E25001				16.7		8.84		4.41		18.4								
E250	Pajarito above SR-4	WT	12-AUG-2005	UF	CS	GU05080E25001				19.1		11.4		6.18		19.4								
E252	Water above SR-501	WM	29-MAR-2005	F	CS	GF05030M25201																		
E252	Water above SR-501	WM	29-MAR-2005	UF	CS	GU05030M25201				15.9		3.57		5.53		10.9	<	1.45		34.8		34.8	<	4
E252.5	Water above S Site Canyon	WM	30-MAR-2005	F	CS	GF0503M252501																		
E252.5	Water above S Site Canyon	WM	30-MAR-2005	UF	CS	GU0503M252501				16.4		4.3		5.29		14.1	<	1.45		35.9		35.7	<	4
E252.5	Water above S Site Canyon	WT	12-AUG-2005	F	CS	GF0508E252501				8.02		4.23		2.39		9.25				25.9				
E252.5	Water above S Site Canyon	WT	12-AUG-2005	UF	CS	GU0508E252501				19.8		13.1		9.94		11.8								
E252.8	S Site Canyon above Water	WT	12-AUG-2005	F	CS	GF0508E252801				6.48		5.12		1.73		5.83				18				
E252.8	S Site Canyon above Water	WT	12-AUG-2005	UF	CS	GU0508E252801				9.04		8.31		3.32		6.92								
E252.8	S Site Canyon above Water	WT	24-AUG-2005	F	CS	GF0508E252802				6.41		4.46		1.64		4.55				18				
E252.8	S Site Canyon above Water	WT	24-AUG-2005	UF	CS	GU0508E252802				40		28.3		24.7		7.91								
E253	Canon de Valle above SR-501	WM	11-APR-2005	F	CS	GF05030M25301																		
E253	Canon de Valle above SR-501	WM	11-APR-2005	UF	CS	GU05030M25301				12.3		2.98		3.85		5.16	<	1.45		22.3		22.3	<	4
E253	Canon de Valle above SR-501	WT	16-APR-2005	F	CS	GF05040E25301				10.7		2.31		3.18		5.35	<	1.45		22.3		22.3		
E253	Canon de Valle above SR-501	WT	16-APR-2005	UF	CS	GU05040E25301				17.5		8.1		6.7		7.17								

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M) ClO4 ug/L		EPA:410.4 COD mg/L		EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E245	Pajarito above TA-18	WM	21-MAR-2005	F	CS	GF05030M24501								9.04		
E245	Pajarito above TA-18	WM	21-MAR-2005	UF	CS	GU05030M24501		0.401								61.5
E245	Pajarito above TA-18	WT	15-JUL-2005	F	CS	GF05070E24501						23.4				46.8
E245	Pajarito above TA-18	WT	15-JUL-2005	UF	CS	GU05070E24501										105
E245	Pajarito above TA-18	WT	04-AUG-2005	F	CS	GF05080E24501						15.6				31.5
E245	Pajarito above TA-18	WT	04-AUG-2005	UF	CS	GU05080E24501										68.6
E245	Pajarito above TA-18	WT	12-AUG-2005	F	CS	GF05080E24502										22
E245	Pajarito above TA-18	WT	12-AUG-2005	UF	CS	GU05080E24503										82.3
E245	Pajarito above TA-18	WT	24-AUG-2005	F	CS	GF05080E24503										21.2
E245	Pajarito above TA-18	WT	24-AUG-2005	UF	CS	GU05080E24504										215
E245	Pajarito above TA-18	WT	25-AUG-2005	F	CS	GF05080E24504						16.1				
E245.5	Pajarito above Threemile	WM	21-MAR-2005	F	CS	GF0503M245501								8.83		
E245.5	Pajarito above Threemile	WM	21-MAR-2005	UF	CS	GU0503M245501		0.418								64.9
E245.5	Pajarito above Threemile	WT	15-JUL-2005	F	CS	GF0507E245501										59.3
E245.5	Pajarito above Threemile	WT	15-JUL-2005	UF	CS	GU0507E245501										209
E245.5	Pajarito above Threemile	WT	06-AUG-2005	F	CS	GF0508E245501						16.6				
E245.5	Pajarito above Threemile	WT	12-AUG-2005	F	CS	GF0508E245502						10.2				34.8
E245.5	Pajarito above Threemile	WT	12-AUG-2005	UF	CS	GU0508E245502										128
E245.5	Pajarito above Threemile	WT	22-AUG-2005	F	CS	GF0508E245503						10.9				31.2
E245.5	Pajarito above Threemile	WT	22-AUG-2005	UF	CS	GU0508E245503										222
E245.5	Pajarito above Threemile	WT	25-AUG-2005	F	CS	GF0508E245504										38.9
E245.5	Pajarito above Threemile	WT	25-AUG-2005	UF	CS	GU0508E245505										93.2
E246	Threemile above Pajarito	WM	21-MAR-2005	F	CS	GF05030M24601								8.36		
E246	Threemile above Pajarito	WM	21-MAR-2005	UF	CS	GU05030M24601		0.226								44
E247	MDA G-1	WT	13-AUG-2005	F	CS	GF05080E24701						9.14				25.4
E247	MDA G-1	WT	13-AUG-2005	UF	CS	GU05080E24701										197
E247	MDA G-1	WT	29-SEP-2005	F	CS	GF05090E24701						11.7				
E247	MDA G-1	WT	29-SEP-2005	UF	CS	GU05090E24701										44.5
E247	MDA G-1	WT	09-OCT-2005	F	CS	GF05100E24701						8.6				17.5
E247	MDA G-1	WT	09-OCT-2005	UF	CS	GU05100E24701										202
E248.5	MDA G-6U	WT	24-APR-2005	F	CS	GF0504E248501						6.35				15.2
E248.5	MDA G-6U	WT	24-APR-2005	UF	CS	GU0504E248501										32.7
E248.5	MDA G-6U	WT	15-JUL-2005	F	CS	GF0507E248501						15.2				35.9
E248.5	MDA G-6U	WT	15-JUL-2005	UF	CS	GU0507E248501										222
E248.5	MDA G-6U	WT	05-AUG-2005	F	CS	GF0508E248501										31.4
E248.5	MDA G-6U	WT	05-AUG-2005	UF	CS	GU0508E248501										58.1
E248.5	MDA G-6U	WT	12-AUG-2005	F	CS	GF0508E248502						6.05				16.1
E248.5	MDA G-6U	WT	12-AUG-2005	UF	CS	GU0508E248502										32.9
E248.5	MDA G-6U	WT	29-SEP-2005	F	CS	GF0509E248501						5.09				
E250	Pajarito above SR-4	WM	23-MAR-2005	F	CS	GF05030M25001								8.82		
E250	Pajarito above SR-4	WM	23-MAR-2005	UF	CS	GU05030M25001		0.287								97.1
E250	Pajarito above SR-4	WT	12-AUG-2005	F	CS	GF05080E25001										59.9
E250	Pajarito above SR-4	WT	12-AUG-2005	UF	CS	GU05080E25001										73.2
E252	Water above SR-501	WM	29-MAR-2005	F	CS	GF05030M25201								8.07		
E252	Water above SR-501	WM	29-MAR-2005	UF	CS	GU05030M25201		0.399								62.6
E252.5	Water above S Site Canyon	WM	30-MAR-2005	F	CS	GF0503M252501								7.87		
E252.5	Water above S Site Canyon	WM	30-MAR-2005	UF	CS	GU0503M252501		0.388								62.8
E252.5	Water above S Site Canyon	WT	12-AUG-2005	F	CS	GF0508E252501						13.9				29.9
E252.5	Water above S Site Canyon	WT	12-AUG-2005	UF	CS	GU0508E252501										90.3
E252.8	S Site Canyon above Water	WT	12-AUG-2005	F	CS	GF0508E252801						23.6				23.3
E252.8	S Site Canyon above Water	WT	12-AUG-2005	UF	CS	GU0508E252801										36.2
E252.8	S Site Canyon above Water	WT	24-AUG-2005	F	CS	GF0508E252802						19				22.7
E252.8	S Site Canyon above Water	WT	24-AUG-2005	UF	CS	GU0508E252802										202
E253	Canon de Valle above SR-501	WM	11-APR-2005	F	CS	GF05030M25301						8.22				
E253	Canon de Valle above SR-501	WM	11-APR-2005	UF	CS	GU05030M25301		0.566								46.5
E253	Canon de Valle above SR-501	WT	16-APR-2005	F	CS	GF05040E25301						10.4				39.8
E253	Canon de Valle above SR-501	WT	16-APR-2005	UF	CS	GU05040E25301										71.2

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	EPA:160.2		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
							TSS		Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
							mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E256	Canon de Valle below MDA P	WM	31-MAR-2005	F	CS	GF05030M25601																		
E256	Canon de Valle below MDA P	WM	31-MAR-2005	UF	CS	GU05030M25601				19.3		3.68		5.45		17.4	<	1.45		59.1		58.8	<	4
E256	Canon de Valle below MDA P	WT	15-JUL-2005	F	CS	GF05070E25601				6.62		4.79		1.57		3.16				18.4				
E256	Canon de Valle below MDA P	WT	15-JUL-2005	UF	CS	GU05070E25601				19.1		16.2		11.9		4.77								
E256	Canon de Valle below MDA P	WT	04-AUG-2005	F	CS	GF05080E25601				11.5		5.78		1.74		3.49				28.1				
E256	Canon de Valle below MDA P	WT	04-AUG-2005	UF	CS	GU05080E25601				33.5		22.3		18.7		6.28								
E256	Canon de Valle below MDA P	WT	06-AUG-2005	F	CS	GF05080E25602				11.8		4.39		1.77		3.26				34.5				
E256	Canon de Valle below MDA P	WT	06-AUG-2005	UF	CS	GU05080E25602				14.2		5.97		3.08		3.51								
E256	Canon de Valle below MDA P	WT	12-AUG-2005	F	CS	GF05080E25603				8.21		3.82		1.49		3.46				30.4				
E256	Canon de Valle below MDA P	WT	12-AUG-2005	F	CS	GF05080E25604																		
E256	Canon de Valle below MDA P	WT	12-AUG-2005	UF	CS	GU05080E25603				16.2		13.6		8.55		5.9								
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	F	CS	GF05040E25701				15.8		5.52		3.9		21.6	<	1.45		72.3		72.2		
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	UF	CS	GU05040E25701				17		6.78		4.81		22.3								
E257	Canon de Valle tributary at Burn Grounds	WT	04-AUG-2005	F	CS	GF05080E25701				3.28		4.66		0.635		1.48				9.72				
E257	Canon de Valle tributary at Burn Grounds	WT	04-AUG-2005	UF	CS	GU05080E25701				26		27		21.4		4.47								
E257	Canon de Valle tributary at Burn Grounds	WT	06-AUG-2005	F	CS	GF05080E25702				3.1		4.17		0.701		1.58				9.72				
E257	Canon de Valle tributary at Burn Grounds	WT	06-AUG-2005	UF	CS	GU05080E25702				7.1		4.52		1.59		3.42								
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	F	CS	GF05080E25703				2.45		3.64		0.509		1.92				10.1				
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	F	CS	GF05080E25704																		
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	UF	CS	GU05080E25703				9.88		10.8		5.24		4.16								
E262	Canon de Valle above Water	WM	30-MAR-2005	F	CS	GF05030M26201																		
E262	Canon de Valle above Water	WM	30-MAR-2005	UF	CS	GU05030M26201				10.7		3.54		3.61		10.5	<	1.45		38		37.9	<	4
E262	Canon de Valle above Water	WT	12-AUG-2005	F	CS	GF05080E26201				15.2		5.18		1.79		2.61				39.4				
E262	Canon de Valle above Water	WT	12-AUG-2005	UF	CS	GU05080E26201				59.2		20.4		17.9		4.82								
E262	Canon de Valle above Water	WT	24-AUG-2005	F	CS	GF05080E26202				10.3		5.98		2.41		2.58				23.7				
E262	Canon de Valle above Water	WT	24-AUG-2005	UF	CS	GU05080E26202				45.7		27.2		23.7		7.05								
E262.5	Water below MDA AB	WM	30-MAR-2005	F	CS	GF0503M262501																		
E262.5	Water below MDA AB	WM	30-MAR-2005	UF	CS	GU0503M262501				15.4		4.12		4.91		13.5	<	1.45		38		37.8	<	4
E262.5	Water below MDA AB	WT	04-AUG-2005	F	CS	GF0508E262501				6.48		5.6		1.84		4.75				14				
E262.5	Water below MDA AB	WT	04-AUG-2005	UF	CS	GU0508E262501				23.2		19.4		14.5		6.59								
E262.5	Water below MDA AB	WT	12-AUG-2005	F	CS	GF0508E262502				7.07		5		1.68		6.17				22.5				
E262.5	Water below MDA AB	WT	12-AUG-2005	UF	CS	GU0508E262502				19.7		16.1		9.84		11.1								
E262.5	Water below MDA AB	WT	24-AUG-2005	F	CS	GF0508E262503				4.94		3.23		1.05		1.3				19.2				
E262.5	Water below MDA AB	WT	24-AUG-2005	UF	CS	GU0508E262503				34.9		25.8		19.8		5.38								
E263	Water at SR-4	WM	28-MAR-2005	F	CS	GF05030M26301																		
E263	Water at SR-4	WM	28-MAR-2005	UF	CS	GU05030M26301				15.4		4.36		5.02		13.9	<	1.45		38		37.7	<	4
E263	Water at SR-4	WT	12-AUG-2005	F	CS	GF05080E26301				7.04		5.49		2.02		6.44								
E263	Water at SR-4	WT	12-AUG-2005	UF	CS	GU05080E26301				20		17.4		10.9		9.06								
E263	Water at SR-4	WT	29-SEP-2005	F	CS	GF05090E26301				8.53		4.2		2.01		9.11								
E263	Water at SR-4	WT	29-SEP-2005	UF	CS	GU05090E26301				19.7		14.9		9.99		12.8								
E265	Water below SR-4	WM	28-MAR-2005	F	CS	GF05030M26501																		
E265	Water below SR-4	WM	28-MAR-2005	UF	CS	GU05030M26501				15.9		4.32		5.19		14	<	1.45		38		37.8	<	4
E265	Water below SR-4	WT	12-AUG-2005	F	CS	GF05080E26501				7.15		4.34		1.99		8.07				23.7				
E265	Water below SR-4	WT	12-AUG-2005	UF	CS	GU05080E26501				17.7		16		10.1		7.87								
E265	Water below SR-4	WT	24-AUG-2005	F	CS	GF05080E26502				4.97		3.93		1.37		3.86				14.6				
E265	Water below SR-4	WT	24-AUG-2005	UF	CS	GU05080E26502				20.4		17.7		13.8		6.22								
E265	Water below SR-4	WT	28-SEP-2005	F	CS	GF05090E26501				10.2		4.94		1.49		2.75								
E265	Water below SR-4	WT	28-SEP-2005	UF	CS	GU05090E26501				48.5		24.5		16.6		7.92								
E267	Potrillo above SR-4	WT	28-SEP-2005	F	CS	GF05090E26701				6.87		3.8		1.14		1.2								
E267	Potrillo above SR-4	WT	28-SEP-2005	UF	CS	GU05090E26701				11.5		11.7		7.19		2.58								

Table A7. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Lab Sample Type	Sample Id	SW-846:8321A(M) ClO4 ug/L		EPA:410.4 COD mg/L		EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L	
							Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
E256	Canon de Valle below MDA P	WM	31-MAR-2005	F	CS	GF05030M25601								7.85		
E256	Canon de Valle below MDA P	WM	31-MAR-2005	UF	CS	GU05030M25601		0.518								70.6
E256	Canon de Valle below MDA P	WT	15-JUL-2005	F	CS	GF05070E25601										23
E256	Canon de Valle below MDA P	WT	15-JUL-2005	UF	CS	GU05070E25601										96.6
E256	Canon de Valle below MDA P	WT	04-AUG-2005	F	CS	GF05080E25601						9.67				35.9
E256	Canon de Valle below MDA P	WT	04-AUG-2005	UF	CS	GU05080E25601										161
E256	Canon de Valle below MDA P	WT	06-AUG-2005	F	CS	GF05080E25602						9.52				36.8
E256	Canon de Valle below MDA P	WT	06-AUG-2005	UF	CS	GU05080E25602										48
E256	Canon de Valle below MDA P	WT	12-AUG-2005	F	CS	GF05080E25603						7.31				26.7
E256	Canon de Valle below MDA P	WT	12-AUG-2005	F	CS	GF05080E25604						23.3				
E256	Canon de Valle below MDA P	WT	12-AUG-2005	UF	CS	GU05080E25603										75.6
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	F	CS	GF05040E25701						12.6				55.5
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	UF	CS	GU05040E25701										62.3
E257	Canon de Valle tributary at Burn Grounds	WT	04-AUG-2005	F	CS	GF05080E25701						14.5				10.8
E257	Canon de Valle tributary at Burn Grounds	WT	04-AUG-2005	UF	CS	GU05080E25701										153
E257	Canon de Valle tributary at Burn Grounds	WT	06-AUG-2005	F	CS	GF05080E25702										10.6
E257	Canon de Valle tributary at Burn Grounds	WT	06-AUG-2005	UF	CS	GU05080E25702										24.3
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	F	CS	GF05080E25703						11				8.2
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	F	CS	GF05080E25704						19.2				
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	UF	CS	GU05080E25703										46.2
E262	Canon de Valle above Water	WM	30-MAR-2005	F	CS	GF05030M26201								8.25		
E262	Canon de Valle above Water	WM	30-MAR-2005	UF	CS	GU05030M26201		0.453								41.5
E262	Canon de Valle above Water	WT	12-AUG-2005	F	CS	GF05080E26201						10.6				45.4
E262	Canon de Valle above Water	WT	12-AUG-2005	UF	CS	GU05080E26201										222
E262	Canon de Valle above Water	WT	24-AUG-2005	F	CS	GF05080E26202						12.9				35.7
E262	Canon de Valle above Water	WT	24-AUG-2005	UF	CS	GU05080E26202										212
E262.5	Water below MDA AB	WM	30-MAR-2005	F	CS	GF0503M262501								7.62		
E262.5	Water below MDA AB	WM	30-MAR-2005	UF	CS	GU0503M262501		0.404								58.6
E262.5	Water below MDA AB	WT	04-AUG-2005	F	CS	GF0508E262501						28				23.8
E262.5	Water below MDA AB	WT	04-AUG-2005	UF	CS	GU0508E262501										118
E262.5	Water below MDA AB	WT	12-AUG-2005	F	CS	GF0508E262502						13.6				24.6
E262.5	Water below MDA AB	WT	12-AUG-2005	UF	CS	GU0508E262502										89.8
E262.5	Water below MDA AB	WT	24-AUG-2005	F	CS	GF0508E262503						7.12				16.7
E262.5	Water below MDA AB	WT	24-AUG-2005	UF	CS	GU0508E262503										169
E263	Water at SR-4	WM	28-MAR-2005	F	CS	GF05030M26301								8.06		
E263	Water at SR-4	WM	28-MAR-2005	UF	CS	GU05030M26301		0.374								59.1
E263	Water at SR-4	WT	12-AUG-2005	F	CS	GF05080E26301										25.9
E263	Water at SR-4	WT	12-AUG-2005	UF	CS	GU05080E26301										94.9
E263	Water at SR-4	WT	29-SEP-2005	F	CS	GF05090E26301						10.8				29.6
E263	Water at SR-4	WT	29-SEP-2005	UF	CS	GU05090E26301										90.3
E265	Water below SR-4	WM	28-MAR-2005	F	CS	GF05030M26501								7.97		
E265	Water below SR-4	WM	28-MAR-2005	UF	CS	GU05030M26501		0.354								61.1
E265	Water below SR-4	WT	12-AUG-2005	F	CS	GF05080E26501										26
E265	Water below SR-4	WT	12-AUG-2005	UF	CS	GU05080E26501										85.7
E265	Water below SR-4	WT	24-AUG-2005	F	CS	GF05080E26502										18
E265	Water below SR-4	WT	24-AUG-2005	UF	CS	GU05080E26502										108
E265	Water below SR-4	WT	28-SEP-2005	F	CS	GF05090E26501										31.7
E265	Water below SR-4	WT	28-SEP-2005	UF	CS	GU05090E26501										189
E267	Potrillo above SR-4	WT	28-SEP-2005	F	CS	GF05090E26701						18.8				21.8
E267	Potrillo above SR-4	WT	28-SEP-2005	UF	CS	GU05090E26701										58.3

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E026	Los Alamos below Ice Rink	WM	18-MAR-2005	UF	GU05030M02601		13		27		14
E026	Los Alamos below Ice Rink	WT	16-APR-2005	UF	GU05040E02601		2070				
E026	Los Alamos below Ice Rink	WT	17-APR-2005	UF	GU05040E02602		1050		1060		
E030	Los Alamos above DP Canyon	WM	18-MAR-2005	UF	GU05030M03001		24		23.6		24.4
E030	Los Alamos above DP Canyon	WT	12-AUG-2005	UF	GU05080E03001		1860				
E030	Los Alamos above DP Canyon	WT	29-SEP-2005	UF	GU05090E03001		308				
E030	Los Alamos above DP Canyon	WT	19-OCT-2005	UF	GU05100E03001		611		689		
E038	DP above TA-21	WT	16-APR-2005	UF	GU05040E03801		1930				
E038	DP above TA-21	WT	24-APR-2005	UF	GU05040E03802		558		600		
E038	DP above TA-21	WT	25-APR-2005	UF	GU05040E03803		227		224		
E038	DP above TA-21	WT	01-MAY-2005	UF	GU05050E03801		189				
E038	DP above TA-21	WT	03-MAY-2005	UF	GU05050E03802		1140				
E038	DP above TA-21	WT	15-JUL-2005	UF	GU05070E03801		2900				
E038	DP above TA-21	WT	05-AUG-2005	UF	GU05080E03801		1460				
E039	DP below Meadow at TA-21	WT	03-MAY-2005	UF	GU05050E03901		559				
E039	DP below Meadow at TA-21	WT	15-JUL-2005	UF	GU05070E03901		1260				
E039	DP below Meadow at TA-21	WT	04-AUG-2005	UF	GU05080E03901		1330				
E039	DP below Meadow at TA-21	WT	12-AUG-2005	UF	GU05080E03902		49.5				
E040	DP above Los Alamos Canyon	WM	22-MAR-2005	UF	GU05030M04001	<	1.53	<	1.53	<	1.53
E040	DP above Los Alamos Canyon	WT	03-MAY-2005	UF	GU05050E04001		2070				
E040	DP above Los Alamos Canyon	WT	04-AUG-2005	UF	GU05080E04001		7510				
E040	DP above Los Alamos Canyon	WT	11-AUG-2005	UF	GU05080E04002		4510				
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	UF	GU05080E04004		3330				
E040	DP above Los Alamos Canyon	WT	12-AUG-2005	UF	GU05080E04005		2050				
E042	Los Alamos above SR-4	WM	18-MAR-2005	UF	GU05030M04201		34.8		38.4		39.6
E042	Los Alamos above SR-4	WT	16-APR-2005	UF	GU05040E04201		7970				
E042	Los Alamos above SR-4	WT	03-MAY-2005	UF	GU05050E04201		2640				
E042	Los Alamos above SR-4	WT	15-JUL-2005	UF	GU05070E04201		5070				
E042	Los Alamos above SR-4	WT	04-AUG-2005	UF	GU05080E04201		7610				
E050	Los Alamos below LA Weir	WM	22-MAR-2005	UF	GU05030M05001		10		10.5		10
E050	Los Alamos below LA Weir	WT	24-APR-2005	UF	GU05040E05001		2960				
E050	Los Alamos below LA Weir	WT	15-JUL-2005	UF	GU05070E05001		2630				
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	GU05080E05001		2270				

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E050	Los Alamos below LA Weir	WT	12-AUG-2005	UF	GU05080E05002		814				
E055	Pueblo above Acid	WM	30-MAR-2005	UF	GU05030M05501		10.4		9.09		10
E055	Pueblo above Acid	WT	03-MAY-2005	UF	GU05050E05501		2780				
E055	Pueblo above Acid	WT	15-JUL-2005	UF	GU05070E05501		484				
E055	Pueblo above Acid	WT	12-AUG-2005	UF	GU05080E05501		2640				
E055	Pueblo above Acid	WT	13-AUG-2005	UF	GU05080E05502		4950				
E0555	South Fork of Acid Canyon	WT	15-JUL-2005	UF	GU0507E055501		2500				
E0555	South Fork of Acid Canyon	WT	05-AUG-2005	UF	GU0508E055501		2950				
E0555	South Fork of Acid Canyon	WT	12-AUG-2005	UF	GU0508E055502		748				
E0555	South Fork of Acid Canyon	WT	25-AUG-2005	UF	GU0508E055503		1080		1210		
E056	Acid above Pueblo	WT	12-AUG-2005	UF	GU05080E05601		1360				
E056	Acid above Pueblo	WT	24-AUG-2005	UF	GU05080E05602		6170				
E060	Pueblo above SR-502	WT	12-AUG-2005	UF	GU05080E06001		288				
E060	Pueblo above SR-502	WT	12-AUG-2005	UF	GU05080E06090		284				
E060	Pueblo above SR-502	WT	24-AUG-2005	UF	GU05080E06002		1130		1150		
E060	Pueblo above SR-502	WT	25-AUG-2005	UF	GU05080E06003		2700		2730		
E060	Pueblo above SR-502	WT	29-SEP-2005	UF	GU05090E06001		498				
E060	Pueblo above SR-502	WT	29-SEP-2005	UF	GU05090E06002		337				
E110	Los Alamos Canyon near Otowi Bridge	WM	20-APR-2005	UF	GU05030M11001		1880				
E121	Sandia right fork at Power Plant	WT	16-APR-2005	UF	GU05040E12101		600				
E121	Sandia right fork at Power Plant	WT	15-JUL-2005	UF	GU05070E12101		2550				
E121	Sandia right fork at Power Plant	WT	20-JUL-2005	UF	GU05070E12102		713				
E121	Sandia right fork at Power Plant	WT	04-AUG-2005	UF	GU05080E12101		1090				
E121	Sandia right fork at Power Plant	WT	12-AUG-2005	UF	GU05080E12102		828				
E123	Sandia below Wetlands	WT	24-APR-2005	UF	GU05040E12301		38.8		40		
E123	Sandia below Wetlands	WT	24-APR-2005	UF	GU05040E12390		54				
E123	Sandia below Wetlands	WT	01-MAY-2005	UF	GU05050E12301		141		146		
E123	Sandia below Wetlands	WT	03-MAY-2005	UF	GU05050E12302		1110				
E123	Sandia below Wetlands	WT	15-JUL-2005	UF	GU05070E12301		610		650		
E123	Sandia below Wetlands	WT	20-JUL-2005	UF	GU05070E12302		1930				
E124	Sandia above Firing Range	WT	03-MAY-2005	UF	GU05050E12401		33700				
E124	Sandia above Firing Range	WT	15-JUL-2005	UF	GU05070E12401		12300				
E124	Sandia above Firing Range	WT	20-JUL-2005	UF	GU05070E12402		852				

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E124	Sandia above Firing Range	WT	23-JUL-2005	UF	GU05070E12403		382				
E124	Sandia above Firing Range	WT	04-AUG-2005	UF	GU05080E12401		2540				
E125	Sandia above SR-4	WT	29-SEP-2005	UF	GU05090E12501		2850		2540		
E200	Mortandad below Effluent Canyon	WT	24-APR-2005	UF	GU05040E20001		3030				
E200	Mortandad below Effluent Canyon	WT	03-MAY-2005	UF	GU05050E20001		1230		1340		
E200	Mortandad below Effluent Canyon	WT	15-JUL-2005	UF	GU05070E20001		4850				
E200	Mortandad below Effluent Canyon	WT	20-JUL-2005	UF	GU05070E20002		518				
E201	Mortandad above Ten Site	WT	29-SEP-2005	UF	GU05090E20101		705				
E201	Mortandad above Ten Site	WT	30-SEP-2005	UF	GU05090E20102		1230				
E201.3	Ten Site below MDA C	WT	12-AUG-2005	UF	GU0508E201301		806				
E201.3	Ten Site below MDA C	WT	22-AUG-2005	UF	GU0508E201302		1080				
E201.3	Ten Site below MDA C	WT	24-AUG-2005	UF	GU0508E201303		162				
E201.3	Ten Site below MDA C	WT	25-AUG-2005	UF	GU0508E201304		1450				
E201.3	Ten Site below MDA C	WT	22-SEP-2005	UF	GU0509E201301		351		378		
E201.3	Ten Site below MDA C	WT	28-SEP-2005	UF	GU0509E201302		1200		1460		
E201.3	Ten Site below MDA C	WT	10-OCT-2005	UF	GU0510E201301		379				
E201.5	Ten Site above Mortandad	WT	24-AUG-2005	UF	GU0508E201501		3500		4060		
E201.5	Ten Site above Mortandad	WT	25-AUG-2005	UF	GU0508E201502		3160				
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	GU0509E201501		731				
E201.5	Ten Site above Mortandad	WT	29-SEP-2005	UF	GU0509E201502		126				
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	GU05090E20201		2690				
E202	Mortandad above Sediment Traps	WT	29-SEP-2005	UF	GU05090E20202		2860				
E218	Canada del Buey near TA-46	WT	20-JUL-2005	UF	GU05070E21802		48.9				
E218	Canada del Buey near TA-46	WT	24-AUG-2005	UF	GU05080E21801		2600		2470		
E227	MDA G-13	WT	17-JUL-2005	UF	GU05070E22701		22400				
E227	MDA G-13	WT	12-AUG-2005	UF	GU05080E22701		932				
E227	MDA G-13	WT	13-AUG-2005	UF	GU05080E22702		7160				
E227	MDA G-13	WT	04-SEP-2005	UF	GU05090E22701		4220				
E227	MDA G-13	WT	28-SEP-2005	UF	GU05100E22701		6130				
E227	MDA G-13	WT	09-OCT-2005	UF	GU05100E22702		2510				
E230	Canada del Buey above SR-4	WT	28-SEP-2005	UF	GU05090E23090		6180				
E230	Canada del Buey above SR-4	WT	20-OCT-2005	UF	GU05100E23001		13800		13400		
E240	Pajarito below SR-501	WM	23-MAR-2005	UF	GU05030M24001		3.6		3.6		4

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E240	Pajarito below SR-501	WT	11-AUG-2005	UF	GU05080E24001		6340				
E240	Pajarito below SR-501	WT	12-AUG-2005	UF	GU05080E24002		320				
E240	Pajarito below SR-501	WT	24-AUG-2005	UF	GU05080E24003		4880				
E241	Pajarito above Starmers	WM	24-MAR-2005	UF	GU05030M24101		3.2		3.2		3.6
E241	Pajarito above Starmers	WT	15-JUL-2005	UF	GU05070E24101		3730				
E241	Pajarito above Starmers	WT	04-AUG-2005	UF	GU05080E24101		5360		4920		
E241	Pajarito above Starmers	WT	06-AUG-2005	UF	GU05080E24102		12000				
E241	Pajarito above Starmers	WT	22-AUG-2005	UF	GU05080E24103		2850				
E242	Starmers above Pajarito	WM	24-MAR-2005	UF	GU05030M24201		17.2		17.6		16
E242	Starmers above Pajarito	WT	15-JUL-2005	UF	GU05070E24201		31.5				
E242.5	La Delfe above Pajarito	WM	24-MAR-2005	UF	GU0503M242501		8		14.5		9
E242.5	La Delfe above Pajarito	WT	15-JUL-2005	UF	GU0507E242501		931				
E242.5	La Delfe above Pajarito	WT	04-AUG-2005	UF	GU0508E242501		986				
E242.5	La Delfe above Pajarito	WT	06-AUG-2005	UF	GU0508E242502		1560				
E242.5	La Delfe above Pajarito	WT	12-AUG-2005	UF	GU0508E242503		826				
E243	Pajarito above Twomile	WM	22-MAR-2005	UF	GU05030M24301		8		7.6		8
E243	Pajarito above Twomile	WT	15-JUL-2005	UF	GU05070E24301		8420				
E243	Pajarito above Twomile	WT	24-AUG-2005	UF	GU05080E24302		6320				
E243.5	Twomile tributary at TA-3	WT	16-APR-2005	UF	GU0504E243501		123				
E243.5	Twomile tributary at TA-3	WT	24-APR-2005	UF	GU0504E243502		313				
E243.5	Twomile tributary at TA-3	WT	03-MAY-2005	UF	GU0505E243501		24				
E243.5	Twomile tributary at TA-3	WT	27-MAY-2005	UF	GU0505E243502		179				
E243.5	Twomile tributary at TA-3	WT	11-JUN-2005	UF	GU0506E243501		38		36		
E243.5	Twomile tributary at TA-3	WT	15-JUL-2005	UF	GU0507E243501		30.8				
E244	Twomile above Pajarito	WM	22-MAR-2005	UF	GU05030M24401		4.8		4.4		5.2
E244	Twomile above Pajarito	WT	15-JUL-2005	UF	GU05070E24401		7080				
E244	Twomile above Pajarito	WT	15-JUL-2005	UF	GU05070E24490		11000				
E244	Twomile above Pajarito	WT	22-AUG-2005	UF	GU05080E24401		3880				
E244	Twomile above Pajarito	WT	24-AUG-2005	UF	GU05080E24402		2750				
E244	Twomile above Pajarito	WT	28-SEP-2005	UF	GU05100E24401		5800		7080		
E245	Pajarito above TA-18	WM	21-MAR-2005	UF	GU05030M24501		18		20.8		20
E245	Pajarito above TA-18	WT	15-JUL-2005	UF	GU05070E24501		1480				
E245	Pajarito above TA-18	WT	04-AUG-2005	UF	GU05080E24501		1070				

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E245	Pajarito above TA-18	WT	06-AUG-2005	UF	GU05080E24502		2080		2140		
E245	Pajarito above TA-18	WT	12-AUG-2005	UF	GU05080E24503		1260				
E245	Pajarito above TA-18	WT	24-AUG-2005	UF	GU05080E24504		11500				
E245	Pajarito above TA-18	WT	25-AUG-2005	UF	GU05080E24505		2170				
E245.5	Pajarito above Threemile	WM	21-MAR-2005	UF	GU0503M245501		33.6		33.6		34.8
E245.5	Pajarito above Threemile	WT	15-JUL-2005	UF	GU0507E245501		3660				
E245.5	Pajarito above Threemile	WT	12-AUG-2005	UF	GU0508E245502		3160		3440		
E245.5	Pajarito above Threemile	WT	22-AUG-2005	UF	GU0508E245503		4700				
E245.5	Pajarito above Threemile	WT	24-AUG-2005	UF	GU0508E245504		9620				
E245.5	Pajarito above Threemile	WT	25-AUG-2005	UF	GU0508E245505		2120				
E246	Threemile above Pajarito	WM	21-MAR-2005	UF	GU05030M24601		6.8		6.4		6.4
E247	MDA G-1	WT	13-AUG-2005	UF	GU05080E24701		4420		4300		
E247	MDA G-1	WT	29-SEP-2005	UF	GU05090E24701		2160				
E247	MDA G-1	WT	09-OCT-2005	UF	GU05100E24701		8080				
E248.5	MDA G-6U	WT	24-APR-2005	UF	GU0504E248501		514		656		
E248.5	MDA G-6U	WT	15-JUL-2005	UF	GU0507E248501		10300				
E248.5	MDA G-6U	WT	05-AUG-2005	UF	GU0508E248501		1160				
E248.5	MDA G-6U	WT	12-AUG-2005	UF	GU0508E248502		374				
E248.5	MDA G-6U	WT	29-SEP-2005	UF	GU0509E248501		147				
E248.5	MDA G-6U	WT	09-OCT-2005	UF	GU0510E248501		1690				
E250	Pajarito above SR-4	WM	23-MAR-2005	UF	GU05030M25001		3.5		6.5		4
E250	Pajarito above SR-4	WT	12-AUG-2005	UF	GU05080E25001		201				
E252	Water above SR-501	WM	29-MAR-2005	UF	GU05030M25201		2.5		2.5		2.5
E252.5	Water above S Site Canyon	WM	30-MAR-2005	UF	GU0503M252501		13.6		14		13.6
E252.5	Water above S Site Canyon	WT	12-AUG-2005	UF	GU0508E252501		1740		1760		
E252.8	S Site Canyon above Water	WT	12-AUG-2005	UF	GU0508E252801		376				
E252.8	S Site Canyon above Water	WT	24-AUG-2005	UF	GU0508E252802		4920		5130		
E253	Canon de Valle above SR-501	WM	11-APR-2005	UF	GU05030M25301		129		132		139
E253	Canon de Valle above SR-501	WT	16-APR-2005	UF	GU05040E25301		1060				
E256	Canon de Valle below MDA P	WM	31-MAR-2005	UF	GU05030M25601		5.2		4.8		5.2
E256	Canon de Valle below MDA P	WT	15-JUL-2005	UF	GU05070E25601		1080				
E256	Canon de Valle below MDA P	WT	04-AUG-2005	UF	GU05080E25601		3210				
E256	Canon de Valle below MDA P	WT	06-AUG-2005	UF	GU05080E25602		2500				

Table A8. FFCA Watershed Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
E256	Canon de Valle below MDA P	WT	12-AUG-2005	UF	GU05080E25603		1860		1740		
E256	Canon de Valle below MDA P	WT	12-AUG-2005	UF	GU05080E25604		1120				
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	UF	GU05040E25701		22.8				
E257	Canon de Valle tributary at Burn Grounds	WT	26-APR-2005	UF	GU05040E25790		144				
E257	Canon de Valle tributary at Burn Grounds	WT	04-AUG-2005	UF	GU05080E25701		6720				
E257	Canon de Valle tributary at Burn Grounds	WT	06-AUG-2005	UF	GU05080E25702		5170				
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	UF	GU05080E25703		1380				
E257	Canon de Valle tributary at Burn Grounds	WT	12-AUG-2005	UF	GU05080E25704		531				
E262	Canon de Valle above Water	WM	30-MAR-2005	UF	GU05030M26201		4		3.2		3.2
E262	Canon de Valle above Water	WT	12-AUG-2005	UF	GU05080E26201		5140				
E262	Canon de Valle above Water	WT	24-AUG-2005	UF	GU05080E26202		6500		6790		
E262.5	Water below MDA AB	WM	30-MAR-2005	UF	GU0503M262501		8.8		10		10.4
E262.5	Water below MDA AB	WT	04-AUG-2005	UF	GU0508E262501		2380				
E262.5	Water below MDA AB	WT	04-AUG-2005	UF	GU0508E262590		2610				
E262.5	Water below MDA AB	WT	12-AUG-2005	UF	GU0508E262502		2390				
E262.5	Water below MDA AB	WT	24-AUG-2005	UF	GU0508E262503		2760				
E263	Water at SR-4	WM	28-MAR-2005	UF	GU05030M26301		10.8		14.8		14.8
E263	Water at SR-4	WT	12-AUG-2005	UF	GU05080E26301		4320				
E263	Water at SR-4	WT	29-SEP-2005	UF	GU05090E26301		2190				
E265	Water below SR-4	WM	28-MAR-2005	UF	GU05030M26501		10.4		10.4		10
E265	Water below SR-4	WT	12-AUG-2005	UF	GU05080E26501		2970		3040		
E265	Water below SR-4	WT	24-AUG-2005	UF	GU05080E26502		11500				
E265	Water below SR-4	WT	28-SEP-2005	UF	GU05090E26501		11300				
E267	Potrillo above SR-4	WT	28-SEP-2005	UF	GU05090E26701		12100				

Table A9. FFCA Watershed Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag
E030	Los Alamos above DP Canyon	08/12/05	WT	UF	CS	GU05080E03001	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00011	ug/L		
E030	Los Alamos above DP Canyon	08/12/05	WT	UF	CS	GU05080E03001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00087	ug/L		
E030	Los Alamos above DP Canyon	08/12/05	WT	UF	CS	GU05080E03001	11096-82-5	Aroclor-1260		0.52	ug/L		J-
E030	Los Alamos above DP Canyon	08/12/05	WT	UF	CS	GU05080E03001	11097-69-1	Aroclor-1254		0.36	ug/L		J-
E030	Los Alamos above DP Canyon	09/29/05	WT	UF	CS	GU05090E03001	39001-02-0	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]		0.00017	ug/L		
E030	Los Alamos above DP Canyon	09/29/05	WT	UF	CS	GU05090E03001	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00019	ug/L		
E030	Los Alamos above DP Canyon	09/29/05	WT	UF	CS	GU05090E03001	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.000074	ug/L		
E030	Los Alamos above DP Canyon	09/29/05	WT	UF	CS	GU05090E03001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.0012	ug/L		
E030	Los Alamos above DP Canyon	10/19/05	WT	UF	CS	GU05100E03001	11096-82-5	Aroclor-1260		0.062	ug/L	J	
E042	Los Alamos above SR-4	07/15/05	WT	UF	CS	GU05070E04201	11097-69-1	Aroclor-1254		0.39	ug/L	P	J-
E042	Los Alamos above SR-4	07/15/05	WT	UF	CS	GU05070E04201	11096-82-5	Aroclor-1260		0.57	ug/L	P	J-
E042	Los Alamos above SR-4	07/15/05	WT	UF	CS	GU05070E04201	11097-69-1	Aroclor-1254		0.39	ug/L	P	J
E042	Los Alamos above SR-4	07/15/05	WT	UF	CS	GU05070E04201	11096-82-5	Aroclor-1260		0.57	ug/L	P	J
E050	Los Alamos below LA Weir	04/24/05	WT	UF	CS	GU05040E05001	11096-82-5	Aroclor-1260		0.057	ug/L	J	J
E050	Los Alamos below LA Weir	07/15/05	WT	UF	CS	GU05070E05001	11096-82-5	Aroclor-1260		0.23	ug/L		J
E050	Los Alamos below LA Weir	07/15/05	WT	UF	CS	GU05070E05001	11097-69-1	Aroclor-1254		0.21	ug/L	P	J
E050	Los Alamos below LA Weir	08/12/05	WT	UF	CS	GU05080E05002	11096-82-5	Aroclor-1260		0.12	ug/L		
E060	Pueblo above SR-502	09/29/05	WT	UF	CS	GU05090E06001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00023	ug/L		
E110	Los Alamos Canyon near Otowi Bridge	04/20/05	WM	UF	CS	GU05030M11001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00017	ug/L		
E121	Sandia right fork at Power Plant	04/16/05	WT	UF	CS	GU05040E12101	11096-82-5	Aroclor-1260		0.027	ug/L	JP	
E121	Sandia right fork at Power Plant	07/15/05	WT	UF	CS	GU05070E12101	11096-82-5	Aroclor-1260		1.2	ug/L		J
E121	Sandia right fork at Power Plant	07/15/05	WT	UF	CS	GU05070E12101	11097-69-1	Aroclor-1254		0.64	ug/L		J
E121	Sandia right fork at Power Plant	07/20/05	WT	UF	CS	GU05070E12102	11097-69-1	Aroclor-1254		0.43	ug/L	P	
E121	Sandia right fork at Power Plant	07/20/05	WT	UF	CS	GU05070E12102	11096-82-5	Aroclor-1260		0.54	ug/L		
E121	Sandia right fork at Power Plant	08/04/05	WT	UF	CS	GU05080E12101	11097-69-1	Aroclor-1254		0.056	ug/L	J	
E121	Sandia right fork at Power Plant	08/04/05	WT	UF	CS	GU05080E12101	11096-82-5	Aroclor-1260		0.097	ug/L	J	
E123	Sandia below Wetlands	05/01/05	WT	UF	CS	GU05050E12301	11096-82-5	Aroclor-1260		0.22	ug/L		
E123	Sandia below Wetlands	05/01/05	WT	UF	CS	GU05050E12301	11097-69-1	Aroclor-1254		0.21	ug/L		
E123	Sandia below Wetlands	07/15/05	WT	UF	CS	GU05070E12301	11096-82-5	Aroclor-1260		0.64	ug/L		J
E123	Sandia below Wetlands	07/15/05	WT	UF	CS	GU05070E12301	11097-69-1	Aroclor-1254		0.38	ug/L		J
E123	Sandia below Wetlands	07/20/05	WT	UF	CS	GU05070E12302	11097-69-1	Aroclor-1254		0.27	ug/L		
E123	Sandia below Wetlands	07/20/05	WT	UF	CS	GU05070E12302	11096-82-5	Aroclor-1260		0.4	ug/L		
E124	Sandia above Firing Range	05/03/05	WT	UF	CS	GU05050E12401	11096-82-5	Aroclor-1260		0.42	ug/L		
E124	Sandia above Firing Range	05/03/05	WT	UF	CS	GU05050E12401	11097-69-1	Aroclor-1254		0.26	ug/L		
E124	Sandia above Firing Range	07/15/05	WT	UF	CS	GU05070E12401	11097-69-1	Aroclor-1254		1.7	ug/L		J
E124	Sandia above Firing Range	07/15/05	WT	UF	CS	GU05070E12401	11096-82-5	Aroclor-1260		3.2	ug/L		J
E124	Sandia above Firing Range	07/20/05	WT	UF	CS	GU05070E12402	11096-82-5	Aroclor-1260		0.12	ug/L	JP	J
E124	Sandia above Firing Range	08/04/05	WT	UF	CS	GU05080E12401	121-82-4	RDX		2.5	ug/L		J
E124	Sandia above Firing Range	08/04/05	WT	UF	CS	GU05080E12401	11097-69-1	Aroclor-1254		0.11	ug/L	JP	
E124	Sandia above Firing Range	08/04/05	WT	UF	CS	GU05080E12401	11096-82-5	Aroclor-1260		0.15	ug/L		
E124	Sandia above Firing Range	08/04/05	WT	UF	CS	GU05080E12401	2691-41-0	HMX		1.5	ug/L		J-
E124	Sandia above Firing Range	08/04/05	WT	UF	CS	GU05080E12401	121-82-4	RDX		2.5	ug/L		J-
E125	Sandia above SR-4	09/29/05	WT	UF	CS	GU05090E12501	11096-82-5	Aroclor-1260		0.13	ug/L	JP	
E200	Mortandad below Effluent Canyon	05/03/05	WT	UF	CS	GU05050E20001	11097-69-1	Aroclor-1254		0.22	ug/L		
E201.3	Ten Site below MDA C	08/24/05	WT	UF	CS	GU0508E201303	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.0003	ug/L		
E201.3	Ten Site below MDA C	08/25/05	WT	UF	CS	GU0508E201304	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00021	ug/L		
E218	Canada del Buey near TA-46	08/24/05	WT	UF	CS	GU05080E21801	11097-69-1	Aroclor-1254		0.083	ug/L	J	
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	19408-74-3	Hexachlorodibenzodioxin[1,2,3,7,8,9-]		0.0002	ug/L		

Table A9. FFCA Watershed Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	39001-02-0	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]		0.0012	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	39227-28-6	Hexachlorodibenzodioxin[1,2,3,4,7,8-]		0.00008	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	70648-26-9	Hexachlorodibenzofuran[1,2,3,4,7,8-]		0.00029	ug/L	E	J
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	11097-69-1	Aroclor-1254		0.25	ug/L	P	
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.027	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	60851-34-5	Hexachlorodibenzofuran[2,3,4,6,7,8-]		0.00013	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.0012	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	57653-85-7	Hexachlorodibenzodioxin[1,2,3,6,7,8-]		0.00016	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.0034	ug/L		
E227	MDA G-13	07/17/05	WT	UF	CS	GU05070E22701	57117-44-9	Hexachlorodibenzofuran[1,2,3,6,7,8-]		0.000082	ug/L		
E227	MDA G-13	08/13/05	WT	UF	CS	GU05080E22702	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.000095	ug/L		
E227	MDA G-13	08/13/05	WT	UF	CS	GU05080E22702	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00057	ug/L		
E227	MDA G-13	08/13/05	WT	UF	CS	GU05080E22702	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00011	ug/L		
E227	MDA G-13	09/04/05	WT	UF	CS	GU05090E22701	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.000064	ug/L		
E227	MDA G-13	09/04/05	WT	UF	CS	GU05090E22701	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00084	ug/L		J+
E227	MDA G-13	09/04/05	WT	UF	CS	GU05090E22701	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00017	ug/L		
E242.5	La Delfe above Pajarito	07/15/05	WT	UF	RE	GU0507E242501	121-82-4	RDX		1.5	ug/L	PX	J
E242.5	La Delfe above Pajarito	07/15/05	WT	UF	RE	GU0507E242501	121-82-4	RDX		1.5	ug/L	PX	JN+
E242.5	La Delfe above Pajarito	07/15/05	WT	UF	RE	GU0507E242501	121-82-4	RDX		1.5	ug/L	PX	J
E242.5	La Delfe above Pajarito	07/15/05	WT	UF	RE	GU0507E242501	2691-41-0	HMX		0.56	ug/L	J	J
E242.5	La Delfe above Pajarito	07/15/05	WT	UF	RE	GU0507E242501	2691-41-0	HMX		0.56	ug/L	J	J
E242.5	La Delfe above Pajarito	08/04/05	WT	UF	CS	GU0508E242501	121-82-4	RDX		2.1	ug/L	P	J
E242.5	La Delfe above Pajarito	08/04/05	WT	UF	CS	GU0508E242501	121-82-4	RDX		2.1	ug/L	P	J
E242.5	La Delfe above Pajarito	08/04/05	WT	UF	CS	GU0508E242501	2691-41-0	HMX		0.85	ug/L		
E242.5	La Delfe above Pajarito	08/06/05	WT	UF	CS	GU0508E242502	121-82-4	RDX		0.72	ug/L	P	J
E242.5	La Delfe above Pajarito	08/06/05	WT	UF	CS	GU0508E242502	2691-41-0	HMX		0.74	ug/L		
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	CS	GU0508E242503	2691-41-0	HMX		0.83	ug/L		J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	CS	GU0508E242503	121-82-4	RDX		0.6	ug/L	J	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	CS	GU0508E242503	121-82-4	RDX		0.6	ug/L	J	J-
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	CS	GU0508E242503	2691-41-0	HMX		0.83	ug/L		J-
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	121-82-4	RDX		2.2	ug/L	PX	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	121-82-4	RDX		2.2	ug/L	PX	NJ
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	121-82-4	RDX		2.2	ug/L	PX	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	2691-41-0	HMX		1.9	ug/L		J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	99-08-1	Nitrotoluene[3-]		0.36	ug/L	JP	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	99-08-1	Nitrotoluene[3-]		0.36	ug/L	JP	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	99-08-1	Nitrotoluene[3-]		0.36	ug/L	JP	J
E242.5	La Delfe above Pajarito	08/12/05	WT	UF	RE	GU0508E242503	2691-41-0	HMX		1.9	ug/L		J
E243.5	Twomile tributary at TA-3	04/16/05	WT	UF	CS	GF0504E243501	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.0002	ug/L		
E243.5	Twomile tributary at TA-3	04/16/05	WT	UF	CS	GF0504E243501	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.0025	ug/L		
E243.5	Twomile tributary at TA-3	04/24/05	WT	UF	CS	GU0504E243502	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00024	ug/L		
E243.5	Twomile tributary at TA-3	05/27/05	WT	UF	CS	GU0505E243502	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00011	ug/L		J
E243.5	Twomile tributary at TA-3	06/11/05	WT	UF	CS	GU0506E243501	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00052	ug/L		
E244	Twomile above Pajarito	08/22/05	WT	UF	CS	GU05080E24401	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00051	ug/L		
E245	Pajarito above TA-18	08/25/05	WT	UF	CS	GU05080E24505	2691-41-0	HMX		0.3	ug/L	J	J
E245	Pajarito above TA-18	08/25/05	WT	UF	CS	GU05080E24505	2691-41-0	HMX		0.3	ug/L	J	J
E245	Pajarito above TA-18	08/25/05	WT	UF	CS	GU05080E24505	2691-41-0	HMX		0.3	ug/L	J	J-
E248.5	MDA G-6U	04/24/05	WT	UF	CS	GU0504E248501	67-64-1	Acetone		8.3	ug/L		

Table A9. FFCA Watershed Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag
E248.5	MDA G-6U	04/24/05	WT	UF	CS	GU0504E248501	78-93-3	Butanone[2-]		2	ug/L	J	
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	11097-69-1	Aroclor-1254		0.11	ug/L		J-
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	11096-82-5	Aroclor-1260		0.095	ug/L	J	J-
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	67-64-1	Acetone		50.8	ug/L		
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	78-93-3	Butanone[2-]		8.4	ug/L		
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	11096-82-5	Aroclor-1260		0.095	ug/L	J	J
E248.5	MDA G-6U	07/15/05	WT	UF	CS	GU0507E248501	11097-69-1	Aroclor-1254		0.11	ug/L		J
E248.5	MDA G-6U	09/29/05	WT	UF	CS	GU0509E248501	67-64-1	Acetone		9	ug/L		
E250	Pajarito above SR-4	08/12/05	WT	UF	CS	GU05080E25001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00022	ug/L		
E252.8	S Site Canyon above Water	08/12/05	WT	UF	CS	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J-
E252.8	S Site Canyon above Water	08/12/05	WT	UF	CS	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J
E252.8	S Site Canyon above Water	08/12/05	WT	UF	RE	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J
E252.8	S Site Canyon above Water	08/12/05	WT	UF	RE	GU0508E252801	121-82-4	RDX		0.33	ug/L	J	J
E252.8	S Site Canyon above Water	08/12/05	WT	UF	RE	GU0508E252801	121-82-4	RDX		0.33	ug/L	J	J-
E252.8	S Site Canyon above Water	08/12/05	WT	UF	RE	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J-
E252.8	S Site Canyon above Water	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J
E252.8	S Site Canyon above Water	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J
E252.8	S Site Canyon above Water	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J-
E256	Canon de Valle below MDA P	03/31/05	WM	UF	CS	GU05030M25601	19406-51-0	Amino-2,6-dinitrotoluene[4-]		2.7	ug/L		
E256	Canon de Valle below MDA P	03/31/05	WM	UF	CS	GU05030M25601	2691-41-0	HMX		52.3	ug/L		
E256	Canon de Valle below MDA P	03/31/05	WM	UF	CS	GU05030M25601	35572-78-2	Amino-4,6-dinitrotoluene[2-]		2.5	ug/L		
E256	Canon de Valle below MDA P	03/31/05	WM	UF	CS	GU05030M25601	121-82-4	RDX		55.2	ug/L		
E256	Canon de Valle below MDA P	08/04/05	WT	UF	CS	GU05080E25601	2691-41-0	HMX		5.4	ug/L		J-
E256	Canon de Valle below MDA P	08/04/05	WT	UF	CS	GU05080E25601	121-82-4	RDX		7.2	ug/L		J-
E256	Canon de Valle below MDA P	08/04/05	WT	UF	CS	GU05080E25601	121-82-4	RDX		7.2	ug/L		J
E256	Canon de Valle below MDA P	08/06/05	WT	UF	CS	GU05080E25602	121-82-4	RDX		10.6	ug/L		J-
E256	Canon de Valle below MDA P	08/06/05	WT	UF	CS	GU05080E25602	2691-41-0	HMX		9.9	ug/L		J-
E256	Canon de Valle below MDA P	08/06/05	WT	UF	CS	GU05080E25602	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.25	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.18	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.18	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.18	ug/L	J	J+
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	2691-41-0	HMX		10.8	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	2691-41-0	HMX		10.8	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	121-82-4	RDX		9	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25603	121-82-4	RDX		9	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25604	121-82-4	RDX		0.37	ug/L	J	J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25604	2691-41-0	HMX		0.43	ug/L	J	J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25604	2691-41-0	HMX		0.43	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	CS	GU05080E25604	121-82-4	RDX		0.37	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	121-82-4	RDX		25.7	ug/L		J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	35572-78-2	Amino-4,6-dinitrotoluene[2-]		0.34	ug/L	J	J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	35572-78-2	Amino-4,6-dinitrotoluene[2-]		0.34	ug/L	J	J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	35572-78-2	Amino-4,6-dinitrotoluene[2-]		0.34	ug/L	J	J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.65	ug/L		J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.65	ug/L		J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.65	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	2691-41-0	HMX		36.9	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	2691-41-0	HMX		36.9	ug/L		J

Table A9. FFCA Watershed Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	2691-41-0	HMX		36.9	ug/L		J
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	121-82-4	RDX		25.7	ug/L		J-
E256	Canon de Valle below MDA P	08/12/05	WT	UF	RE	GU05080E25604	121-82-4	RDX		25.7	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/04/05	WT	UF	CS	GU05080E25701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		1	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/04/05	WT	UF	CS	GU05080E25701	121-82-4	RDX		11.6	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/04/05	WT	UF	CS	GU05080E25701	2691-41-0	HMX		11.1	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/04/05	WT	UF	CS	GU05080E25701	121-82-4	RDX		11.6	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/06/05	WT	UF	CS	GU05080E25702	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.15	ug/L	J	J-
E257	Canon de Valle tributary at Burn Grounds	08/06/05	WT	UF	CS	GU05080E25702	2691-41-0	HMX		7.4	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/06/05	WT	UF	CS	GU05080E25702	121-82-4	RDX		1.6	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	2691-41-0	HMX		120	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	118-96-7	Trinitrotoluene[2,4,6-]		2.9	ug/L	PX	J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	118-96-7	Trinitrotoluene[2,4,6-]		2.9	ug/L	PX	J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	118-96-7	Trinitrotoluene[2,4,6-]		2.9	ug/L	PX	NJ
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	121-82-4	RDX		11.6	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	19406-51-0	Amino-2,6-dinitrotoluene[4-]		2.3	ug/L		J+
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	19406-51-0	Amino-2,6-dinitrotoluene[4-]		2.3	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	19406-51-0	Amino-2,6-dinitrotoluene[4-]		2.3	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25703	35572-78-2	Amino-4,6-dinitrotoluene[2-]		0.79	ug/L	P	J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25704	2691-41-0	HMX		0.55	ug/L	J	J
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	CS	GU05080E25704	2691-41-0	HMX		0.55	ug/L	J	J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	2691-41-0	HMX		22.4	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	2691-41-0	HMX		22.4	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	2691-41-0	HMX		22.4	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	121-82-4	RDX		3.3	ug/L		J-
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	121-82-4	RDX		3.3	ug/L		J
E257	Canon de Valle tributary at Burn Grounds	08/12/05	WT	UF	RE	GU05080E25704	121-82-4	RDX		3.3	ug/L		J
E262	Canon de Valle above Water	03/30/05	WM	UF	CS	GU05030M26201	121-82-4	RDX		2.9	ug/L		J-
E262	Canon de Valle above Water	03/30/05	WM	UF	CS	GU05030M26201	2691-41-0	HMX		14.6	ug/L		J-
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	2691-41-0	HMX		4.1	ug/L		J
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	2691-41-0	HMX		4.1	ug/L		J-
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	121-82-4	RDX		3	ug/L	P	J
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	121-82-4	RDX		3	ug/L	P	J-
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	121-82-4	RDX		3	ug/L	P	J
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	121-82-4	RDX		3	ug/L	P	J
E262	Canon de Valle above Water	08/24/05	WT	UF	CS	GU05080E26202	2691-41-0	HMX		4.1	ug/L		J
E262.5	Water below MDA AB	03/30/05	WM	UF	CS	GU0503M262501	2691-41-0	HMX		1.4	ug/L		
E263	Water at SR-4	03/28/05	WM	UF	CS	GU05030M26301	2691-41-0	HMX		1.7	ug/L		
E263	Water at SR-4	08/12/05	WT	UF	RE	GU05080E26301	2691-41-0	HMX		0.27	ug/L	J	J
E263	Water at SR-4	08/12/05	WT	UF	RE	GU05080E26301	2691-41-0	HMX		0.27	ug/L	J	J

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	EPA:900			EPA:900			EPA:901.1			EPA:901.1			EPA:901.1			EPA:901.1			EPA:901.1		
						Gross Alpha			Gross Beta			Cobalt-60			Cesium-137			Potassium-40			Sodium-22			Neptunium-237		
						pCi/L			pCi/L			pCi/L			pCi/L			pCi/L			pCi/L			pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
E026	Los Alamos below Ice Rink	18-MAR-2005	WM	UF	GU05030M02601	0.357	0.408	1.65	3.16	0.497	1.56	0.42	0.767	2.76				23.6	19.7	29.9	1.07	0.465	2.45	-2.65	6.2	18.1
E026	Los Alamos below Ice Rink	16-APR-2005	WT	UF	GU05040E02601																					
E026	Los Alamos below Ice Rink	17-APR-2005	WT	UF	GU05040E02602	36.8	2.29	2.61	61.2	3.94	7.23	0.511	1.14	4.54	1.75	1.23	4.78	65.2	15.2	66.2	1.62	1.37	5.32	8.65	5.72	15.6
E030	Los Alamos above DP Canyon	18-MAR-2005	WM	UF	GU05030M03001	0.181	0.461	1.82	3.72	0.487	1.44	-0.416	0.569	1.95	-0.666	0.53	1.75	14.7	11.1	17.6	-0.983	0.459	1.46	0.802	4.49	15.4
E030	Los Alamos above DP Canyon	19-OCT-2005	WT	UF	GU05100E03001	9.44	0.748	1.23	22	1.52	3.3	1.35	1.37	5.27	1.06	1.32	4.84				-1.52	1.39	4.76	-2.8	7.47	25.8
E038	DP above TA-21	16-APR-2005	WT	UF	GU05040E03801																					
E038	DP above TA-21	24-APR-2005	WT	UF	GU05040E03802	3.84	0.542	1.07	12.5	0.887	2.3	0.614	0.793	3.05	0.0937	0.805	2.84	12.5	18.7	28.5	0.184	0.812	3.01	8.87	6.5	23
E038	DP above TA-21	01-MAY-2005	WT	UF	GU05050E03801	2.08	0.444	1.19	5.51	0.705	2.05	0.669	0.62	2.4	0.439	0.7	2.24	9.85	19.1	22.9	0.409	0.603	2.29	4.82	8.69	16.6
E038	DP above TA-21	15-JUL-2005	WT	UF	GU05070E03801	34.2	4.44	9.74	55.9	5.28	13.4	3.05	1.19	4.62	-0.314	0.973	3.31	156	20.7	31.7	-0.778	0.972	3.32	5.98	9.25	27.7
E038	DP above TA-21	05-AUG-2005	WT	UF	GU05080E03801	29.1	5.4	4.46	48.6	3.53	6.6	0.83	1.06	3.36	-0.184	0.829	2.82	57.5	19.4	28.5	0.429	0.918	3.29	9.65	6.65	20.7
E039	DP below Meadow at TA-21	03-MAY-2005	WT	UF	GU05050E03901	6.72	0.729	1.18	14.5	0.81	1.91	2.01	0.827	3.21	1.48	0.71	2.66	30.6	15.2	23.7	2.45	1.55	2.58	-7.08	5.53	18.1
E039	DP below Meadow at TA-21	15-JUL-2005	WT	UF	GU05070E03901	75.7	4.26	2.92	120	7.85	15.1	1.24	0.955	3.63	0.115	0.831	2.99				0.356	0.802	2.98	-9.76	8.12	23.8
E039	DP below Meadow at TA-21	04-AUG-2005	WT	UF	GU05080E03901	40.7	5.57	7.27	95.9	5.88	10.2	1.26	1.14	4.25	6.59	1.7	3.38				2.5	2.32	3.18	14.3	6.23	22.5
E039	DP below Meadow at TA-21	12-AUG-2005	WT	UF	GU05080E03902	3.37	0.902	1.5	23.3	2.33	4.32	4.19	1.48	4.39	2.07	1.03	3.74				0.98	1.1	4.03	-3.08	7.49	23.7
E040	DP above Los Alamos Canyon	22-MAR-2005	WM	UF	GU05030M04001	1.97	1.16	2.04	151	2.03	1.58	2.18	0.735	2.95	1.91	1.03	2.33	22.8	18.9	24.4	0.496	0.637	2.4	-7.47	6.38	19.7
E040	DP above Los Alamos Canyon	03-MAY-2005	WT	UF	GU05050E04001	30.2	1.95	2.59	73.5	4.02	2.3	4.5	2.32	4.66	0.156	1.63	3.76				0.432	1.07	4.08	10.1	7.31	26
E040	DP above Los Alamos Canyon	04-AUG-2005	WT	UF	GU05080E04001	121	12.4	10.8	239	11.9	14.1	0.0329	2.41	4.7	29.8	3.02	4.17	130	33.9	45.4	-2.59	1.2	3.88	-0.752	8.71	27.7
E040	DP above Los Alamos Canyon	11-AUG-2005	WT	UF	GU05080E04002	90.5	10.5	17.6	229	11.4	16.7	1.97	1.05	3.52	29.5	2.87	2.88	172	30.4	28.8	0.49	0.878	3.17	8.72	6.21	21.7
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04004	123	18.4	36.6	251	19	38.8	-0.435	1.3	4.53	17.4	2.87	4.19				0.114	1.16	4.16	0.713	7.23	22.4
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04005																					
E042	Los Alamos above SR-4	18-MAR-2005	WM	UF	GU05030M04201	0.334	0.559	2	8.21	0.585	1.38	-0.671	0.735	2.46	-0.0284	0.698	2.36				0.52	0.708	2.54	8.46	6.92	17.4
E042	Los Alamos above SR-4	16-APR-2005	WT	UF	GU05040E04201	24.4	3.04	1.45	113	3.65	4.27	0.976	0.887	3.49	14.1	1.68	3.33	277	31	37.7	0.887	0.944	3.64	-9.14	7.49	24.6
E042	Los Alamos above SR-4	03-MAY-2005	WT	UF	GU05050E04201	7.4	0.827	1.44	61.6	1.75	2.39	1.75	1.55	3.97	2	0.925	3.54	120	22.2	32.3	-1.84	0.921	2.93	-5.42	7.25	24.7
E042	Los Alamos above SR-4	15-JUL-2005	WT	UF	GU05070E04201	90.4	5.31	4.49	188	8.7	14.6	0.873	1.14	4.45				158	24.9	35.1	-0.654	1.01	3.61	-11.5	8.33	26.8
E042	Los Alamos above SR-4	04-AUG-2005	WT	UF	GU05080E04201	243	25.6	30	465	23.9	35.1	2.05	1.94	3.98	68.1	3.92	4.01	270	31.1	37.6	-0.234	1.2	3.61	22.3	8.68	26.4
E042	Los Alamos above SR-4	12-AUG-2005	WT	UF	GU05080E04202	132	24.4	51.7	179	11.7	29.3				25.7	1.98	3.63	163	34.7	34.1	-1.52	1.13	3.8	13.6	6.15	24.3
E050	Los Alamos below LA Weir	22-MAR-2005	WM	UF	GU05030M05001	0.205	0.33	1.31	9.27	0.606	1.37	0.765	0.966	3.86	0.107	0.899	3.28	1.79	18	41.7	0.874	0.969	3.88	16.1	12.1	21.6
E050	Los Alamos below LA Weir	24-APR-2005	WT	UF	GU05040E05001	2.95	0.535	1.41	5.52	0.673	1.92	2.47	0.932	3.45	15.5	1.91	3.24	144	23.4	27.7	1.32	1.02	3.95	3.95	8.11	27.7
E050	Los Alamos below LA Weir	15-JUL-2005	WT	UF	GU05070E05001	49.2	4.5	2.03	78	2.97	4.7	0.0825	0.885	3.19	1.79	0.835	3.21				-0.0217	0.775	2.81	3.57	8.5	26.1
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05001	25.5	3.36	4.24	46.3	3.72	9.14	-0.711	1.25	4.22	10.1	3	4.02				0.749	1.23	4.36	23.4	7.87	25.7
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05002	20.8	2.45	2.08	45	1.9	3.18	1.29	1.63	5.08	2.41	3.61	4.28	23.6	30.7	41.3	1.22	1.18	4.3	-3.51	7.79	25.5
E055	Pueblo above Acid	30-MAR-2005	WM	UF	GU05030M05501	-0.176	0.581	2.38	5.65	0.865	2.91	-0.712	0.57	1.91	0.239	0.589	2.07	9.02	13.5	21.5	-0.137	0.544	1.94	4.93	4.72	16.4
E055	Pueblo above Acid	03-MAY-2005	WT	UF	GU05050E05501	28.8	1.73	1.41	44.3	1.51	2.03	0.553	1.12	4.29	2.81	1.12	4.39	143	30.3	37.4	0.852	0.933	4.25	10.2	8.25	28.6
E055	Pueblo above Acid	15-JUL-2005	WT	UF	GU05070E05501	22.6	1.77	2.19	39	4.91	14	2.21	1.84	4.93	4.83	1.31	3.07	131	23.2	29.1	0.359	1.02	3.83	9.86	8.08	24.9
E055	Pueblo above Acid	12-AUG-2005	WT	UF	GU05080E05501	32.2	4.88	5.65	49	5.42	14	4.83	2.61	5.48	0.713	1.2	4.19	24.5	24.3	37	-2.93	1.08	3.31	4.52	7.05	23.8
E055	Pueblo above Acid	13-AUG-2005	WT	UF	GU05080E05502	57.7	9.87	5.14	67.3	5.1	9.53	-1.52	1.24	4.17	1.32	1.15	4.15	147	34.9	37.7	-1.59	1.26	4.22	3.29	6.28	21.8
E0555	South Fork of Acid Canyon	05-AUG-2005	WT	UF	GU0508E055501																					
E0555	South Fork of Acid Canyon	25-AUG-2005	WT	UF	GU0508E055503	43.1	3.21	1.79	26.2	2.96	7.72	-1.92	1.36	3.71	2.38	1.33	4.83	31.5	31	52.2	0.298	1.32	4.24	8.26	8.19	28.1
E056	Acid above Pueblo	24-AUG-2005	WT	UF	GU05080E05602	153	16.9	18.4	164	10.5	21	0.983	1.08	4.03							0.232	1.17	4.2	-2.47	8.28	26.3
E056	Acid above Pueblo	28-SEP-2005	WT	UF	GU05090E05601	95.4	12.5	9.75	62.4	6.02	13.5	-0.987	1.36	4.71	1.34	1.13	4.21	94.9	23.6	44.5	-1.7	1.33	4.44	0.769	10.6	31.4
E060	Pueblo above SR-502	24-AUG-2005	WT	UF	GU05080E06002	33	4.92	10.8	47.3	3.26	7.76	0.773	1.22	4.45	0.712	1.06	3.71				0.541	1.08	3.99	1.13	7.04	23.5
E060	Pueblo above SR-502	25-AUG-2005	WT	UF	GU05080E06003	5.13	1.47	3.91	19.4	1.81	5.28	1.54	1.22	4.67	2.16	1.2	4.41				0.235	1.28	4.64	1.35	11.7	26.1
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06001	11.9	2.73	6.8	48.9	4.18	10.1	2.56	1.32	4.88	-0.169	1.32	4.56	96.8	28.2	44.2	-0.956	1.41	4.91	11.3	15.2	29.5
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06002	19	3.65	5.53	42.3	4.42	12.8	0.465	1.54	4.94	1.09	1.31	4.82	70.3	28.3	40.8	0.154	1.47	5.37	7.95	7.49	26.6
E110	Los Alamos Canyon near	20-APR-2005	WM	UF	GU05030M11001	47.7	2.8	2.37	94.9	3.06	4.54	1.22	0.494	3.64	1.55	1.06	4.08	16.7	17.6	44.5	1.26	0.99	3.99	16.4	8.23	28.7
E121	Sandia right fork at Power	16-APR-2005	WT	UF	GU05040E12101	19.3	1.54	1.62	44.7	1.97	4.03	0.496	0.911	3.51	-0.757	0.953	3.22	1.32	21.5	39.4	0.718	0.983	3.78	6.66	5.78	19.2
E121	Sandia right fork at Power	15-JUL-2005	WT	UF	GU05070E12101	26.6	2.25	2.36	63	2.45	4.85				1.15	1.02	3.83	45.6	13.5	56	-0.897	1.12	3.89	14	10.3	27.5
E121	Sandia right fork at Power	20-JUL-2005	WT	UF	GU05070E12102	11.3	1.12	1.43	19.3	4.32	15.8	3.56	1.07	4.59	-1.32	0.955	3.23	13	18.3	42.1	1.11	0.953	3.76	7.9	6.39	20.9
E121	Sandia right fork at Power	04-AUG-2005	WT	UF	GU05080E12101																					
E121	Sandia right fork at Power	12-AUG-2005	WT	UF	GU05080E12102	17.3	2.48	2.68	33.5	1.89	3.32	0.712	1.04	3.8	0.225	0.983	3.38				-0.0282	0.966	3.43	-5.85	6.72	22.2
E124	Sandia above Firing Range	03-MAY-2005	WT	UF	GU05050E12401																					
E124	Sandia above Firing Range	15-JUL-2005	WT	UF	GU05070E12401	261	13.2	11.2	524	11.3	14.4	2.25	1.55	5.31	6.73	2.22	3.98	420	37.3	32	-2.19	1.19	3.9	16	13.6	32.4
E124	Sandia above Firing Range	20-JUL-2005	WT	UF	GU05070E12402	20	3.3	2.48	51.1	6.13	15.3	-0.484	0.715	2.43	0.108	0.68	2.37	65.1	16.2	19.8	-0.0059	0.683	2.42	7.03	3.87	10.3
E124	Sandia above Firing Range	23-JUL-2005	WT	UF	GU05070E12403	111	14.7	17.3	274	15.9	29.4	0.335	0.888	2.93	0.216	0.795	2.87				-0.011	0.762	2.68	5.83	6.65	10.6
E124	Sandia above Firing Range	04-AUG-2005	WT	UF	GU05080E12401	49.6	6.95	8.46	77.5	7.57	15.4	1.87	1.26	4.73	0.19	1.1	3.9				-0.0297	1.12	4.01	8.98	6.46	22.7
E125	Sandia above SR-4	29-SEP-2005	WT	UF	GU05090E12501	47.3	6.83	7.14	64.8	6.25	16.2	0.97	1.82	6.64	1.93	1.71	6.09	40.5	29.5	58.3	2.33	2.15	6.01	7.23	11.3	38.6
E200	Mortandad below Effluent	24-APR-2005	WT	UF	GU05040E20001	29.7	2.59	1.95	26.4	1.12	1.87	0.276	1.11	3.97	27.9	2.44	3.73	119	23	29.7	0.0788	1.03	3.2	15	8.22	28
E200	Mortandad below Effluent	03-MAY-2005	WT	UF	GU05050E20001	96.8	5.83	5.09	174	9.4	5.26	0.941	0.647	2.52	4.27	1.72	2.48	68.7	15.6	21.8	1.3	0.663	2.63	6.9	7.48	20.7

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	EPA:905.0			EPA:906.0			HASL-300:AM-241			HASL-300:ISOPU			HASL-300:ISOPU			HASL-300:ISOU		
						Strontium-90			Tritium			Americium-241			Pu-238			Pu-239,240			U-234		
						pCi/L			pCi/L			pCi/L			pCi/L			pCi/L			pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
E026	Los Alamos below Ice Rink	18-MAR-2005	WM	UF	GU05030M02601	0.22	0.13	0.427	50.3	72.2	243	0.00469	0.00469	0.037	0.00628	0.00629	0.065	-0.00628	0.00629	0.055	0.0221	0.0137	0.075
E026	Los Alamos below Ice Rink	16-APR-2005	WT	UF	GU05040E02601				117	64.8	212												
E026	Los Alamos below Ice Rink	17-APR-2005	WT	UF	GU05040E02602	0.49	0.106	0.376				0.0167	0.0104	0.038	0.0137	0.00707	0.041	0.0879	0.0135	0.034	1.97	0.116	0.07
E030	Los Alamos above DP Canyon	18-MAR-2005	WM	UF	GU05030M03001	0.841	0.204	0.641	104	60.1	197	0.0151	0.00715	0.04	-0.00548	0.00868	0.057	0.0356	0.0114	0.048	0.0388	0.0128	0.07
E030	Los Alamos above DP Canyon	19-OCT-2005	WT	UF	GU05100E03001	0.538	0.142	0.476	199	70.1	223	-0.0094	0.0152	0.0577	0.00762	0.0054	0.0396	1.39	0.0707	0.0334	1.59	0.087	0.0707
E038	DP above TA-21	16-APR-2005	WT	UF	GU05040E03801				-38.2	59.3	207												
E038	DP above TA-21	24-APR-2005	WT	UF	GU05040E03802	0.227	0.0772	0.267				0.00484	0.00684	0.038	0.0129	0.0065	0.034	0.0243	0.0075	0.028	0.788	0.0585	0.079
E038	DP above TA-21	01-MAY-2005	WT	UF	GU05050E03801	0.122	0.0879	0.334	168	72.3	235	-0.00427	0.0116	0.037	0.00196	0.00519	0.041	0.208	0.0228	0.034	0.422	0.0361	0.063
E038	DP above TA-21	15-JUL-2005	WT	UF	GU05070E03801	0.0728	0.0763	0.254	50.9	61.5	206	0.0386	0.018	0.038	0.0144	0.00617	0.043	0.0471	0.0108	0.036	2.4	0.146	0.085
E038	DP above TA-21	05-AUG-2005	WT	UF	GU05080E03801	0.115	0.0453	0.174	40.3	62.7	212	0.00282	0.00518	0.03	0.00347	0.00918	0.036	0.0364	0.012	0.03	4.46	0.232	0.065
E039	DP below Meadow at TA-21	03-MAY-2005	WT	UF	GU05050E03901	2.95	0.148	0.282	142	72.7	238	0.346	0.036	0.04	0.0368	0.00859	0.036	0.179	0.0198	0.031	1.12	0.0763	0.077
E039	DP below Meadow at TA-21	15-JUL-2005	WT	UF	GU05070E03901	4.44	0.164	0.227	0	64.1	219	0.152	0.0211	0.031	0.0118	0.00783	0.049	0.198	0.0256	0.041	5.42	0.356	0.16
E039	DP below Meadow at TA-21	04-AUG-2005	WT	UF	GU05080E03901	2.45	0.151	0.292	0	63.8	218	0.544	0.0423	0.031	0.16	0.0208	0.048	1.19	0.068	0.041	3.87	0.26	0.152
E039	DP below Meadow at TA-21	12-AUG-2005	WT	UF	GU05080E03902	10.1	0.317	0.282	76.5	59.7	197	0.0808	0.0223	0.048	-0.00223	0.00865	0.046	0.0513	0.013	0.039	0.352	0.0318	0.059
E040	DP above Los Alamos Canyon	22-MAR-2005	WM	UF	GU05030M04001	78.8	2.66	0.535	328	71.1	218	0.0216	0.0184	0.034	-0.0184	0.0107	0.043	0.0184	0.00798	0.036	0.235	0.0273	0.074
E040	DP above Los Alamos Canyon	03-MAY-2005	WT	UF	GU05050E04001	21.7	0.428	0.298	29.1	72.9	245	2.09	0.145	0.064	0.21	0.0248	0.047				3.64	0.211	0.092
E040	DP above Los Alamos Canyon	04-AUG-2005	WT	UF	GU05080E04001	22.3	0.437	0.21	157	64.1	206	8.58	0.428	0.035	0.644	0.0631	0.092	3.75	0.204	0.078	13.7	0.714	0.198
E040	DP above Los Alamos Canyon	11-AUG-2005	WT	UF	GU05080E04002	24.6	0.586	0.298	87.4	59.2	195	9.83	0.461	0.025	1.03	0.0945	0.108	5.2	0.324	0.091	10.1	0.536	0.23
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04004	22.3	0.558	0.297				4.64	0.278	0.032	0.395	0.0367	0.059	2.78	0.137	0.049	7.12	0.38	0.103
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04005				62.4	69.4	232												
E042	Los Alamos above SR-4	18-MAR-2005	WM	UF	GU05030M04201	2.31	0.312	0.885	109	75	248	0.0222	0.0113	0.032	-0.00225	0.0103	0.047	0.0314	0.00964	0.039	0.0674	0.0148	0.073
E042	Los Alamos above SR-4	16-APR-2005	WT	UF	GU05040E04201	5.16	0.22	0.361	0	60.5	208	9.62	0.477	0.035	0.477	0.0488	0.069	7.34	0.409	0.058	18.4	1.3	1.05
E042	Los Alamos above SR-4	03-MAY-2005	WT	UF	GU05050E04201	6.86	0.218	0.261	145	74.3	243	1.99	0.143	0.063	0.13	0.0207	0.046				4.07	0.229	0.087
E042	Los Alamos above SR-4	15-JUL-2005	WT	UF	GU05070E04201	3.07	0.149	0.241	-19.2	61.2	211	1.4	0.096	0.032	0.0963	0.024	0.059	5.82	0.253	0.05	8.31	0.511	0.256
E042	Los Alamos above SR-4	04-AUG-2005	WT	UF	GU05080E04201	22.9	0.42	0.173	77.6	61.4	204	7.59	0.436	0.027	0.479	0.0421	0.058	2.71	0.134	0.049	20.5	1.04	0.205
E042	Los Alamos above SR-4	12-AUG-2005	WT	UF	GU05080E04202				179	63.8	203	7.73	0.477	0.086	0.39	0.041	0.062	3.17	0.184	0.052	7.64	0.454	0.118
E050	Los Alamos below LA Weir	22-MAR-2005	WM	UF	GU05030M05001	1.36	0.192	0.574	47.1	66.2	222	0.0151	0.00839	0.034	-0.00986	0.0194	0.051	-0.00246	0.0154	0.043	0.0667	0.0161	0.07
E050	Los Alamos below LA Weir	24-APR-2005	WT	UF	GU05040E05001	1.87	0.148	0.326	77.4	57	189	2.41	0.143	0.043	0.14	0.0195	0.039	2.57	0.141	0.033	6.81	0.397	0.145
E050	Los Alamos below LA Weir	15-JUL-2005	WT	UF	GU05070E05001	1.44	0.199	0.503	60.6	66.4	222	0.386	0.0375	0.031	0.0652	0.0138	0.048	3.03	0.137	0.041	4.44	0.265	0.118
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05001	8.13	0.294	0.306	188	73.3	237	1.09	0.0704	0.033	0.244	0.0308	0.044	1.78	0.105	0.037	4.08	0.252	0.121
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05002	4.08	0.175	0.203	-30.5	65.7	227	1.35	0.0921	0.032	0.0944	0.0161	0.044	1.12	0.0637	0.038	1.67	0.105	0.077
E055	Pueblo above Acid	30-MAR-2005	WM	UF	GU05030M05501	0.789	0.13	0.345	136	68.1	222	-0.0129	0.0173	0.041	5.84E-10	0.006	0.051	0.00734	0.00735	0.043	-0.00889	0.0215	0.068
E055	Pueblo above Acid	03-MAY-2005	WT	UF	GU05050E05501	0.278	0.0771	0.242	87.1	73.5	244	-0.00133	0.0196	0.084	0.0202	0.0101	0.052				4.4	0.281	0.138
E055	Pueblo above Acid	15-JUL-2005	WT	UF	GU05070E05501	0.0186	0.0622	0.237	38.2	67	226	0.0125	0.0226	0.05	0.112	0.0222	0.077	0.104	0.0208	0.065	2.11	0.127	0.079
E055	Pueblo above Acid	12-AUG-2005	WT	UF	GU05080E05501	0.628	0.11	0.35	169	61.5	199	-0.000377	0.00716	0.033	0.0133	0.0128	0.055	0.0399	0.0149	0.047	1.74	0.107	0.078
E055	Pueblo above Acid	13-AUG-2005	WT	UF	GU05080E05502	0.493	0.121	0.428	-49.6	64.8	225	0.0237	0.0095	0.032	0.0176	0.0162	0.073	0.0774	0.0215	0.062	8.19	0.472	0.191
E0555	South Fork of Acid Canyon	05-AUG-2005	WT	UF	GU0508E055501				77.1	60.9	202												
E0555	South Fork of Acid Canyon	25-AUG-2005	WT	UF	GU0508E055503	2.54	0.167	0.318	156	58.7	187	3.11	0.196	0.036	0.825	0.173	0.535	235	8.26	0.452	1.69	0.0851	0.0586
E056	Acid above Pueblo	24-AUG-2005	WT	UF	GU05080E05602	0.297	0.0533	0.166				6.37	0.375	0.031	0.42	0.141	0.581	106	3.99	0.491	9.36	0.502	0.179
E056	Acid above Pueblo	28-SEP-2005	WT	UF	GU05090E05601	0.16	0.0838	0.347				2.55	0.145	0.0403	0.13	0.0165	0.0337	27	0.931	0.0285			
E060	Pueblo above SR-502	24-AUG-2005	WT	UF	GU05080E06002	0.086	0.0484	0.181				0.482	0.0445	0.045	0.0275	0.0911	0.57	14.2	0.792	0.481	2.12	0.12	0.0623
E060	Pueblo above SR-502	25-AUG-2005	WT	UF	GU05080E06003	0.469	0.125	0.423				0.0461	0.0138	0.03	0.017	0.0144	0.0441	0.537	0.0433	0.0372	1.04	0.0655	0.0575
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06001	0.204	0.114	0.467	44	73	246	0.0503	0.0135	0.0375	0.00907	0.0107	0.0377	0.803	0.0478	0.0318	0.92	0.0594	0.0564
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06002	0.566	0.149	0.497	42.5	70.5	238	0.114	0.0233	0.0455	0.0212	0.0104	0.0401	2.94	0.127	0.0338	0.732	0.0509	0.0551
E110	Los Alamos Canyon near	20-APR-2005	WM	UF	GU05030M11001	2.05	0.14	0.328	153	64.2	207	0.106	0.0202	0.045	0.00442	0.00542	0.046	0.373	0.0323	0.039	3.47	0.231	0.14
E121	Sandia right fork at Power	16-APR-2005	WT	UF	GU05040E12101	0.0876	0.0726	0.307	0	60.2	207	0.00442	0.00625	0.035	0.0151	0.00801	0.039	0.0151	0.00598	0.033	1.4	0.0846	0.061
E121	Sandia right fork at Power	15-JUL-2005	WT	UF	GU05070E12101	0.304	0.0875	0.27	-29.4	59.5	206	-0.0344	0.0163	0.031	0.0141	0.0101	0.042	0.00808	0.007	0.035	1.04	0.0673	0.065
E121	Sandia right fork at Power	20-JUL-2005	WT	UF	GU05070E12102	-0.0195	0.0652	0.305	212	78.5	251	-0.00662	0.0242	0.093	0.00904	0.0202	0.094	0.0271	0.0143	0.079	1.57	0.097	0.072
E121	Sandia right fork at Power	04-AUG-2005	WT	UF	GU05080E12101				-125	67.1	241												
E121	Sandia right fork at Power	12-AUG-2005	WT	UF	GU05080E12102	0.0263	0.0652	0.287				0.00907	0.00712	0.035	0.00445	0.0126	0.046	0.00445	0.00771	0.039	1.45	0.0928	0.076
E124	Sandia above Firing Range	03-MAY-2005	WT	UF	GU05050E12401				55.5	69.8	233												
E124	Sandia above Firing Range	15-JUL-2005	WT	UF	GU05070E12401	0.499	0.0779	0.233	112	61.6	201	0.0941	0.0192	0.031	0.0469	0.0193	0.081	0.129	0.0249	0.068	69.1	4.62	1.13
E124	Sandia above Firing Range	20-JUL-2005	WT	UF	GU05070E12402	0.186	0.0489	0.165	0	63.4	217	-0.0145	0.0119	0.042	0.00169	0.00737	0.035	0.106	0.0152	0.03	1.91	0.0954	0.063
E124	Sandia above Firing Range	23-JUL-2005	WT	UF	GU05070E12403	0.066	0.0666	0.253				0.00862	0.00945	0.03	0.00168	0.00557	0.035	0.121	0.0155	0.029	1.28	0.073	0.069
E124	Sandia above Firing Range	04-AUG-2005	WT	UF	GU05080E12401	0.159	0.0731	0.297	39	66.6	225	-0.00211	0.0117	0.036	0.0289	0.00881	0.043	0.281	0.0263	0.036	3.04	0.185	0.092
E125	Sandia above SR-4	29-SEP-2005	WT	UF	GU05090E12501	-0.0689	0.0879	0.437				0.00815	0.00646	0.0467	0.0286	0.00798	0.0456	0.0395	0.00992	0.0385	4.47	0.299	0.155
E200	Mortandad below Effluent	24-APR-2005	WT	UF	GU05040E20001	0.786	0.11	0.321	118	76.4	252	9.74	0.47	0.03	4.47	0.235	0.042	6.47	0.331	0.035	3.23	0.209	0.145
E200	Mortandad below Effluent	03-MAY-2005	WT	UF	GU05050E20001	1.11	0.106	0.275	116	74.1	244	6.74	0.389	0.064	3.61	0.156	0.041				2.25	0.139	0.088

Table A10. FFCA Watershed Storm Water Monitoring, 2005 Analytical Results for Radionuclide Data

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	HASL-300:ISOU			HASL-300:ISOU		
						U-235,236			U-238		
						pCi/L			pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA
E026	Los Alamos below Ice Rink	18-MAR-2005	WM	UF	GU05030M02601	0.00986	0.00855	0.046	0.0418	0.012	0.053
E026	Los Alamos below Ice Rink	16-APR-2005	WT	UF	GU05040E02601						
E026	Los Alamos below Ice Rink	17-APR-2005	WT	UF	GU05040E02602	0.156	0.0213	0.043	2.04	0.119	0.049
E030	Los Alamos above DP Canyon	18-MAR-2005	WM	UF	GU05030M03001	0.00458	0.00856	0.042	0.0502	0.011	0.049
E030	Los Alamos above DP Canyon	19-OCT-2005	WT	UF	GU05100E03001	0.132	0.0209	0.0533	1.43	0.0805	0.0501
E038	DP above TA-21	16-APR-2005	WT	UF	GU05040E03801						
E038	DP above TA-21	24-APR-2005	WT	UF	GU05040E03802	0.078	0.0164	0.048	0.853	0.0617	0.056
E038	DP above TA-21	01-MAY-2005	WT	UF	GU05050E03801	0.0433	0.0109	0.038	0.411	0.0352	0.044
E038	DP above TA-21	15-JUL-2005	WT	UF	GU05070E03801	0.163	0.0255	0.064	2.66	0.159	0.06
E038	DP above TA-21	05-AUG-2005	WT	UF	GU05080E03801	0.318	0.0328	0.049	4.79	0.248	0.046
E039	DP below Meadow at TA-21	03-MAY-2005	WT	UF	GU05050E03901	0.0655	0.017	0.047	1.01	0.0704	0.054
E039	DP below Meadow at TA-21	15-JUL-2005	WT	UF	GU05070E03901	0.384	0.0555	0.121	5.03	0.333	0.114
E039	DP below Meadow at TA-21	04-AUG-2005	WT	UF	GU05080E03901	0.383	0.0533	0.115	3.96	0.265	0.108
E039	DP below Meadow at TA-21	12-AUG-2005	WT	UF	GU05080E03902	0.0192	0.00837	0.045	0.256	0.0255	0.042
E040	DP above Los Alamos Canyon	22-MAR-2005	WM	UF	GU05030M04001	0.00487	0.00843	0.045	0.0704	0.0135	0.052
E040	DP above Los Alamos Canyon	03-MAY-2005	WT	UF	GU05050E04001	0.318	0.0349	0.056	3.15	0.186	0.065
E040	DP above Los Alamos Canyon	04-AUG-2005	WT	UF	GU05080E04001	0.651	0.081	0.149	11.9	0.629	0.14
E040	DP above Los Alamos Canyon	11-AUG-2005	WT	UF	GU05080E04002	0.735	0.093	0.173	8.91	0.481	0.163
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04004	0.505	0.0527	0.077	6.56	0.353	0.073
E040	DP above Los Alamos Canyon	12-AUG-2005	WT	UF	GU05080E04005						
E042	Los Alamos above SR-4	18-MAR-2005	WM	UF	GU05030M04201	0.0121	0.00802	0.045	0.0409	0.0112	0.052
E042	Los Alamos above SR-4	16-APR-2005	WT	UF	GU05040E04201	1.56	0.267	0.643	16.2	1.18	0.745
E042	Los Alamos above SR-4	03-MAY-2005	WT	UF	GU05050E04201	0.35	0.0368	0.053	3.89	0.22	0.062
E042	Los Alamos above SR-4	15-JUL-2005	WT	UF	GU05070E04201	0.903	0.109	0.193	9.06	0.55	0.181
E042	Los Alamos above SR-4	04-AUG-2005	WT	UF	GU05080E04201	1.45	0.129	0.154	19.3	0.984	0.145
E042	Los Alamos above SR-4	12-AUG-2005	WT	UF	GU05080E04202	0.507	0.057	0.089	6.89	0.413	0.084
E050	Los Alamos below LA Weir	22-MAR-2005	WM	UF	GU05030M05001	-0.0115	0.00834	0.043	0.0529	0.0146	0.05
E050	Los Alamos below LA Weir	24-APR-2005	WT	UF	GU05040E05001	0.387	0.0489	0.089	6.69	0.391	0.103
E050	Los Alamos below LA Weir	15-JUL-2005	WT	UF	GU05070E05001	0.259	0.0423	0.089	4.47	0.267	0.084
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05001	0.294	0.0416	0.091	3.79	0.236	0.086
E050	Los Alamos below LA Weir	12-AUG-2005	WT	UF	GU05080E05002	0.121	0.0207	0.058	1.58	0.0994	0.054
E055	Pueblo above Acid	30-MAR-2005	WM	UF	GU05030M05501	-0.0245	0.0112	0.041	0.1	0.0174	0.048
E055	Pueblo above Acid	03-MAY-2005	WT	UF	GU05050E05501	0.259	0.0392	0.084	4.41	0.281	0.098
E055	Pueblo above Acid	15-JUL-2005	WT	UF	GU05070E05501	0.161	0.0245	0.06	2.1	0.127	0.056
E055	Pueblo above Acid	12-AUG-2005	WT	UF	GU05080E05501	0.104	0.0198	0.059	1.84	0.111	0.055
E055	Pueblo above Acid	13-AUG-2005	WT	UF	GU05080E05502	0.937	0.0981	0.144	8.83	0.505	0.135
E0555	South Fork of Acid Canyon	05-AUG-2005	WT	UF	GU0508E055501						
E0555	South Fork of Acid Canyon	25-AUG-2005	WT	UF	GU0508E055503	0.126	0.0185	0.0441	1.15	0.0636	0.0415
E056	Acid above Pueblo	24-AUG-2005	WT	UF	GU05080E05602	0.821	0.0865	0.135	8.01	0.438	0.127
E056	Acid above Pueblo	28-SEP-2005	WT	UF	GU05090E05601						
E060	Pueblo above SR-502	24-AUG-2005	WT	UF	GU05080E06002	0.177	0.0235	0.0469	2.01	0.114	0.0441
E060	Pueblo above SR-502	25-AUG-2005	WT	UF	GU05080E06003	0.0675	0.0129	0.0433	0.94	0.0607	0.0407
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06001	0.0891	0.0149	0.0424	0.87	0.057	0.0399
E060	Pueblo above SR-502	29-SEP-2005	WT	UF	GU05090E06002	0.0536	0.0121	0.0415	0.62	0.0452	0.039
E110	Los Alamos Canyon near	20-APR-2005	WM	UF	GU05030M11001	0.341	0.0444	0.085	3.37	0.225	0.099
E121	Sandia right fork at Power	16-APR-2005	WT	UF	GU05040E12101	0.127	0.0175	0.037	1.36	0.0822	0.043
E121	Sandia right fork at Power	15-JUL-2005	WT	UF	GU05070E12101	0.0682	0.016	0.049	0.95	0.0629	0.046
E121	Sandia right fork at Power	20-JUL-2005	WT	UF	GU05070E12102	0.108	0.019	0.054	1.54	0.0956	0.051
E121	Sandia right fork at Power	04-AUG-2005	WT	UF	GU05080E12101						
E121	Sandia right fork at Power	12-AUG-2005	WT	UF	GU05080E12102	0.0863	0.0174	0.057	1.29	0.0847	0.054
E124	Sandia above Firing Range	03-MAY-2005	WT	UF	GU05050E12401						
E124	Sandia above Firing Range	15-JUL-2005	WT	UF	GU05070E12401	4.83	0.564	0.854	70.9	4.74	0.803
E124	Sandia above Firing Range	20-JUL-2005	WT	UF	GU05070E12402	0.0965	0.0161	0.047	1.8	0.0911	0.044
E124	Sandia above Firing Range	23-JUL-2005	WT	UF	GU05070E12403	0.0695	0.0147	0.052	1.2	0.07	0.049
E124	Sandia above Firing Range	04-AUG-2005	WT	UF	GU05080E12401	0.223	0.0316	0.069	3.21	0.194	0.065
E125	Sandia above SR-4	29-SEP-2005	WT	UF	GU05090E12501	0.29	0.0484	0.117	4.45	0.297	0.11
E200	Mortandad below Effluent	24-APR-2005	WT	UF	GU05040E20001	0.259	0.04	0.089	3.1	0.203	0.103
E200	Mortandad below Effluent	03-MAY-2005	WT	UF	GU05050E20001	0.195	0.0267	0.054	2.07	0.129	0.063

Table A10. FFCA Watershed Storm Water Monitoring, 2005 Analytical Results for Radionuclide Data

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	EPA:900 Gross Alpha pCi/L			EPA:900 Gross Beta pCi/L			EPA:901.1 Cobalt-60 pCi/L			EPA:901.1 Cesium-137 pCi/L			EPA:901.1 Potassium-40 pCi/L			EPA:901.1 Sodium-22 pCi/L			EPA:901.1 Neptunium-237 pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
E200	Mortandad below Effluent	15-JUL-2005	WT	UF	GU05070E20001	232	13	9.54	381	11.9	17.2	1.3	1.45	4.25	53.6	3.57	3.94	217	22.7	28.1	1.48	1.09	4.42	2.66	9.31	30.4
E200	Mortandad below Effluent	20-JUL-2005	WT	UF	GU05070E20002	57.9	3.33	1.59	73.1	6.36	14.4	2.61	1.06	4.42	25.9	2.43	4.17	70.7	22.4	35.7	0.274	1.08	4.03	11.4	8.84	28.9
E201	Mortandad above Ten Site	29-SEP-2005	WT	UF	GU05090E20101	127	10.4	9	195	14.2	14	-2.31	1.36	4.39	86.8	3.82	4.66	21.9	27.9	44.7	-0.368	1.55	5.45	12.1	7.8	25.9
E201	Mortandad above Ten Site	30-SEP-2005	WT	UF	GU05090E20102	112	9.2	5.73	145	6.96	9.9	1.32	1.67	6.2	104	4.68	4.95	40.6	30.6	45.5	2.12	2.31	5.12	9.95	14.7	36.5
E201.3	Ten Site below MDA C	12-AUG-2005	WT	UF	GU0508E201301	47.3	4.6	5.51	128	6.06	10	2.44	1.47	2.76	-0.484	0.968	3.24	24.7	24.7	32.2	-0.0062	0.915	3.25	4.15	5.99	20.1
E201.3	Ten Site below MDA C	22-AUG-2005	WT	UF	GU0508E201302																					
E201.3	Ten Site below MDA C	24-AUG-2005	WT	UF	GU0508E201303																					
E201.3	Ten Site below MDA C	22-SEP-2005	WT	UF	GU0509E201301																					
E201.3	Ten Site below MDA C	28-SEP-2005	WT	UF	GU0509E201302	32.3	5.57	8.91	55.9	5.8	13.8	-0.805	1.08	3.64	1.46	1.05	3.79				1.1	1.07	3.89	22.2	8.11	27.2
E201.5	Ten Site above Mortandad	24-AUG-2005	WT	UF	GU0508E201501																					
E201.5	Ten Site above Mortandad	25-AUG-2005	WT	UF	GU0508E201502	54.4	5.46	6.69	80.4	3.67	5.89	0.931	1.14	4.24							1.21	1.02	3.91	11	7.28	24.8
E201.5	Ten Site above Mortandad	29-SEP-2005	WT	UF	GU0509E201501	28.4	4.92	11.1	53.3	4.51	8.51	2.3	2.38	4.88							0.58	1.26	4.76	13.2	13.5	27.4
E202	Mortandad above Sediment	29-SEP-2005	WT	UF	GU05090E20202	95.8	15	5.46	126	8.12	10.2	1.42	1.28	4.75	76.2	4.85	4.34	32.6	15.3	34.8	0.204	1.1	3.96	-6.07	9.03	30.7
E218	Canada del Buey near TA-46	20-JUL-2005	WT	UF	GU05070E21802	7.14	1.4	3.92	14.4	2.29	7.52	2.1	2.07	4.83	-2.12	1.38	3.83	2.82	18.2	31.2	0.944	0.961	3.85	1.76	8.44	28.2
E218	Canada del Buey near TA-46	24-AUG-2005	WT	UF	GU05080E21801	64.6	6.45	6.52	129	9.29	17.7				5	1.98	5.46	150	41.6	43.7	0.923	1.4	5.2	28.8	11.9	29.9
E227	MDA G-13	17-JUL-2005	WT	UF	GU05070E22701																					
E227	MDA G-13	28-SEP-2005	WT	UF	GU05100E22701	106	10.9	11.8	247	12.2	16.7	-0.22	1.55	4.89	0.427	1.38	4.94	174	36.1	42.1	0.944	1.6	5.62	16.7	7.17	16.8
E227	MDA G-13	09-OCT-2005	WT	UF	GU05100E22702	31.2	4.47	8.42	69.4	4.24	8.43	2.96	1.34	5.32	-0.913	1.35	4.63	188	40.3	50.5	0.269	1.38	5.02	4.59	12	28.3
E240	Pajarito below SR-501	23-MAR-2005	WM	UF	GU05030M24001	0.848	0.382	1.28	2.32	0.451	1.46	-1.65	1.01	3.39	0.117	1.07	4	9.89	12.4	49.3	-0.107	1.16	4.23	3.09	5.25	16.6
E240	Pajarito below SR-501	11-AUG-2005	WT	UF	GU05080E24001	68.3	11	20.6	133	12.1	29.2	0.889	1.11	4.1	1.16	1.06	3.8	104	27.6	31.2	-0.564	1.01	3.52	8.44	11.7	21.1
E240	Pajarito below SR-501	24-AUG-2005	WT	UF	GU05080E24003	277	23.4	18.6	372	20.8	38.5	0.507	1.19	4.37	2.15	2.06	3.84	126	26.8	37.7	0.173	1.16	4.22	2.69	8.91	28.7
E243	Pajarito above Twomile	22-MAR-2005	WM	UF	GU05030M24301	2.06	0.584	1.72	3.79	0.482	1.36	0.118	0.725	2.59	0.903	0.635	2.34				0.719	0.64	2.42	2.42	6.45	14.8
E243	Pajarito above Twomile	15-JUL-2005	WT	UF	GU05070E24301	96.1	7.34	14.1	144	7.69	18.6	1.73	1.25	4.96	22.1	2.93	4.39	372	33.8	40.4	0.948	1.23	4.73	-6.61	8.67	29.6
E243	Pajarito above Twomile	12-AUG-2005	WT	UF	GU05080E24301	37.6	4.93	7.56	69.7	5.26	10.9				1.12	1.08	3.93				-0.738	1.22	4.23	8.18	6.09	21.5
E243	Pajarito above Twomile	24-AUG-2005	WT	UF	GU05080E24302	119	18.2	24.7	248	18.7	46.3	-1.22	1.27	4.3	8.1	2.44	4.08	234	30.7	41.5	0.344	1.25	4.5	17	7.35	21.7
E243.5	Twomile tributary at TA-3	16-APR-2005	WT	UF	GU0504E243501	1.44	0.691	2.34	31	1.61	3.71	-0.167	0.633	2.25	0.597	0.633	2.28	44.6	15.8	20.1	-0.512	0.568	1.96	-1.6	5.66	17.4
E243.5	Twomile tributary at TA-3	27-MAY-2005	WT	UF	GU0505E243502	12.7	1.25	1.75	21.1	1.26	2.73	-0.0507	0.803	2.94	1.1	0.818	3.07	15.8	16.8	25.3	-0.762	0.721	2.51	-8.83	6.71	21.9
E243.5	Twomile tributary at TA-3	11-JUN-2005	WT	UF	GU0506E243501	4.52	0.705	1.43				-0.313	0.783	2.74	0.238	0.851	2.95	20.7	9.46	36.3	-0.65	0.99	2.86	11	6.43	21.9
E243.5	Twomile tributary at TA-3	15-JUL-2005	WT	UF	GU0507E243501	10.6	1.22	2.32	23.8	4.23	13.5	0.281	0.918	3.46	0.933	0.784	2.99	21.5	21.6	30.2				2.81	7.12	23.3
E244	Twomile above Pajarito	22-MAR-2005	WM	UF	GU05030M24401	0.442	0.538	1.78	5.43	0.499	1.28	-1.64	1.33	3.69	-0.121	0.87	3.14	18.2	10.5	43.5	-0.873	0.933	3.25	10.2	8.04	27
E245	Pajarito above TA-18	21-MAR-2005	WM	UF	GU05030M24501	3.33	0.669	1.75	6.88	0.634	1.78	0.0415	0.89	3.39	0.168	0.943	3.42	28	17.7	47.6	-0.445	0.893	3.25	3.67	6.21	22.5
E245	Pajarito above TA-18	15-JUL-2005	WT	UF	GU05070E24501	22.5	3.31	5.32	58.6	5.11	10.5	1.91	1.27	5.27	5.49	1.72	4.55	47.2	22.1	56.7	-0.625	1.39	4.84	-3.41	5.36	17.5
E245	Pajarito above TA-18	04-AUG-2005	WT	UF	GU05080E24501																					
E245	Pajarito above TA-18	06-AUG-2005	WT	UF	GU05080E24502	32.1	5.43	7.55	58.5	5.27	13.4	1.69	1.33	4.99	14.8	3.3	4.14	77.9	35.5	35.9	0.323	1.29	4.68	4.59	12.4	24.6
E245	Pajarito above TA-18	24-AUG-2005	WT	UF	GU05080E24504	77.3	12.4	19.2	111	9.68	25.2	1.93	2.36	4.84	7.44	1.97	3.68	113	25.8	38.7	0.0453	1.13	4.07	-1.99	8.26	24.4
E245	Pajarito above TA-18	25-AUG-2005	WT	UF	GU05080E24505																					
E245.5	Pajarito above Threemile	21-MAR-2005	WM	UF	GU0503M245501	2.94	0.614	1.76	4.59	0.5	1.3	0.866	1.4	5.49	-0.145	1.35	4.89	15.1	15.2	59.7	2.99	1.28	5.43	-2.88	5.2	17.2
E245.5	Pajarito above Threemile	06-AUG-2005	WT	UF	GU0508E245501																					
E245.5	Pajarito above Threemile	12-AUG-2005	WT	UF	GU0508E245502	34.2	4.85	9.05	73.7	5	9.82	1.49	1.04	4	3.38	1.29	3.62				1.12	1.09	4.1	-3.92	8.17	25.8
E245.5	Pajarito above Threemile	22-AUG-2005	WT	UF	GU0508E245503	44.5	5.76	10.3	77.7	3.58	5.78	1.26	1.44	5.39	1.53	1.32	4.74				-0.955	1.2	4.2	-1.55	8.42	28
E245.5	Pajarito above Threemile	24-AUG-2005	WT	UF	GU0508E245504	218	23.9	28.2	319	17.7	34.7	3.9	1.21	4.76	10.7	2.29	3.76	230	35.7	35.1	-0.131	1.19	4.2			
E245.5	Pajarito above Threemile	25-AUG-2005	WT	UF	GU0508E245505	62.1	8.29	12.8	123	7.41	13.7	0.0815	1.34	4.73	4.12	1.42	4.77	172	29.8	38.6	-2.24	1.24	4.04	7.32	6.41	22.5
E246	Threemile above Pajarito	21-MAR-2005	WM	UF	GU05030M24601	2.34	0.442	0.888	4.74	0.521	1.4	2.13	1.89	5.03	2.81	0.951	3.92				-0.119	0.901	3.4	-8.29	7.32	23.8
E247	MDA G-1	13-AUG-2005	WT	UF	GU05080E24701	76.7	6.45	3.48	129	5.49	8.03	-1.09	1.04	3.53	1.42	1.13	4.05	172	36.6	44.7	-1.26	1.16	3.91	-24.3	8.69	24.8
E247	MDA G-1	29-SEP-2005	WT	UF	GU05090E24701	97.7	10.5	10.7	268	22.4	14.4	0.844	2.6	5.45	3.73	1.64	5.3	97.5	35.6	44	-1.19	1.62	5.66	-8.14	10.3	32.3
E247	MDA G-1	09-OCT-2005	WT	UF	GU05100E24701	2.4	0.867	2.83	11.8	1.92	6.33	1.13	1.36	5.04	1.64	1.25	4.6	82.8	28.4	45.2	1.65	0.943	3.97	-4.44	6.89	23.5
E248.5	MDA G-6U	15-JUL-2005	WT	UF	GU0507E248501	84.3	6.77	5.87	135	3.73	5.12	0.256	0.985	3.8	-1.64	0.98	3.19	154	27.4	46	0.812	1.03	4.09	12.6	9.44	25.6
E248.5	MDA G-6U	12-AUG-2005	WT	UF	GU0508E248502	11	1.71	2.34	19.7	2.17	4.94	3.88	1.94	5.01	-1.26	1.2	3.95				2.61	0.969	4.51	8.83	12.2	27.3
E248.5	MDA G-6U	29-SEP-2005	WT	UF	GU0509E248501	5.39	1.03	2.88	16.3	2.81	9.09	1.85	1.42	5.51	2.01	1.35	5	7.44	22.5	45.4	-0.265	1.43	5.14	-5.8	9.68	30.6
E248.5	MDA G-6U	09-OCT-2005	WT	UF	GU0510E248501	85.7	5.57	3.74	157	6.93	11.7	1.26	1.14	4.38	0.389	1.08	3.85	39.5	25.7	42	1.23	1.2	4.56	2.23	11.3	26.6
E250	Pajarito above SR-4	23-MAR-2005	WM	UF	GU05030M25001	1.25	0.517	1.64	4.39	0.534	1.56	-0.345	1	3.64	0.818	1.11	4.02	8.76	18.8	37.5	0.551	0.965	3.75	8.21	5.79	20
E252	Water above SR-501	29-MAR-2005	WM	UF	GU05030M25201	0.306	0.279	1.09	1.84	0.391	1.27	1.65	0.81	3.08	1.03	0.631	2.29	11.9	13.4	21.2	0.762	0.619	2.36	-1.86	4.73	15.6
E253	Canon de Valle above SR-501	11-APR-2005	WM	UF	GU05030M25301	4.29	0.71	1.51	6.47	0.959	3.38	0.0283	0.68	2.43	1.82	1.04	2.3				0.237	0.643	2.35	-1.52	4.94	16.6
E253	Canon de Valle above SR-501	16-APR-2005	WT	UF	GU05040E25301																					
E262	Canon de Valle above Water	30-MAR-2005	WM	UF	GU05030M26201	1.65	0.379	0.942	5.63	0.743	2.37	-0.576	0.821	2.38	-0.722	0.663	2.19				-0.0556	0.662	2.34	-3.16	3.62	12
E262	Canon de Valle above Water	24-AUG-2005	WT	UF	GU05080E26202																					
E262.5	Water below MDA AB	30-MAR-2005	WM	UF	GU0503M262501	0.397	0.436	1.69	6.06	0.703	2.14	-0.409	0.745	2.55	-1.64	0.8	2.53	18.2	8.62	32.4	-0.0263	0.871	2.62	15.9	5.88	19.6
E262.5	Water below MDA AB	04-AUG-2005	WT	UF	GU0508E262501	60	7.89	10.1	122	7.98	13	1.72	1.17	4.45				118	28.4	36.8	-2.3	1.18	3.83	-2.13	7.36	24.4

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	EPA:905.0 Strontium-90 pCi/L			EPA:906.0 Tritium pCi/L			HASL-300:AM-241 Americium-241 pCi/L			HASL-300:ISOPU Pu-238 pCi/L			HASL-300:ISOPU Pu-239,240 pCi/L			HASL-300:ISOU U-234 pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
E200	Mortandad below Effluent	15-JUL-2005	WT	UF	GU05070E20001	3	0.199	0.472	128	65.8	215	32.4	1.59	0.124	10.8	0.465	0.071	11.6	0.493	0.06	23	1.64	0.493
E200	Mortandad below Effluent	20-JUL-2005	WT	UF	GU05070E20002	1.16	0.0879	0.211	330	79.1	245	12.7	0.707	0.023	5.36	0.245	0.066	7.87	0.342	0.056	2.61	0.176	0.127
E201	Mortandad above Ten Site	29-SEP-2005	WT	UF	GU05090E20101	0.394	0.13	0.492	126	71.8	235	68.8	3.88	0.417	2.2	0.214	0.301	3.6	0.284	0.255	2.7	0.161	0.0784
E201	Mortandad above Ten Site	30-SEP-2005	WT	UF	GU05090E20102	8.97	0.414	0.472	200	70.2	224	40.5	2.38	0.409	16.7	0.812	0.257	30.1	1.35	0.218	2.6	0.164	0.0938
E201.3	Ten Site below MDA C	12-AUG-2005	WT	UF	GU0508E201301	0.0346	0.0517	0.225				0.0768	0.0133	0.032	0.0457	0.0132	0.043	0.0954	0.0177	0.036	0.765	0.0523	0.061
E201.3	Ten Site below MDA C	22-AUG-2005	WT	UF	GU0508E201302				119	62	202												
E201.3	Ten Site below MDA C	24-AUG-2005	WT	UF	GU0508E201303				174	61.3	195												
E201.3	Ten Site below MDA C	22-SEP-2005	WT	UF	GU0509E201301				219	63.8	205												
E201.3	Ten Site below MDA C	28-SEP-2005	WT	UF	GU0509E201302	-0.0539	0.0946	0.466	123	60.3	196	0.542	0.0471	0.04	0.0573	0.019	0.0425	1.77	0.103	0.0359	1.37	0.0837	0.0618
E201.5	Ten Site above Mortandad	24-AUG-2005	WT	UF	GU0508E201501				78	56.5	187												
E201.5	Ten Site above Mortandad	25-AUG-2005	WT	UF	GU0508E201502	5.5	0.299	0.348				0.378	0.0362	0.0354	0.697	0.0447	0.0409	0.476	0.0366	0.0345	4.36	0.272	0.142
E201.5	Ten Site above Mortandad	29-SEP-2005	WT	UF	GU0509E201501	2.92	0.242	0.463	45.7	75.8	256	0.187	0.0362	0.0654	1.33	0.0826	0.043	0.865	0.0593	0.0363			
E202	Mortandad above Sediment	29-SEP-2005	WT	UF	GU05090E20202	4.05	0.235	0.433				33.2	1.72	0.242	13.2	0.645	0.044	24.3	1.17	0.0372			
E218	Canada del Buey near TA-46	20-JUL-2005	WT	UF	GU05070E21802	0.0303	0.0499	0.189				0.0397	0.01	0.032	0.00355	0.00709	0.037	0.0124	0.00732	0.031	0.513	0.0416	0.065
E218	Canada del Buey near TA-46	24-AUG-2005	WT	UF	GU05080E21801	0.547	0.0893	0.27	177	59	187	0.0772	0.0205	0.041	0.038	0.0102	0.0358	0.516	0.0349	0.0303	4.24	0.175	0.0519
E227	MDA G-13	17-JUL-2005	WT	UF	GU05070E22701				141	63.2	205												
E227	MDA G-13	28-SEP-2005	WT	UF	GU05100E22701	0.0442	0.0707	0.325	39.3	63.1	213	0.129	0.0199	0.0313	0.112	0.0176	0.0517	0.277	0.0288	0.0437	10.4	0.566	0.102
E227	MDA G-13	09-OCT-2005	WT	UF	GU05100E22702	0.343	0.12	0.468	159	66.8	215	0.182	0.0277	0.033	0.156	0.024	0.0624	0.45	0.0429	0.0527	8.14	0.439	0.0782
E240	Pajarito below SR-501	23-MAR-2005	WM	UF	GU05030M24001	0.292	0.119	0.381	74.3	66.4	221	0.00471	0.0125	0.037	-0.016	0.00889	0.048	0.016	0.00689	0.04	0.0285	0.0128	0.087
E240	Pajarito below SR-501	11-AUG-2005	WT	UF	GU05080E24001	0.448	0.0934	0.309				0.0608	0.0126	0.03	0.0152	0.00917	0.063	0.0213	0.0226	0.053	5.46	0.316	0.179
E240	Pajarito below SR-501	24-AUG-2005	WT	UF	GU05080E24003	1.16	0.0869	0.2	226	63	196	0.0853	0.0244	0.056	0.0167	0.0107	0.0434	0.127	0.0215	0.0366	7.08	0.38	0.211
E243	Pajarito above Twomile	22-MAR-2005	WM	UF	GU05030M24301	0.0569	0.189	0.635	51.8	65.2	219	-0.00448	0.0142	0.035	-0.00446	0.0114	0.046	0.0112	0.00741	0.039	0.0778	0.0151	0.066
E243	Pajarito above Twomile	15-JUL-2005	WT	UF	GU05070E24301	1.48	0.18	0.521				0.118	0.0207	0.036	0.0705	0.0277	0.104	0.302	0.0446	0.088	20.3	1.16	0.405
E243	Pajarito above Twomile	12-AUG-2005	WT	UF	GU05080E24301	0.0971	0.0672	0.277	-64	65.1	228	0.0297	0.00884	0.032	0.00748	0.00592	0.039	0.00934	0.00935	0.033	1.24	0.102	0.164
E243	Pajarito above Twomile	24-AUG-2005	WT	UF	GU05080E24302	1.6	0.119	0.23				0.248	0.0404	0.0821	0.0165	0.00927	0.0429	0.0062	0.00801	0.0362	11.8	0.729	0.326
E243.5	Twomile tributary at TA-3	16-APR-2005	WT	UF	GU0504E243501	0.128	0.0795	0.331	114	62.8	206	0.00935	0.00676	0.03	0.00536	0.00536	0.037	0.0125	0.00474	0.031	0.495	0.0394	0.059
E243.5	Twomile tributary at TA-3	27-MAY-2005	WT	UF	GU0505E243502	0.114	0.0768	0.293	58.9	56.5	188	-0.00384	0.00599	0.044	0.015	0.00993	0.039	0.00561	0.00621	0.033	0.255	0.0257	0.059
E243.5	Twomile tributary at TA-3	11-JUN-2005	WT	UF	GU0506E243501	0.0567	0.084	0.386	96.1	56.8	187	0.00422	0.0141	0.086	0.00727	0.00728	0.038	0.00363	0.00445	0.032	0.327	0.0288	0.06
E243.5	Twomile tributary at TA-3	15-JUL-2005	WT	UF	GU0507E243501	0.0211	0.0579	0.227	42.2	74.1	250	0.00908	0.0201	0.05	0.0335	0.0116	0.037	-0.00176	0.00584	0.031	0.399	0.0355	0.063
E244	Twomile above Pajarito	22-MAR-2005	WM	UF	GU05030M24401	0.375	0.107	0.337	90.6	64.7	214	0.0019	0.00948	0.03	-0.00363	0.00926	0.038	0.0127	0.00603	0.032	0.0274	0.00928	0.064
E245	Pajarito above TA-18	21-MAR-2005	WM	UF	GU05030M24501	0.374	0.174	0.568	136	68.4	223	0.0108	0.0158	0.043	-0.00251	0.012	0.052	0.00251	0.00904	0.044	0.0513	0.0138	0.074
E245	Pajarito above TA-18	15-JUL-2005	WT	UF	GU05070E24501	1.42	0.0938	0.224	-15.9	59.2	204	0.167	0.0269	0.043	0	0.00812	0.04	0.0631	0.0121	0.034	14.6	1.01	0.205
E245	Pajarito above TA-18	04-AUG-2005	WT	UF	GU05080E24501				79.6	63	209												
E245	Pajarito above TA-18	06-AUG-2005	WT	UF	GU05080E24502	0.376	0.0633	0.2				-0.00433	0.0145	0.036	0.00605	0.0148	0.063	0.0755	0.0197	0.053	2.42	0.148	0.089
E245	Pajarito above TA-18	24-AUG-2005	WT	UF	GU05080E24504	1.18	0.102	0.243	198	59.2	186	0.19	0.0341	0.053	0.0417	0.0099	0.0433	0.248	0.0271	0.0366	7.14	0.396	0.342
E245	Pajarito above TA-18	25-AUG-2005	WT	UF	GU05080E24505				121	64.7	211												
E245.5	Pajarito above Threemile	21-MAR-2005	WM	UF	GU0503M245501	0.618	0.287	0.935	92.6	66.1	218	0.0265	0.0114	0.035	0.0043	0.00745	0.045	-0.00215	0.00569	0.038	0.085	0.0181	0.072
E245.5	Pajarito above Threemile	06-AUG-2005	WT	UF	GU0508E245501				79.7	63	209												
E245.5	Pajarito above Threemile	12-AUG-2005	WT	UF	GU0508E245502	0.324	0.0771	0.265	-63.6	67.7	236	0.0351	0.0117	0.035	0.0178	0.0111	0.053	0.0864	0.0204	0.045	4.25	0.309	0.299
E245.5	Pajarito above Threemile	22-AUG-2005	WT	UF	GU0508E245503				121	62.9	205	0.0775	0.014	0.032	0.0323	0.0181	0.084	0.234	0.0407	0.071	7.99	0.484	0.128
E245.5	Pajarito above Threemile	24-AUG-2005	WT	UF	GU0508E245504	2.4	0.0955	0.132				0.133	0.0312	0.049	0.0999	0.0168	0.0532	0.379	0.0377	0.0449	16.3	0.859	0.219
E245.5	Pajarito above Threemile	25-AUG-2005	WT	UF	GU0508E245505	0.33	0.0979	0.344	123	66.1	216	0.0404	0.0106	0.031	0.00623	0.00465	0.0431	0.0083	0.00509	0.0364	6.04	0.323	0.0819
E246	Threemile above Pajarito	21-MAR-2005	WM	UF	GU05030M24601	0.477	0.132	0.417	2.76	64.8	221	-0.00472	0.0138	0.037	0.00687	0.0143	0.047	0.00915	0.0112	0.04	0.206	0.0237	0.064
E247	MDA G-1	13-AUG-2005	WT	UF	GU05080E24701	0.325	0.0724	0.244	-21	62.3	215	0.0976	0.0166	0.037	0.174	0.0289	0.067	0.0839	0.0221	0.057	8.45	0.478	0.21
E247	MDA G-1	29-SEP-2005	WT	UF	GU05090E24701	9.75	0.399	0.45	-40.5	65.1	227	0.0952	0.0227	0.0424	0.175	0.0212	0.0379	0.0438	0.0114	0.032	4	0.255	0.121
E247	MDA G-1	09-OCT-2005	WT	UF	GU05100E24701	0.471	0.127	0.477	125	69.3	227	0.0601	0.0171	0.0306	0.357	0.0454	0.072	0.0901	0.0193	0.0608	6.18	0.38	0.238
E248.5	MDA G-6U	15-JUL-2005	WT	UF	GU0507E248501	0.289	0.14	0.456	156	64.4	208	1.65	0.0992	0.035	0.812	0.0625	0.07	2.74	0.144	0.059	23.7	1.26	0.381
E248.5	MDA G-6U	12-AUG-2005	WT	UF	GU0508E248502	-0.0513	0.0831	0.38	333	63.5	197	0.171	0.0275	0.047	0.0213	0.0128	0.044	0.217	0.0267	0.037	0.801	0.0541	0.058
E248.5	MDA G-6U	29-SEP-2005	WT	UF	GU0509E248501	0.0483	0.098	0.464	300	77.3	240	0.0885	0.0174	0.0386	0.0118	0.0125	0.0409	0.0807	0.0146	0.0345	0.556	0.0451	0.0678
E248.5	MDA G-6U	09-OCT-2005	WT	UF	GU0510E248501	-0.0578	0.0791	0.396	255	73.7	231	0.452	0.0412	0.0333	0.285	0.0271	0.0394	0.736	0.046	0.0333	5.56	0.295	0.0645
E250	Pajarito above SR-4	23-MAR-2005	WM	UF	GU05030M25001	0.745	0.128	0.387	102	67.2	221	0.0183	0.0197	0.058	-0.0134	0.00708	0.046	0.00447	0.00774	0.039	0.0982	0.0182	0.079
E252	Water above SR-501	29-MAR-2005	WM	UF	GU05030M25201	-0.128	0.113	0.387	39.8	63.2	213	0.00246	0.0113	0.039	0.0117	0.0122	0.049	0.0117	0.00704	0.041	0.0408	0.0121	0.078
E253	Canon de Valle above SR-501	11-APR-2005	WM	UF	GU05030M25301	0.0517	0.0727	0.315	16.9	66.7	226	0.0106	0.00636	0.033	0.00688	0.00346	0.036	0.0103	0.00489	0.03	0.224	0.0263	0.072
E253	Canon de Valle above SR-501	16-APR-2005	WT	UF	GU05040E25301				76.7	62.6	208												
E262	Canon de Valle above Water	30-MAR-2005	WM	UF	GU05030M26201	0.237	0.145	0.477	55.7	66.7	224	-0.00493	0.00698	0.039	-0.00432	0.00809	0.045	0.0108	0.0065	0.038	0.0795	0.0151	0.067
E262	Canon de Valle above Water	24-AUG-2005	WT	UF	GU05080E26202				120	64.4	210												
E262.5	Water below MDA AB	30-MAR-2005	WM	UF	GU0503M262501	0.223	0.143	0.467	61.3	66.8	223	-0.00375	0.0092	0.03	0.00225	0.00677	0.047	0.00676	0.00597	0.04	0.022	0.0136	0.074
E262.5	Water below MDA AB	04-AUG-2005	WT	UF	GU0508E262501	0.918	0.112	0.331	-122	65.2	234	0.0403	0.0148	0.032	-0.00756	0.0104	0.052	0.31	0.0305	0.044	3.73	0.228	0.15

Table A10. FFCA Watershed Storm Water Monitoring, 2005 Analytical Results for Radionuclide Data

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample Id	HASL-300:ISOU			HASL-300:ISOU		
						U-235,236			U-238		
						pCi/L			pCi/L		
						Result	Uncert	MDA	Result	Uncert	MDA
E200	Mortandad below Effluent	15-JUL-2005	WT	UF	GU05070E20001	1.08	0.17	0.371	23.1	1.64	0.349
E200	Mortandad below Effluent	20-JUL-2005	WT	UF	GU05070E20002	0.144	0.0283	0.095	2.54	0.172	0.09
E201	Mortandad above Ten Site	29-SEP-2005	WT	UF	GU05090E20101	0.226	0.0305	0.059	2.71	0.161	0.0555
E201	Mortandad above Ten Site	30-SEP-2005	WT	UF	GU05090E20102	0.133	0.0242	0.0707	2.59	0.163	0.0665
E201.3	Ten Site below MDA C	12-AUG-2005	WT	UF	GU0508E201301	0.0797	0.0149	0.046	0.806	0.0534	0.043
E201.3	Ten Site below MDA C	22-AUG-2005	WT	UF	GU0508E201302						
E201.3	Ten Site below MDA C	24-AUG-2005	WT	UF	GU0508E201303						
E201.3	Ten Site below MDA C	22-SEP-2005	WT	UF	GU0509E201301						
E201.3	Ten Site below MDA C	28-SEP-2005	WT	UF	GU0509E201302	0.0977	0.0181	0.0465	1.39	0.0843	0.0437
E201.5	Ten Site above Mortandad	24-AUG-2005	WT	UF	GU0508E201501						
E201.5	Ten Site above Mortandad	25-AUG-2005	WT	UF	GU0508E201502	0.287	0.0449	0.107	5.16	0.315	0.1
E201.5	Ten Site above Mortandad	29-SEP-2005	WT	UF	GU0509E201501						
E202	Mortandad above Sediment	29-SEP-2005	WT	UF	GU05090E20202						
E218	Canada del Buey near TA-46	20-JUL-2005	WT	UF	GU05070E21802	0.0369	0.0119	0.049	0.526	0.042	0.046
E218	Canada del Buey near TA-46	24-AUG-2005	WT	UF	GU05080E21801	0.347	0.03	0.0391	5.32	0.214	0.0367
E227	MDA G-13	17-JUL-2005	WT	UF	GU05070E22701						
E227	MDA G-13	28-SEP-2005	WT	UF	GU05100E22701	1.08	0.0872	0.0769	11.1	0.603	0.0723
E227	MDA G-13	09-OCT-2005	WT	UF	GU05100E22702	0.418	0.0436	0.0589	8.07	0.436	0.0554
E240	Pajarito below SR-501	23-MAR-2005	WM	UF	GU05030M24001	0.00573	0.00702	0.053	0.02	0.0131	0.062
E240	Pajarito below SR-501	11-AUG-2005	WT	UF	GU05080E24001	0.42	0.0586	0.134	6.3	0.356	0.126
E240	Pajarito below SR-501	24-AUG-2005	WT	UF	GU05080E24003	0.788	0.0907	0.159	7.91	0.418	0.15
E243	Pajarito above Twomile	22-MAR-2005	WM	UF	GU05030M24301	0.0217	0.00873	0.04	0.0648	0.0133	0.047
E243	Pajarito above Twomile	15-JUL-2005	WT	UF	GU05070E24301	1.48	0.175	0.305	22.4	1.27	0.287
E243	Pajarito above Twomile	12-AUG-2005	WT	UF	GU05080E24301	0.12	0.0318	0.124	1.38	0.109	0.116
E243	Pajarito above Twomile	24-AUG-2005	WT	UF	GU05080E24302	1.14	0.138	0.246	13.2	0.803	0.231
E243.5	Twomile tributary at TA-3	16-APR-2005	WT	UF	GU0504E243501	0.0506	0.0113	0.036	0.573	0.043	0.042
E243.5	Twomile tributary at TA-3	27-MAY-2005	WT	UF	GU0505E243502	0.0231	0.00676	0.036	0.248	0.0249	0.041
E243.5	Twomile tributary at TA-3	11-JUN-2005	WT	UF	GU0506E243501	0.0276	0.00889	0.037	0.411	0.0324	0.042
E243.5	Twomile tributary at TA-3	15-JUL-2005	WT	UF	GU0507E243501	0.0562	0.0164	0.047	0.267	0.0297	0.045
E244	Twomile above Pajarito	22-MAR-2005	WM	UF	GU05030M24401	0.0212	0.00739	0.039	0.0253	0.00798	0.046
E245	Pajarito above TA-18	21-MAR-2005	WM	UF	GU05030M24501	0.0098	0.00776	0.045	0.0684	0.0138	0.053
E245	Pajarito above TA-18	15-JUL-2005	WT	UF	GU05070E24501	0.882	0.117	0.155	17.1	1.18	0.145
E245	Pajarito above TA-18	04-AUG-2005	WT	UF	GU05080E24501						
E245	Pajarito above TA-18	06-AUG-2005	WT	UF	GU05080E24502	0.198	0.0285	0.067	2.79	0.167	0.063
E245	Pajarito above TA-18	24-AUG-2005	WT	UF	GU05080E24504	0.541	0.0912	0.258	8.87	0.466	0.242
E245	Pajarito above TA-18	25-AUG-2005	WT	UF	GU05080E24505						
E245.5	Pajarito above Threemile	21-MAR-2005	WM	UF	GU0503M245501	0.0142	0.0116	0.044	0.109	0.0181	0.051
E245.5	Pajarito above Threemile	06-AUG-2005	WT	UF	GU0508E245501						
E245.5	Pajarito above Threemile	12-AUG-2005	WT	UF	GU0508E245502	0.436	0.0784	0.225	5.38	0.373	0.212
E245.5	Pajarito above Threemile	22-AUG-2005	WT	UF	GU0508E245503	0.702	0.0728	0.097	9.36	0.561	0.091
E245.5	Pajarito above Threemile	24-AUG-2005	WT	UF	GU0508E245504	1.24	0.122	0.165	18.8	0.977	0.155
E245.5	Pajarito above Threemile	25-AUG-2005	WT	UF	GU0508E245505	0.501	0.0479	0.0616	7.43	0.391	0.058
E246	Threemile above Pajarito	21-MAR-2005	WM	UF	GU05030M24601	0.0316	0.00977	0.039	0.431	0.0366	0.045
E247	MDA G-1	13-AUG-2005	WT	UF	GU05080E24701	0.767	0.0891	0.158	9.01	0.506	0.149
E247	MDA G-1	29-SEP-2005	WT	UF	GU05090E24701	0.244	0.039	0.0907	4.25	0.268	0.0853
E247	MDA G-1	09-OCT-2005	WT	UF	GU05100E24701	0.491	0.0767	0.179	6.82	0.412	0.168
E248.5	MDA G-6U	15-JUL-2005	WT	UF	GU0507E248501	1.72	0.184	0.287	23.7	1.27	0.27
E248.5	MDA G-6U	12-AUG-2005	WT	UF	GU0508E248502	0.0564	0.0118	0.044	0.706	0.0493	0.041
E248.5	MDA G-6U	29-SEP-2005	WT	UF	GU0509E248501	0.0577	0.014	0.0511	0.529	0.0437	0.048
E248.5	MDA G-6U	09-OCT-2005	WT	UF	GU0510E248501	0.35	0.0356	0.0486	5.29	0.281	0.0457
E250	Pajarito above SR-4	23-MAR-2005	WM	UF	GU05030M25001	0.00518	0.00519	0.048	0.129	0.0193	0.056
E252	Water above SR-501	29-MAR-2005	WM	UF	GU05030M25201	0.0255	0.00894	0.047	0.0306	0.0103	0.055
E253	Canon de Valle above SR-501	11-APR-2005	WM	UF	GU05030M25301	0.0592	0.0122	0.044	0.215	0.0257	0.051
E253	Canon de Valle above SR-501	16-APR-2005	WT	UF	GU05040E25301						
E262	Canon de Valle above Water	30-MAR-2005	WM	UF	GU05030M26201	0.00664	0.00799	0.041	0.0441	0.011	0.048
E262	Canon de Valle above Water	24-AUG-2005	WT	UF	GU05080E26202						
E262.5	Water below MDA AB	30-MAR-2005	WM	UF	GU0503M262501	-0.0221	0.0149	0.046	-0.0073	0.0153	0.053
E262.5	Water below MDA AB	04-AUG-2005	WT	UF	GU0508E262501	0.231	0.0419	0.113	4.55	0.269	0.106

Table A11. FFCA Watershed Storm Water Monitoring, 2005
Summary for Radionuclides greater than DOE DCG

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	DCG	Units
E026	Los Alamos below Ice Rink	2005	UF	RAD	Gross alpha	2	1	1	37	36.8	36.8	30	pCi/L
E030	Los Alamos above DP Canyon	2004	UF	RAD	Gross alpha	4	4	4	147	54	291	30	pCi/L
E038	DP above TA-21	2004	UF	RAD	Gross alpha	4	3	2	98	4.02	234	30	pCi/L
E038	DP above TA-21	2005	UF	RAD	Gross alpha	4	4	1	17	2.08	34.2	30	pCi/L
E039	DP below Meadow at TA-21	2004	UF	RAD	Gross alpha	4	3	2	53	27.1	79.3	30	pCi/L
E039	DP below Meadow at TA-21	2005	UF	RAD	Gross alpha	4	4	2	32	3.37	75.7	30	pCi/L
E040	DP above Los Alamos Canyon	2004	UF	RAD	Gross alpha	4	4	4	165	59.8	368	30	pCi/L
E040	DP above Los Alamos Canyon	2005	UF	RAD	Gross alpha	5	4	4	91	30.2	123	30	pCi/L
E042	Los Alamos above SR-4	2004	UF	RAD	Gross alpha	4	4	3	275	21.5	848	30	pCi/L
E042	Los Alamos above SR-4	2005	UF	RAD	Gross alpha	6	5	3	99	7.4	243	30	pCi/L
E050	Los Alamos below LA Weir	2005	UF	RAD	Gross alpha	5	4	1	25	2.95	49.2	30	pCi/L
E055	Pueblo above Acid	2004	UF	RAD	Gross alpha	4	4	4	142	65.5	214	30	pCi/L
E055	Pueblo above Acid	2005	UF	RAD	Gross alpha	5	4	2	35	22.6	57.7	30	pCi/L
E055.5	South Fork of Acid Canyon	2005	UF	RAD	Gross alpha	3	3	3	53	36.1	79.9	30	pCi/L
E055.5	South Fork of Acid Canyon	2005	UF	RAD	Plutonium-239/240	3	3	3	104.6	35.1	235	30	pCi/L
E056	Acid above Pueblo	2005	UF	RAD	Gross alpha	2	2	2	124	95.4	153	30	pCi/L
E056	Acid above Pueblo	2005	UF	RAD	Plutonium-239/240	2	2	1	66.5	27	106	30	pCi/L
E060	Pueblo above SR-502	2004	UF	RAD	Gross alpha	3	3	2	44	16.1	85.1	30	pCi/L
E060	Pueblo above SR-502	2005	UF	RAD	Gross alpha	4	4	1	17	5.13	33	30	pCi/L
E110	Los Alamos at Rio Grande	2005	UF	RAD	Gross alpha	1	1	1	48	47.7	47.7	30	pCi/L
E121	Sandia right fork at Power Plant	2004	UF	RAD	Gross alpha	3	3	1	21	5.79	32	30	pCi/L
E124	Sandia above Firing Range	2004	UF	RAD	Gross alpha	3	3	2	362	6.48	877	30	pCi/L
E124	Sandia above Firing Range	2005	UF	RAD	Gross alpha	4	4	3	110	20	261	30	pCi/L
E125	Sandia above SR-4	2005	UF	RAD	Gross alpha	1	1	1	47	47.3	47.3	30	pCi/L
E200	Mortandad below Effluent Canyon	2004	UF	RAD	Americium-241	4	4	1	18.7	7.02	44.5	30	pCi/L
E200	Mortandad below Effluent Canyon	2004	UF	RAD	Gross alpha	4	4	3	223	26.8	751	30	pCi/L
E200	Mortandad below Effluent Canyon	2005	UF	RAD	Americium-241	4	4	1	15.395	6.74	32.4	30	pCi/L
E200	Mortandad below Effluent Canyon	2005	UF	RAD	Gross alpha	4	4	3	104	29.7	232	30	pCi/L
E201	Mortandad above Ten Site	2005	UF	RAD	Americium-241	2	2	2	54.65	40.5	68.8	30	pCi/L
E201	Mortandad above Ten Site	2005	UF	RAD	Gross alpha	2	2	2	120	112	127	30	pCi/L
E201	Mortandad above Ten Site	2005	UF	RAD	Plutonium-239/240	2	2	1	16.85	3.6	30.1	30	pCi/L
E201.3	Ten Site below MDA C	2005	UF	RAD	Gross alpha	2	2	2	40	32.3	47.3	30	pCi/L
E201.5	Ten Site above Mortandad	2005	UF	RAD	Gross alpha	3	3	1	30	6.21	54.4	30	pCi/L
E202	Mortandad above Sediment Traps	2005	UF	RAD	Americium-241	1	1	1	33.2	33.2	33.2	30	pCi/L
E202	Mortandad above Sediment Traps	2005	UF	RAD	Gross alpha	1	1	1	96	95.8	95.8	30	pCi/L
E218	Canada del Buey near TA-46	2004	UF	RAD	Gross alpha	2	1	1	50	49.5	49.5	30	pCi/L
E218	Canada del Buey near TA-46	2005	UF	RAD	Gross alpha	2	2	1	36	7.14	64.6	30	pCi/L
E227	MDA G-13	2005	UF	RAD	Gross alpha	2	2	2	69	31.2	106	30	pCi/L
E230	Canada del Buey above SR-4	2004	UF	RAD	Gross alpha	3	3	3	415	68.6	979	30	pCi/L

Table A11. FFCA Watershed Storm Water Monitoring, 2005
Summary for Radionuclides greater than DOE DCG

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	DCG	Units
E230	Canada del Buey above SR-4	2004	UF	RAD	Gross beta	3	3	1	549	108	1270	1000	pCi/L
E240	Pajarito below SR-501	2005	UF	RAD	Gross alpha	3	2	2	173	68.3	277	30	pCi/L
E243	Pajarito above Twomile	2005	UF	RAD	Gross alpha	4	4	3	64	2.06	119	30	pCi/L
E243.5	Twomile tributary at TA-3	2004	UF	RAD	Gross alpha	6	6	1	13	5.33	37.3	30	pCi/L
E244	Twomile above Pajarito	2004	UF	RAD	Gross alpha	3	2	2	658	235	1080	30	pCi/L
E244	Twomile above Pajarito	2004	UF	RAD	Gross beta	3	3	1	654	3.24	1500	1000	pCi/L
E245	Pajarito above TA-18	2005	UF	RAD	Gross alpha	4	4	2	34	3.33	77.3	30	pCi/L
E245.5	Pajarito above Threemile	2004	UF	RAD	Gross alpha	3	2	2	228	221	234	30	pCi/L
E245.5	Pajarito above Threemile	2005	UF	RAD	Gross alpha	5	5	4	72	2.94	218	30	pCi/L
E246	Threemile above Pajarito	2004	UF	RAD	Gross alpha	2	2	2	206	148	264	30	pCi/L
E247	MDA G-1	2004	UF	RAD	Gross alpha	2	2	2	361	81.7	641	30	pCi/L
E247	MDA G-1	2005	UF	RAD	Gross alpha	3	2	2	87	76.7	97.7	30	pCi/L
E248.5	MDA G-6U	2004	UF	RAD	Gross alpha	1	1	1	132	132	132	30	pCi/L
E248.5	MDA G-6U	2005	UF	RAD	Gross alpha	4	4	2	47	5.39	85.7	30	pCi/L
E262.5	Water below MDA AB	2004	UF	RAD	Gross alpha	2	1	1	188	188	188	30	pCi/L
E262.5	Water below MDA AB	2005	UF	RAD	Gross alpha	3	2	2	49	37.7	60	30	pCi/L
E263	Water at SR-4	2004	UF	RAD	Gross alpha	1	1	1	604	604	604	30	pCi/L
E263	Water at SR-4	2004	UF	RAD	Gross beta	1	1	1	1080	1080	1080	1000	pCi/L
E265	Water below SR-4	2004	UF	RAD	Gross alpha	3	2	2	97	32.5	161	30	pCi/L
E265	Water below SR-4	2005	UF	RAD	Gross alpha	3	2	1	46	24	67.3	30	pCi/L
E267	Potrillo above SR-4	2005	UF	RAD	Gross alpha	1	1	1	80	80.4	80.4	30	pCi/L

Table A12. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value	
E026	Los Alamos below Ice Rink	2005	Q2	4/17/2005	UF	GU05040E02602	RAD	Gross alpha		36.8	pCi/L			30	pCi/L
E030	Los Alamos above DP Canyon	2004	Q3	7/27/2004	UF	GU04070E03002	RAD	Gross alpha		74.8	pCi/L			30	pCi/L
E030	Los Alamos above DP Canyon	2004	Q3	8/18/2004	UF	GU04080E03001	RAD	Gross alpha		291	pCi/L			30	pCi/L
E030	Los Alamos above DP Canyon	2004	Q3	9/27/2004	UF	GU04090E03001	RAD	Gross alpha		167	pCi/L			30	pCi/L
E030	Los Alamos above DP Canyon	2004	Q4	10/5/2004	UF	GU04100E03001	RAD	Gross alpha		54	pCi/L			30	pCi/L
E038	DP above TA-21	2004	Q3	7/23/2004	UF	GU04070E03803	RAD	Gross alpha		56.4	pCi/L			30	pCi/L
E038	DP above TA-21	2004	Q3	8/16/2004	UF	GU04080E03801	RAD	Gross alpha		234	pCi/L			30	pCi/L
E038	DP above TA-21	2005	Q3	7/15/2005	UF	GU05070E03801	RAD	Gross alpha		34.2	pCi/L			30	pCi/L
E039	DP below Meadow at TA-21	2004	Q3	7/18/2004	UF	GU04070E03901	RAD	Gross alpha		79.3	pCi/L			30	pCi/L
E039	DP below Meadow at TA-21	2004	Q3	7/23/2004	UF	GU04070E03902	RAD	Gross alpha		52.1	pCi/L			30	pCi/L
E039	DP below Meadow at TA-21	2005	Q3	7/15/2005	UF	GU05070E03901	RAD	Gross alpha		75.7	pCi/L			30	pCi/L
E039	DP below Meadow at TA-21	2005	Q3	8/4/2005	UF	GU05080E03901	RAD	Gross alpha		40.7	pCi/L		J-	30	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	7/18/2004	UF	GU04070E04001	RAD	Gross alpha		368	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	7/27/2004	UF	GU04070E04002	RAD	Gross alpha		146	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	8/11/2004	UF	GU04080E04001	RAD	Gross alpha		87.9	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2004	Q3	8/18/2004	UF	GU04080E04003	RAD	Gross alpha		59.8	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2005	Q2	5/3/2005	UF	GU05050E04001	RAD	Gross alpha		30.2	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/4/2005	UF	GU05080E04001	RAD	Gross alpha		121	pCi/L		J-	30	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/11/2005	UF	GU05080E04002	RAD	Gross alpha		90.5	pCi/L			30	pCi/L
E040	DP above Los Alamos Canyon	2005	Q3	8/12/2005	UF	GU05080E04004	RAD	Gross alpha		123	pCi/L			30	pCi/L
E042	Los Alamos above SR-4	2004	Q3	7/23/2004	UF	GU04070E04201	RAD	Gross alpha		848	pCi/L			30	pCi/L
E042	Los Alamos above SR-4	2004	Q3	8/20/2004	UF	GU04080E04201	RAD	Gross alpha		118	pCi/L			30	pCi/L
E042	Los Alamos above SR-4	2004	Q4	10/5/2004	UF	GU04100E04201	RAD	Gross alpha		114	pCi/L			30	pCi/L
E042	Los Alamos above SR-4	2005	Q3	7/15/2005	UF	GU05070E04201	RAD	Gross alpha		90.4	pCi/L			30	pCi/L
E042	Los Alamos above SR-4	2005	Q3	8/4/2005	UF	GU05080E04201	RAD	Gross alpha		243	pCi/L		J-	30	pCi/L
E042	Los Alamos above SR-4	2005	Q3	8/12/2005	UF	GU05080E04202	RAD	Gross alpha		132	pCi/L		J	30	pCi/L
E050	Los Alamos below LA Weir	2005	Q3	7/15/2005	UF	GU05070E05001	RAD	Gross alpha		49.2	pCi/L			30	pCi/L
E055	Pueblo above Acid	2004	Q3	7/23/2004	UF	GU04070E05501	RAD	Gross alpha		214	pCi/L			30	pCi/L
E055	Pueblo above Acid	2004	Q3	8/18/2004	UF	GU04080E05501	RAD	Gross alpha		201	pCi/L			30	pCi/L
E055	Pueblo above Acid	2004	Q3	8/20/2004	UF	GU04080E05502	RAD	Gross alpha		87.5	pCi/L			30	pCi/L
E055	Pueblo above Acid	2004	Q3	9/27/2004	UF	GU04090E05501	RAD	Gross alpha		65.5	pCi/L			30	pCi/L
E055	Pueblo above Acid	2005	Q3	8/12/2005	UF	GU05080E05501	RAD	Gross alpha		32.2	pCi/L			30	pCi/L
E055	Pueblo above Acid	2005	Q3	8/13/2005	UF	GU05080E05502	RAD	Gross alpha		57.7	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Gross alpha		43.1	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Plutonium-239/240		235	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Gross alpha		79.9	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Plutonium-239/240		43.7	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Gross alpha		36.1	pCi/L			30	pCi/L
E055.5	South Fork of Acid Canyon	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Plutonium-239/240		35.1	pCi/L			30	pCi/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Gross alpha		153	pCi/L			30	pCi/L
E056	Acid above Pueblo	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Plutonium-239/240		106	pCi/L			30	pCi/L

Table A12. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value	
E056	Acid above Pueblo	2005	Q3	9/28/2005	UF	GU05090E05601	RAD	Gross alpha		95.4	pCi/L		J-	30	pCi/L
E060	Pueblo above SR-502	2004	Q3	7/23/2004	UF	GU04070E06001	RAD	Gross alpha		32.2	pCi/L			30	pCi/L
E060	Pueblo above SR-502	2004	Q3	7/27/2004	UF	GU04070E06002	RAD	Gross alpha		85.1	pCi/L			30	pCi/L
E060	Pueblo above SR-502	2005	Q3	8/24/2005	UF	GU05080E06002	RAD	Gross alpha		33	pCi/L			30	pCi/L
E110	Los Alamos at Rio Grande	2005	Q2	4/20/2005	UF	GU05030M11001	RAD	Gross alpha		47.7	pCi/L			30	pCi/L
E121	Sandia right fork at Power Plant	2004	Q3	9/27/2004	UF	GU04090E12101	RAD	Gross alpha		32	pCi/L			30	pCi/L
E124	Sandia above Firing Range	2004	Q3	8/18/2004	UF	GU04080E12402	RAD	Gross alpha		877	pCi/L			30	pCi/L
E124	Sandia above Firing Range	2004	Q3	8/20/2004	UF	GU04080E12403	RAD	Gross alpha		202	pCi/L			30	pCi/L
E124	Sandia above Firing Range	2005	Q3	7/15/2005	UF	GU05070E12401	RAD	Gross alpha		261	pCi/L			30	pCi/L
E124	Sandia above Firing Range	2005	Q3	7/23/2005	UF	GU05070E12403	RAD	Gross alpha		111	pCi/L			30	pCi/L
E124	Sandia above Firing Range	2005	Q3	8/4/2005	UF	GU05080E12401	RAD	Gross alpha		49.6	pCi/L		J-	30	pCi/L
E125	Sandia above SR-4	2005	Q3	9/29/2005	UF	GU05090E12501	RAD	Gross alpha		47.3	pCi/L		J-	30	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/11/2004	UF	GU04080E20001	RAD	Gross alpha		39.4	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Americium-241		44.5	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Gross alpha		751	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2004	Q3	8/20/2004	UF	GU04080E20003	RAD	Gross alpha		74	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2005	Q2	5/3/2005	UF	GU05050E20001	RAD	Gross alpha		96.8	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Americium-241		32.4	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Gross alpha		232	pCi/L			30	pCi/L
E200	Mortandad below Effluent Canyon	2005	Q3	7/20/2005	UF	GU05070E20002	RAD	Gross alpha		57.9	pCi/L			30	pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/29/2005	UF	GU05090E20101	RAD	Americium-241		68.8	pCi/L			30	pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/29/2005	UF	GU05090E20101	RAD	Gross alpha		127	pCi/L		J-	30	pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	RAD	Americium-241		40.5	pCi/L			30	pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	RAD	Gross alpha		112	pCi/L		J-	30	pCi/L
E201	Mortandad above Ten Site	2005	Q3	9/30/2005	UF	GU05090E20102	RAD	Plutonium-239/240		30.1	pCi/L			30	pCi/L
E201.3	Ten Site below MDA C	2005	Q3	8/12/2005	UF	GU0508E201301	RAD	Gross alpha		47.3	pCi/L			30	pCi/L
E201.3	Ten Site below MDA C	2005	Q3	9/28/2005	UF	GU0509E201302	RAD	Gross alpha		32.3	pCi/L		J-	30	pCi/L
E201.5	Ten Site above Mortandad	2005	Q3	8/25/2005	UF	GU0508E201502	RAD	Gross alpha		54.4	pCi/L			30	pCi/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20202	RAD	Americium-241		33.2	pCi/L		J	30	pCi/L
E202	Mortandad above Sediment Traps	2005	Q3	9/29/2005	UF	GU05090E20202	RAD	Gross alpha		95.8	pCi/L		J-	30	pCi/L
E218	Canada del Buey near TA-46	2004	Q3	8/15/2004	UF	GU04080E21801	RAD	Gross alpha		49.5	pCi/L			30	pCi/L
E218	Canada del Buey near TA-46	2005	Q3	8/24/2005	UF	GU05080E21801	RAD	Gross alpha		64.6	pCi/L			30	pCi/L
E227	MDA G-13	2005	Q3	9/28/2005	UF	GU05100E22701	RAD	Gross alpha		106	pCi/L			30	pCi/L
E227	MDA G-13	2005	Q4	10/9/2005	UF	GU05100E22702	RAD	Gross alpha		31.2	pCi/L			30	pCi/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	RAD	Gross alpha		979	pCi/L			30	pCi/L
E230	Canada del Buey above SR-4	2004	Q3	8/10/2004	UF	GU04080E23001	RAD	Gross beta		1270	pCi/L			1000	pCi/L
E230	Canada del Buey above SR-4	2004	Q3	8/19/2004	UF	GU04080E23002	RAD	Gross alpha		196	pCi/L			30	pCi/L
E230	Canada del Buey above SR-4	2004	Q4	10/5/2004	UF	GU04100E23001	RAD	Gross alpha		68.6	pCi/L			30	pCi/L
E240	Pajarito below SR-501	2005	Q3	8/11/2005	UF	GU05080E24001	RAD	Gross alpha		68.3	pCi/L			30	pCi/L
E240	Pajarito below SR-501	2005	Q3	8/24/2005	UF	GU05080E24003	RAD	Gross alpha		277	pCi/L			30	pCi/L
E243	Pajarito above Twomile	2005	Q3	7/15/2005	UF	GU05070E24301	RAD	Gross alpha		96.1	pCi/L			30	pCi/L

Table A12. FFCA Watershed Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value	
E243	Pajarito above Twomile	2005	Q3	8/12/2005	UF	GU05080E24301	RAD	Gross alpha		37.6	pCi/L			30	pCi/L
E243	Pajarito above Twomile	2005	Q3	8/24/2005	UF	GU05080E24302	RAD	Gross alpha		119	pCi/L			30	pCi/L
E243.5	Twomile tributary at TA-3	2004	Q2	6/25/2004	UF	GU0406E243501	RAD	Gross alpha		37.3	pCi/L			30	pCi/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	RAD	Gross alpha		1080	pCi/L			30	pCi/L
E244	Twomile above Pajarito	2004	Q3	7/23/2004	UF	GU04070E24401	RAD	Gross beta		1500	pCi/L			1000	pCi/L
E244	Twomile above Pajarito	2004	Q3	8/18/2004	UF	GU04080E24401	RAD	Gross alpha		235	pCi/L			30	pCi/L
E245	Pajarito above TA-18	2005	Q3	8/6/2005	UF	GU05080E24502	RAD	Gross alpha		32.1	pCi/L		J-	30	pCi/L
E245	Pajarito above TA-18	2005	Q3	8/24/2005	UF	GU05080E24504	RAD	Gross alpha		77.3	pCi/L			30	pCi/L
E245.5	Pajarito above Threemile	2004	Q3	7/24/2004	UF	GU0407E245501	RAD	Gross alpha		234	pCi/L			30	pCi/L
E245.5	Pajarito above Threemile	2004	Q3	8/18/2004	UF	GU0408E245501	RAD	Gross alpha		221	pCi/L			30	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/12/2005	UF	GU0508E245502	RAD	Gross alpha		34.2	pCi/L			30	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/22/2005	UF	GU0508E245503	RAD	Gross alpha		44.5	pCi/L		J-	30	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/24/2005	UF	GU0508E245504	RAD	Gross alpha		218	pCi/L			30	pCi/L
E245.5	Pajarito above Threemile	2005	Q3	8/25/2005	UF	GU0508E245505	RAD	Gross alpha		62.1	pCi/L			30	pCi/L
E246	Threemile above Pajarito	2004	Q3	7/24/2004	UF	GU04070E24601	RAD	Gross alpha		148	pCi/L			30	pCi/L
E246	Threemile above Pajarito	2004	Q3	8/20/2004	UF	GU04080E24601	RAD	Gross alpha		264	pCi/L			30	pCi/L
E247	MDA G-1	2004	Q3	8/10/2004	UF	GU04080E24701	RAD	Gross alpha		641	pCi/L			30	pCi/L
E247	MDA G-1	2004	Q4	10/5/2004	UF	GU04100E24701	RAD	Gross alpha		81.7	pCi/L			30	pCi/L
E247	MDA G-1	2005	Q3	8/13/2005	UF	GU05080E24701	RAD	Gross alpha		76.7	pCi/L			30	pCi/L
E247	MDA G-1	2005	Q3	9/29/2005	UF	GU05090E24701	RAD	Gross alpha		97.7	pCi/L		J-	30	pCi/L
E248.5	MDA G-6U	2004	Q3	8/10/2004	UF	GU0408E248501	RAD	Gross alpha		132	pCi/L			30	pCi/L
E248.5	MDA G-6U	2005	Q3	7/15/2005	UF	GU0507E248501	RAD	Gross alpha		84.3	pCi/L			30	pCi/L
E248.5	MDA G-6U	2005	Q4	10/9/2005	UF	GU0510E248501	RAD	Gross alpha		85.7	pCi/L			30	pCi/L
E262.5	Water below MDA AB	2004	Q4	10/5/2004	UF	GU0410E262501	RAD	Gross alpha		188	pCi/L			30	pCi/L
E262.5	Water below MDA AB	2005	Q3	8/4/2005	UF	GU0508E262501	RAD	Gross alpha		60	pCi/L		J-	30	pCi/L
E262.5	Water below MDA AB	2005	Q3	8/12/2005	UF	GU0508E262502	RAD	Gross alpha		37.7	pCi/L			30	pCi/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	RAD	Gross alpha		604	pCi/L			30	pCi/L
E263	Water at SR-4	2004	Q3	8/18/2004	UF	GU04080E26301	RAD	Gross beta		1080	pCi/L			1000	pCi/L
E265	Water below SR-4	2004	Q3	8/11/2004	UF	GU04080E26502	RAD	Gross alpha		32.5	pCi/L			30	pCi/L
E265	Water below SR-4	2004	Q3	8/20/2004	UF	GU04080E26503	RAD	Gross alpha		161	pCi/L			30	pCi/L
E265	Water below SR-4	2005	Q3	9/28/2005	UF	GU05090E26501	RAD	Gross alpha		67.3	pCi/L		J-	30	pCi/L
E267	Potrillo above SR-4	2005	Q3	9/28/2005	UF	GU05090E26701	RAD	Gross alpha		80.4	pCi/L		J-	30	pCi/L

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Table A13. Definition of LANL Data Validation Qualifier Flags

Qualifier Flag	Definition
J	The analyte is classified as "detected" but the reported concentration value is expected to be more uncertain than usual.
J+	The analyte is classified as "detected" but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.
J-	The analyte is classified as "detected" but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
JN+	Presumptive evidence of the presence of the material at an estimated quantity with a suspected positive bias.
JN-	Presumptive evidence of the presence of the material at an estimated quantity with a suspected negative bias.
NJ	(Organic) -Analyte has been tentatively identified and the associated numerical value is estimated based upon 1:1 response factor to the nearest eluting internal standard.
N	Presumptive evidence of the presence of the material.
U	The analyte is classified as "not detected."
UJ	The analyte is classified as "not detected" with an expectation that the reported result is more uncertain than usual.
R	The reported sample result is classified as rejected due to serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.

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Table A14. 2005 Precipitation Data

Month	Day	Year	DOY	LANL Meteorological Tower					
				TA-06 (in)	TA-16 (in)	TA-49 (in)	TA-53 (in)	TA-54 (in)	TA-74 (in)
				(in)	(in)	(in)	(in)	(in)	(in)
3	1	2005	60	0	0.02	0	0	0	0
3	3	2005	62	0	0	0	0.01	0	0.02
3	5	2005	64	0.08	0.07	0.05	0.05	0.01	0.03
3	6	2005	65	0.03	0.05	0.03	0.06	0.06	0.07
3	13	2005	72	0.04	0.04	0.04	0.02	0.03	0
3	14	2005	73	0.91	0.95	1.05	0.88	0.8	0.59
3	15	2005	74	0.2	0.3	0.22	0.18	0.22	0.16
3	20	2005	79	0.13	0.21	0.13	0.11	0.13	0.1
3	23	2005	82	0.03	0.05	0	0	0	0
3	23	2005	82	0.03	0.05	0	0	0	0
3	25	2005	84	0.29	0.36	0.17	0.21	0.11	0.26
3	26	2005	85	0.19	0.32	0.15	0.19	0.27	0.19
3	29	2005	88	0	0.04	0.01	0.01	0	0.01
3	30	2005	89	0.01	0.02	0.01	0.01	0	0
4	5	2005	95	0	0.02	0	0	0	0
4	10	2005	100	0.09	0.22	0.14	0.11	0.17	0.08
4	11	2005	101	0	0	0	0	0	0.02
4	15	2005	105	0	0.01	0	0	0	0
4	16	2005	106	0.55	0.73	0.4	0.38	0.39	0.35
4	17	2005	107	0	0	0	0.01	0	0
4	24	2005	114	0.72	0.91	0.72	0.69	0.66	0.67
4	25	2005	115	0.05	0.09	0.03	0.08	0.04	0.08
4	26	2005	116	0.04	0.04	0.03	0.01	0.01	0.02
4	29	2005	119	0	0	0	0	0.01	0.1
4	30	2005	120	0	0	0	0	0	0.01
5	1	2005	121	0.09	0.18	0.19	0.14	0.15	0.15
5	2	2005	122	0	0	0.01	0	0	0

Table A14. 2005 Precipitation Data

Month	Day	Year	DOY	TA-06 (in)	TA-16 (in)	TA-49 (in)	TA-53 (in)	TA-54 (in)	TA-74 (in)
5	3	2005	123	0.41	0.67	0.29	0.25	0.23	0.29
5	5	2005	125	0.01	0.01	0	0	0.02	0
5	14	2005	134	0	0.01	0	0	0.01	0.01
5	15	2005	135	0.03	0.07	0.04	0.04	0.04	0.02
5	26	2005	146	0.01	0.06	0.02	0	0	0.01
5	27	2005	147	0.29	0.52	0.64	0.05	0.15	0.05
5	28	2005	148	0.07	0.41	0.07	0.12	0.05	0.08
5	29	2005	149	0.01	0.07	0	0	0	0
5	30	2005	150	0	0	0.01	0	0.02	0
6	11	2005	162	0.06	0.09	0.03	0.04	0.03	0.03
6	12	2005	163	0.03	0.06	0.01	0	0.02	0.01
6	15	2005	166	0.04	0.08	0	0.02	0	0.03
6	21	2005	172	0	0	0	0	0	0.01
6	25	2005	176	0.07	0.1	0.03	0.1	0.17	0.24
6	26	2005	177	0.06	0.06	0.04	0.02	0.05	0
7	10	2005	191	0	0	0	0	0	0.04
7	12	2005	193	0.02	0.01	0.01	0.01	0.03	0.03
7	15	2005	196	1.13	1.26	0.19	0.01	0	0
7	17	2005	198	0.07	0.12	0.23	0.19	0.79	0.66
7	20	2005	201	0.28	0	0	0.03	0	0
7	25	2005	206	0	0	0	0.01	0	0
7	26	2005	207	0.13	0.08	0.18	0.06	0.03	0.03
7	27	2005	208	0	0	0	0.01	0.01	0
8	3	2005	215	0.01	0.01	0.01	0.07	0	0
8	4	2005	216	0.65	1.12	0.19	0.38	0.06	0.05
8	5	2005	217	0.14	0.15	1.03	0.17	0.88	0.36
8	6	2005	218	0.07	0.12	0.02	0	0	0
8	9	2005	221	0.15	0	0	0.01	0	0
8	11	2005	223	0.45	0.44	0.11	0.94	0.17	0.1

Table A14. 2005 Precipitation Data

Month	Day	Year	DOY	TA-06 (in)	TA-16 (in)	TA-49 (in)	TA-53 (in)	TA-54 (in)	TA-74 (in)
8	12	2005	224	1.32	1.4	1.62	1.2	1.28	0.88
8	13	2005	225	0.47	0.44	0.52	0.6	0.55	0.84
8	14	2005	226	0.05	0.01	0	0.08	0.05	0.01
8	16	2005	228	0	0	0.01	0	0.07	0
8	17	2005	229	0	0	0	0	0.04	0
8	18	2005	230	0.04	0	0	0.03	0	0.11
8	21	2005	233	0.1	0.23	0.02	0.08	0	0.03
8	22	2005	234	0.49	0.2	0.08	0.58	0.07	0.15
8	23	2005	235	0	0	0.09	0.04	0.01	0.06
8	24	2005	236	1.29	0.59	0.01	0.79	0	0.43
8	25	2005	237	0.46	0.16	0	0.33	0	0.33
8	28	2005	240	0.07	0.12	0.01	0.02	0.01	0.01
9	1	2005	244	0.09	0.09	0.01	0	0	0.01
9	2	2005	245	0.14	0.07	0.19	0.07	0.12	0.05
9	3	2005	246	0	0.01	0	0	0	0
9	4	2005	247	0.15	0.56	0.23	0.07	0.39	0.14
9	5	2005	248	0	0.06	0.4	0.02	0.12	0.03
9	6	2005	249	0.07	0.21	0.01	0.04	0	0.01
9	7	2005	250	0.16	0.25	0.08	0.01	0.08	0.02
9	9	2005	252	0	0.01	0	0.01	0.03	0.01
9	10	2005	253	0	0	0	0	0.01	0
9	22	2005	265	0.32	0.37	0.07	0.34	0.11	0.13
9	23	2005	266	0.05	0	0.03	0.02	0.04	0.05
9	24	2005	267	0	0	0	0	0.01	0
9	27	2005	270	0.05	0.08	0.05	0.05	0.06	0.04
9	28	2005	271	1.25	1.54	1.19	1.06	1.61	1.17
9	29	2005	272	1.16	1.19	1.24	0.98	1.19	0.93
9	30	2005	273	0	0.01	0.01	0.01	0	0.01
10	3	2005	276	0.06	0.07	0.07	0.06	0.1	0.07

Table A14. 2005 Precipitation Data

Month	Day	Year	DOY	TA-06 (in)	TA-16 (in)	TA-49 (in)	TA-53 (in)	TA-54 (in)	TA-74 (in)
10	4	2005	277	0.03	0.05	0.02	0.01	0.02	0.03
10	5	2005	278	0.01	0.01	0.01	0	0.02	0
10	6	2005	279	0.05	0.07	0.2	0.1	0.19	0.11
10	8	2005	281	0	0.01	0	0	0.06	0
10	9	2005	282	0.17	0.08	0.1	0.19	0.47	0.27
10	10	2005	283	0.24	0.36	0.4	0.13	0.16	0.14
10	11	2005	284	0	0	0.01	0	0	0.01
10	15	2005	288	0.26	0.34	0.43	0.32	0.35	0.25
10	16	2005	289	0	0	0.01	0	0.01	0.01
10	18	2005	291	0.14	0.18	0.1	0.1	0.09	0.07
10	19	2005	292	0.14	0.15	0.19	0.13	0.11	0.13
10	20	2005	293	0	0	0	0	0	0.01
10	26	2005	299	0	0.02	0	0	0	0
10	28	2005	301	0.01	0.02	0.03	0.01	0.01	0
10	29	2005	302	0	0	0	0	0	0.01
11	11	2005	315	0.07	0.11	0.1	0.11	0.06	0.13
11	26	2005	330	0	0.01	0	0	0.02	0

Part B. Site-Specific Storm Water Monitoring Results

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B. Site-Specific Storm Water Monitoring Results

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Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
CDV-SMA-2	SS255	2005	ISCO	2005		F	1						1														
CDV-SMA-2	SS255	2005	ISCO	2005		UF	1					1	1	1									1	1	1	1	1
CDV-SMA-2.4	SS2557	2005	ISCO	2005		F	5						4														
CDV-SMA-2.4	SS2557	2005	ISCO	2005		UF	5	4	4			5	4	4			4										
CDV-SMA-6	SS25620	2005	ISCO	2005		-	0																				
DP-SMA-0.3	SS0375	2005	SS	2005		F	4						4														
DP-SMA-0.3	SS0375	2005	SS	2005		UF	6	4	4			6	4	4		4							4	4	4	4	4
DP-SMA-0.9	SS0388	2005	SS	2005		F	4						4														
DP-SMA-0.9	SS0388	2005	SS	2005		UF	4	4	4			4	4	4									4	4	4	4	4
DP-SMA-1	SS0385	2004	SS	2004		UF	4	4	4	4		3		3					3				2	2	2	2	2
DP-SMA-1	SS0385	2004	SS	2005		F	3						3														
DP-SMA-1	SS0385	2004	SS	2005		UF	3					3	3	3					1				2	2	2	2	2
DP-SMA-2	SS0387	2005	SS	2005		F	4						4														
DP-SMA-2	SS0387	2005	SS	2005		UF	4	4	4			4	4										4	4	4	4	4
F-SMA-2	SS26757	2005	ISCO	2005		F	1						1														
F-SMA-2	SS26757	2005	ISCO	2005		UF	1					1	1														
LA-SMA-1 (A)	SS0263	2004	SS	2005		F	5						4														
LA-SMA-1 (A)	SS0263	2004	SS	2005		UF	7		4			6	5										4	4	4	1	4
LA-SMA-1 (B)	SS0264	2004	ISCO	2004		F	5						5														
LA-SMA-1 (B)	SS0264	2004	ISCO	2004		UF	6	5	5	5		6	5	5					4				5	5	5	4	5
LA-SMA-1 (B)	SS0264	2004	ISCO	2005		F	3						3														
LA-SMA-1 (B)	SS0264	2004	ISCO	2005		UF	4	2	2			4	3	3									2	2	2	2	2
LA-SMA-1.2	SS02645	2005	SS	2005		F	3						3														
LA-SMA-1.2	SS02645	2005	SS	2005		UF	3	3	3			2	3	3									2	2	2	2	2
LA-SMA-1.5(N)	SS02653(N)	2005	ISCO	2005		F	3						3														
LA-SMA-1.5(N)	SS02653(N)	2005	ISCO	2005		UF	3					3	3	3													
LA-SMA-1.5(S)	SS02653(S)	2005	SS	2005		F	8						8														
LA-SMA-1.5(S)	SS02653(S)	2005	SS	2005		UF	8	1	1			8	8	8													
LA-SMA-2	SS0265	2004	ISCO	2004		F	4						4														
LA-SMA-2	SS0265	2004	ISCO	2004		UF	4	4	4	4		4	4	4					4				4	4	4	4	4
LA-SMA-2	SS0265	2004	ISCO	2005		F	3																				
LA-SMA-2	SS0265	2004	ISCO	2005		UF	4					4							4								
LA-SMA-3	SS0266	2004	ISCO	2004		F	4						4														
LA-SMA-3	SS0266	2004	ISCO	2004		UF	4	4	4	4		4	4	4					2				4	4	4	4	4
LA-SMA-3	SS0266	2004	ISCO	2005		F	2																				
LA-SMA-3	SS0266	2004	ISCO	2005		UF	4					4							2								
LA-SMA-4	SS0267	2004	ISCO	2004		F	4						4														
LA-SMA-4	SS0267	2004	ISCO	2004		UF	7	4	4	4		6	4	4					2				4	3	4	3	4
LA-SMA-4	SS0267	2004	ISCO	2005		F	4						4														
LA-SMA-4	SS0267	2004	ISCO	2005		UF	4					4	4						2				3	3	3	1	3
LA-SMA-5	SS0268	2004	ISCO	2004		F	1						1														
LA-SMA-5	SS0268	2004	ISCO	2004		UF	1	1	1	1		1	1	1					1				1	1	1	1	1

Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
LA-SMA-5	SS0268	2004	ISCO	2005		F	4						4														
LA-SMA-5	SS0268	2004	ISCO	2005		UF	6	3	3			5	4	4					1				4	4	4	3	4
LA-SMA-5.2	SS026805	2005	SS	2005		F	3						3														
LA-SMA-5.2	SS026805	2005	SS	2005		UF	3	3	3			3	3	3									2	2	2	3	2
LA-SMA-5.3	SS02681	2005	ISCO	2005		F	3						3														
LA-SMA-5.3	SS02681	2005	ISCO	2005		UF	4	3	4			4	4	4									3	3	3	3	3
LA-SMA-5.4	SS02683	2005	SS	2005		F	4						4														
LA-SMA-5.4	SS02683	2005	SS	2005		UF	6	4	4			6	4	4									4	4	3	3	4
LA-SMA-5.5	SS02685	2005	ISCO	2005		F	2						2														
LA-SMA-5.5	SS02685	2005	ISCO	2005		UF	2	2	2			2	2	2									2	2	2	1	2
LA-SMA-6	SS0269	2004	SS	2004		F	2						2														
LA-SMA-6	SS0269	2004	SS	2004		UF	2	1	1	1		2	2	2					2				1	1	1		1
LA-SMA-6	SS0269	2004	SS	2005		F	1						1														
LA-SMA-6	SS0269	2004	SS	2005		UF	1	1	1			1	1	1					1								
LA-SMA-6.3	SS028	2005	SS	2005		F	1						1														
LA-SMA-6.3	SS028	2005	SS	2005		UF	1	1	1			1	1	1									1	1	1	1	1
LA-SMA-6.5	SS0287	2005	SS	2005		F	1						1														
LA-SMA-6.5	SS0287	2005	SS	2005		UF	1	1	1			1	1	1							1		1	1	1		1
LA-SMA-9	SS0304	2004	SS	2004		-	0																				
LA-SMA-9	SS0304	2004	SS	2005		-	0																				
LA-SMA-10	SS037	2004	SS	2004		UF	1					1															
LA-SMA-10	SS037	2004	SS	2005		F	2						2														
LA-SMA-10	SS037	2004	SS	2005		UF	2	2	2			2	2	2									1	1	1	1	1
M-SMA-1	SS198	2004	ISCO	2004		F	4						4														
M-SMA-1	SS198	2004	ISCO	2004		UF	8	3	4	4	4	8	4	4					4				3	2	3	4	3
M-SMA-2	SS1984	2004	SS	2004		F	2						2														
M-SMA-2	SS1984	2004	SS	2004		UF	2	2	2	2	2	2	2	2					2				2	2	2	2	2
M-SMA-2	SS1984	2004	SS	2005		F	4						4														
M-SMA-2	SS1984	2004	SS	2005		UF	4	2	2		4	4	4	2					2				3	3	3	2	3
M-SMA-3	SS1985	2004	SS	2004		F	3						3														
M-SMA-3	SS1985	2004	SS	2004		UF	3	3	3	3	3	3	3	3					3				3	3	3	3	3
M-SMA-3	SS1985	2004	SS	2005		F	1						1														
M-SMA-3	SS1985	2004	SS	2005		UF	1	1	1		1	1	1	1					1				1	1	1	1	1
M-SMA-4	SS1987	2004	SS	2004		F	5						5														
M-SMA-4	SS1987	2004	SS	2004		UF	8	5	5	5	5	7	5	5					5		5		5	5	5	5	5
M-SMA-4	SS1987	2004	SS	2005		F	4						4														
M-SMA-4	SS1987	2004	SS	2005		UF	6					6	4										4	4	4		4
M-SMA-5	SS199	2004	SS	2004		F	4						4														
M-SMA-5	SS199	2004	SS	2004		UF	7	4	4	4	4	5	4	4					3				2	2	2	2	2
M-SMA-5	SS199	2004	SS	2005		F	1																				
M-SMA-5	SS199	2004	SS	2005		UF	4		2			4							1				2	2	2	2	2
M-SMA-6	SS1991	2004	ISCO	2004		F	4						4														

Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
M-SMA-6	SS1991	2004	ISCO	2004		UF	4	4	4	4	4	4	4	4					4				4	4	4	3	4
M-SMA-7	SS1992	2004	ISCO	2004		-	0																				
M-SMA-7	SS1992	2004	ISCO	2005		-	0																				
M-SMA-8	E200	2004	Gage	2004		F	4						4														
M-SMA-8	E200	2004	Gage	2004		UF	4	4	4	4	4	4	4	4					4				4	4	4	4	4
M-SMA-8	E200	2004	Gage	2005		F	4				3		4														
M-SMA-8	E200	2004	Gage	2005		UF	4					4	4	4					4				4	4	4	4	4
M-SMA-9	SS2001	2004	SS	2004		F	4						4														
M-SMA-9	SS2001	2004	SS	2004		UF	6	4	4	4	4	5	4	4					4				4	4	4	4	4
M-SMA-10	SS2002	2004	ISCO	2005		F	1						1														
M-SMA-10	SS2002	2004	ISCO	2005		UF	1	1	1			1	1	1									1	1	1		1
M-SMA-11	SS2003	2004	SS	2004		F	5						5														
M-SMA-11	SS2003	2004	SS	2004		UF	8	5	5	5		6	5	5					4		4		5	5	5	5	5
M-SMA-11	SS2003	2004	SS	2005		F	3																				
M-SMA-11	SS2003	2004	SS	2005		UF	4					4				4							4	4	4		4
M-SMA-12	SS2004	2004	SS	2004		F	1						1														
M-SMA-12	SS2004	2004	SS	2004		UF	1	1	1	1		1	1	1									1	1	1	1	1
M-SMA-12	SS2004	2004	SS	2005		F	3						3														
M-SMA-12	SS2004	2004	SS	2005		UF	4	3	3			4	3	3					4				2	2	2	2	2
M-SMA-13	SS205	2004	SS	2004		UF	6	5	5	5	5	6	1	5									4	4	4	5	4
M-SMA-13	SS205	2004	SS	2005		F	3						3														
M-SMA-13	SS205	2004	SS	2005		UF	3					3	3										1	1	1		1
PJ-SMA-1	SS2405	2005	SS	2005		F	6						4														
PJ-SMA-1	SS2405	2005	SS	2005		UF	6	4	4			6	4	4					4								
PJ-SMA-4	SS24253	2005	SS	2005		F	4						4														
PJ-SMA-4	SS24253	2005	SS	2005		UF	6	4	4	4		6	4	4			4						4	4	4	4	4
PJ-SMA-7	SS24210	2005	SS	2005		F	4						4														
PJ-SMA-7	SS24210	2005	SS	2005		UF	4	4	4			4	4	4			4						4	4	4	4	4
PJ-SMA-8	SS2426	2005	SS	2005		-	0																				
PJ-SMA-15	E248	2004	Gage	2005		UF	3					3											3	3	3	3	3
PJ-SMA-15	E248.5	2004	Gage	2004		F	3						3														
PJ-SMA-15	E248.5	2004	Gage	2004		UF	6	2	3	3		4	3	3					2				1	1	1	3	1
PJ-SMA-15	E248.5	2004	Gage	2004	FTB	UF	1															1					
PJ-SMA-15	E248.5	2004	Gage	2005		F	5						4														
PJ-SMA-15	E248.5	2004	Gage	2005		UF	6					6	4	4					4		4	3	4	4	4	4	4
PJ-SMA-15	E248.5	2004	Gage	2005	FTB	UF	1															1					
PJ-SMA-15	E249	2004	Gage	2004		F	1						1														
PJ-SMA-15	E249	2004	Gage	2004		UF	2	1	1	1		1	1	1					1							1	
PJ-SMA-15	E249.5	2004	Gage	2004		UF	14	5	4	2		1	1	4					2		2	3	4	4	4	4	4
PJ-SMA-15	E249.5	2004	Gage	2005		UF	5					3											4	4	4	4	4
PJ-SMA-250	E250	2005	Gage	2005		F	2						1														
PJ-SMA-250	E250	2005	Gage	2005		UF	2				1	2	2	2	2		2		2				1	1	1	1	1

Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
PJ-SMA-250	E250	2005	Gage	2005	EQB	UF	1						1	1													
Pratt-SMA-1	SS20142	2004	SS	2004		F	5						5														
Pratt-SMA-1	SS20142	2004	SS	2004		UF	7	5	5	5		6	5	5					5		5		5	5	5	3	5
Pratt-SMA-1	SS20142	2004	SS	2005		F	4						4														
Pratt-SMA-1	SS20142	2004	SS	2005		UF	4					4	4						4				4	4	4	1	4
P-SMA-1	SS058	2004	SS	2004		-	0																				
P-SMA-1	SS058	2004	SS	2005		-	0																				
P-SMA-2	SS057	2004	SS	2005		F	1						1														
P-SMA-2	SS057	2004	SS	2005		UF	1	1	1			1	1	1													
P-SMA-2.2	SS0575	2004	SS	2005		F	4						4														
P-SMA-2.2	SS0575	2004	SS	2005		UF	6	4	4			6	4	4					4	4			4	4	4	4	4
P-SMA-3	SS054	2004	ISCO	2005		F	5						4														
P-SMA-3	SS054	2004	ISCO	2005		UF	6	4	4			6	4	4					4				4	4	4	4	4
PT-SMA-3	E266	2005	Gage	2005		-	0																				
R-SMA-1	SS00	2005	SS	2005		F	4						4														
R-SMA-1	SS00	2005	SS	2005		UF	4	4	4			4	4	4		4											
S-SMA-1	E122.2	2004	Gage	2004		UF	4	4	4	4	0	4	0	4	0		0		0		0	0	0	0	0	0	0
S-SMA-1	E122.2	2004	Gage	2004	FD	UF	1	1	1	1	0	1	0	1	0		0		0		0	0	0	0	0	0	0
S-SMA-1	E122.2	2004	Gage	2005		F	5						4														
S-SMA-1	E122.2	2004	Gage	2005		UF	5					4	4	4		4			4								
S-SMA-2	E121	2004	Gage	2004		F	4						4														
S-SMA-2	E121	2004	Gage	2004		UF	4	2	3	3		3	4	3					3				3	3	3	3	3
S-SMA-2	E121	2004	Gage	2005		F	4						4														
S-SMA-2	E121	2004	Gage	2005		UF	5					5	4	4					4				4	4	4	4	4
S-SMA-2	E121	2004	Gage	2005	EQB	UF	1						1	1													
S-SMA-3	SS12292	2004	ISCO	2004		F	2						2														
S-SMA-3	SS12292	2004	ISCO	2004		UF	2	1	1	1		1	2	2													
S-SMA-3.5	SS12293	2005	ISCO	2005		F	5						4														
S-SMA-3.5	SS12293	2005	ISCO	2005		UF	7	3	3			7	4	3					3		3		3	3	3	2	3
S-SMA-3.9	SS1235	2005	SS	2005		F	4						4														
S-SMA-3.9	SS1235	2005	SS	2005		UF	5	4	4			4	4	3			3						1	1	1	3	1
S-SMA-4	SS1238	2004	ISCO	2004		F	4						4														
S-SMA-4	SS1238	2004	ISCO	2004		UF	5	4	4	4		4	4	4			4		4				4	4	4	3	4
S-SMA-4	SS1238	2004	ISCO	2005		F	3																				
S-SMA-4	SS1238	2004	ISCO	2005		UF	4					4											4	4	4	2	4
S-SMA-5	SS1245	2004	SS	2004		F	1						1														
S-SMA-5	SS1245	2004	SS	2004		UF	1	1	1	1		1	1	1					1								
S-SMA-5	SS1245	2004	SS	2005		F	1						1														
S-SMA-5	SS1245	2004	SS	2005		UF	1	1	1			1	1	1					1								
S-SMA-6	SS1248	2004	ISCO	2004		UF	2	1	1	1		1		2									1	1	1		1
S-SMA-6	SS1248	2004	ISCO	2005		F	2						1														
S-SMA-6	SS1248	2004	ISCO	2005		UF	2	1	1			2	1	1					1								

Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
2M-SMA-1	SS2432	2005	ISCO	2005		F	5						4														
2M-SMA-1	SS2432	2005	ISCO	2005		UF	4	4	4			4	4	4									4	4	4	4	4
2M-SMA-2	E243.5	2005	Gage	2005		F	4						4		1												
2M-SMA-2	E243.5	2005	Gage	2005		UF	6					6	4	4	3								4	4	4	4	4
2M-SMA-3	SS2439	2005	ISCO	2005		F	1						1														
2M-SMA-3	SS2439	2005	ISCO	2005		UF	2	1				2	1	1			1										
3M-SMA-0.5	SS2459	2005	ISCO	2005		F	3						3														
3M-SMA-0.5	SS2459	2005	ISCO	2005		UF	4	2	3			4	3										3	3	3	3	3
3M-SMA-0.6	SS2457	2005	SS	2005		F	5						4														
3M-SMA-0.6	SS2457	2005	SS	2005		UF	8	4	4			8	4	4			4						4	4	3	4	4
A-SMA-1	E2737	2005	ISCO	2005		F	2						2														
A-SMA-1	E2737	2005	ISCO	2005		UF	2	1	2			2	2	2													
A-SMA-2	E2738	2005	ISCO	2005			0																				
A-SMA-3	E2739	2005	ISCO	2005		F	1						1														
A-SMA-3	E2739	2005	ISCO	2005		UF	1		1			1	1	1													
ACID-SMA-2	E055.5	2004	Gage	2004		F	1						1														
ACID-SMA-2	E055.5	2004	Gage	2004		UF	1	1	1	1		1	1														
ACID-SMA-2	E055.5	2005	Gage	2004		F	4						4														
ACID-SMA-2	E055.5	2005	Gage	2004		UF	6					4	5	2					2				3	3	3	2	3
ACID-SMA-2	E056	2005	Gage	2005		F	3						3														
ACID-SMA-2	E056	2005	Gage	2005		UF	3					2	3										2	2	2		2
B-SMA-1	SS067	2004	SS	2004		F	5						5														
B-SMA-1	SS067	2004	SS	2004		UF	5	5	5	5		5	5	5													
B-SMA-1	SS067	2004	SS	2005		F	5						4														
B-SMA-1	SS067	2004	SS	2005		UF	5					5	4	5													
CDB-SMA-1	SS2185	2004	SS	2004		F	4						4														
CDB-SMA-1	SS2185	2004	SS	2004		UF	4	4	4	4		3	4	4					4		4		4	4	4	4	4
CDB-SMA-2	SS2188	2004	SS	2004		F	2						2														
CDB-SMA-2	SS2188	2004	SS	2004		UF	2	2	2	2		1	2	2					1				1	1	1	1	1
CDB-SMA-2	SS2188	2004	SS	2005		F	3						3														
CDB-SMA-2	SS2188	2004	SS	2005		UF	3	2	2			3	3	2					2				1	1	1	1	1
CDB-SMA-4	E227	2004	Gage	2004		F	1						1														
CDB-SMA-4	E227	2004	Gage	2004		UF	2	1	1	1		1	1	1					1		1					1	
CDB-SMA-4	E227	2004	Gage	2005		F	5						4														
CDB-SMA-4	E227	2004	Gage	2005		UF	6					6	4	3	3				3				2	2	2	3	2
CDV-SMA-1	SS254	2005	SS	2005		F	4						4														
CDV-SMA-1	SS254	2005	SS	2005		UF	4	4	4			4	4	4													
CDV-SMA-1.4	SS2542	2005	SS	2005		F	4						4														
CDV-SMA-1.4	SS2542	2005	SS	2005		UF	4	4	4			4	4	4													
CDV-SMA-1.5	SS2545	2005	ISCO	2005		F	4						4														
CDV-SMA-1.5	SS2545	2005	ISCO	2005		UF	5	4	4			5	4	4			4										
CDV-SMA-1.7	SS2547	2005	ISCO	2005		-	0																				

Table B1. FFCA Site Monitoring Area Samples Collected
Monitoring Years 200 - 2005

Station ID	Station Name	Monitoring Year Start	Station Type	Monitoring Year	Field QC Type	F/UF	Number of Samples	General Inorganics					Metals		Organics								Radionuclides				
								NH3-N	CN (Total)	CN (Amen)	ClO4	SSC	TAL Metals	Hg	DIOX/ FUR	DRO	HEXP	PAH	PCB	PEST	SVOA	VOA	Gross AB	Gamma Spec	Sr-90	H-3	Alpha Isotopes
T-SMA-1	E201.3	2004	Gage	2004		F	3						3														
T-SMA-1	E201.3	2004	Gage	2004		UF	6	2	2	1		5	3	3									1	1	1	2	1
T-SMA-1	E201.3	2004	Gage	2005		F	5						4														
T-SMA-1	E201.3	2004	Gage	2005		UF	7					7	4	4	3								2	2	2	4	2
T-SMA-3	SS20134	2004	SS	2004		F	5						5														
T-SMA-3	SS20134	2004	SS	2004		UF	5	5	5	5		5	5	5									5	5	5	5	5
T-SMA-3	SS20134	2004	SS	2005		F	4						4														
T-SMA-3	SS20134	2004	SS	2005		UF	4					4	4										4	4	4		4
T-SMA-4	SS20136	2004	SS	2004		F	3						3														
T-SMA-4	SS20136	2004	SS	2004		UF	3	3	3	3		3	3	3							2		3	3	3	3	3
T-SMA-4	SS20136	2004	SS	2005		F	2						2														
T-SMA-4	SS20136	2004	SS	2005		UF	2	1	1			2	1	1				2					1	1	1	1	1
T-SMA-5	SS20138	2004	SS	2004		F	2						2														
T-SMA-5	SS20138	2004	SS	2004		UF	3	2	2	2		3	2	1									2	2	2		2
T-SMA-5	SS20138	2004	SS	2005		F	2						2														
T-SMA-5	SS20138	2004	SS	2005		UF	2	2	2			2	2														
T-SMA-6	SS20140	2004	SS	2005		F	2						2														
T-SMA-6	SS20140	2004	SS	2005		UF	2	2	2			2	2	2					2				2	2	2	2	2
W-SMA-1	SS25203	2005	SS	2005		F	4						4														
W-SMA-1	SS25203	2005	SS	2005		UF	4	3	4			4	4	4			4										
W-SMA-2	SS25205	2005	ISCO	2005		F	4						4														
W-SMA-2	SS25205	2005	ISCO	2005		UF	5	4	4			5	4	4			4										
W-SMA-4	E252.8	2005	Gage	2005		F	2						2														
W-SMA-4	E252.8	2005	Gage	2005		UF	2					2	2	2			2										
W-SMA-5	SS2528	2005	ISCO	2005		F	5						4														
W-SMA-5	SS2528	2005	ISCO	2005		UF	5	4	3			5	4	4							4						
W-SMA-7	SS25243	2005	SS	2005		F	4						4														
W-SMA-7	SS25243	2005	SS	2005		UF	4	4	4			4	4	4			1										
W-SMA-8	SS2523	2005	ISCO	2005		F	4						4														
W-SMA-8	SS2523	2005	ISCO	2005		UF	4	4	3			4	4	4							4						
W-SMA-9	SS2524	2005	ISCO	2005		-	0																				
W-SMA-10	SS25245	2005	SS	2005		F	4						4														
W-SMA-10	SS25245	2005	SS	2005		UF	4	4	4			4	4	3			3										
W-SMA-11	SS2529	2005	SS	2005		F	4						4														
W-SMA-11	SS2529	2005	SS	2005		UF	4	4	4			4	4	3			3										

Table B2. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
2M-SMA-3	SS2439	2005	UF	METALS	Silver	1	1	1	5.9	5.9	5.9	4.1	ug/L
3M-SMA-0.5	SS2459	2005	UF	METALS	Arsenic	3	2	1	32.1	12.6	51.5	24.2	ug/L
3M-SMA-0.5	SS2459	2005	UF	METALS	Lead	3	3	1	110	10.7	244	126	ug/L
3M-SMA-0.5	SS2459	2005	UF	METALS	Vanadium	3	3	1	142	12	332	100	ug/L
3M-SMA-0.6	SS2457	2005	UF	METALS	Copper	4	4	1	819	279	2210	521	ug/L
3M-SMA-0.6	SS2457	2005	UF	METALS	Lead	4	4	3	451	107	1290	126	ug/L
ACID-SMA-2	E055.5	2005	UF	METALS	Lead	5	5	1	113	52.4	260	126	ug/L
ACID-SMA-2	E056	2005	UF	METALS	Lead	3	3	1	198	62.8	428	126	ug/L
ACID-SMA-2	E056	2005	UF	METALS	Vanadium	3	3	1	55	17.8	116	100	ug/L
B-SMA-1	SS067	2004	UF	METALS	Arsenic	5	4	2	23.0	10.7	34.9	24.2	ug/L
B-SMA-1	SS067	2004	UF	METALS	Lead	5	5	3	177	2.6	304	126	ug/L
B-SMA-1	SS067	2004	UF	METALS	Vanadium	5	4	3	128	60.6	190	100	ug/L
B-SMA-1	SS067	2005	UF	METALS	Arsenic	4	3	1	22.5	6.3	38.4	24.2	ug/L
B-SMA-1	SS067	2005	UF	METALS	Lead	4	4	2	116	8.1	238	126	ug/L
B-SMA-1	SS067	2005	UF	METALS	Vanadium	4	4	2	109	6.8	240	100	ug/L
CDB-SMA-2	SS2188	2004	UF	METALS	Silver	2	2	1	5.1	1.9	8.3	4.1	ug/L
CDB-SMA-4	E227	2004	UF	METALS	Vanadium	1	1	1	108	108	108	100	ug/L
CDB-SMA-4	E227	2005	UF	METALS	Vanadium	4	4	1	56	19.4	105	100	ug/L
CDB-SMA-4	E227	2005	UF	PEST/PCB	Aroclor-1254	3	1	1	0.25	0.25	0.25	0.0017	ug/L
CDV-SMA-1.4	SS2542	2005	UF	METALS	Silver	4	4	4	59.6	14	127	4.1	ug/L
CDV-SMA-1.5	SS2545	2005	UF	METALS	Arsenic	4	3	1	17.2	12.6	26.3	24.2	ug/L
CDV-SMA-1.5	SS2545	2005	UF	METALS	Vanadium	4	4	1	84	20.4	145	100	ug/L
CDV-SMA-2.4	SS2557	2005	UF	METALS	Vanadium	4	4	1	82	45.7	104	100	ug/L
DP-SMA-0.3	SS0375	2005	UF	METALS	Vanadium	4	4	1	50	5.5	112	100	ug/L
DP-SMA-1	SS0385	2004	UF	METALS	Mercury	3	2	1	0.52	0.091	0.94	0.77	ug/L
DP-SMA-1	SS0385	2005	UF	METALS	Vanadium	3	3	1	83	37.9	129	100	ug/L
DP-SMA-2	SS0387	2005	UF	METALS	Arsenic	4	4	1	18.3	10.4	34	24.2	ug/L
DP-SMA-2	SS0387	2005	UF	METALS	Lead	4	4	1	82	0.7	213	126	ug/L
DP-SMA-2	SS0387	2005	UF	METALS	Vanadium	4	4	1	106	54.8	230	100	ug/L
F-SMA-2	SS26757	2005	UF	METALS	Lead	1	1	1	174	174	174	126	ug/L
F-SMA-2	SS26757	2005	UF	METALS	Silver	1	1	1	4.9	4.9	4.9	4.1	ug/L
F-SMA-2	SS26757	2005	UF	METALS	Vanadium	1	1	1	114	114	114	100	ug/L
LA-SMA-1	SS0263	2005	UF	METALS	Arsenic	5	3	1	28.2	13.6	55.7	24.2	ug/L
LA-SMA-1	SS0263	2005	UF	METALS	Lead	5	5	3	480	57.5	1740	126	ug/L
LA-SMA-1	SS0263	2005	UF	METALS	Vanadium	5	5	2	105	26.2	299	100	ug/L
LA-SMA-1	SS0264	2004	UF	METALS	Arsenic	5	5	5	34.9	26.6	50.1	24.2	ug/L
LA-SMA-1	SS0264	2004	UF	METALS	Lead	5	5	5	275	173	540	126	ug/L

Table B2. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
LA-SMA-1	SS0264	2004	UF	METALS	Vanadium	5	5	5	251	172	398	100	ug/L
LA-SMA-1.2	SS02645	2005	UF	METALS	Lead	3	3	1	199	10.7	497	126	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	UF	METALS	Lead	8	8	1	73	15.6	189	126	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	UF	METALS	Vanadium	8	8	1	42	12.2	102	100	ug/L
LA-SMA-10	SS037	2005	UF	METALS	Lead	2	2	1	103	50.3	155	126	ug/L
LA-SMA-2	SS0265	2004	UF	PEST/PCB	Aroclor-1254	4	4	4	2.5	1.6	3.8	0.0017	ug/L
LA-SMA-2	SS0265	2005	UF	PEST/PCB	Aroclor-1254	4	3	3	6.4	4.8	7.6	0.0017	ug/L
LA-SMA-2	SS0265	2005	UF	PEST/PCB	Aroclor-1260	4	3	3	1.36	0.78	2	0.0017	ug/L
LA-SMA-3	SS0266	2005	UF	PEST/PCB	Aroclor-1254	2	1	1	0.076	0.076	0.076	0.0017	ug/L
LA-SMA-4	SS0267	2004	UF	METALS	Lead	4	4	2	135	50.2	265	126	ug/L
LA-SMA-4	SS0267	2005	UF	METALS	Arsenic	4	4	1	17.6	6.5	36	24.2	ug/L
LA-SMA-4	SS0267	2005	UF	METALS	Lead	4	4	1	174	66.9	413	126	ug/L
LA-SMA-4	SS0267	2005	UF	METALS	Thallium	4	3	1	3.57	1.5	7.5	6.3	ug/L
LA-SMA-4	SS0267	2005	UF	METALS	Vanadium	4	4	1	61	22.6	131	100	ug/L
LA-SMA-5	SS0268	2004	UF	METALS	Lead	1	1	1	329	329	329	126	ug/L
LA-SMA-5	SS0268	2004	UF	METALS	Mercury	1	1	1	1.7	1.7	1.7	0.77	ug/L
LA-SMA-5	SS0268	2004	UF	METALS	Vanadium	1	1	1	139	139	139	100	ug/L
LA-SMA-5	SS0268	2004	UF	PEST/PCB	Aroclor-1260	1	1	1	0.28	0.28	0.28	0.0017	ug/L
LA-SMA-5	SS0268	2005	UF	METALS	Lead	4	4	2	139	75.1	269	126	ug/L
LA-SMA-5	SS0268	2005	UF	METALS	Mercury	4	4	2	1.09	0.54	1.9	0.77	ug/L
LA-SMA-5	SS0268	2005	UF	METALS	Vanadium	4	4	1	76	45.3	117	100	ug/L
LA-SMA-5.2	SS026805	2005	UF	METALS	Lead	3	3	1	96	41.6	204	126	ug/L
LA-SMA-5.3	SS02681	2005	UF	METALS	Lead	4	4	1	98	9.4	192	126	ug/L
LA-SMA-5.5	SS02685	2005	UF	METALS	Arsenic	2	1	1	35.0	35	35	24.2	ug/L
LA-SMA-5.5	SS02685	2005	UF	METALS	Lead	2	2	1	310	125	495	126	ug/L
LA-SMA-5.5	SS02685	2005	UF	METALS	Mercury	2	2	1	1.15	0.4	1.9	0.77	ug/L
LA-SMA-5.5	SS02685	2005	UF	METALS	Vanadium	2	2	1	113	34	192	100	ug/L
LA-SMA-6	SS0269	2004	UF	METALS	Arsenic	2	2	1	22.6	17.7	27.4	24.2	ug/L
LA-SMA-6	SS0269	2004	UF	METALS	Lead	2	2	2	308	210	405	126	ug/L
LA-SMA-6	SS0269	2004	UF	PEST/PCB	Aroclor-1260	2	1	1	0.058	0.058	0.058	0.0017	ug/L
LA-SMA-6	SS0269	2005	UF	METALS	Lead	1	1	1	200	200	200	126	ug/L
LA-SMA-6.5	SS0287	2005	UF	METALS	Lead	1	1	1	159	159	159	126	ug/L
LA-SMA-6.5	SS0287	2005	UF	METALS	Mercury	1	1	1	1.8	1.8	1.8	0.77	ug/L
M-SMA-13	SS205	2004	UF	METALS	Lead	5	5	4	173	106	255	126	ug/L
M-SMA-2	SS1984	2004	UF	METALS	Vanadium	2	2	1	80	44.8	116	100	ug/L
M-SMA-4	SS1987	2004	UF	METALS	Lead	5	5	1	51	5.8	165	126	ug/L
M-SMA-8	E200	2005	UF	PEST/PCB	Aroclor-1254	4	1	1	0.22	0.22	0.22	0.0017	ug/L

Table B2. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
PJ-SMA-15	E248.5	2005	UF	PEST/PCB	Aroclor-1254	4	1	1	0.11	0.11	0.11	0.0017	ug/L
PJ-SMA-15	E248.5	2005	UF	PEST/PCB	Aroclor-1260	4	1	1	0.095	0.095	0.095	0.0017	ug/L
PJ-SMA-4	SS24253	2005	UF	METALS	Vanadium	4	4	1	57	18.5	121	100	ug/L
Pratt-SMA-1	SS20142	2004	UF	METALS	Arsenic	5	4	2	31.9	21.2	55.7	24.2	ug/L
Pratt-SMA-1	SS20142	2004	UF	METALS	Lead	5	5	1	112	11.5	262	126	ug/L
Pratt-SMA-1	SS20142	2004	UF	METALS	Vanadium	5	5	4	158	33.4	315	100	ug/L
Pratt-SMA-1	SS20142	2004	UF	PEST/PCB	Aroclor-1254	5	1	1	0.21	0.21	0.21	0.0017	ug/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Arsenic	4	4	2	71.6	15.3	151	24.2	ug/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Copper	4	4	1	274	44.5	653	521	ug/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Lead	4	4	2	288	41.1	667	126	ug/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Thallium	4	4	1	4.53	0.72	9.8	6.3	ug/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Vanadium	4	4	3	469	98	998	100	ug/L
P-SMA-2	SS057	2005	UF	METALS	Lead	1	1	1	133	133	133	126	ug/L
P-SMA-2	SS057	2005	UF	METALS	Silver	1	1	1	5.5	5.5	5.5	4.1	ug/L
P-SMA-2.2	SS0575	2005	UF	METALS	Arsenic	4	4	2	26.5	7.9	62.5	24.2	ug/L
P-SMA-2.2	SS0575	2005	UF	METALS	Lead	4	4	2	138	35.1	327	126	ug/L
P-SMA-2.2	SS0575	2005	UF	METALS	Mercury	4	3	1	0.96	0.23	2.4	0.77	ug/L
P-SMA-2.2	SS0575	2005	UF	METALS	Silver	4	4	1	2.6	0.49	6.9	4.1	ug/L
P-SMA-2.2	SS0575	2005	UF	METALS	Vanadium	4	4	2	119	37.3	277	100	ug/L
P-SMA-3	SS054	2005	UF	METALS	Lead	4	4	3	214	57.1	389	126	ug/L
P-SMA-3	SS054	2005	UF	METALS	Vanadium	4	4	1	84	36.8	117	100	ug/L
P-SMA-3	SS054	2005	UF	PEST/PCB	Aroclor-1254	4	2	2	0.45	0.15	0.74	0.0017	ug/L
P-SMA-3	SS054	2005	UF	PEST/PCB	Aroclor-1260	4	1	1	0.07	0.07	0.07	0.0017	ug/L
S-SMA-1	E122.2	2004	UF	METALS	Arsenic	7	7	1	17.1	3.2	35.7	24.2	ug/L
S-SMA-1	E122.2	2004	UF	METALS	Lead	7	7	2	81	26.7	137	126	ug/L
S-SMA-1	E122.2	2005	UF	METALS	Arsenic	4	4	2	38.6	15.2	82.8	24.2	ug/L
S-SMA-1	E122.2	2005	UF	METALS	Copper	4	4	1	317	154	632	521	ug/L
S-SMA-1	E122.2	2005	UF	METALS	Lead	4	4	1	140	76	284	126	ug/L
S-SMA-1	E122.2	2005	UF	METALS	Vanadium	4	4	4	213	104	402	100	ug/L
S-SMA-1	E122.2	2005	UF	PEST/PCB	Aroclor-1254	4	2	2	0.12	0.07	0.16	0.0017	ug/L
S-SMA-2	E121	2005	UF	PEST/PCB	Aroclor-1254	4	3	3	0.38	0.056	0.64	0.0017	ug/L
S-SMA-2	E121	2005	UF	PEST/PCB	Aroclor-1260	4	4	4	0.47	0.027	1.2	0.0017	ug/L
S-SMA-3	SS12292	2004	UF	METALS	Arsenic	2	2	1	40.4	18.6	62.2	24.2	ug/L
S-SMA-3	SS12292	2004	UF	METALS	Lead	2	2	1	187	87	286	126	ug/L
S-SMA-3	SS12292	2004	UF	METALS	Vanadium	2	2	1	141	76.7	205	100	ug/L
S-SMA-3.5	SS12293	2005	UF	METALS	Arsenic	4	4	1	19.8	15.3	31.8	24.2	ug/L
S-SMA-3.5	SS12293	2005	UF	METALS	Lead	4	4	1	103	55	169	126	ug/L

Table B2. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
S-SMA-3.5	SS12293	2005	UF	METALS	Vanadium	4	4	1	92	64.1	157	100	ug/L
S-SMA-3.5	SS12293	2005	UF	PEST/PCB	Aroclor-1254	3	2	2	0.08	0.058	0.1	0.0017	ug/L
S-SMA-3.9	SS1235	2005	UF	METALS	Arsenic	4	1	1	27.1	27.1	27.1	24.2	ug/L
S-SMA-3.9	SS1235	2005	UF	METALS	Lead	4	4	1	98	9.8	228	126	ug/L
S-SMA-5	SS1245	2004	UF	METALS	Lead	1	1	1	216	216	216	126	ug/L
S-SMA-5	SS1245	2004	UF	METALS	Silver	1	1	1	14	14	14	4.1	ug/L
S-SMA-5	SS1245	2004	UF	PEST/PCB	Aroclor-1260	1	1	1	0.21	0.21	0.21	0.0017	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Arsenic	1	1	1	166.0	166	166	24.2	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Chromium	1	1	1	4910	4910	4910	1163	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Copper	1	1	1	1010	1010	1010	521	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Lead	1	1	1	325	325	325	126	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Mercury	1	1	1	0.93	0.93	0.93	0.77	ug/L
S-SMA-5	SS1245	2005	UF	METALS	Vanadium	1	1	1	756	756	756	100	ug/L
S-SMA-5	SS1245	2005	UF	PEST/PCB	Aroclor-1254	1	1	1	0.69	0.69	0.69	0.0017	ug/L
S-SMA-5	SS1245	2005	UF	PEST/PCB	Aroclor-1260	1	1	1	1.2	1.2	1.2	0.0017	ug/L
S-SMA-6	SS1248	2004	UF	METALS	Arsenic	1	1	1	28.9	28.9	28.9	24.2	ug/L
S-SMA-6	SS1248	2004	UF	METALS	Lead	1	1	1	1450	1450	1450	126	ug/L
S-SMA-6	SS1248	2004	UF	METALS	Mercury	2	2	2	1.7	1.6	1.8	0.77	ug/L
S-SMA-6	SS1248	2004	UF	METALS	Silver	1	1	1	18.3	18.3	18.3	4.1	ug/L
S-SMA-6	SS1248	2005	UF	PEST/PCB	Aroclor-1254	1	1	1	0.34	0.34	0.34	0.0017	ug/L
S-SMA-6	SS1248	2005	UF	PEST/PCB	Aroclor-1260	1	1	1	0.7	0.7	0.7	0.0017	ug/L
T-SMA-3	SS20134	2004	UF	METALS	Silver	5	5	1	2.7	1.5	4.3	4.1	ug/L
T-SMA-6	SS20140	2005	UF	METALS	Vanadium	2	2	1	121	91.7	151	100	ug/L
T-SMA-6	SS20140	2005	UF	PEST/PCB	Aroclor-1260	2	2	2	0.19	0.16	0.21	0.0017	ug/L
W-SMA-4	E261	2005	UF	METALS	Arsenic	2	1	1	37.8	37.8	37.8	24.2	ug/L
W-SMA-4	E261	2005	UF	METALS	Lead	2	2	1	84	13.7	154	126	ug/L
W-SMA-4	E261	2005	UF	METALS	Vanadium	2	2	1	100	15.8	185	100	ug/L
W-SMA-5	SS2528	2005	UF	SVOA	Benzo(a)pyrene	4	3	3	0.90	0.59	1.1	0.49	ug/L
W-SMA-8	SS2523	2005	UF	METALS	Lead	4	4	1	66	3.1	161	126	ug/L
W-SMA-8	SS2523	2005	UF	SVOA	Benzo(a)pyrene	3	2	1	0.62	0.25	0.99	0.49	ug/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
2M-SMA-1	SS2432	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	102	51.5	130	120	mg/L
2M-SMA-1	SS2432	2005	UF	GENINORG	Magnesium	4	4	4	2.24	0.697	5.84	0.0636	mg/L
2M-SMA-1	SS2432	2005	UF	METALS	Aluminum	4	4	1	10165	1850	34300	5000	ug/L
2M-SMA-2	E2435	2005	UF	GENINORG	Magnesium	4	4	4	1.12	0.652	2.01	0.0636	mg/L
2M-SMA-3	SS2439	2005	UF	GENINORG	Chemical Oxygen Demand	1	1	1	168	168	168	120	mg/L
2M-SMA-3	SS2439	2005	UF	GENINORG	Magnesium	1	1	1	4.57	4.57	4.57	0.0636	mg/L
2M-SMA-3	SS2439	2005	UF	METALS	Aluminum	1	1	1	18900	18900	18900	5000	ug/L
3M-SMA-0.5	SS2459	2005	UF	GENINORG	Magnesium	3	3	3	17.96	2.37	41.3	0.0636	mg/L
3M-SMA-0.5	SS2459	2005	UF	METALS	Aluminum	3	3	3	99267	10800	222000	5000	ug/L
3M-SMA-0.6	SS2457	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	4	173	143	194	120	mg/L
3M-SMA-0.6	SS2457	2005	UF	GENINORG	Magnesium	4	4	4	4.91	2.1	11.8	0.0636	mg/L
3M-SMA-0.6	SS2457	2005	UF	METALS	Aluminum	4	4	4	29325	10300	82300	5000	ug/L
ACID-SMA-2	E055.5	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	161	161	161	120	mg/L
ACID-SMA-2	E055.5	2004	UF	GENINORG	Magnesium	1	1	1	5.84	5.84	5.84	0.0636	mg/L
ACID-SMA-2	E055.5	2004	UF	METALS	Aluminum	1	1	1	34200	34200	34200	5000	ug/L
ACID-SMA-2	E055.5	2005	UF	GENINORG	Magnesium	5	5	5	6.45	2.98	13.6	0.0636	mg/L
ACID-SMA-2	E055.5	2005	UF	METALS	Aluminum	5	5	5	35780	19300	64300	5000	ug/L
ACID-SMA-2	E056	2005	UF	GENINORG	Magnesium	3	3	3	5.90	2.19	12	0.0636	mg/L
ACID-SMA-2	E056	2005	UF	METALS	Aluminum	3	3	3	33900	11200	68600	5000	ug/L
A-SMA-1	E2737	2005	UF	GENINORG	Magnesium	2	2	2	0.79	0.652	0.924	0.0636	mg/L
A-SMA-3	E2739	2005	UF	GENINORG	Magnesium	1	1	1	10.00	10	10	0.0636	mg/L
A-SMA-3	E2739	2005	UF	METALS	Aluminum	1	1	1	46300	46300	46300	5000	ug/L
B-SMA-1	SS067	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	4	657	92.2	2020	120	mg/L
B-SMA-1	SS067	2004	UF	GENINORG	Magnesium	5	5	5	12.79	0.783	23.9	0.0636	mg/L
B-SMA-1	SS067	2004	UF	METALS	Aluminum	5	5	4	75210	2250	140000	5000	ug/L
B-SMA-1	SS067	2005	UF	GENINORG	Magnesium	4	4	4	13.29	1.64	28	0.0636	mg/L
B-SMA-1	SS067	2005	UF	METALS	Aluminum	4	4	4	77158	6430	163000	5000	ug/L
CDB-SMA-1	SS2185	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	2	108	55.4	161	120	mg/L
CDB-SMA-1	SS2185	2004	UF	GENINORG	Magnesium	4	4	4	4.14	3.04	5.14	0.0636	mg/L
CDB-SMA-1	SS2185	2004	UF	METALS	Aluminum	4	4	4	23200	17300	27900	5000	ug/L
CDB-SMA-2	SS2188	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	1	90	49.7	131	120	mg/L
CDB-SMA-2	SS2188	2004	UF	GENINORG	Magnesium	2	2	2	3.23	2.73	3.73	0.0636	mg/L
CDB-SMA-2	SS2188	2004	UF	METALS	Aluminum	2	2	2	18300	10400	26200	5000	ug/L
CDB-SMA-2	SS2188	2005	UF	GENINORG	Magnesium	3	3	3	1.05	0.923	1.28	0.0636	mg/L
CDB-SMA-4	E227	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	160	160	160	120	mg/L
CDB-SMA-4	E227	2004	UF	GENINORG	Magnesium	1	1	1	27.80	27.8	27.8	0.0636	mg/L
CDB-SMA-4	E227	2004	UF	METALS	Aluminum	1	1	1	79300	79300	79300	5000	ug/L
CDB-SMA-4	E227	2005	UF	GENINORG	Magnesium	4	4	4	15.71	6.92	25.4	0.0636	mg/L
CDB-SMA-4	E227	2005	UF	METALS	Aluminum	4	4	4	38280	8920	74200	5000	ug/L
CDV-SMA-1	SS254	2005	UF	GENINORG	Magnesium	4	4	4	2.42	0.845	3.48	0.0636	mg/L
CDV-SMA-1	SS254	2005	UF	METALS	Aluminum	4	4	3	13870	3090	22800	5000	ug/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
CDV-SMA-1.4	SS2542	2005	UF	GENINORG	Magnesium	4	4	4	1.87	1.55	2.38	0.0636	mg/L
CDV-SMA-1.4	SS2542	2005	UF	METALS	Aluminum	4	4	4	11675	7300	18300	5000	ug/L
CDV-SMA-1.5	SS2545	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	4	325	212	568	120	mg/L
CDV-SMA-1.5	SS2545	2005	UF	GENINORG	Magnesium	4	4	4	10.16	3.25	15.7	0.0636	mg/L
CDV-SMA-1.5	SS2545	2005	UF	METALS	Aluminum	4	4	4	77150	20100	124000	5000	ug/L
CDV-SMA-2	SS255	2005	UF	GENINORG	Magnesium	1	1	1	5.42	5.42	5.42	0.0636	mg/L
CDV-SMA-2	SS255	2005	UF	METALS	Aluminum	1	1	1	45000	45000	45000	5000	ug/L
CDV-SMA-2.4	SS2557	2005	UF	GENINORG	Magnesium	4	4	4	12.69	6.54	19.9	0.0636	mg/L
CDV-SMA-2.4	SS2557	2005	UF	METALS	Aluminum	4	4	4	54318	8570	94300	5000	ug/L
DP-SMA-0.3	SS0375	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	136	87.6	228	120	mg/L
DP-SMA-0.3	SS0375	2005	UF	GENINORG	Magnesium	4	4	4	6.52	1.13	13	0.0636	mg/L
DP-SMA-0.3	SS0375	2005	UF	METALS	Aluminum	4	4	3	34693	3270	77800	5000	ug/L
DP-SMA-0.9	SS0388	2005	UF	GENINORG	Magnesium	4	4	4	3.14	1.03	8.2	0.0636	mg/L
DP-SMA-0.9	SS0388	2005	UF	METALS	Aluminum	4	4	2	11815	3940	32500	5000	ug/L
DP-SMA-1	SS0385	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	1	123	57.5	277	120	mg/L
DP-SMA-1	SS0385	2004	UF	GENINORG	Magnesium	4	4	4	27.13	11.3	45.4	0.0636	mg/L
DP-SMA-1	SS0385	2005	UF	GENINORG	Magnesium	3	3	3	16.81	7.44	24.1	0.0636	mg/L
DP-SMA-1	SS0385	2005	UF	METALS	Aluminum	3	3	3	80300	39500	121000	5000	ug/L
DP-SMA-2	SS0387	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	4	172	126	269	120	mg/L
DP-SMA-2	SS0387	2005	UF	GENINORG	Magnesium	4	4	4	17.63	10	36	0.0636	mg/L
DP-SMA-2	SS0387	2005	UF	METALS	Aluminum	4	4	4	80250	48000	160000	5000	ug/L
F-SMA-2	SS26757	2005	UF	GENINORG	Magnesium	1	1	1	18.80	18.8	18.8	0.0636	mg/L
F-SMA-2	SS26757	2005	UF	METALS	Aluminum	1	1	1	96600	96600	96600	5000	ug/L
LA-SMA-1	SS0263	2005	UF	GENINORG	Magnesium	5	5	5	14.41	3.84	41.6	0.0636	mg/L
LA-SMA-1	SS0263	2005	UF	METALS	Aluminum	5	5	5	57960	16600	147000	5000	ug/L
LA-SMA-1	SS0264	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	5	792	235	1630	120	mg/L
LA-SMA-1	SS0264	2004	UF	GENINORG	Magnesium	5	5	5	31.30	22.5	55.9	0.0636	mg/L
LA-SMA-1	SS0264	2004	UF	METALS	Aluminum	5	5	5	151640	97200	253000	5000	ug/L
LA-SMA-1	SS0264	2005	UF	GENINORG	Chemical Oxygen Demand	2	2	1	150	117	183	120	mg/L
LA-SMA-1	SS0264	2005	UF	GENINORG	Magnesium	3	3	3	5.66	3.16	7.28	0.0636	mg/L
LA-SMA-1	SS0264	2005	UF	METALS	Aluminum	3	3	3	24100	11000	35600	5000	ug/L
LA-SMA-1.2	SS02645	2005	UF	GENINORG	Chemical Oxygen Demand	3	3	1	140	90.8	213	120	mg/L
LA-SMA-1.2	SS02645	2005	UF	GENINORG	Magnesium	3	3	3	6.04	1.97	12.5	0.0636	mg/L
LA-SMA-1.2	SS02645	2005	UF	METALS	Aluminum	3	3	2	25413	3140	58000	5000	ug/L
LA-SMA-1.5(N)	SS02653(N)	2005	UF	GENINORG	Chemical Oxygen Demand	2	2	2	497	437	556	120	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	UF	GENINORG	Magnesium	3	3	3	4.57	2.86	6.28	0.0636	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	UF	METALS	Aluminum	3	3	3	14623	6870	25200	5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	UF	GENINORG	Chemical Oxygen Demand	8	8	8	302	140	695	120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	UF	GENINORG	Magnesium	8	8	8	7.22	2.82	16.1	0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	UF	METALS	Aluminum	8	8	8	39138	10100	97100	5000	ug/L
LA-SMA-10	SS037	2004	UF	GENINORG	Magnesium	1	1	1	3.33	3.33	3.33	0.0636	mg/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
LA-SMA-10	SS037	2005	UF	GENINORG	Magnesium	2	2	2	5.71	4.64	6.77	0.0636	mg/L
LA-SMA-10	SS037	2005	UF	METALS	Aluminum	2	2	2	29950	25100	34800	5000	ug/L
LA-SMA-2	SS0265	2004	UF	GENINORG	Magnesium	4	4	4	1.95	1.14	2.97	0.0636	mg/L
LA-SMA-2	SS0265	2004	UF	METALS	Aluminum	4	4	2	8295	4170	12400	5000	ug/L
LA-SMA-3	SS0266	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	146	124	160	120	mg/L
LA-SMA-3	SS0266	2004	UF	GENINORG	Magnesium	4	4	4	2.82	1.75	4.93	0.0636	mg/L
LA-SMA-3	SS0266	2004	UF	METALS	Aluminum	4	4	4	12013	6080	23300	5000	ug/L
LA-SMA-4	SS0267	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	345	142	485	120	mg/L
LA-SMA-4	SS0267	2004	UF	GENINORG	Magnesium	4	4	4	7.53	4.05	12.3	0.0636	mg/L
LA-SMA-4	SS0267	2004	UF	METALS	Aluminum	4	4	4	48950	27300	79300	5000	ug/L
LA-SMA-4	SS0267	2005	UF	GENINORG	Magnesium	4	4	4	9.35	3.72	19.6	0.0636	mg/L
LA-SMA-4	SS0267	2005	UF	METALS	Aluminum	4	4	4	68350	25500	146000	5000	ug/L
LA-SMA-5	SS0268	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	510	510	510	120	mg/L
LA-SMA-5	SS0268	2004	UF	GENINORG	Magnesium	1	1	1	16.40	16.4	16.4	0.0636	mg/L
LA-SMA-5	SS0268	2004	UF	METALS	Aluminum	1	1	1	80800	80800	80800	5000	ug/L
LA-SMA-5	SS0268	2005	UF	GENINORG	Chemical Oxygen Demand	3	3	2	195	114	331	120	mg/L
LA-SMA-5	SS0268	2005	UF	GENINORG	Magnesium	4	4	4	10.13	7.07	14.3	0.0636	mg/L
LA-SMA-5	SS0268	2005	UF	METALS	Aluminum	4	4	4	52450	33600	73100	5000	ug/L
LA-SMA-5.2	SS026805	2005	UF	GENINORG	Chemical Oxygen Demand	3	3	2	139	49.5	233	120	mg/L
LA-SMA-5.2	SS026805	2005	UF	GENINORG	Magnesium	3	3	3	7.35	4.65	10.8	0.0636	mg/L
LA-SMA-5.2	SS026805	2005	UF	METALS	Aluminum	3	3	3	37400	19500	71400	5000	ug/L
LA-SMA-5.3	SS02681	2005	UF	GENINORG	Chemical Oxygen Demand	3	2	1	264	101	426	120	mg/L
LA-SMA-5.3	SS02681	2005	UF	GENINORG	Magnesium	4	4	4	6.45	2.56	11.2	0.0636	mg/L
LA-SMA-5.3	SS02681	2005	UF	METALS	Aluminum	4	4	4	23455	9320	43200	5000	ug/L
LA-SMA-5.4	SS02683	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	4	270	167	393	120	mg/L
LA-SMA-5.4	SS02683	2005	UF	GENINORG	Magnesium	4	4	4	8.97	3.39	14.6	0.0636	mg/L
LA-SMA-5.4	SS02683	2005	UF	METALS	Aluminum	4	4	2	16948	3290	46100	5000	ug/L
LA-SMA-5.5	SS02685	2005	UF	GENINORG	Chemical Oxygen Demand	2	2	2	189	156	222	120	mg/L
LA-SMA-5.5	SS02685	2005	UF	GENINORG	Magnesium	2	2	2	16.93	5.76	28.1	0.0636	mg/L
LA-SMA-5.5	SS02685	2005	UF	METALS	Aluminum	2	2	2	89550	19100	160000	5000	ug/L
LA-SMA-6	SS0269	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	652	652	652	120	mg/L
LA-SMA-6	SS0269	2004	UF	GENINORG	Magnesium	2	2	2	13.10	10.7	15.5	0.0636	mg/L
LA-SMA-6	SS0269	2004	UF	METALS	Aluminum	2	2	2	80900	57800	104000	5000	ug/L
LA-SMA-6	SS0269	2005	UF	GENINORG	Chemical Oxygen Demand	1	1	1	140	140	140	120	mg/L
LA-SMA-6	SS0269	2005	UF	GENINORG	Magnesium	1	1	1	8.37	8.37	8.37	0.0636	mg/L
LA-SMA-6	SS0269	2005	UF	METALS	Aluminum	1	1	1	43900	43900	43900	5000	ug/L
LA-SMA-6.3	SS028	2005	UF	GENINORG	Magnesium	1	1	1	2.19	2.19	2.19	0.0636	mg/L
LA-SMA-6.5	SS0287	2005	UF	GENINORG	Chemical Oxygen Demand	1	1	1	194	194	194	120	mg/L
LA-SMA-6.5	SS0287	2005	UF	GENINORG	Magnesium	1	1	1	5.79	5.79	5.79	0.0636	mg/L
LA-SMA-6.5	SS0287	2005	UF	METALS	Aluminum	1	1	1	30100	30100	30100	5000	ug/L
LA-SMA-7	SS0290	2004	UF	GENINORG	Magnesium	1	1	1	2.10	2.1	2.1	0.0636	mg/L

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Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
LA-SMA-7	SS0290	2004	UF	METALS	Aluminum	1	1	1	8220	8220	8220	5000	ug/L
M-SMA-1	SS198	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	1	138	117	179	120	mg/L
M-SMA-1	SS198	2004	UF	GENINORG	Magnesium	4	4	4	2.37	1.73	3.65	0.0636	mg/L
M-SMA-1	SS198	2004	UF	METALS	Aluminum	4	4	3	9355	4070	18900	5000	ug/L
M-SMA-10	SS2002	2005	UF	GENINORG	Magnesium	1	1	1	4.02	4.02	4.02	0.0636	mg/L
M-SMA-10	SS2002	2005	UF	METALS	Aluminum	1	1	1	11900	11900	11900	5000	ug/L
M-SMA-11	SS2003	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	4	175	77.3	253	120	mg/L
M-SMA-11	SS2003	2004	UF	GENINORG	Magnesium	5	5	5	1.51	0.375	2.32	0.0636	mg/L
M-SMA-11	SS2003	2004	UF	METALS	Aluminum	5	5	3	10029	917	15900	5000	ug/L
M-SMA-12	SS2004	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	124	124	124	120	mg/L
M-SMA-12	SS2004	2004	UF	GENINORG	Magnesium	1	1	1	2.73	2.73	2.73	0.0636	mg/L
M-SMA-12	SS2004	2004	UF	METALS	Aluminum	1	1	1	15200	15200	15200	5000	ug/L
M-SMA-12	SS2004	2005	UF	GENINORG	Magnesium	3	3	3	2.10	1.67	2.6	0.0636	mg/L
M-SMA-12	SS2004	2005	UF	METALS	Aluminum	3	3	3	8727	7380	10800	5000	ug/L
M-SMA-13	SS205	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	3	788	62.2	2670	120	mg/L
M-SMA-13	SS205	2004	UF	GENINORG	Magnesium	5	5	5	14.32	11.1	18.1	0.0636	mg/L
M-SMA-13	SS205	2005	UF	GENINORG	Magnesium	3	3	3	5.74	0.947	8.82	0.0636	mg/L
M-SMA-13	SS205	2005	UF	METALS	Aluminum	3	3	2	34570	2210	50800	5000	ug/L
M-SMA-2	SS1984	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	1	80	37.2	123	120	mg/L
M-SMA-2	SS1984	2004	UF	GENINORG	Magnesium	2	2	2	9.98	5.75	14.2	0.0636	mg/L
M-SMA-2	SS1984	2004	UF	METALS	Aluminum	2	2	2	62050	37100	87000	5000	ug/L
M-SMA-2	SS1984	2005	UF	GENINORG	Chemical Oxygen Demand	2	2	1	137	103	171	120	mg/L
M-SMA-2	SS1984	2005	UF	GENINORG	Magnesium	4	4	4	7.28	4.35	10.9	0.0636	mg/L
M-SMA-2	SS1984	2005	UF	METALS	Aluminum	4	4	4	50100	25900	73100	5000	ug/L
M-SMA-3	SS1985	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	2	226	9.68	508	120	mg/L
M-SMA-3	SS1985	2004	UF	GENINORG	Magnesium	3	3	3	5.68	3.82	6.91	0.0636	mg/L
M-SMA-3	SS1985	2004	UF	METALS	Aluminum	3	3	3	32533	22600	40400	5000	ug/L
M-SMA-3	SS1985	2005	UF	GENINORG	Magnesium	1	1	1	1.40	1.4	1.4	0.0636	mg/L
M-SMA-4	SS1987	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	1	129	28.3	430	120	mg/L
M-SMA-4	SS1987	2004	UF	GENINORG	Magnesium	5	5	5	3.88	1.78	10.2	0.0636	mg/L
M-SMA-4	SS1987	2004	UF	METALS	Aluminum	5	5	4	18090	4710	56400	5000	ug/L
M-SMA-4	SS1987	2005	UF	GENINORG	Magnesium	4	4	4	2.76	1.08	4.87	0.0636	mg/L
M-SMA-4	SS1987	2005	UF	METALS	Aluminum	4	4	2	12832	306	31100	5000	ug/L
M-SMA-5	SS199	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	274	127	429	120	mg/L
M-SMA-5	SS199	2004	UF	GENINORG	Magnesium	4	4	4	5.70	1.91	8.24	0.0636	mg/L
M-SMA-5	SS199	2004	UF	METALS	Aluminum	4	4	4	34550	12600	46600	5000	ug/L
M-SMA-6	SS1991	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	4	255	134	408	120	mg/L
M-SMA-6	SS1991	2004	UF	GENINORG	Magnesium	4	4	4	5.03	1.62	9.02	0.0636	mg/L
M-SMA-6	SS1991	2004	UF	METALS	Aluminum	4	4	4	27173	7690	46900	5000	ug/L
M-SMA-8	E200	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	2	144	22	245	120	mg/L
M-SMA-8	E200	2004	UF	GENINORG	Magnesium	4	4	4	4.77	2.76	7.14	0.0636	mg/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
M-SMA-8	E200	2004	UF	METALS	Aluminum	4	4	4	25300	13300	42300	5000	ug/L
M-SMA-8	E200	2005	UF	GENINORG	Magnesium	4	4	4	6.82	5.21	7.82	0.0636	mg/L
M-SMA-8	E200	2005	UF	METALS	Aluminum	4	4	4	36875	19500	46400	5000	ug/L
M-SMA-9	SS2001	2004	UF	GENINORG	Chemical Oxygen Demand	4	4	2	127	67.3	184	120	mg/L
M-SMA-9	SS2001	2004	UF	GENINORG	Magnesium	4	4	4	4.16	2.02	9.95	0.0636	mg/L
M-SMA-9	SS2001	2004	UF	METALS	Aluminum	4	4	4	23475	11700	57400	5000	ug/L
PJ-SMA-1	SS2405	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	151	73.1	282	120	mg/L
PJ-SMA-1	SS2405	2005	UF	GENINORG	Magnesium	4	4	4	1.92	1.25	3.67	0.0636	mg/L
PJ-SMA-1	SS2405	2005	UF	METALS	Aluminum	4	4	2	5798	1250	13400	5000	ug/L
PJ-SMA-15	E248.5	2004	UF	GENINORG	Magnesium	3	3	3	3.69	2.37	4.93	0.0636	mg/L
PJ-SMA-15	E248.5	2004	UF	METALS	Aluminum	3	3	3	13880	9340	20600	5000	ug/L
PJ-SMA-15	E248.5	2005	UF	GENINORG	Magnesium	4	4	4	8.11	3.59	19.1	0.0636	mg/L
PJ-SMA-15	E248.5	2005	UF	METALS	Aluminum	4	4	4	15200	12500	19700	5000	ug/L
PJ-SMA-15	E249	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	387	387	387	120	mg/L
PJ-SMA-15	E249	2004	UF	GENINORG	Magnesium	1	1	1	2.84	2.84	2.84	0.0636	mg/L
PJ-SMA-15	E249	2004	UF	METALS	Aluminum	1	1	1	5150	5150	5150	5000	ug/L
PJ-SMA-15	E249.5	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	1	153	40.5	461	120	mg/L
PJ-SMA-15	E249.5	2004	UF	GENINORG	Magnesium	5	5	5	1.95	1.09	3.47	0.0636	mg/L
PJ-SMA-4	SS24253	2005	UF	GENINORG	Magnesium	4	4	4	8.15	3.4	15.9	0.0636	mg/L
PJ-SMA-4	SS24253	2005	UF	METALS	Aluminum	4	4	4	51175	14600	114000	5000	ug/L
PJ-SMA-7	SS24210	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	1	113	39.3	231	120	mg/L
PJ-SMA-7	SS24210	2005	UF	GENINORG	Magnesium	4	4	4	2.10	1.08	4.03	0.0636	mg/L
PJ-SMA-7	SS24210	2005	UF	METALS	Aluminum	4	4	3	10040	4990	21000	5000	ug/L
PJ-SMA-E250	E250	2005	UF	GENINORG	Magnesium	2	2	2	6.38	6.18	6.58	0.0636	mg/L
PJ-SMA-E250	E250	2005	UF	METALS	Aluminum	2	2	1	9128	955	17300	5000	ug/L
Pratt-SMA-1	SS20142	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	3	261	53.3	564	120	mg/L
Pratt-SMA-1	SS20142	2004	UF	GENINORG	Magnesium	5	5	5	25.85	5.16	57.6	0.0636	mg/L
Pratt-SMA-1	SS20142	2004	UF	METALS	Aluminum	5	5	5	126720	30300	277000	5000	ug/L
Pratt-SMA-1	SS20142	2005	UF	GENINORG	Magnesium	4	4	4	91.18	15	219	0.0636	mg/L
Pratt-SMA-1	SS20142	2005	UF	METALS	Aluminum	4	4	4	444100	92100	927000	5000	ug/L
P-SMA-2	SS057	2005	UF	GENINORG	Chemical Oxygen Demand	1	1	1	150	150	150	120	mg/L
P-SMA-2	SS057	2005	UF	GENINORG	Magnesium	1	1	1	8.09	8.09	8.09	0.0636	mg/L
P-SMA-2	SS057	2005	UF	METALS	Aluminum	1	1	1	45000	45000	45000	5000	ug/L
P-SMA-2.2	SS0575	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	3	211	62.1	343	120	mg/L
P-SMA-2.2	SS0575	2005	UF	GENINORG	Magnesium	4	4	4	15.42	5.51	33.9	0.0636	mg/L
P-SMA-2.2	SS0575	2005	UF	METALS	Aluminum	4	4	4	76150	30000	172000	5000	ug/L
P-SMA-3	SS054	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	4	219	161	256	120	mg/L
P-SMA-3	SS054	2005	UF	GENINORG	Magnesium	4	4	4	9.85	4.4	13.5	0.0636	mg/L
P-SMA-3	SS054	2005	UF	METALS	Aluminum	4	4	4	55400	24100	79300	5000	ug/L
R-SMA-1	SS00	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	116	60.2	194	120	mg/L
R-SMA-1	SS00	2005	UF	GENINORG	Magnesium	4	4	4	6.01	2.32	12.7	0.0636	mg/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
R-SMA-1	SS00	2005	UF	METALS	Aluminum	4	4	4	32145	7580	65800	5000	ug/L
S-SMA-1	E122.2	2004	UF	GENINORG	Chemical Oxygen Demand	7	7	5	205	79.4	503	120	mg/L
S-SMA-1	E122.2	2004	UF	GENINORG	Magnesium	7	7	7	20.77	5.92	45.2	0.0636	mg/L
S-SMA-1	E122.2	2005	UF	GENINORG	Magnesium	4	4	4	38.35	17	79.7	0.0636	mg/L
S-SMA-1	E122.2	2005	UF	METALS	Aluminum	4	4	4	106125	49300	194000	5000	ug/L
S-SMA-2	E121	2004	UF	GENINORG	Magnesium	5	5	5	4.26	2.9	6.72	0.0636	mg/L
S-SMA-2	E121	2004	UF	METALS	Aluminum	4	4	4	13445	6980	16900	5000	ug/L
S-SMA-2	E121	2005	UF	GENINORG	Magnesium	4	4	4	5.21	3.07	7.99	0.0636	mg/L
S-SMA-2	E121	2005	UF	METALS	Aluminum	4	4	3	24258	4730	47900	5000	ug/L
S-SMA-3	SS12292	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	248	248	248	120	mg/L
S-SMA-3	SS12292	2004	UF	GENINORG	Magnesium	2	2	2	20.00	11.5	28.5	0.0636	mg/L
S-SMA-3	SS12292	2004	UF	METALS	Aluminum	2	2	2	107900	65800	150000	5000	ug/L
S-SMA-3.5	SS12293	2005	UF	GENINORG	Chemical Oxygen Demand	3	3	3	154	140	164	120	mg/L
S-SMA-3.5	SS12293	2005	UF	GENINORG	Magnesium	4	4	4	13.80	10.5	22.3	0.0636	mg/L
S-SMA-3.5	SS12293	2005	UF	METALS	Aluminum	4	4	4	82825	48500	148000	5000	ug/L
S-SMA-3.9	SS1235	2005	UF	GENINORG	Magnesium	4	4	4	4.86	0.758	15	0.0636	mg/L
S-SMA-3.9	SS1235	2005	UF	METALS	Aluminum	4	4	3	14428	1080	40300	5000	ug/L
S-SMA-4	SS1238	2004	UF	GENINORG	Chemical Oxygen Demand	4	3	1	107	27.2	193	120	mg/L
S-SMA-4	SS1238	2004	UF	GENINORG	Magnesium	4	4	4	6.76	4.16	9.69	0.0636	mg/L
S-SMA-4	SS1238	2004	UF	METALS	Aluminum	4	4	4	23988	7350	40600	5000	ug/L
S-SMA-5	SS1245	2004	UF	GENINORG	Magnesium	1	1	1	13.40	13.4	13.4	0.0636	mg/L
S-SMA-5	SS1245	2004	UF	METALS	Aluminum	1	1	1	65900	65900	65900	5000	ug/L
S-SMA-5	SS1245	2005	UF	GENINORG	Chemical Oxygen Demand	1	1	1	298	298	298	120	mg/L
S-SMA-5	SS1245	2005	UF	GENINORG	Magnesium	1	1	1	126.00	126	126	0.0636	mg/L
S-SMA-5	SS1245	2005	UF	METALS	Aluminum	1	1	1	789000	789000	789000	5000	ug/L
S-SMA-6	SS1248	2004	UF	GENINORG	Chemical Oxygen Demand	1	1	1	2980	2980	2980	120	mg/L
S-SMA-6	SS1248	2004	UF	GENINORG	Magnesium	1	1	1	9.39	9.39	9.39	0.0636	mg/L
S-SMA-6	SS1248	2005	UF	GENINORG	Magnesium	1	1	1	12.10	12.1	12.1	0.0636	mg/L
S-SMA-6	SS1248	2005	UF	METALS	Aluminum	1	1	1	72900	72900	72900	5000	ug/L
T-SMA-1	E201.3	2004	UF	GENINORG	Chemical Oxygen Demand	2	1	1	171	171	171	120	mg/L
T-SMA-1	E201.3	2004	UF	GENINORG	Magnesium	4	4	4	3.09	0.744	9.85	0.0636	mg/L
T-SMA-1	E201.3	2004	UF	METALS	Aluminum	3	3	1	23203	1370	65100	5000	ug/L
T-SMA-1	E201.3	2005	UF	GENINORG	Magnesium	4	4	4	3.66	2.2	6.53	0.0636	mg/L
T-SMA-1	E201.3	2005	UF	METALS	Aluminum	4	4	4	23325	13600	43100	5000	ug/L
T-SMA-2	SS20132	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	2	131	48.2	253	120	mg/L
T-SMA-2	SS20132	2004	UF	GENINORG	Magnesium	5	5	5	2.27	0.941	4.03	0.0636	mg/L
T-SMA-3	SS20134	2004	UF	GENINORG	Chemical Oxygen Demand	5	5	4	175	79.2	336	120	mg/L
T-SMA-3	SS20134	2004	UF	GENINORG	Magnesium	5	5	5	4.53	2.68	6.59	0.0636	mg/L
T-SMA-3	SS20134	2004	UF	METALS	Aluminum	5	5	5	24120	12600	39400	5000	ug/L
T-SMA-3	SS20134	2005	UF	GENINORG	Magnesium	4	4	4	4.62	1.42	8.98	0.0636	mg/L
T-SMA-3	SS20134	2005	UF	METALS	Aluminum	4	4	2	19470	1740	51500	5000	ug/L

Table B3. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
T-SMA-4	SS20136	2004	UF	GENINORG	Chemical Oxygen Demand	3	3	1	79	20.7	158	120	mg/L
T-SMA-4	SS20136	2004	UF	GENINORG	Magnesium	3	3	3	2.41	2.16	2.76	0.0636	mg/L
T-SMA-4	SS20136	2004	UF	METALS	Aluminum	3	3	3	13167	11200	15600	5000	ug/L
T-SMA-4	SS20136	2005	UF	GENINORG	Magnesium	1	1	1	2.00	2	2	0.0636	mg/L
T-SMA-4	SS20136	2005	UF	METALS	Aluminum	1	1	1	8700	8700	8700	5000	ug/L
T-SMA-5	SS20138	2004	UF	GENINORG	Chemical Oxygen Demand	2	2	2	415	296	533	120	mg/L
T-SMA-5	SS20138	2004	UF	GENINORG	Magnesium	2	2	2	7.47	6.32	8.61	0.0636	mg/L
T-SMA-5	SS20138	2004	UF	METALS	Aluminum	2	2	2	43450	35500	51400	5000	ug/L
T-SMA-5	SS20138	2005	UF	GENINORG	Magnesium	2	2	2	3.22	1.86	4.57	0.0636	mg/L
T-SMA-5	SS20138	2005	UF	METALS	Aluminum	2	2	2	19600	10900	28300	5000	ug/L
T-SMA-6	SS20140	2005	UF	GENINORG	Chemical Oxygen Demand	2	2	1	117	86	148	120	mg/L
T-SMA-6	SS20140	2005	UF	GENINORG	Magnesium	2	2	2	18.15	12.8	23.5	0.0636	mg/L
T-SMA-6	SS20140	2005	UF	METALS	Aluminum	2	2	2	116000	77000	155000	5000	ug/L
W-SMA-1	SS25203	2005	UF	GENINORG	Magnesium	4	4	4	3.10	1.26	5.26	0.0636	mg/L
W-SMA-1	SS25203	2005	UF	METALS	Aluminum	4	4	3	18695	3980	33000	5000	ug/L
W-SMA-10	SS25245	2005	UF	GENINORG	Chemical Oxygen Demand	4	3	1	101	55.4	132	120	mg/L
W-SMA-10	SS25245	2005	UF	GENINORG	Magnesium	4	4	4	3.97	1.86	6.41	0.0636	mg/L
W-SMA-10	SS25245	2005	UF	METALS	Aluminum	4	4	4	28275	11600	48400	5000	ug/L
W-SMA-11	SS2529	2005	UF	GENINORG	Magnesium	4	4	4	5.07	1.85	9.23	0.0636	mg/L
W-SMA-11	SS2529	2005	UF	METALS	Aluminum	4	4	4	32788	8250	63100	5000	ug/L
W-SMA-2	SS25205	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	125	59.2	197	120	mg/L
W-SMA-2	SS25205	2005	UF	GENINORG	Magnesium	4	4	4	5.89	3.53	7.79	0.0636	mg/L
W-SMA-2	SS25205	2005	UF	METALS	Aluminum	4	4	4	36025	23500	48200	5000	ug/L
W-SMA-4	E261	2005	UF	GENINORG	Magnesium	2	2	2	14.01	3.32	24.7	0.0636	mg/L
W-SMA-4	E261	2005	UF	METALS	Aluminum	2	2	2	85000	15000	155000	5000	ug/L
W-SMA-5	SS2528	2005	UF	GENINORG	Magnesium	4	4	4	0.64	0.372	0.863	0.0636	mg/L
W-SMA-7	SS25243	2005	UF	GENINORG	Chemical Oxygen Demand	4	4	2	151	84.4	296	120	mg/L
W-SMA-7	SS25243	2005	UF	GENINORG	Magnesium	4	4	4	5.26	1.57	10.8	0.0636	mg/L
W-SMA-7	SS25243	2005	UF	METALS	Aluminum	4	4	4	32435	6640	71000	5000	ug/L
W-SMA-8	SS2523	2005	UF	GENINORG	Chemical Oxygen Demand	4	3	2	161	61.8	301	120	mg/L
W-SMA-8	SS2523	2005	UF	GENINORG	Magnesium	4	4	4	4.32	2.33	7.32	0.0636	mg/L
W-SMA-8	SS2523	2005	UF	METALS	Aluminum	4	4	3	21615	2560	48100	5000	ug/L

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Table B4. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Gross Alpha

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
2M-SMA-1	SS2432	2005	UF	RAD	Gross alpha	4	3	1	16	7.63	30.7	15	pCi/L
3M-SMA-0.5	SS2459	2005	UF	RAD	Gross alpha	3	3	2	57	4.63	112	15	pCi/L
3M-SMA-0.6	SS2457	2005	UF	RAD	Gross alpha	4	4	3	384	12.3	987	15	pCi/L
ACID-SMA-2	E055.5	2005	UF	RAD	Gross alpha	3	3	3	53	36.1	79.9	15	pCi/L
ACID-SMA-2	E056	2005	UF	RAD	Gross alpha	2	2	2	124	95.4	153	15	pCi/L
CDB-SMA-1	SS2185	2004	UF	RAD	Gross alpha	4	4	3	27	8.73	38.2	15	pCi/L
CDB-SMA-2	SS2188	2004	UF	RAD	Gross alpha	1	1	1	79	78.7	78.7	15	pCi/L
CDB-SMA-4	E227	2005	UF	RAD	Gross alpha	2	2	2	69	31.2	106	15	pCi/L
CDV-SMA-2	SS255	2005	UF	RAD	Gross alpha	1	1	1	24	23.5	23.5	15	pCi/L
DP-SMA-0.3	SS0375	2005	UF	RAD	Gross alpha	4	4	3	38	15	64.5	15	pCi/L
DP-SMA-0.9	SS0388	2005	UF	RAD	Gross alpha	4	4	3	28	13.4	47.2	15	pCi/L
DP-SMA-1	SS0385	2004	UF	RAD	Gross alpha	2	2	2	163	128	197	15	pCi/L
DP-SMA-1	SS0385	2005	UF	RAD	Gross alpha	2	2	2	45	26.4	62.8	15	pCi/L
DP-SMA-2	SS0387	2005	UF	RAD	Gross alpha	4	4	4	113	41.2	296	15	pCi/L
LA-SMA-1	SS0263	2005	UF	RAD	Gross alpha	4	4	3	27	11.6	46.9	15	pCi/L
LA-SMA-1	SS0264	2004	UF	RAD	Gross alpha	5	5	5	175	26.5	312	15	pCi/L
LA-SMA-1	SS0264	2005	UF	RAD	Gross alpha	2	2	1	237	9.74	464	15	pCi/L
LA-SMA-1.2	SS02645	2005	UF	RAD	Gross alpha	2	2	2	200	118	281	15	pCi/L
LA-SMA-10	SS037	2005	UF	RAD	Gross alpha	1	1	1	81	81.3	81.3	15	pCi/L
LA-SMA-2	SS0265	2004	UF	RAD	Gross alpha	4	4	1	13	6.15	25.5	15	pCi/L
LA-SMA-3	SS0266	2004	UF	RAD	Gross alpha	4	4	1	21	8.15	56.4	15	pCi/L
LA-SMA-4	SS0267	2004	UF	RAD	Gross alpha	4	4	4	91	40.4	210	15	pCi/L
LA-SMA-4	SS0267	2005	UF	RAD	Gross alpha	3	3	3	92	29.8	172	15	pCi/L
LA-SMA-5	SS0268	2004	UF	RAD	Gross alpha	1	1	1	161	161	161	15	pCi/L
LA-SMA-5	SS0268	2005	UF	RAD	Gross alpha	4	4	4	48	17.7	67.4	15	pCi/L
LA-SMA-5.2	SS026805	2005	UF	RAD	Gross alpha	2	2	2	542	195	888	15	pCi/L
LA-SMA-5.3	SS02681	2005	UF	RAD	Gross alpha	3	3	3	47	26.1	82.8	15	pCi/L
LA-SMA-5.4	SS02683	2005	UF	RAD	Gross alpha	4	4	4	119	23.8	254	15	pCi/L
LA-SMA-5.5	SS02685	2005	UF	RAD	Gross alpha	2	2	2	58	55.7	61.2	15	pCi/L
LA-SMA-6	SS0269	2004	UF	RAD	Gross alpha	1	1	1	127	127	127	15	pCi/L
LA-SMA-6.3	SS028	2005	UF	RAD	Gross alpha	1	1	1	1640	1640	1640	15	pCi/L
LA-SMA-6.5	SS0287	2005	UF	RAD	Gross alpha	1	1	1	161	161	161	15	pCi/L
M-SMA-1	SS198	2004	UF	RAD	Gross alpha	3	3	1	14	3.28	25.2	15	pCi/L
M-SMA-11	SS2003	2004	UF	RAD	Gross alpha	4	4	4	72	26.2	141	15	pCi/L
M-SMA-11	SS2003	2005	UF	RAD	Gross alpha	4	4	3	22	9.57	33	15	pCi/L
M-SMA-13	SS205	2004	UF	RAD	Gross alpha	4	4	4	214	50.3	604	15	pCi/L

Table B4. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL
Summary for Gross Alpha

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	wSAL	Units
M-SMA-13	SS205	2005	UF	RAD	Gross alpha	1	1	1	2290	2290	2290	15	pCi/L
M-SMA-2	SS1984	2004	UF	RAD	Gross alpha	2	2	2	54	42.3	66	15	pCi/L
M-SMA-2	SS1984	2005	UF	RAD	Gross alpha	3	3	1	16	9.81	25	15	pCi/L
M-SMA-3	SS1985	2004	UF	RAD	Gross alpha	3	3	3	79	36.1	112	15	pCi/L
M-SMA-3	SS1985	2005	UF	RAD	Gross alpha	1	1	1	21	21.4	21.4	15	pCi/L
M-SMA-4	SS1987	2004	UF	RAD	Gross alpha	5	5	2	25	1	65	15	pCi/L
M-SMA-4	SS1987	2005	UF	RAD	Gross alpha	4	4	3	23	12.9	42	15	pCi/L
M-SMA-5	SS199	2004	UF	RAD	Gross alpha	2	2	2	220	202	237	15	pCi/L
M-SMA-5	SS199	2005	UF	RAD	Gross alpha	2	2	2	76	37.9	114	15	pCi/L
M-SMA-6	SS1991	2004	UF	RAD	Gross alpha	4	3	3	41	17.2	56	15	pCi/L
M-SMA-8	E200	2004	UF	RAD	Gross alpha	4	4	4	223	26.8	751	15	pCi/L
M-SMA-8	E200	2005	UF	RAD	Gross alpha	4	4	4	104	29.7	232	15	pCi/L
M-SMA-9	SS2001	2004	UF	RAD	Gross alpha	4	4	4	39	18	62.5	15	pCi/L
PJ-SMA-15	E248	2005	UF	RAD	Gross alpha	3	3	3	66	39.1	110	15	pCi/L
PJ-SMA-15	E248.5	2004	UF	RAD	Gross alpha	1	1	1	132	132	132	15	pCi/L
PJ-SMA-15	E248.5	2005	UF	RAD	Gross alpha	4	4	2	47	5.39	85.7	15	pCi/L
PJ-SMA-15	E249.5	2005	UF	RAD	Gross alpha	4	4	1	6	1.79	19.1	15	pCi/L
PJ-SMA-4	SS24253	2005	UF	RAD	Gross alpha	4	4	3	35	6.67	87.7	15	pCi/L
PJ-SMA-7	SS24210	2005	UF	RAD	Gross alpha	4	4	4	224	68.7	366	15	pCi/L
Pratt-SMA-1	SS20142	2004	UF	RAD	Gross alpha	5	5	5	103	58.9	142	15	pCi/L
Pratt-SMA-1	SS20142	2005	UF	RAD	Gross alpha	4	4	4	91	23.1	182	15	pCi/L
P-SMA-2.2	SS0575	2005	UF	RAD	Gross alpha	4	4	3	44	12.5	119	15	pCi/L
P-SMA-3	SS054	2005	UF	RAD	Gross alpha	4	4	3	53	4.58	132	15	pCi/L
S-SMA-2	E121	2004	UF	RAD	Gross alpha	3	3	2	21	5.79	32	15	pCi/L
S-SMA-2	E121	2005	UF	RAD	Gross alpha	4	4	3	19	11.3	26.6	15	pCi/L
S-SMA-3.5	SS12293	2005	UF	RAD	Gross alpha	3	3	3	121	56.9	201	15	pCi/L
S-SMA-4	SS1238	2004	UF	RAD	Gross alpha	4	4	3	57	6.26	144	15	pCi/L
S-SMA-4	SS1238	2005	UF	RAD	Gross alpha	4	4	3	34	5.61	67.7	15	pCi/L
S-SMA-6	SS1248	2004	UF	RAD	Gross alpha	1	1	1	253	253	253	15	pCi/L
T-SMA-1	E201.3	2005	UF	RAD	Gross alpha	2	2	2	40	32.3	47.3	15	pCi/L
T-SMA-3	SS20134	2004	UF	RAD	Gross alpha	5	5	5	53	24.5	115	15	pCi/L
T-SMA-3	SS20134	2005	UF	RAD	Gross alpha	4	4	3	26	3.87	44.7	15	pCi/L
T-SMA-4	SS20136	2004	UF	RAD	Gross alpha	3	3	2	14	7.83	19.3	15	pCi/L
T-SMA-5	SS20138	2004	UF	RAD	Gross alpha	2	2	2	32	32	32.4	15	pCi/L
T-SMA-6	SS20140	2005	UF	RAD	Gross alpha	2	2	2	185	49.8	321	15	pCi/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
2M-SMA-1	SS2432	2005	Q2	5/27/2005	UF	GU0506K243201	GENINORG	Chemical Oxygen Demand		124	mg/L			120	mg/L
2M-SMA-1	SS2432	2005	Q2	5/27/2005	UF	GU0506K243201	GENINORG	Magnesium		0.697	mg/L		J	0.0636	mg/L
2M-SMA-1	SS2432	2005	Q2	6/13/2005	UF	GU0506K243202	GENINORG	Chemical Oxygen Demand		130	mg/L			120	mg/L
2M-SMA-1	SS2432	2005	Q2	6/13/2005	UF	GU0506K243202	GENINORG	Magnesium		1.2	mg/L			0.0636	mg/L
2M-SMA-1	SS2432	2005	Q2	6/26/2005	UF	GU0506K243203	GENINORG	Magnesium		1.21	mg/L			0.0636	mg/L
2M-SMA-1	SS2432	2005	Q3	7/23/2005	UF	GU0507K243201	GENINORG	Magnesium		5.84	mg/L			0.0636	mg/L
2M-SMA-1	SS2432	2005	Q3	7/23/2005	UF	GU0507K243201	METALS	Aluminum		34300	ug/L			5000	ug/L
2M-SMA-1	SS2432	2005	Q3	7/23/2005	UF	GU0507K243201	RAD	Gross alpha		30.7	pCi/L			15	pCi/L
2M-SMA-2	E2435	2005	Q2	4/16/2005	UF	GU0504E243501	GENINORG	Magnesium		1.09	mg/L	N	J+	0.0636	mg/L
2M-SMA-2	E2435	2005	Q2	4/24/2005	UF	GU0504E243502	GENINORG	Magnesium		0.652	mg/L			0.0636	mg/L
2M-SMA-2	E2435	2005	Q2	5/27/2005	UF	GU0505E243502	GENINORG	Magnesium		2.01	mg/L		J	0.0636	mg/L
2M-SMA-2	E2435	2005	Q2	6/11/2005	UF	GU0506E243501	GENINORG	Magnesium		0.715	mg/L			0.0636	mg/L
2M-SMA-3	SS2439	2005	Q3	7/15/2005	UF	GU0507K243901	GENINORG	Magnesium		4.57	mg/L			0.0636	mg/L
2M-SMA-3	SS2439	2005	Q3	7/15/2005	UF	GU0507K243901	METALS	Aluminum		18900	ug/L			5000	ug/L
2M-SMA-3	SS2439	2005	Q3	7/15/2005	UF	GU0507K243901	METALS	Silver		5.9	ug/L			4.1	ug/L
2M-SMA-3	SS2439	2005	Q3	7/20/2005	UF	GU0507K243902	GENINORG	Chemical Oxygen Demand		168	mg/L			120	mg/L
3M-SMA-0.5	SS2459	2005	Q3	8/12/2005	UF	GU0508K245901	GENINORG	Magnesium		41.3	mg/L			0.0636	mg/L
3M-SMA-0.5	SS2459	2005	Q3	8/12/2005	UF	GU0508K245901	METALS	Aluminum		222000	ug/L			5000	ug/L
3M-SMA-0.5	SS2459	2005	Q3	8/12/2005	UF	GU0508K245901	METALS	Arsenic		51.5	ug/L			24.2	ug/L
3M-SMA-0.5	SS2459	2005	Q3	8/12/2005	UF	GU0508K245901	METALS	Lead		244	ug/L			126	ug/L
3M-SMA-0.5	SS2459	2005	Q3	8/12/2005	UF	GU0508K245901	METALS	Vanadium		332	ug/L			100	ug/L
3M-SMA-0.5	SS2459	2005	Q3	8/24/2005	UF	GU0508K245902	RAD	Gross alpha		112	pCi/L			15	pCi/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0510K245901	GENINORG	Magnesium		2.37	mg/L			0.0636	mg/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0510K245901	METALS	Aluminum		10800	ug/L			5000	ug/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0509K245901	GENINORG	Magnesium		10.2	mg/L			0.0636	mg/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0509K245901	METALS	Aluminum		65000	ug/L		J	5000	ug/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0509K245901	RAD	Gross alpha		54.8	pCi/L		J-	15	pCi/L
3M-SMA-0.6	SS2457	2005	Q3	7/15/2005	UF	GU0507K245701	GENINORG	Chemical Oxygen Demand		186	mg/L			120	mg/L
3M-SMA-0.6	SS2457	2005	Q3	7/15/2005	UF	GU0507K245701	GENINORG	Magnesium		3.21	mg/L			0.0636	mg/L
3M-SMA-0.6	SS2457	2005	Q3	7/15/2005	UF	GU0507K245701	METALS	Aluminum		13600	ug/L	N*	J+	5000	ug/L
3M-SMA-0.6	SS2457	2005	Q3	7/15/2005	UF	GU0507K245701	METALS	Lead		161	ug/L			126	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/6/2005	UF	GU0508K245701	GENINORG	Chemical Oxygen Demand		143	mg/L			120	mg/L
3M-SMA-0.6	SS2457	2005	Q3	8/6/2005	UF	GU0508K245701	GENINORG	Magnesium		2.1	mg/L			0.0636	mg/L
3M-SMA-0.6	SS2457	2005	Q3	8/6/2005	UF	GU0508K245701	METALS	Aluminum		10300	ug/L		J	5000	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/6/2005	UF	GU0508K245701	METALS	Lead		245	ug/L			126	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/12/2005	UF	GU0508K245702	RAD	Gross alpha		405	pCi/L			15	pCi/L
3M-SMA-0.6	SS2457	2005	Q3	8/23/2005	UF	GU0508K245703	GENINORG	Chemical Oxygen Demand		194	mg/L			120	mg/L
3M-SMA-0.6	SS2457	2005	Q3	8/23/2005	UF	GU0508K245703	GENINORG	Magnesium		11.8	mg/L			0.0636	mg/L
3M-SMA-0.6	SS2457	2005	Q3	8/23/2005	UF	GU0508K245703	METALS	Aluminum		82300	ug/L			5000	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/23/2005	UF	GU0508K245703	METALS	Copper		2210	ug/L			521	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/23/2005	UF	GU0508K245703	METALS	Lead		1290	ug/L			126	ug/L
3M-SMA-0.6	SS2457	2005	Q3	8/24/2005	UF	GU0508K245704	RAD	Gross alpha		987	pCi/L			15	pCi/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
3M-SMA-0.6	SS2457	2005	Q3	9/23/2005	UF	GU0509K245701	GENINORG	Chemical Oxygen Demand		168	mg/L			120	mg/L
3M-SMA-0.6	SS2457	2005	Q3	9/23/2005	UF	GU0509K245701	GENINORG	Magnesium		2.53	mg/L			0.0636	mg/L
3M-SMA-0.6	SS2457	2005	Q3	9/23/2005	UF	GU0509K245701	METALS	Aluminum		11100	ug/L			5000	ug/L
3M-SMA-0.6	SS2457	2005	Q3	9/29/2005	UF	GU0510K245701	RAD	Gross alpha		133	pCi/L			15	pCi/L
ACID-SMA-2	E055.5	2004	Q3	9/27/2004	UF	GU0409E055501	GENINORG	Chemical Oxygen Demand		161	mg/L			120	mg/L
ACID-SMA-2	E055.5	2004	Q3	9/27/2004	UF	GU0409E055501	GENINORG	Magnesium		5.84	mg/L	E		0.0636	mg/L
ACID-SMA-2	E055.5	2004	Q3	9/27/2004	UF	GU0409E055501	METALS	Aluminum		34200	ug/L	*		5000	ug/L
ACID-SMA-2	E055.5	2005	Q3	7/15/2005	UF	GU0507E055501	GENINORG	Magnesium		13.6	mg/L			0.0636	mg/L
ACID-SMA-2	E055.5	2005	Q3	7/15/2005	UF	GU0507E055501	METALS	Aluminum		64300	ug/L	*		5000	ug/L
ACID-SMA-2	E055.5	2005	Q3	7/15/2005	UF	GU0507E055501	METALS	Lead		260	ug/L	N	J-	126	ug/L
ACID-SMA-2	E055.5	2005	Q3	8/5/2005	UF	GU0508E055501	GENINORG	Magnesium		6.66	mg/L	N*	J, J+	0.0636	mg/L
ACID-SMA-2	E055.5	2005	Q3	8/5/2005	UF	GU0508E055501	METALS	Aluminum		38200	ug/L	*	J	5000	ug/L
ACID-SMA-2	E055.5	2005	Q3	8/12/2005	UF	GU0508E055502	GENINORG	Magnesium		2.98	mg/L			0.0636	mg/L
ACID-SMA-2	E055.5	2005	Q3	8/12/2005	UF	GU0508E055502	METALS	Aluminum		19300	ug/L			5000	ug/L
ACID-SMA-2	E056	2005	Q3	8/12/2005	UF	GU05080E05601	GENINORG	Magnesium		2.19	mg/L			0.0636	mg/L
ACID-SMA-2	E056	2005	Q3	8/12/2005	UF	GU05080E05601	METALS	Aluminum		11200	ug/L			5000	ug/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	GENINORG	Magnesium		12	mg/L			0.0636	mg/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Aluminum		68600	ug/L			5000	ug/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Lead		428	ug/L			126	ug/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	METALS	Vanadium		116	ug/L			100	ug/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Gross alpha		153	pCi/L			15	pCi/L
ACID-SMA-2	E055.5	2005	Q3	8/25/2005	UF	GU0508E055503	GENINORG	Magnesium		5.81	mg/L			0.0636	mg/L
ACID-SMA-2	E055.5	2005	Q3	8/25/2005	UF	GU0508E055503	METALS	Aluminum		37200	ug/L			5000	ug/L
ACID-SMA-2	E055.5	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Gross alpha		43.1	pCi/L			15	pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/28/2005	UF	GU0509E055502	GENINORG	Magnesium		3.21	mg/L			0.0636	mg/L
ACID-SMA-2	E055.5	2005	Q3	9/28/2005	UF	GU0509E055502	METALS	Aluminum		19900	ug/L			5000	ug/L
ACID-SMA-2	E055.5	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Gross alpha		79.9	pCi/L			15	pCi/L
ACID-SMA-2	E056	2005	Q3	9/28/2005	UF	GU05090E05601	GENINORG	Magnesium		3.52	mg/L			0.0636	mg/L
ACID-SMA-2	E056	2005	Q3	9/28/2005	UF	GU05090E05601	METALS	Aluminum		21900	ug/L			5000	ug/L
ACID-SMA-2	E056	2005	Q3	9/28/2005	UF	GU05090E05601	RAD	Gross alpha		95.4	pCi/L		J-	15	pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Gross alpha		36.1	pCi/L			15	pCi/L
A-SMA-1	E2737	2005	Q3	7/17/2005	UF	GU05070KAS101	GENINORG	Magnesium		0.652	mg/L			0.0636	mg/L
A-SMA-1	E2737	2005	Q3	9/28/2005	UF	GU05100KAS101	GENINORG	Magnesium		0.924	mg/L			0.0636	mg/L
A-SMA-3	E2739	2005	Q3	9/28/2005	UF	GU05100KAS301	GENINORG	Magnesium		10	mg/L			0.0636	mg/L
A-SMA-3	E2739	2005	Q3	9/28/2005	UF	GU05100KAS301	METALS	Aluminum		46300	ug/L			5000	ug/L
B-SMA-1	SS067	2004	Q3	7/27/2004	UF	GU04080K06701	GENINORG	Magnesium		6.86	mg/L	E		0.0636	mg/L
B-SMA-1	SS067	2004	Q3	7/27/2004	UF	GU04080K06701	METALS	Aluminum		42700	ug/L			5000	ug/L
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	GENINORG	Chemical Oxygen Demand		135	mg/L			120	mg/L
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	GENINORG	Magnesium		16.5	mg/L	N		0.0636	mg/L
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	METALS	Aluminum		97000	ug/L			5000	ug/L
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	METALS	Arsenic		25.2	ug/L			24.2	ug/L
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	METALS	Lead		262	ug/L			126	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
B-SMA-1	SS067	2004	Q3	8/6/2004	UF	GU04080K06702	METALS	Vanadium		132	ug/L			100	ug/L
B-SMA-1	SS067	2004	Q3	8/10/2004	UF	GU04080K06703	GENINORG	Chemical Oxygen Demand		694	mg/L			120	mg/L
B-SMA-1	SS067	2004	Q3	8/10/2004	UF	GU04080K06703	GENINORG	Magnesium		0.783	mg/L			0.0636	mg/L
B-SMA-1	SS067	2004	Q3	8/11/2004	UF	GU04080K06704	GENINORG	Chemical Oxygen Demand		345	mg/L			120	mg/L
B-SMA-1	SS067	2004	Q3	8/11/2004	UF	GU04080K06704	GENINORG	Magnesium		15.9	mg/L			0.0636	mg/L
B-SMA-1	SS067	2004	Q3	8/11/2004	UF	GU04080K06704	METALS	Aluminum		94100	ug/L			5000	ug/L
B-SMA-1	SS067	2004	Q3	8/11/2004	UF	GU04080K06704	METALS	Lead		217	ug/L	E		126	ug/L
B-SMA-1	SS067	2004	Q3	8/11/2004	UF	GU04080K06704	METALS	Vanadium		130	ug/L			100	ug/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	GENINORG	Chemical Oxygen Demand		2020	mg/L			120	mg/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	GENINORG	Magnesium		23.9	mg/L	N		0.0636	mg/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	METALS	Aluminum		140000	ug/L	N		5000	ug/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	METALS	Arsenic		34.9	ug/L			24.2	ug/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	METALS	Lead		304	ug/L			126	ug/L
B-SMA-1	SS067	2004	Q3	8/20/2004	UF	GU04080K06705	METALS	Vanadium		190	ug/L			100	ug/L
B-SMA-1	SS067	2005	Q3	8/4/2005	UF	GU05080K06701	GENINORG	Magnesium		6.6	mg/L			0.0636	mg/L
B-SMA-1	SS067	2005	Q3	8/4/2005	UF	GU05080K06701	METALS	Aluminum		35200	ug/L			5000	ug/L
B-SMA-1	SS067	2005	Q3	8/12/2005	UF	GU05080K06702	GENINORG	Magnesium		1.64	mg/L			0.0636	mg/L
B-SMA-1	SS067	2005	Q3	8/12/2005	UF	GU05080K06702	METALS	Aluminum		6430	ug/L			5000	ug/L
B-SMA-1	SS067	2005	Q3	8/22/2005	UF	GU05080K06703	GENINORG	Magnesium		16.9	mg/L			0.0636	mg/L
B-SMA-1	SS067	2005	Q3	8/22/2005	UF	GU05080K06703	METALS	Aluminum		104000	ug/L			5000	ug/L
B-SMA-1	SS067	2005	Q3	8/22/2005	UF	GU05080K06703	METALS	Lead		168	ug/L	E	J	126	ug/L
B-SMA-1	SS067	2005	Q3	8/22/2005	UF	GU05080K06703	METALS	Vanadium		140	ug/L			100	ug/L
B-SMA-1	SS067	2005	Q3	8/24/2005	UF	GU05080K06704	GENINORG	Magnesium		28	mg/L			0.0636	mg/L
B-SMA-1	SS067	2005	Q3	8/24/2005	UF	GU05080K06704	METALS	Aluminum		163000	ug/L			5000	ug/L
B-SMA-1	SS067	2005	Q3	8/24/2005	UF	GU05080K06704	METALS	Arsenic		38.4	ug/L			24.2	ug/L
B-SMA-1	SS067	2005	Q3	8/24/2005	UF	GU05080K06704	METALS	Lead		238	ug/L			126	ug/L
B-SMA-1	SS067	2005	Q3	8/24/2005	UF	GU05080K06704	METALS	Vanadium		240	ug/L			100	ug/L
CDB-SMA-1	SS2185	2004	Q3	7/27/2004	UF	GU0408K218501	GENINORG	Chemical Oxygen Demand		161	mg/L			120	mg/L
CDB-SMA-1	SS2185	2004	Q3	7/27/2004	UF	GU0408K218501	GENINORG	Magnesium		3.8	mg/L	N*		0.0636	mg/L
CDB-SMA-1	SS2185	2004	Q3	7/27/2004	UF	GU0408K218501	METALS	Aluminum		21400	ug/L			5000	ug/L
CDB-SMA-1	SS2185	2004	Q3	7/27/2004	UF	GU0408K218501	RAD	Gross alpha		21.9	pCi/L			15	pCi/L
CDB-SMA-1	SS2185	2004	Q3	8/18/2004	UF	GU0408K218502	GENINORG	Magnesium		5.14	mg/L	N		0.0636	mg/L
CDB-SMA-1	SS2185	2004	Q3	8/18/2004	UF	GU0408K218502	METALS	Aluminum		27900	ug/L			5000	ug/L
CDB-SMA-1	SS2185	2004	Q3	8/18/2004	UF	GU0408K218502	RAD	Gross alpha		38.2	pCi/L			15	pCi/L
CDB-SMA-1	SS2185	2004	Q4	10/5/2004	UF	GU0410K218501	GENINORG	Chemical Oxygen Demand		147	mg/L			120	mg/L
CDB-SMA-1	SS2185	2004	Q4	10/5/2004	UF	GU0410K218501	GENINORG	Magnesium		3.04	mg/L			0.0636	mg/L
CDB-SMA-1	SS2185	2004	Q4	10/5/2004	UF	GU0410K218501	METALS	Aluminum		17300	ug/L	N		5000	ug/L
CDB-SMA-1	SS2185	2004	Q4	10/5/2004	UF	GU0410K218501	RAD	Gross alpha		38.2	pCi/L			15	pCi/L
CDB-SMA-1	SS2185	2004	Q4	10/11/2004	UF	GU0410K218502	GENINORG	Magnesium		4.59	mg/L			0.0636	mg/L
CDB-SMA-1	SS2185	2004	Q4	10/11/2004	UF	GU0410K218502	METALS	Aluminum		26200	ug/L	N		5000	ug/L
CDB-SMA-2	SS2188	2004	Q3	7/27/2004	UF	GU0408K218801	GENINORG	Magnesium		3.73	mg/L	E		0.0636	mg/L
CDB-SMA-2	SS2188	2004	Q3	7/27/2004	UF	GU0408K218801	METALS	Aluminum		26200	ug/L			5000	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL
CDB-SMA-2	SS2188	2004	Q3	7/27/2004	UF	GU0408K218801	METALS	Silver		8.3	ug/L			4.1 ug/L
CDB-SMA-2	SS2188	2004	Q3	7/27/2004	UF	GU0408K218801	RAD	Gross alpha		78.7	pCi/L			15 pCi/L
CDB-SMA-2	SS2188	2004	Q4	10/11/2004	UF	GU0410K218801	GENINORG	Chemical Oxygen Demand		131	mg/L			120 mg/L
CDB-SMA-2	SS2188	2004	Q4	10/11/2004	UF	GU0410K218801	GENINORG	Magnesium		2.73	mg/L			0.0636 mg/L
CDB-SMA-2	SS2188	2004	Q4	10/11/2004	UF	GU0410K218801	METALS	Aluminum		10400	ug/L	N		5000 ug/L
CDB-SMA-2	SS2188	2005	Q3	8/12/2005	UF	GU0508K218801	GENINORG	Magnesium		0.923	mg/L			0.0636 mg/L
CDB-SMA-2	SS2188	2005	Q3	9/28/2005	UF	GU0509K218801	GENINORG	Magnesium		0.95	mg/L			0.0636 mg/L
CDB-SMA-2	SS2188	2005	Q4	10/3/2005	UF	GU0510K218801	GENINORG	Magnesium		1.28	mg/L			0.0636 mg/L
CDB-SMA-4	E227	2004	Q3	8/10/2004	UF	GU04080E22701	GENINORG	Chemical Oxygen Demand		160	mg/L			120 mg/L
CDB-SMA-4	E227	2004	Q3	8/10/2004	UF	GU04080E22701	GENINORG	Magnesium		27.8	mg/L			0.0636 mg/L
CDB-SMA-4	E227	2004	Q3	8/10/2004	UF	GU04080E22701	METALS	Aluminum		79300	ug/L			5000 ug/L
CDB-SMA-4	E227	2004	Q3	8/10/2004	UF	GU04080E22701	METALS	Vanadium		108	ug/L			100 ug/L
CDB-SMA-4	E227	2005	Q3	7/17/2005	UF	GU05070E22701	GENINORG	Magnesium		11	mg/L	N		0.0636 mg/L
CDB-SMA-4	E227	2005	Q3	7/17/2005	UF	GU05070E22701	METALS	Aluminum		8920	ug/L	N*		5000 ug/L
CDB-SMA-4	E227	2005	Q3	7/17/2005	UF	GU05070E22701	PEST/PCB	Aroclor-1254		0.25	ug/L	P		0.0017 ug/L
CDB-SMA-4	E227	2005	Q3	8/12/2005	UF	GU05080E22701	GENINORG	Magnesium		6.92	mg/L			0.0636 mg/L
CDB-SMA-4	E227	2005	Q3	8/12/2005	UF	GU05080E22701	METALS	Aluminum		15800	ug/L			5000 ug/L
CDB-SMA-4	E227	2005	Q3	8/13/2005	UF	GU05080E22702	GENINORG	Magnesium		19.5	mg/L			0.0636 mg/L
CDB-SMA-4	E227	2005	Q3	8/13/2005	UF	GU05080E22702	METALS	Aluminum		54200	ug/L			5000 ug/L
CDB-SMA-4	E227	2005	Q3	9/28/2005	UF	GU05100E22701	RAD	Gross alpha		106	pCi/L			15 pCi/L
CDB-SMA-4	E227	2005	Q4	10/9/2005	UF	GU05100E22702	GENINORG	Magnesium		25.4	mg/L			0.0636 mg/L
CDB-SMA-4	E227	2005	Q4	10/9/2005	UF	GU05100E22702	METALS	Aluminum		74200	ug/L			5000 ug/L
CDB-SMA-4	E227	2005	Q4	10/9/2005	UF	GU05100E22702	METALS	Vanadium		105	ug/L			100 ug/L
CDB-SMA-4	E227	2005	Q4	10/9/2005	UF	GU05100E22702	RAD	Gross alpha		31.2	pCi/L			15 pCi/L
CDV-SMA-1	SS254	2005	Q3	7/15/2005	UF	GU05070K25401	GENINORG	Magnesium		0.845	mg/L			0.0636 mg/L
CDV-SMA-1	SS254	2005	Q3	8/4/2005	UF	GU05080K25401	GENINORG	Magnesium		1.97	mg/L	N		0.0636 mg/L
CDV-SMA-1	SS254	2005	Q3	8/4/2005	UF	GU05080K25401	METALS	Aluminum		7190	ug/L			5000 ug/L
CDV-SMA-1	SS254	2005	Q3	8/12/2005	UF	GU05080K25402	GENINORG	Magnesium		3.48	mg/L			0.0636 mg/L
CDV-SMA-1	SS254	2005	Q3	8/12/2005	UF	GU05080K25402	METALS	Aluminum		22800	ug/L	N		5000 ug/L
CDV-SMA-1	SS254	2005	Q3	8/24/2005	UF	GU05080K25403	GENINORG	Magnesium		3.39	mg/L			0.0636 mg/L
CDV-SMA-1	SS254	2005	Q3	8/24/2005	UF	GU05080K25403	METALS	Aluminum		22400	ug/L			5000 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	7/15/2005	UF	GU0507K254201	GENINORG	Magnesium		1.55	mg/L			0.0636 mg/L
CDV-SMA-1.4	SS2542	2005	Q3	7/15/2005	UF	GU0507K254201	METALS	Aluminum		7300	ug/L			5000 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	7/15/2005	UF	GU0507K254201	METALS	Silver		14	ug/L			4.1 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	8/8/2005	UF	GU0508K254201	GENINORG	Magnesium		1.56	mg/L	N		0.0636 mg/L
CDV-SMA-1.4	SS2542	2005	Q3	8/8/2005	UF	GU0508K254201	METALS	Aluminum		10500	ug/L			5000 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	8/8/2005	UF	GU0508K254201	METALS	Silver		127	ug/L			4.1 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	8/12/2005	UF	GU0508K254202	GENINORG	Magnesium		1.98	mg/L			0.0636 mg/L
CDV-SMA-1.4	SS2542	2005	Q3	8/12/2005	UF	GU0508K254202	METALS	Aluminum		10600	ug/L	N		5000 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	8/12/2005	UF	GU0508K254202	METALS	Silver		25.3	ug/L			4.1 ug/L
CDV-SMA-1.4	SS2542	2005	Q3	8/24/2005	UF	GU0508K254203	GENINORG	Magnesium		2.38	mg/L	*		0.0636 mg/L
CDV-SMA-1.4	SS2542	2005	Q3	8/24/2005	UF	GU0508K254203	METALS	Aluminum		18300	ug/L	*		5000 ug/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
CDV-SMA-1.4	SS2542	2005	Q3	8/24/2005	UF	GU0508K254203	METALS	Silver		71.9	ug/L			4.1	ug/L
CDV-SMA-1.5	SS2545	2005	Q2	5/3/2005	UF	GU0505K254201	GENINORG	Chemical Oxygen Demand		212	mg/L			120	mg/L
CDV-SMA-1.5	SS2545	2005	Q2	5/3/2005	UF	GU0505K254201	GENINORG	Magnesium		10.1	mg/L			0.0636	mg/L
CDV-SMA-1.5	SS2545	2005	Q2	5/3/2005	UF	GU0505K254201	METALS	Aluminum		88000	ug/L		J	5000	ug/L
CDV-SMA-1.5	SS2545	2005	Q2	5/27/2005	UF	GU0505K254501	GENINORG	Chemical Oxygen Demand		568	mg/L			120	mg/L
CDV-SMA-1.5	SS2545	2005	Q2	5/27/2005	UF	GU0505K254501	GENINORG	Magnesium		15.7	mg/L		J	0.0636	mg/L
CDV-SMA-1.5	SS2545	2005	Q2	5/27/2005	UF	GU0505K254501	METALS	Aluminum		124000	ug/L		J	5000	ug/L
CDV-SMA-1.5	SS2545	2005	Q2	5/27/2005	UF	GU0505K254501	METALS	Arsenic		26.3	ug/L		J	24.2	ug/L
CDV-SMA-1.5	SS2545	2005	Q2	5/27/2005	UF	GU0505K254501	METALS	Vanadium		145	ug/L		J	100	ug/L
CDV-SMA-1.5	SS2545	2005	Q3	7/15/2005	UF	GU0507K254501	GENINORG	Chemical Oxygen Demand		308	mg/L			120	mg/L
CDV-SMA-1.5	SS2545	2005	Q3	7/15/2005	UF	GU0507K254501	GENINORG	Magnesium		11.6	mg/L	J	J+	0.0636	mg/L
CDV-SMA-1.5	SS2545	2005	Q3	7/15/2005	UF	GU0507K254501	METALS	Aluminum		76500	ug/L		J	5000	ug/L
CDV-SMA-1.5	SS2545	2005	Q3	8/4/2005	UF	GU0508K254501	GENINORG	Chemical Oxygen Demand		212	mg/L			120	mg/L
CDV-SMA-1.5	SS2545	2005	Q3	8/4/2005	UF	GU0508K254501	GENINORG	Magnesium		3.25	mg/L	N		0.0636	mg/L
CDV-SMA-1.5	SS2545	2005	Q3	8/4/2005	UF	GU0508K254501	METALS	Aluminum		20100	ug/L			5000	ug/L
CDV-SMA-2	SS255	2005	Q3	8/24/2005	UF	GU05080K25501	GENINORG	Magnesium		5.42	mg/L			0.0636	mg/L
CDV-SMA-2	SS255	2005	Q3	8/24/2005	UF	GU05080K25501	METALS	Aluminum		45000	ug/L			5000	ug/L
CDV-SMA-2	SS255	2005	Q3	8/24/2005	UF	GU05080K25501	RAD	Gross alpha		23.5	pCi/L			15	pCi/L
CDV-SMA-2.4	SS2557	2005	Q3	7/15/2005	UF	GU0507K255701	GENINORG	Magnesium		6.54	mg/L			0.0636	mg/L
CDV-SMA-2.4	SS2557	2005	Q3	7/15/2005	UF	GU0507K255701	METALS	Aluminum		8570	ug/L	N*	J+	5000	ug/L
CDV-SMA-2.4	SS2557	2005	Q3	8/4/2005	UF	GU0508K255701	GENINORG	Magnesium		19.9	mg/L			0.0636	mg/L
CDV-SMA-2.4	SS2557	2005	Q3	8/4/2005	UF	GU0508K255701	METALS	Aluminum		36200	ug/L		J+	5000	ug/L
CDV-SMA-2.4	SS2557	2005	Q3	8/4/2005	UF	GU0508K255701	METALS	Vanadium		104	ug/L			100	ug/L
CDV-SMA-2.4	SS2557	2005	Q3	8/22/2005	UF	GU0508K255702	GENINORG	Magnesium		13.3	mg/L			0.0636	mg/L
CDV-SMA-2.4	SS2557	2005	Q3	8/22/2005	UF	GU0508K255702	METALS	Aluminum		94300	ug/L			5000	ug/L
CDV-SMA-2.4	SS2557	2005	Q3	9/4/2005	UF	GU0509K255701	GENINORG	Magnesium		11	mg/L	N	J+	0.0636	mg/L
CDV-SMA-2.4	SS2557	2005	Q3	9/4/2005	UF	GU0509K255701	METALS	Aluminum		78200	ug/L			5000	ug/L
DP-SMA-0.3	SS0375	2005	Q3	8/4/2005	UF	GU0508K037501	GENINORG	Magnesium		1.13	mg/L	N		0.0636	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/12/2005	UF	GU0508K037502	GENINORG	Magnesium		8.87	mg/L			0.0636	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/12/2005	UF	GU0508K037502	METALS	Aluminum		40700	ug/L			5000	ug/L
DP-SMA-0.3	SS0375	2005	Q3	8/12/2005	UF	GU0508K037502	RAD	Gross alpha		54.1	pCi/L			15	pCi/L
DP-SMA-0.3	SS0375	2005	Q3	8/22/2005	UF	GU0508K037503	GENINORG	Chemical Oxygen Demand		228	mg/L			120	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/22/2005	UF	GU0508K037503	GENINORG	Magnesium		3.07	mg/L			0.0636	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/22/2005	UF	GU0508K037503	METALS	Aluminum		17000	ug/L			5000	ug/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	GENINORG	Chemical Oxygen Demand		130	mg/L			120	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	GENINORG	Magnesium		13	mg/L			0.0636	mg/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	METALS	Aluminum		77800	ug/L			5000	ug/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	METALS	Vanadium		112	ug/L			100	ug/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	RAD	Gross alpha		64.5	pCi/L			15	pCi/L
DP-SMA-0.3	SS0375	2005	Q3	9/28/2005	UF	GU0510K037501	RAD	Gross alpha		19.9	pCi/L			15	pCi/L
DP-SMA-0.9	SS0388	2005	Q3	8/12/2005	UF	GU0508K038801	GENINORG	Magnesium		1.71	mg/L			0.0636	mg/L
DP-SMA-0.9	SS0388	2005	Q3	8/12/2005	UF	GU0508K038801	RAD	Gross alpha		27.9	pCi/L			15	pCi/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
DP-SMA-0.9	SS0388	2005	Q3	8/22/2005	UF	GU0508K038802	GENINORG	Magnesium		1.03	mg/L			0.0636	mg/L
DP-SMA-0.9	SS0388	2005	Q3	8/22/2005	UF	GU0508K038802	RAD	Gross alpha		22	pCi/L			15	pCi/L
DP-SMA-0.9	SS0388	2005	Q3	8/24/2005	UF	GU0508K038803	GENINORG	Magnesium		8.2	mg/L			0.0636	mg/L
DP-SMA-0.9	SS0388	2005	Q3	8/24/2005	UF	GU0508K038803	METALS	Aluminum		32500	ug/L			5000	ug/L
DP-SMA-0.9	SS0388	2005	Q3	8/24/2005	UF	GU0508K038803	RAD	Gross alpha		47.2	pCi/L			15	pCi/L
DP-SMA-0.9	SS0388	2005	Q3	9/29/2005	UF	GU0509K038801	GENINORG	Magnesium		1.6	mg/L			0.0636	mg/L
DP-SMA-0.9	SS0388	2005	Q3	9/29/2005	UF	GU0509K038801	METALS	Aluminum		6200	ug/L			5000	ug/L
DP-SMA-1	SS0385	2004	Q3	7/27/2004	UF	GU0408K038501	GENINORG	Magnesium		45.4	mg/L	E		0.0636	mg/L
DP-SMA-1	SS0385	2004	Q3	7/27/2004	UF	GU0408K038501	RAD	Gross alpha		197	pCi/L			15	pCi/L
DP-SMA-1	SS0385	2004	Q3	8/24/2004	UF	GU0408K038502	GENINORG	Chemical Oxygen Demand		277	mg/L			120	mg/L
DP-SMA-1	SS0385	2004	Q3	8/24/2004	UF	GU0408K038502	GENINORG	Magnesium		29	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2004	Q3	8/24/2004	UF	GU0408K038502	METALS	Mercury		0.94	ug/L			0.77	ug/L
DP-SMA-1	SS0385	2004	Q3	8/24/2004	UF	GU0408K038502	RAD	Gross alpha		128	pCi/L			15	pCi/L
DP-SMA-1	SS0385	2004	Q4	10/5/2004	UF	GU0410K038501	GENINORG	Magnesium		22.8	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2004	Q4	10/11/2004	UF	GU0410K038502	GENINORG	Magnesium		11.3	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2005	Q3	8/22/2005	UF	GU0508K038501	GENINORG	Magnesium		18.9	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2005	Q3	8/22/2005	UF	GU0508K038501	METALS	Aluminum		80400	ug/L			5000	ug/L
DP-SMA-1	SS0385	2005	Q3	8/22/2005	UF	GU0508K038501	RAD	Gross alpha		26.4	pCi/L			15	pCi/L
DP-SMA-1	SS0385	2005	Q3	8/24/2005	UF	GU0508K038502	GENINORG	Magnesium		24.1	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2005	Q3	8/24/2005	UF	GU0508K038502	METALS	Aluminum		121000	ug/L			5000	ug/L
DP-SMA-1	SS0385	2005	Q3	8/24/2005	UF	GU0508K038502	METALS	Vanadium		129	ug/L			100	ug/L
DP-SMA-1	SS0385	2005	Q3	8/24/2005	UF	GU0508K038502	RAD	Gross alpha		62.8	pCi/L			15	pCi/L
DP-SMA-1	SS0385	2005	Q4	10/3/2005	UF	GU0510K038501	GENINORG	Magnesium		7.44	mg/L			0.0636	mg/L
DP-SMA-1	SS0385	2005	Q4	10/3/2005	UF	GU0510K038501	METALS	Aluminum		39500	ug/L			5000	ug/L
DP-SMA-2	SS0387	2005	Q3	8/12/2005	UF	GU0508K038701	GENINORG	Chemical Oxygen Demand		141	mg/L			120	mg/L
DP-SMA-2	SS0387	2005	Q3	8/12/2005	UF	GU0508K038701	GENINORG	Magnesium		12.9	mg/L			0.0636	mg/L
DP-SMA-2	SS0387	2005	Q3	8/12/2005	UF	GU0508K038701	METALS	Aluminum		64100	ug/L			5000	ug/L
DP-SMA-2	SS0387	2005	Q3	8/12/2005	UF	GU0508K038701	RAD	Gross alpha		48	pCi/L			15	pCi/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	GENINORG	Chemical Oxygen Demand		269	mg/L			120	mg/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	GENINORG	Magnesium		36	mg/L			0.0636	mg/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	METALS	Aluminum		160000	ug/L			5000	ug/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	METALS	Arsenic		34	ug/L			24.2	ug/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	METALS	Lead		213	ug/L	E	J	126	ug/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	METALS	Vanadium		230	ug/L			100	ug/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	RAD	Gross alpha		65.5	pCi/L			15	pCi/L
DP-SMA-2	SS0387	2005	Q3	8/24/2005	UF	GU0508K038703	GENINORG	Chemical Oxygen Demand		126	mg/L			120	mg/L
DP-SMA-2	SS0387	2005	Q3	8/24/2005	UF	GU0508K038703	GENINORG	Magnesium		11.6	mg/L			0.0636	mg/L
DP-SMA-2	SS0387	2005	Q3	8/24/2005	UF	GU0508K038703	METALS	Aluminum		48900	ug/L			5000	ug/L
DP-SMA-2	SS0387	2005	Q3	8/24/2005	UF	GU0508K038703	RAD	Gross alpha		296	pCi/L			15	pCi/L
DP-SMA-2	SS0387	2005	Q4	10/3/2005	UF	GU0510K038701	GENINORG	Chemical Oxygen Demand		152	mg/L			120	mg/L
DP-SMA-2	SS0387	2005	Q4	10/3/2005	UF	GU0510K038701	GENINORG	Magnesium		10	mg/L			0.0636	mg/L
DP-SMA-2	SS0387	2005	Q4	10/3/2005	UF	GU0510K038701	METALS	Aluminum		48000	ug/L			5000	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
DP-SMA-2	SS0387	2005	Q4	10/3/2005	UF	GU0510K038701	RAD	Gross alpha		41.2	pCi/L			15	pCi/L
F-SMA-2	SS26757	2005	Q3	8/22/2005	UF	GU05082675701	GENINORG	Magnesium		18.8	mg/L	N		0.0636	mg/L
F-SMA-2	SS26757	2005	Q3	8/22/2005	UF	GU05082675701	METALS	Aluminum		96600	ug/L			5000	ug/L
F-SMA-2	SS26757	2005	Q3	8/22/2005	UF	GU05082675701	METALS	Lead		174	ug/L	E		126	ug/L
F-SMA-2	SS26757	2005	Q3	8/22/2005	UF	GU05082675701	METALS	Silver		4.9	ug/L			4.1	ug/L
F-SMA-2	SS26757	2005	Q3	8/22/2005	UF	GU05082675701	METALS	Vanadium		114	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	GENINORG	Chemical Oxygen Demand		688	mg/L			120	mg/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	GENINORG	Magnesium		25.2	mg/L	N*		0.0636	mg/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	METALS	Aluminum		97200	ug/L			5000	ug/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	METALS	Arsenic		35.2	ug/L			24.2	ug/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	METALS	Lead		209	ug/L			126	ug/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	METALS	Vanadium		242	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	RAD	Gross alpha		108	pCi/L			15	pCi/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	GENINORG	Chemical Oxygen Demand		1630	mg/L			120	mg/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	GENINORG	Magnesium		28.8	mg/L			0.0636	mg/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	METALS	Aluminum		150000	ug/L			5000	ug/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	METALS	Arsenic		34.9	ug/L			24.2	ug/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	METALS	Lead		271	ug/L			126	ug/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	METALS	Vanadium		239	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	RAD	Gross alpha		312	pCi/L			15	pCi/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	GENINORG	Chemical Oxygen Demand		555	mg/L			120	mg/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	GENINORG	Magnesium		55.9	mg/L	N		0.0636	mg/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	METALS	Aluminum		253000	ug/L			5000	ug/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	METALS	Arsenic		50.1	ug/L			24.2	ug/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	METALS	Lead		540	ug/L			126	ug/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	METALS	Vanadium		398	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	RAD	Gross alpha		287	pCi/L			15	pCi/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	GENINORG	Chemical Oxygen Demand		851	mg/L			120	mg/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	GENINORG	Cyanide, Amenable		0.0113	mg/L			0.0052	mg/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	GENINORG	Magnesium		22.5	mg/L			0.0636	mg/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	METALS	Aluminum		116000	ug/L			5000	ug/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	METALS	Arsenic		26.6	ug/L			24.2	ug/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	METALS	Lead		181	ug/L	E		126	ug/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	METALS	Vanadium		172	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	RAD	Gross alpha		143	pCi/L			15	pCi/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	GENINORG	Chemical Oxygen Demand		235	mg/L			120	mg/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	GENINORG	Magnesium		24.1	mg/L			0.0636	mg/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	METALS	Aluminum		142000	ug/L			5000	ug/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	METALS	Arsenic		27.5	ug/L			24.2	ug/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	METALS	Lead		173	ug/L			126	ug/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	METALS	Vanadium		206	ug/L			100	ug/L
LA-SMA-1	SS0264	2004	Q3	9/4/2004	UF	GU0409K026401	RAD	Gross alpha		26.5	pCi/L			15	pCi/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
LA-SMA-1	SS0264	2005	Q2	5/1/2005	UF	GU0505K026402	GENINORG	Magnesium		3.16	mg/L			0.0636	mg/L
LA-SMA-1	SS0264	2005	Q2	5/1/2005	UF	GU0505K026402	METALS	Aluminum		11000	ug/L		J	5000	ug/L
LA-SMA-1	SS0264	2005	Q2	5/3/2005	UF	GU0505K026401	GENINORG	Chemical Oxygen Demand		183	mg/L			120	mg/L
LA-SMA-1	SS0264	2005	Q2	5/3/2005	UF	GU0505K026401	GENINORG	Magnesium		7.28	mg/L			0.0636	mg/L
LA-SMA-1	SS0264	2005	Q2	5/3/2005	UF	GU0505K026401	METALS	Aluminum		35600	ug/L		J	5000	ug/L
LA-SMA-1	SS0264	2005	Q2	5/31/2005	UF	GU0506K026401	GENINORG	Magnesium		6.55	mg/L		J	0.0636	mg/L
LA-SMA-1	SS0264	2005	Q2	5/31/2005	UF	GU0506K026401	METALS	Aluminum		25700	ug/L		J	5000	ug/L
LA-SMA-1	SS0263	2005	Q3	7/15/2005	UF	GU0507K026301	GENINORG	Magnesium		41.6	mg/L			0.0636	mg/L
LA-SMA-1	SS0263	2005	Q3	7/15/2005	UF	GU0507K026301	METALS	Aluminum		147000	ug/L			5000	ug/L
LA-SMA-1	SS0263	2005	Q3	7/15/2005	UF	GU0507K026301	METALS	Arsenic		55.7	ug/L			24.2	ug/L
LA-SMA-1	SS0263	2005	Q3	7/15/2005	UF	GU0507K026301	METALS	Lead		1740	ug/L	E		126	ug/L
LA-SMA-1	SS0263	2005	Q3	7/15/2005	UF	GU0507K026301	METALS	Vanadium		299	ug/L			100	ug/L
LA-SMA-1	SS0264	2005	Q3	7/15/2005	UF	GU0507K026401	RAD	Gross alpha		464	pCi/L			15	pCi/L
LA-SMA-1	SS0263	2005	Q3	7/20/2005	UF	GU0507K026302	GENINORG	Magnesium		9.23	mg/L			0.0636	mg/L
LA-SMA-1	SS0263	2005	Q3	7/20/2005	UF	GU0507K026302	METALS	Aluminum		41100	ug/L			5000	ug/L
LA-SMA-1	SS0263	2005	Q3	7/20/2005	UF	GU0507K026302	METALS	Lead		160	ug/L			126	ug/L
LA-SMA-1	SS0263	2005	Q3	7/20/2005	UF	GU0507K026302	RAD	Gross alpha		17.5	pCi/L			15	pCi/L
LA-SMA-1	SS0263	2005	Q3	8/4/2005	UF	GU0508K026301	GENINORG	Magnesium		4.08	mg/L			0.0636	mg/L
LA-SMA-1	SS0263	2005	Q3	8/4/2005	UF	GU0508K026301	METALS	Aluminum		16600	ug/L		J+	5000	ug/L
LA-SMA-1	SS0263	2005	Q3	8/11/2005	UF	GU0508K026303	RAD	Gross alpha		32.2	pCi/L			15	pCi/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	GENINORG	Magnesium		13.3	mg/L	N		0.0636	mg/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	METALS	Aluminum		65800	ug/L			5000	ug/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	METALS	Lead		375	ug/L	E		126	ug/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	METALS	Vanadium		107	ug/L			100	ug/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	RAD	Gross alpha		46.9	pCi/L			15	pCi/L
LA-SMA-1	SS0263	2005	Q3	9/7/2005	UF	GU0509K026301	GENINORG	Magnesium		3.84	mg/L			0.0636	mg/L
LA-SMA-1	SS0263	2005	Q3	9/7/2005	UF	GU0509K026301	METALS	Aluminum		19300	ug/L	N		5000	ug/L
LA-SMA-1.2	SS02645	2005	Q2	5/3/2005	UF	GU0505K026506	GENINORG	Magnesium		3.64	mg/L			0.0636	mg/L
LA-SMA-1.2	SS02645	2005	Q2	5/3/2005	UF	GU0505K026506	METALS	Aluminum		15100	ug/L			5000	ug/L
LA-SMA-1.2	SS02645	2005	Q3	7/15/2005	UF	GU05070264501	GENINORG	Magnesium		1.97	mg/L			0.0636	mg/L
LA-SMA-1.2	SS02645	2005	Q3	7/15/2005	UF	GU05070264501	RAD	Gross alpha		281	pCi/L			15	pCi/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	GENINORG	Chemical Oxygen Demand		213	mg/L			120	mg/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	GENINORG	Magnesium		12.5	mg/L			0.0636	mg/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	METALS	Aluminum		58000	ug/L			5000	ug/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	METALS	Lead		497	ug/L	E		126	ug/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	RAD	Gross alpha		118	pCi/L			15	pCi/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q2	6/11/2005	UF	GU05060265301	GENINORG	Chemical Oxygen Demand		556	mg/L			120	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q2	6/11/2005	UF	GU05060265301	GENINORG	Magnesium		4.58	mg/L			0.0636	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q2	6/11/2005	UF	GU05060265301	METALS	Aluminum		11800	ug/L			5000	ug/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q3	7/15/2005	UF	GU05070265302	GENINORG	Magnesium		6.28	mg/L			0.0636	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q3	7/15/2005	UF	GU05070265302	METALS	Aluminum		25200	ug/L			5000	ug/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q3	7/26/2005	UF	GU05070265305	GENINORG	Chemical Oxygen Demand		437	mg/L			120	mg/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
LA-SMA-1.5(N)	SS02653(N)	2005	Q3	7/26/2005	UF	GU05070265305	GENINORG	Magnesium		2.86	mg/L			0.0636	mg/L
LA-SMA-1.5(N)	SS02653(N)	2005	Q3	7/26/2005	UF	GU05070265305	METALS	Aluminum		6870	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/24/2005	UF	GU0504K026501	GENINORG	Chemical Oxygen Demand		220	mg/L		J	120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/24/2005	UF	GU0504K026501	GENINORG	Magnesium		9.86	mg/L		J	0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/24/2005	UF	GU0504K026501	METALS	Aluminum		63500	ug/L		J	5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/25/2005	UF	GU0505K026501	GENINORG	Chemical Oxygen Demand		181	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/25/2005	UF	GU0505K026501	GENINORG	Magnesium		6.95	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	4/25/2005	UF	GU0505K026501	METALS	Aluminum		36500	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/1/2005	UF	GU0505K026502	GENINORG	Chemical Oxygen Demand		412	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/1/2005	UF	GU0505K026502	GENINORG	Magnesium		7.26	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/1/2005	UF	GU0505K026502	METALS	Aluminum		37700	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/3/2005	UF	GU0505K026503	GENINORG	Chemical Oxygen Demand		353	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/3/2005	UF	GU0505K026503	GENINORG	Magnesium		16.1	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/3/2005	UF	GU0505K026503	METALS	Aluminum		97100	ug/L		J	5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/3/2005	UF	GU0505K026503	METALS	Lead		189	ug/L	E	J	126	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	5/3/2005	UF	GU0505K026503	METALS	Vanadium		102	ug/L			100	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	6/13/2005	UF	GU05060265302	GENINORG	Chemical Oxygen Demand		695	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	6/13/2005	UF	GU05060265302	GENINORG	Magnesium		5.2	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q2	6/13/2005	UF	GU05060265302	METALS	Aluminum		20300	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/15/2005	UF	GU05070265303	GENINORG	Chemical Oxygen Demand		140	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/15/2005	UF	GU05070265303	GENINORG	Magnesium		2.82	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/15/2005	UF	GU05070265303	METALS	Aluminum		13600	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/20/2005	UF	GU05070265304	GENINORG	Chemical Oxygen Demand		193	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/20/2005	UF	GU05070265304	GENINORG	Magnesium		5.94	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/20/2005	UF	GU05070265304	METALS	Aluminum		34300	ug/L			5000	ug/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/26/2005	UF	GU05070265306	GENINORG	Chemical Oxygen Demand		218	mg/L			120	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/26/2005	UF	GU05070265306	GENINORG	Magnesium		3.64	mg/L			0.0636	mg/L
LA-SMA-1.5(S)	SS02653(S)	2005	Q3	7/26/2005	UF	GU05070265306	METALS	Aluminum		10100	ug/L			5000	ug/L
LA-SMA-10	SS037	2004	Q4	10/5/2004	UF	GU04100K03701	GENINORG	Magnesium		3.33	mg/L			0.0636	mg/L
LA-SMA-10	SS037	2005	Q3	8/11/2005	UF	GU05080K03701	GENINORG	Magnesium		6.77	mg/L			0.0636	mg/L
LA-SMA-10	SS037	2005	Q3	8/11/2005	UF	GU05080K03701	METALS	Aluminum		34800	ug/L			5000	ug/L
LA-SMA-10	SS037	2005	Q3	8/11/2005	UF	GU05080K03701	METALS	Lead		155	ug/L	E		126	ug/L
LA-SMA-10	SS037	2005	Q3	8/11/2005	UF	GU05080K03701	RAD	Gross alpha		81.3	pCi/L			15	pCi/L
LA-SMA-10	SS037	2005	Q3	8/24/2005	UF	GU05080K03702	GENINORG	Magnesium		4.64	mg/L	N		0.0636	mg/L
LA-SMA-10	SS037	2005	Q3	8/24/2005	UF	GU05080K03702	METALS	Aluminum		25100	ug/L			5000	ug/L
LA-SMA-2	SS0265	2004	Q3	8/6/2004	UF	GU0408K026501	GENINORG	Magnesium		1.14	mg/L			0.0636	mg/L
LA-SMA-2	SS0265	2004	Q3	8/6/2004	UF	GU0408K026501	PEST/PCB	Aroclor-1254		1.6	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2004	Q3	8/15/2004	UF	GU0408K026502	GENINORG	Magnesium		1.39	mg/L			0.0636	mg/L
LA-SMA-2	SS0265	2004	Q3	8/15/2004	UF	GU0408K026502	PEST/PCB	Aroclor-1254		2.4	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2004	Q3	8/18/2004	UF	GU0408K026503	GENINORG	Magnesium		2.31	mg/L	N		0.0636	mg/L
LA-SMA-2	SS0265	2004	Q3	8/18/2004	UF	GU0408K026503	METALS	Aluminum		11900	ug/L			5000	ug/L
LA-SMA-2	SS0265	2004	Q3	8/18/2004	UF	GU0408K026503	PEST/PCB	Aroclor-1254		3.8	ug/L			0.0017	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
LA-SMA-2	SS0265	2004	Q3	8/18/2004	UF	GU0408K026503	RAD	Gross alpha		25.5	pCi/L			15	pCi/L
LA-SMA-2	SS0265	2004	Q3	8/20/2004	UF	GU0408K026504	GENINORG	Magnesium		2.97	mg/L	N		0.0636	mg/L
LA-SMA-2	SS0265	2004	Q3	8/20/2004	UF	GU0408K026504	METALS	Aluminum		12400	ug/L	N		5000	ug/L
LA-SMA-2	SS0265	2004	Q3	8/20/2004	UF	GU0408K026504	PEST/PCB	Aroclor-1254		2.2	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q2	5/3/2005	UF	GU0505K026505	PEST/PCB	Aroclor-1254		6.7	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q2	5/3/2005	UF	GU0505K026505	PEST/PCB	Aroclor-1260		2	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q3	8/11/2005	UF	GU0508K026502	PEST/PCB	Aroclor-1254		4.8	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q3	8/11/2005	UF	GU0508K026502	PEST/PCB	Aroclor-1260		0.78	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q3	8/22/2005	UF	GU0508K026503	PEST/PCB	Aroclor-1254		7.6	ug/L			0.0017	ug/L
LA-SMA-2	SS0265	2005	Q3	8/22/2005	UF	GU0508K026503	PEST/PCB	Aroclor-1260		1.3	ug/L	P		0.0017	ug/L
LA-SMA-3	SS0266	2004	Q3	8/18/2004	UF	GU0408K026601	GENINORG	Chemical Oxygen Demand		160	mg/L			120	mg/L
LA-SMA-3	SS0266	2004	Q3	8/18/2004	UF	GU0408K026601	GENINORG	Magnesium		4.93	mg/L	N		0.0636	mg/L
LA-SMA-3	SS0266	2004	Q3	8/18/2004	UF	GU0408K026601	METALS	Aluminum		23300	ug/L			5000	ug/L
LA-SMA-3	SS0266	2004	Q3	8/18/2004	UF	GU0408K026601	RAD	Gross alpha		56.4	pCi/L			15	pCi/L
LA-SMA-3	SS0266	2004	Q3	8/20/2004	UF	GU0408K026602	GENINORG	Chemical Oxygen Demand		147	mg/L			120	mg/L
LA-SMA-3	SS0266	2004	Q3	8/20/2004	UF	GU0408K026602	GENINORG	Magnesium		2.01	mg/L	N		0.0636	mg/L
LA-SMA-3	SS0266	2004	Q3	8/20/2004	UF	GU0408K026602	METALS	Aluminum		7070	ug/L	N		5000	ug/L
LA-SMA-3	SS0266	2004	Q3	9/25/2004	UF	GU0409K026601	GENINORG	Chemical Oxygen Demand		154	mg/L			120	mg/L
LA-SMA-3	SS0266	2004	Q3	9/25/2004	UF	GU0409K026601	GENINORG	Magnesium		1.75	mg/L			0.0636	mg/L
LA-SMA-3	SS0266	2004	Q3	9/25/2004	UF	GU0409K026601	METALS	Aluminum		6080	ug/L			5000	ug/L
LA-SMA-3	SS0266	2004	Q4	10/5/2004	UF	GU0410K026601	GENINORG	Chemical Oxygen Demand		124	mg/L			120	mg/L
LA-SMA-3	SS0266	2004	Q4	10/5/2004	UF	GU0410K026601	GENINORG	Magnesium		2.58	mg/L			0.0636	mg/L
LA-SMA-3	SS0266	2004	Q4	10/5/2004	UF	GU0410K026601	METALS	Aluminum		11600	ug/L	N		5000	ug/L
LA-SMA-3	SS0266	2005	Q3	9/28/2005	UF	GU0510K026601	PEST/PCB	Aroclor-1254		0.076	ug/L	J		0.0017	ug/L
LA-SMA-4	SS0267	2004	Q3	8/6/2004	UF	GU0408K026701	GENINORG	Magnesium		5.95	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2004	Q3	8/6/2004	UF	GU0408K026701	METALS	Aluminum		39400	ug/L			5000	ug/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	GENINORG	Chemical Oxygen Demand		485	mg/L			120	mg/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	GENINORG	Magnesium		12.3	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	METALS	Aluminum		79300	ug/L	EN		5000	ug/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	METALS	Lead		148	ug/L			126	ug/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	RAD	Gross alpha		66.4	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	GENINORG	Chemical Oxygen Demand		396	mg/L			120	mg/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	GENINORG	Magnesium		7.81	mg/L	N		0.0636	mg/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	METALS	Aluminum		49800	ug/L			5000	ug/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	METALS	Lead		265	ug/L			126	ug/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	RAD	Gross alpha		210	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2004	Q3	9/4/2004	UF	GU0409K026701	GENINORG	Chemical Oxygen Demand		142	mg/L			120	mg/L
LA-SMA-4	SS0267	2004	Q3	9/4/2004	UF	GU0409K026701	GENINORG	Magnesium		4.05	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2004	Q3	9/4/2004	UF	GU0409K026701	METALS	Aluminum		27300	ug/L			5000	ug/L
LA-SMA-4	SS0267	2004	Q3	9/4/2004	UF	GU0409K026701	RAD	Gross alpha		40.4	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2004	Q3	9/13/2004	UF	GU0409K026702	RAD	Gross alpha		46.6	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2004	Q3	9/25/2004	UF	GU0409K026703	GENINORG	Chemical Oxygen Demand		357	mg/L			120	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
LA-SMA-4	SS0267	2005	Q3	8/11/2005	UF	GU0508K026701	GENINORG	Magnesium		8.49	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2005	Q3	8/11/2005	UF	GU0508K026701	METALS	Aluminum		66700	ug/L			5000	ug/L
LA-SMA-4	SS0267	2005	Q3	8/11/2005	UF	GU0508K026701	RAD	Gross alpha		172	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2005	Q3	8/22/2005	UF	GU0508K026702	GENINORG	Magnesium		5.6	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2005	Q3	8/22/2005	UF	GU0508K026702	METALS	Aluminum		35200	ug/L			5000	ug/L
LA-SMA-4	SS0267	2005	Q3	8/22/2005	UF	GU0508K026702	RAD	Gross alpha		74.4	pCi/L		J-	15	pCi/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	GENINORG	Magnesium		19.6	mg/L	N		0.0636	mg/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	METALS	Aluminum		146000	ug/L			5000	ug/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	METALS	Arsenic		36	ug/L			24.2	ug/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	METALS	Lead		413	ug/L	E		126	ug/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	METALS	Thallium		7.5	ug/L			6.3	ug/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	METALS	Vanadium		131	ug/L			100	ug/L
LA-SMA-4	SS0267	2005	Q3	8/24/2005	UF	GU0508K026703	RAD	Gross alpha		29.8	pCi/L			15	pCi/L
LA-SMA-4	SS0267	2005	Q3	9/28/2005	UF	GU0510K026701	GENINORG	Magnesium		3.72	mg/L			0.0636	mg/L
LA-SMA-4	SS0267	2005	Q3	9/28/2005	UF	GU0510K026701	METALS	Aluminum		25500	ug/L		J	5000	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	GENINORG	Chemical Oxygen Demand		510	mg/L			120	mg/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	GENINORG	Magnesium		16.4	mg/L	N		0.0636	mg/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	METALS	Aluminum		80800	ug/L			5000	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	METALS	Lead		329	ug/L			126	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	METALS	Mercury		1.7	ug/L			0.77	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	METALS	Vanadium		139	ug/L			100	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	PEST/PCB	Aroclor-1260		0.28	ug/L			0.0017	ug/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	RAD	Gross alpha		161	pCi/L			15	pCi/L
LA-SMA-5	SS0268	2005	Q2	5/3/2005	UF	GU0505K026801	GENINORG	Magnesium		7.26	mg/L			0.0636	mg/L
LA-SMA-5	SS0268	2005	Q2	5/3/2005	UF	GU0505K026801	METALS	Aluminum		37300	ug/L		J	5000	ug/L
LA-SMA-5	SS0268	2005	Q2	5/3/2005	UF	GU0505K026801	RAD	Gross alpha		17.7	pCi/L			15	pCi/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	GENINORG	Chemical Oxygen Demand		331	mg/L			120	mg/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	GENINORG	Magnesium		7.07	mg/L			0.0636	mg/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	METALS	Aluminum		33600	ug/L			5000	ug/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	METALS	Mercury		1.3	ug/L			0.77	ug/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	RAD	Gross alpha		67.4	pCi/L			15	pCi/L
LA-SMA-5	SS0268	2005	Q3	8/4/2005	UF	GU0508K026801	RAD	Gross alpha		46.8	pCi/L		J-	15	pCi/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	GENINORG	Chemical Oxygen Demand		140	mg/L			120	mg/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	GENINORG	Magnesium		14.3	mg/L	N		0.0636	mg/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	METALS	Aluminum		73100	ug/L			5000	ug/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	METALS	Lead		269	ug/L	E		126	ug/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	METALS	Mercury		1.9	ug/L			0.77	ug/L
LA-SMA-5	SS0268	2005	Q3	8/24/2005	UF	GU0508K026803	METALS	Vanadium		117	ug/L			100	ug/L
LA-SMA-5	SS0268	2005	Q3	9/28/2005	UF	GU0510K026801	GENINORG	Magnesium		11.9	mg/L			0.0636	mg/L
LA-SMA-5	SS0268	2005	Q3	9/28/2005	UF	GU0510K026801	METALS	Aluminum		65800	ug/L		J	5000	ug/L
LA-SMA-5	SS0268	2005	Q3	9/28/2005	UF	GU0510K026801	METALS	Lead		134	ug/L			126	ug/L
LA-SMA-5	SS0268	2005	Q3	9/28/2005	UF	GU0510K026801	RAD	Gross alpha		60	pCi/L		J-	15	pCi/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	GENINORG	Chemical Oxygen Demand		233	mg/L			120 mg/L
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	GENINORG	Magnesium		6.61	mg/L			0.0636 mg/L
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	METALS	Aluminum		19500	ug/L			5000 ug/L
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	RAD	Gross alpha		888	pCi/L			15 pCi/L
LA-SMA-5.2	SS026805	2005	Q3	8/4/2005	UF	GU05082680501	GENINORG	Chemical Oxygen Demand		134	mg/L			120 mg/L
LA-SMA-5.2	SS026805	2005	Q3	8/4/2005	UF	GU05082680501	GENINORG	Magnesium		4.65	mg/L			0.0636 mg/L
LA-SMA-5.2	SS026805	2005	Q3	8/4/2005	UF	GU05082680501	METALS	Aluminum		21300	ug/L		J	5000 ug/L
LA-SMA-5.2	SS026805	2005	Q3	8/24/2005	UF	GU05082680502	GENINORG	Magnesium		10.8	mg/L			0.0636 mg/L
LA-SMA-5.2	SS026805	2005	Q3	8/24/2005	UF	GU05082680502	METALS	Aluminum		71400	ug/L			5000 ug/L
LA-SMA-5.2	SS026805	2005	Q3	8/24/2005	UF	GU05082680502	METALS	Lead		204	ug/L			126 ug/L
LA-SMA-5.2	SS026805	2005	Q3	8/24/2005	UF	GU05082680502	RAD	Gross alpha		195	pCi/L			15 pCi/L
LA-SMA-5.3	SS02681	2005	Q3	7/15/2005	UF	GU05070268101	GENINORG	Chemical Oxygen Demand		426	mg/L			120 mg/L
LA-SMA-5.3	SS02681	2005	Q3	7/15/2005	UF	GU05070268101	GENINORG	Magnesium		11.2	mg/L			0.0636 mg/L
LA-SMA-5.3	SS02681	2005	Q3	7/15/2005	UF	GU05070268101	METALS	Aluminum		23300	ug/L			5000 ug/L
LA-SMA-5.3	SS02681	2005	Q3	7/15/2005	UF	GU05070268101	METALS	Lead		192	ug/L	E		126 ug/L
LA-SMA-5.3	SS02681	2005	Q3	8/11/2005	UF	GU05080268101	GENINORG	Magnesium		2.56	mg/L			0.0636 mg/L
LA-SMA-5.3	SS02681	2005	Q3	8/11/2005	UF	GU05080268101	METALS	Aluminum		9320	ug/L			5000 ug/L
LA-SMA-5.3	SS02681	2005	Q3	8/11/2005	UF	GU05080268101	RAD	Gross alpha		32.5	pCi/L			15 pCi/L
LA-SMA-5.3	SS02681	2005	Q3	8/24/2005	UF	GU05080268102	GENINORG	Magnesium		4.22	mg/L			0.0636 mg/L
LA-SMA-5.3	SS02681	2005	Q3	8/24/2005	UF	GU05080268102	METALS	Aluminum		18000	ug/L			5000 ug/L
LA-SMA-5.3	SS02681	2005	Q3	8/24/2005	UF	GU05080268102	RAD	Gross alpha		26.1	pCi/L			15 pCi/L
LA-SMA-5.3	SS02681	2005	Q3	9/28/2005	UF	GU05100268101	GENINORG	Magnesium		7.81	mg/L			0.0636 mg/L
LA-SMA-5.3	SS02681	2005	Q3	9/28/2005	UF	GU05100268101	METALS	Aluminum		43200	ug/L			5000 ug/L
LA-SMA-5.3	SS02681	2005	Q3	9/28/2005	UF	GU05100268101	RAD	Gross alpha		82.8	pCi/L			15 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	7/15/2005	UF	GU05070268301	GENINORG	Chemical Oxygen Demand		393	mg/L			120 mg/L
LA-SMA-5.4	SS02683	2005	Q3	7/15/2005	UF	GU05070268301	GENINORG	Magnesium		14.6	mg/L			0.0636 mg/L
LA-SMA-5.4	SS02683	2005	Q3	7/15/2005	UF	GU05070268301	RAD	Gross alpha		153	pCi/L			15 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	7/20/2005	UF	GU05070268302	GENINORG	Chemical Oxygen Demand		308	mg/L			120 mg/L
LA-SMA-5.4	SS02683	2005	Q3	7/20/2005	UF	GU05070268302	GENINORG	Magnesium		3.39	mg/L			0.0636 mg/L
LA-SMA-5.4	SS02683	2005	Q3	8/8/2005	UF	GU05080268301	GENINORG	Chemical Oxygen Demand		212	mg/L			120 mg/L
LA-SMA-5.4	SS02683	2005	Q3	8/8/2005	UF	GU05080268301	GENINORG	Magnesium		12.4	mg/L	N		0.0636 mg/L
LA-SMA-5.4	SS02683	2005	Q3	8/8/2005	UF	GU05080268301	METALS	Aluminum		46100	ug/L			5000 ug/L
LA-SMA-5.4	SS02683	2005	Q3	8/16/2005	UF	GU05080268302	GENINORG	Chemical Oxygen Demand		167	mg/L			120 mg/L
LA-SMA-5.4	SS02683	2005	Q3	8/16/2005	UF	GU05080268302	GENINORG	Magnesium		5.47	mg/L			0.0636 mg/L
LA-SMA-5.4	SS02683	2005	Q3	8/16/2005	UF	GU05080268302	METALS	Aluminum		14100	ug/L			5000 ug/L
LA-SMA-5.4	SS02683	2005	Q3	8/16/2005	UF	GU05080268302	RAD	Gross alpha		44.5	pCi/L			15 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	8/24/2005	UF	GU05080268303	RAD	Gross alpha		254	pCi/L			15 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	9/28/2005	UF	GU05100268301	RAD	Gross alpha		23.8	pCi/L			15 pCi/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	GENINORG	Chemical Oxygen Demand		222	mg/L			120 mg/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	GENINORG	Magnesium		28.1	mg/L			0.0636 mg/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	METALS	Aluminum		160000	ug/L			5000 ug/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	METALS	Arsenic		35	ug/L			24.2 ug/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	METALS	Lead		495	ug/L			126	ug/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	METALS	Vanadium		192	ug/L			100	ug/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	RAD	Gross alpha		61.2	pCi/L			15	pCi/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	GENINORG	Chemical Oxygen Demand		156	mg/L			120	mg/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	GENINORG	Magnesium		5.76	mg/L			0.0636	mg/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	METALS	Aluminum		19100	ug/L			5000	ug/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	METALS	Mercury		1.9	ug/L			0.77	ug/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	RAD	Gross alpha		55.7	pCi/L			15	pCi/L
LA-SMA-6	SS0269	2004	Q3	7/27/2004	UF	GU0408K026901	GENINORG	Chemical Oxygen Demand		652	mg/L			120	mg/L
LA-SMA-6	SS0269	2004	Q3	7/27/2004	UF	GU0408K026901	GENINORG	Magnesium		10.7	mg/L	N*		0.0636	mg/L
LA-SMA-6	SS0269	2004	Q3	7/27/2004	UF	GU0408K026901	METALS	Aluminum		57800	ug/L			5000	ug/L
LA-SMA-6	SS0269	2004	Q3	7/27/2004	UF	GU0408K026901	METALS	Lead		210	ug/L			126	ug/L
LA-SMA-6	SS0269	2004	Q3	7/27/2004	UF	GU0408K026901	PEST/PCB	Aroclor-1260		0.058	ug/L	J		0.0017	ug/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	GENINORG	Magnesium		15.5	mg/L	N		0.0636	mg/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	METALS	Aluminum		104000	ug/L			5000	ug/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	METALS	Arsenic		27.4	ug/L	*		24.2	ug/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	METALS	Lead		405	ug/L			126	ug/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	RAD	Gross alpha		127	pCi/L			15	pCi/L
LA-SMA-6	SS0269	2005	Q3	8/22/2005	UF	GU0508K026901	GENINORG	Chemical Oxygen Demand		140	mg/L			120	mg/L
LA-SMA-6	SS0269	2005	Q3	8/22/2005	UF	GU0508K026901	GENINORG	Magnesium		8.37	mg/L			0.0636	mg/L
LA-SMA-6	SS0269	2005	Q3	8/22/2005	UF	GU0508K026901	METALS	Aluminum		43900	ug/L			5000	ug/L
LA-SMA-6	SS0269	2005	Q3	8/22/2005	UF	GU0508K026901	METALS	Lead		200	ug/L			126	ug/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	GENINORG	Magnesium		2.19	mg/L			0.0636	mg/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	RAD	Gross alpha		1640	pCi/L			15	pCi/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	GENINORG	Chemical Oxygen Demand		194	mg/L			120	mg/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	GENINORG	Magnesium		5.79	mg/L	*		0.0636	mg/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	METALS	Aluminum		30100	ug/L	*		5000	ug/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	METALS	Lead		159	ug/L			126	ug/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	METALS	Mercury		1.8	ug/L			0.77	ug/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	RAD	Gross alpha		161	pCi/L			15	pCi/L
LA-SMA-7	SS0290	2004	Q4	10/11/2004	UF	GU0410K029001	GENINORG	Magnesium		2.1	mg/L			0.0636	mg/L
LA-SMA-7	SS0290	2004	Q4	10/11/2004	UF	GU0410K029001	METALS	Aluminum		8220	ug/L	N		5000	ug/L
M-SMA-1	SS198	2004	Q3	8/11/2004	UF	GU04080K19801	GENINORG	Chemical Oxygen Demand		179	mg/L			120	mg/L
M-SMA-1	SS198	2004	Q3	8/11/2004	UF	GU04080K19801	GENINORG	Magnesium		3.65	mg/L			0.0636	mg/L
M-SMA-1	SS198	2004	Q3	8/11/2004	UF	GU04080K19801	METALS	Aluminum		18900	ug/L			5000	ug/L
M-SMA-1	SS198	2004	Q3	8/18/2004	UF	GU04080K19802	GENINORG	Magnesium		2.16	mg/L			0.0636	mg/L
M-SMA-1	SS198	2004	Q3	8/18/2004	UF	GU04080K19802	METALS	Aluminum		9180	ug/L			5000	ug/L
M-SMA-1	SS198	2004	Q3	8/19/2004	UF	GU04080K19803	GENINORG	Magnesium		1.73	mg/L	N		0.0636	mg/L
M-SMA-1	SS198	2004	Q3	8/19/2004	UF	GU04080K19803	METALS	Aluminum		5270	ug/L	N		5000	ug/L
M-SMA-1	SS198	2004	Q3	9/4/2004	UF	GU04090K19801	GENINORG	Magnesium		1.92	mg/L			0.0636	mg/L
M-SMA-1	SS198	2004	Q3	9/4/2004	UF	GU04090K19801	RAD	Gross alpha		25.2	pCi/L			15	pCi/L
M-SMA-10	SS2002	2005	Q4	10/3/2005	UF	GU0510K200201	GENINORG	Magnesium		4.02	mg/L			0.0636	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
M-SMA-10	SS2002	2005	Q4	10/3/2005	UF	GU0510K200201	METALS	Aluminum		11900	ug/L			5000	ug/L
M-SMA-11	SS2003	2004	Q3	7/27/2004	UF	GU0408K200301	GENINORG	Magnesium		0.375	mg/L			0.0636	mg/L
M-SMA-11	SS2003	2004	Q3	8/18/2004	UF	GU0408K200302	GENINORG	Chemical Oxygen Demand		122	mg/L			120	mg/L
M-SMA-11	SS2003	2004	Q3	8/18/2004	UF	GU0408K200302	GENINORG	Magnesium		1.95	mg/L	N		0.0636	mg/L
M-SMA-11	SS2003	2004	Q3	8/18/2004	UF	GU0408K200302	METALS	Aluminum		13200	ug/L			5000	ug/L
M-SMA-11	SS2003	2004	Q3	8/20/2004	UF	GU0408K200303	GENINORG	Chemical Oxygen Demand		205	mg/L			120	mg/L
M-SMA-11	SS2003	2004	Q3	8/20/2004	UF	GU0408K200303	GENINORG	Magnesium		2.13	mg/L			0.0636	mg/L
M-SMA-11	SS2003	2004	Q3	8/20/2004	UF	GU0408K200303	METALS	Aluminum		15600	ug/L	N		5000	ug/L
M-SMA-11	SS2003	2004	Q3	8/20/2004	UF	GU0408K200303	RAD	Gross alpha		96	pCi/L			15	pCi/L
M-SMA-11	SS2003	2004	Q3	9/4/2004	UF	GU0409K200301	GENINORG	Chemical Oxygen Demand		253	mg/L			120	mg/L
M-SMA-11	SS2003	2004	Q3	9/4/2004	UF	GU0409K200301	GENINORG	Magnesium		2.32	mg/L			0.0636	mg/L
M-SMA-11	SS2003	2004	Q3	9/4/2004	UF	GU0409K200301	METALS	Aluminum		15900	ug/L			5000	ug/L
M-SMA-11	SS2003	2004	Q3	9/4/2004	UF	GU0409K200301	RAD	Gross alpha		26.7	pCi/L			15	pCi/L
M-SMA-11	SS2003	2004	Q3	9/27/2004	UF	GU0409K200303	GENINORG	Chemical Oxygen Demand		218	mg/L			120	mg/L
M-SMA-11	SS2003	2004	Q3	9/27/2004	UF	GU0409K200303	GENINORG	Magnesium		0.775	mg/L			0.0636	mg/L
M-SMA-11	SS2003	2004	Q3	9/27/2004	UF	GU0409K200303	RAD	Gross alpha		141	pCi/L			15	pCi/L
M-SMA-11	SS2003	2004	Q4	10/5/2004	UF	GU0410K200302	RAD	Gross alpha		26.2	pCi/L			15	pCi/L
M-SMA-11	SS2003	2005	Q3	7/15/2005	UF	GU0507K200301	RAD	Gross alpha		21.4	pCi/L			15	pCi/L
M-SMA-11	SS2003	2005	Q3	8/22/2005	UF	GU0508K200302	RAD	Gross alpha		22.3	pCi/L			15	pCi/L
M-SMA-11	SS2003	2005	Q3	8/24/2005	UF	GU0508K200303	RAD	Gross alpha		33	pCi/L			15	pCi/L
M-SMA-12	SS2004	2004	Q4	10/11/2004	UF	GU0410K200401	GENINORG	Chemical Oxygen Demand		124	mg/L			120	mg/L
M-SMA-12	SS2004	2004	Q4	10/11/2004	UF	GU0410K200401	GENINORG	Magnesium		2.73	mg/L			0.0636	mg/L
M-SMA-12	SS2004	2004	Q4	10/11/2004	UF	GU0410K200401	METALS	Aluminum		15200	ug/L	N		5000	ug/L
M-SMA-12	SS2004	2005	Q3	8/12/2005	UF	GU0508K200401	GENINORG	Magnesium		2.03	mg/L			0.0636	mg/L
M-SMA-12	SS2004	2005	Q3	8/12/2005	UF	GU0508K200401	METALS	Aluminum		7380	ug/L			5000	ug/L
M-SMA-12	SS2004	2005	Q3	8/23/2005	UF	GU0508K200402	GENINORG	Magnesium		1.67	mg/L			0.0636	mg/L
M-SMA-12	SS2004	2005	Q3	8/23/2005	UF	GU0508K200402	METALS	Aluminum		8000	ug/L			5000	ug/L
M-SMA-12	SS2004	2005	Q3	8/24/2005	UF	GU0508K200403	GENINORG	Magnesium		2.6	mg/L			0.0636	mg/L
M-SMA-12	SS2004	2005	Q3	8/24/2005	UF	GU0508K200403	METALS	Aluminum		10800	ug/L			5000	ug/L
M-SMA-13	SS205	2004	Q3	7/27/2004	UF	GU04080K20501	GENINORG	Magnesium		12	mg/L			0.0636	mg/L
M-SMA-13	SS205	2004	Q3	7/27/2004	UF	GU04080K20501	METALS	Lead		127	ug/L			126	ug/L
M-SMA-13	SS205	2004	Q3	8/15/2004	UF	GU04080K20502	GENINORG	Chemical Oxygen Demand		2670	mg/L			120	mg/L
M-SMA-13	SS205	2004	Q3	8/15/2004	UF	GU04080K20502	GENINORG	Magnesium		11.1	mg/L			0.0636	mg/L
M-SMA-13	SS205	2004	Q3	8/15/2004	UF	GU04080K20502	METALS	Lead		217	ug/L			126	ug/L
M-SMA-13	SS205	2004	Q3	8/15/2004	UF	GU04080K20502	RAD	Gross alpha		50.3	pCi/L			15	pCi/L
M-SMA-13	SS205	2004	Q3	8/19/2004	UF	GU04080K20503	GENINORG	Magnesium		17.9	mg/L	N		0.0636	mg/L
M-SMA-13	SS205	2004	Q3	8/19/2004	UF	GU04080K20503	METALS	Lead		255	ug/L			126	ug/L
M-SMA-13	SS205	2004	Q3	8/19/2004	UF	GU04080K20503	RAD	Gross alpha		604	pCi/L			15	pCi/L
M-SMA-13	SS205	2004	Q3	8/20/2004	UF	GU04080K20504	GENINORG	Chemical Oxygen Demand		879	mg/L			120	mg/L
M-SMA-13	SS205	2004	Q3	8/20/2004	UF	GU04080K20504	GENINORG	Magnesium		18.1	mg/L	N		0.0636	mg/L
M-SMA-13	SS205	2004	Q3	8/20/2004	UF	GU04080K20504	METALS	Lead		159	ug/L			126	ug/L
M-SMA-13	SS205	2004	Q3	8/20/2004	UF	GU04080K20504	RAD	Gross alpha		84.4	pCi/L			15	pCi/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
M-SMA-13	SS205	2004	Q3	9/25/2004	UF	GU04090K20501	GENINORG	Chemical Oxygen Demand		237	mg/L			120	mg/L
M-SMA-13	SS205	2004	Q3	9/25/2004	UF	GU04090K20501	GENINORG	Magnesium		12.5	mg/L			0.0636	mg/L
M-SMA-13	SS205	2004	Q3	9/25/2004	UF	GU04090K20501	RAD	Gross alpha		119	pCi/L			15	pCi/L
M-SMA-13	SS205	2005	Q3	8/12/2005	UF	GU05080K20501	GENINORG	Magnesium		7.44	mg/L			0.0636	mg/L
M-SMA-13	SS205	2005	Q3	8/12/2005	UF	GU05080K20501	METALS	Aluminum		50700	ug/L		J	5000	ug/L
M-SMA-13	SS205	2005	Q3	8/24/2005	UF	GU05080K20502	GENINORG	Magnesium		8.82	mg/L			0.0636	mg/L
M-SMA-13	SS205	2005	Q3	8/24/2005	UF	GU05080K20502	METALS	Aluminum		50800	ug/L			5000	ug/L
M-SMA-13	SS205	2005	Q3	8/24/2005	UF	GU05080K20502	RAD	Gross alpha		2290	pCi/L			15	pCi/L
M-SMA-13	SS205	2005	Q4	10/3/2005	UF	GU05100K20501	GENINORG	Magnesium		0.947	mg/L			0.0636	mg/L
M-SMA-2	SS1984	2004	Q3	7/27/2004	UF	GU0408K198401	GENINORG	Magnesium		14.2	mg/L	E		0.0636	mg/L
M-SMA-2	SS1984	2004	Q3	7/27/2004	UF	GU0408K198401	METALS	Aluminum		87000	ug/L			5000	ug/L
M-SMA-2	SS1984	2004	Q3	7/27/2004	UF	GU0408K198401	METALS	Vanadium		116	ug/L			100	ug/L
M-SMA-2	SS1984	2004	Q3	7/27/2004	UF	GU0408K198401	RAD	Gross alpha		66	pCi/L			15	pCi/L
M-SMA-2	SS1984	2004	Q3	8/19/2004	UF	GU0408K198402	GENINORG	Chemical Oxygen Demand		123	mg/L			120	mg/L
M-SMA-2	SS1984	2004	Q3	8/19/2004	UF	GU0408K198402	GENINORG	Magnesium		5.75	mg/L	N		0.0636	mg/L
M-SMA-2	SS1984	2004	Q3	8/19/2004	UF	GU0408K198402	METALS	Aluminum		37100	ug/L			5000	ug/L
M-SMA-2	SS1984	2004	Q3	8/19/2004	UF	GU0408K198402	RAD	Gross alpha		42.3	pCi/L			15	pCi/L
M-SMA-2	SS1984	2005	Q3	8/22/2005	UF	GU0508K198401	GENINORG	Magnesium		10.9	mg/L			0.0636	mg/L
M-SMA-2	SS1984	2005	Q3	8/22/2005	UF	GU0508K198401	METALS	Aluminum		73100	ug/L			5000	ug/L
M-SMA-2	SS1984	2005	Q3	8/24/2005	UF	GU0508K198402	GENINORG	Chemical Oxygen Demand		171	mg/L			120	mg/L
M-SMA-2	SS1984	2005	Q3	8/24/2005	UF	GU0508K198402	GENINORG	Magnesium		9.5	mg/L			0.0636	mg/L
M-SMA-2	SS1984	2005	Q3	8/24/2005	UF	GU0508K198402	METALS	Aluminum		67600	ug/L			5000	ug/L
M-SMA-2	SS1984	2005	Q3	8/25/2005	UF	GU0508K198403	GENINORG	Magnesium		4.38	mg/L			0.0636	mg/L
M-SMA-2	SS1984	2005	Q3	8/25/2005	UF	GU0508K198403	METALS	Aluminum		25900	ug/L	N*		5000	ug/L
M-SMA-2	SS1984	2005	Q3	8/25/2005	UF	GU0508K198403	RAD	Gross alpha		25	pCi/L			15	pCi/L
M-SMA-2	SS1984	2005	Q3	9/28/2005	UF	GU0509K198401	GENINORG	Magnesium		4.35	mg/L			0.0636	mg/L
M-SMA-2	SS1984	2005	Q3	9/28/2005	UF	GU0509K198401	METALS	Aluminum		33800	ug/L		J	5000	ug/L
M-SMA-3	SS1985	2004	Q3	7/27/2004	UF	GU0408K198501	GENINORG	Magnesium		6.91	mg/L	E		0.0636	mg/L
M-SMA-3	SS1985	2004	Q3	7/27/2004	UF	GU0408K198501	METALS	Aluminum		40400	ug/L			5000	ug/L
M-SMA-3	SS1985	2004	Q3	7/27/2004	UF	GU0408K198501	RAD	Gross alpha		112	pCi/L			15	pCi/L
M-SMA-3	SS1985	2004	Q3	8/19/2004	UF	GU0408K198502	GENINORG	Chemical Oxygen Demand		508	mg/L			120	mg/L
M-SMA-3	SS1985	2004	Q3	8/19/2004	UF	GU0408K198502	GENINORG	Magnesium		6.3	mg/L	N		0.0636	mg/L
M-SMA-3	SS1985	2004	Q3	8/19/2004	UF	GU0408K198502	METALS	Aluminum		34600	ug/L			5000	ug/L
M-SMA-3	SS1985	2004	Q3	8/19/2004	UF	GU0408K198502	RAD	Gross alpha		89.4	pCi/L			15	pCi/L
M-SMA-3	SS1985	2004	Q3	9/27/2004	UF	GU0409K198501	GENINORG	Chemical Oxygen Demand		161	mg/L			120	mg/L
M-SMA-3	SS1985	2004	Q3	9/27/2004	UF	GU0409K198501	GENINORG	Magnesium		3.82	mg/L			0.0636	mg/L
M-SMA-3	SS1985	2004	Q3	9/27/2004	UF	GU0409K198501	METALS	Aluminum		22600	ug/L			5000	ug/L
M-SMA-3	SS1985	2004	Q3	9/27/2004	UF	GU0409K198501	RAD	Gross alpha		36.1	pCi/L			15	pCi/L
M-SMA-3	SS1985	2005	Q3	7/15/2005	UF	GU0507K198501	GENINORG	Magnesium		1.4	mg/L			0.0636	mg/L
M-SMA-3	SS1985	2005	Q3	7/15/2005	UF	GU0507K198501	RAD	Gross alpha		21.4	pCi/L			15	pCi/L
M-SMA-4	SS1987	2004	Q3	7/27/2004	UF	GU0408K198701	GENINORG	Magnesium		3.19	mg/L	E		0.0636	mg/L
M-SMA-4	SS1987	2004	Q3	7/27/2004	UF	GU0408K198701	METALS	Aluminum		12500	ug/L			5000	ug/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
M-SMA-4	SS1987	2004	Q3	7/27/2004	UF	GU0408K198701	RAD	Gross alpha		36.6	pCi/L			15	pCi/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	GENINORG	Chemical Oxygen Demand		430	mg/L			120	mg/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	GENINORG	Magnesium		10.2	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	METALS	Aluminum		56400	ug/L			5000	ug/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	METALS	Lead		165	ug/L	E		126	ug/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	RAD	Gross alpha		65	pCi/L			15	pCi/L
M-SMA-4	SS1987	2004	Q3	8/19/2004	UF	GU0408K198703	GENINORG	Magnesium		2.26	mg/L	N		0.0636	mg/L
M-SMA-4	SS1987	2004	Q3	8/19/2004	UF	GU0408K198703	METALS	Aluminum		10100	ug/L			5000	ug/L
M-SMA-4	SS1987	2004	Q3	9/27/2004	UF	GU0409K198701	GENINORG	Magnesium		1.96	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2004	Q3	9/27/2004	UF	GU0409K198701	METALS	Aluminum		6740	ug/L			5000	ug/L
M-SMA-4	SS1987	2004	Q4	10/3/2004	UF	GU0410K198701	GENINORG	Magnesium		1.78	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2005	Q3	7/15/2005	UF	GU0507K198701	GENINORG	Magnesium		1.08	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2005	Q3	7/15/2005	UF	GU0507K198701	RAD	Gross alpha		42	pCi/L			15	pCi/L
M-SMA-4	SS1987	2005	Q3	8/4/2005	UF	GU0508K198701	GENINORG	Magnesium		1.61	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2005	Q3	8/12/2005	UF	GU0508K198702	RAD	Gross alpha		15.2	pCi/L			15	pCi/L
M-SMA-4	SS1987	2005	Q3	8/22/2005	UF	GU0508K198703	GENINORG	Magnesium		3.48	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2005	Q3	8/22/2005	UF	GU0508K198703	METALS	Aluminum		16900	ug/L			5000	ug/L
M-SMA-4	SS1987	2005	Q3	8/24/2005	UF	GU0508K198704	GENINORG	Magnesium		4.87	mg/L			0.0636	mg/L
M-SMA-4	SS1987	2005	Q3	8/24/2005	UF	GU0508K198704	METALS	Aluminum		31100	ug/L			5000	ug/L
M-SMA-4	SS1987	2005	Q3	8/25/2005	UF	GU0508K198705	RAD	Gross alpha		21.2	pCi/L			15	pCi/L
M-SMA-5	SS199	2004	Q3	7/27/2004	UF	GU04080K19901	GENINORG	Chemical Oxygen Demand		130	mg/L			120	mg/L
M-SMA-5	SS199	2004	Q3	8/19/2004	UF	GU04080K19903	GENINORG	Chemical Oxygen Demand		127	mg/L			120	mg/L
M-SMA-5	SS199	2004	Q3	8/19/2004	UF	GU04080K19903	GENINORG	Magnesium		8.24	mg/L	N		0.0636	mg/L
M-SMA-5	SS199	2004	Q3	8/19/2004	UF	GU04080K19903	METALS	Aluminum		46600	ug/L			5000	ug/L
M-SMA-5	SS199	2004	Q3	9/27/2004	UF	GU04090K19902	GENINORG	Chemical Oxygen Demand		429	mg/L			120	mg/L
M-SMA-5	SS199	2004	Q3	9/27/2004	UF	GU04090K19902	GENINORG	Magnesium		6.98	mg/L			0.0636	mg/L
M-SMA-5	SS199	2004	Q3	9/27/2004	UF	GU04090K19902	METALS	Aluminum		44200	ug/L			5000	ug/L
M-SMA-5	SS199	2004	Q3	9/27/2004	UF	GU04090K19902	RAD	Gross alpha		202	pCi/L			15	pCi/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	GENINORG	Chemical Oxygen Demand		410	mg/L			120	mg/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	GENINORG	Cyanide, Amenable		0.006	mg/L			0.0052	mg/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	GENINORG	Magnesium		5.65	mg/L			0.0636	mg/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	METALS	Aluminum		34800	ug/L	N		5000	ug/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	RAD	Gross alpha		237	pCi/L			15	pCi/L
M-SMA-5	SS199	2004	Q4	10/11/2004	UF	GU04100K19902	GENINORG	Magnesium		1.91	mg/L			0.0636	mg/L
M-SMA-5	SS199	2004	Q4	10/11/2004	UF	GU04100K19902	METALS	Aluminum		12600	ug/L	N		5000	ug/L
M-SMA-5	SS199	2005	Q3	8/22/2005	UF	GU05080K19902	RAD	Gross alpha		37.9	pCi/L			15	pCi/L
M-SMA-5	SS199	2005	Q3	8/24/2005	UF	GU05080K19903	RAD	Gross alpha		114	pCi/L			15	pCi/L
M-SMA-6	SS1991	2004	Q3	8/11/2004	UF	GU0408K199101	GENINORG	Chemical Oxygen Demand		408	mg/L			120	mg/L
M-SMA-6	SS1991	2004	Q3	8/11/2004	UF	GU0408K199101	GENINORG	Magnesium		9.02	mg/L			0.0636	mg/L
M-SMA-6	SS1991	2004	Q3	8/11/2004	UF	GU0408K199101	METALS	Aluminum		46900	ug/L			5000	ug/L
M-SMA-6	SS1991	2004	Q3	8/11/2004	UF	GU0408K199101	RAD	Gross alpha		49	pCi/L			15	pCi/L
M-SMA-6	SS1991	2004	Q3	8/13/2004	UF	GU0408K199102	GENINORG	Chemical Oxygen Demand		134	mg/L			120	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
M-SMA-6	SS1991	2004	Q3	8/13/2004	UF	GU0408K199102	GENINORG	Magnesium		1.62	mg/L			0.0636	mg/L
M-SMA-6	SS1991	2004	Q3	8/13/2004	UF	GU0408K199102	METALS	Aluminum		7690	ug/L	EN		5000	ug/L
M-SMA-6	SS1991	2004	Q3	8/18/2004	UF	GU0408K199103	GENINORG	Chemical Oxygen Demand		246	mg/L			120	mg/L
M-SMA-6	SS1991	2004	Q3	8/18/2004	UF	GU0408K199103	GENINORG	Magnesium		5.63	mg/L			0.0636	mg/L
M-SMA-6	SS1991	2004	Q3	8/18/2004	UF	GU0408K199103	METALS	Aluminum		31700	ug/L			5000	ug/L
M-SMA-6	SS1991	2004	Q3	8/18/2004	UF	GU0408K199103	RAD	Gross alpha		56	pCi/L			15	pCi/L
M-SMA-6	SS1991	2004	Q3	8/19/2004	UF	GU0408K199104	GENINORG	Chemical Oxygen Demand		231	mg/L			120	mg/L
M-SMA-6	SS1991	2004	Q3	8/19/2004	UF	GU0408K199104	GENINORG	Magnesium		3.85	mg/L	N		0.0636	mg/L
M-SMA-6	SS1991	2004	Q3	8/19/2004	UF	GU0408K199104	METALS	Aluminum		22400	ug/L	N		5000	ug/L
M-SMA-6	SS1991	2004	Q3	8/19/2004	UF	GU0408K199104	RAD	Gross alpha		17.2	pCi/L			15	pCi/L
M-SMA-8	E200	2004	Q3	7/27/2004	UF	GU04070E20001	GENINORG	Magnesium		2.76	mg/L			0.0636	mg/L
M-SMA-8	E200	2004	Q3	7/27/2004	UF	GU04070E20001	METALS	Aluminum		13300	ug/L			5000	ug/L
M-SMA-8	E200	2004	Q3	7/27/2004	UF	GU04070E20001	RAD	Gross alpha		26.8	pCi/L			15	pCi/L
M-SMA-8	E200	2004	Q3	8/11/2004	UF	GU04080E20001	GENINORG	Chemical Oxygen Demand		245	mg/L			120	mg/L
M-SMA-8	E200	2004	Q3	8/11/2004	UF	GU04080E20001	GENINORG	Magnesium		5.63	mg/L			0.0636	mg/L
M-SMA-8	E200	2004	Q3	8/11/2004	UF	GU04080E20001	METALS	Aluminum		31300	ug/L			5000	ug/L
M-SMA-8	E200	2004	Q3	8/11/2004	UF	GU04080E20001	RAD	Gross alpha		39.4	pCi/L			15	pCi/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	GENINORG	Chemical Oxygen Demand		243	mg/L			120	mg/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	GENINORG	Magnesium		7.14	mg/L			0.0636	mg/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	METALS	Aluminum		42300	ug/L	E		5000	ug/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Gross alpha		751	pCi/L			15	pCi/L
M-SMA-8	E200	2004	Q3	8/20/2004	UF	GU04080E20003	GENINORG	Magnesium		3.53	mg/L			0.0636	mg/L
M-SMA-8	E200	2004	Q3	8/20/2004	UF	GU04080E20003	METALS	Aluminum		14300	ug/L			5000	ug/L
M-SMA-8	E200	2004	Q3	8/20/2004	UF	GU04080E20003	RAD	Gross alpha		74	pCi/L			15	pCi/L
M-SMA-8	E200	2005	Q2	4/24/2005	UF	GU05040E20001	GENINORG	Magnesium		6.66	mg/L			0.0636	mg/L
M-SMA-8	E200	2005	Q2	4/24/2005	UF	GU05040E20001	METALS	Aluminum		45200	ug/L			5000	ug/L
M-SMA-8	E200	2005	Q2	4/24/2005	UF	GU05040E20001	RAD	Gross alpha		29.7	pCi/L		J	15	pCi/L
M-SMA-8	E200	2005	Q2	5/3/2005	UF	GU05050E20001	GENINORG	Magnesium		5.21	mg/L			0.0636	mg/L
M-SMA-8	E200	2005	Q2	5/3/2005	UF	GU05050E20001	METALS	Aluminum		36400	ug/L			5000	ug/L
M-SMA-8	E200	2005	Q2	5/3/2005	UF	GU05050E20001	PEST/PCB	Aroclor-1254		0.22	ug/L			0.0017	ug/L
M-SMA-8	E200	2005	Q2	5/3/2005	UF	GU05050E20001	RAD	Gross alpha		96.8	pCi/L			15	pCi/L
M-SMA-8	E200	2005	Q3	7/15/2005	UF	GU05070E20001	GENINORG	Magnesium		7.6	mg/L	N		0.0636	mg/L
M-SMA-8	E200	2005	Q3	7/15/2005	UF	GU05070E20001	METALS	Aluminum		19500	ug/L	N*		5000	ug/L
M-SMA-8	E200	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Gross alpha		232	pCi/L			15	pCi/L
M-SMA-8	E200	2005	Q3	7/20/2005	UF	GU05070E20002	GENINORG	Magnesium		7.82	mg/L			0.0636	mg/L
M-SMA-8	E200	2005	Q3	7/20/2005	UF	GU05070E20002	METALS	Aluminum		46400	ug/L			5000	ug/L
M-SMA-8	E200	2005	Q3	7/20/2005	UF	GU05070E20002	RAD	Gross alpha		57.9	pCi/L			15	pCi/L
M-SMA-9	SS2001	2004	Q3	7/27/2004	UF	GU0408K200101	GENINORG	Chemical Oxygen Demand		149	mg/L			120	mg/L
M-SMA-9	SS2001	2004	Q3	7/27/2004	UF	GU0408K200101	GENINORG	Magnesium		2.33	mg/L			0.0636	mg/L
M-SMA-9	SS2001	2004	Q3	7/27/2004	UF	GU0408K200101	METALS	Aluminum		12000	ug/L			5000	ug/L
M-SMA-9	SS2001	2004	Q3	8/18/2004	UF	GU0408K200102	GENINORG	Magnesium		2.33	mg/L	N		0.0636	mg/L
M-SMA-9	SS2001	2004	Q3	8/18/2004	UF	GU0408K200102	METALS	Aluminum		12800	ug/L			5000	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL
M-SMA-9	SS2001	2004	Q3	8/18/2004	UF	GU0408K200102	RAD	Gross alpha		62.5	pCi/L			15 pCi/L
M-SMA-9	SS2001	2004	Q3	9/7/2004	UF	GU0409K200101	GENINORG	Magnesium		9.95	mg/L			0.0636 mg/L
M-SMA-9	SS2001	2004	Q3	9/7/2004	UF	GU0409K200101	METALS	Aluminum		57400	ug/L			5000 ug/L
M-SMA-9	SS2001	2004	Q3	9/27/2004	UF	GU0409K200102	GENINORG	Chemical Oxygen Demand		184	mg/L			120 mg/L
M-SMA-9	SS2001	2004	Q3	9/27/2004	UF	GU0409K200102	GENINORG	Magnesium		2.02	mg/L			0.0636 mg/L
M-SMA-9	SS2001	2004	Q3	9/27/2004	UF	GU0409K200102	METALS	Aluminum		11700	ug/L			5000 ug/L
M-SMA-9	SS2001	2004	Q3	9/27/2004	UF	GU0409K200102	RAD	Gross alpha		41.4	pCi/L			15 pCi/L
M-SMA-9	SS2001	2004	Q4	10/5/2004	UF	GU0410K200101	RAD	Gross alpha		35.8	pCi/L			15 pCi/L
M-SMA-9	SS2001	2004	Q4	10/11/2004	UF	GU0410K200102	RAD	Gross alpha		18	pCi/L			15 pCi/L
PJ-SMA-1	SS2405	2005	Q3	7/18/2005	UF	GU0507K240501	GENINORG	Chemical Oxygen Demand		164	mg/L			120 mg/L
PJ-SMA-1	SS2405	2005	Q3	7/18/2005	UF	GU0507K240501	GENINORG	Magnesium		1.43	mg/L			0.0636 mg/L
PJ-SMA-1	SS2405	2005	Q3	8/4/2005	UF	GU0508K240501	GENINORG	Magnesium		1.25	mg/L			0.0636 mg/L
PJ-SMA-1	SS2405	2005	Q3	8/6/2005	UF	GU0508K240502	GENINORG	Magnesium		1.32	mg/L			0.0636 mg/L
PJ-SMA-1	SS2405	2005	Q3	8/6/2005	UF	GU0508K240502	METALS	Aluminum		6480	ug/L		J	5000 ug/L
PJ-SMA-1	SS2405	2005	Q3	8/12/2005	UF	GU0508K240503	GENINORG	Magnesium		3.67	mg/L			0.0636 mg/L
PJ-SMA-1	SS2405	2005	Q3	8/12/2005	UF	GU0508K240503	METALS	Aluminum		13400	ug/L			5000 ug/L
PJ-SMA-1	SS2405	2005	Q3	8/24/2005	UF	GU0508K240504	GENINORG	Chemical Oxygen Demand		282	mg/L			120 mg/L
PJ-SMA-15	E249.5	2004	Q1	2/25/2004	UF	GU0402E249501	GENINORG	Magnesium		2.14	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q2	4/2/2004	UF	GU0404E248502	GENINORG	Magnesium		4.93	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q2	4/2/2004	UF	GU0404E248502	METALS	Aluminum		20600	ug/L	E		5000 ug/L
PJ-SMA-15	E249.5	2004	Q2	6/25/2004	UF	GU0406E249501	GENINORG	Chemical Oxygen Demand		461	mg/L			120 mg/L
PJ-SMA-15	E248.5	2004	Q3	7/24/2004	UF	GU0407E248501	GENINORG	Magnesium		3.78	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q3	7/24/2004	UF	GU0407E248501	METALS	Aluminum		9340	ug/L			5000 ug/L
PJ-SMA-15	E249.5	2004	Q3	7/27/2004	UF	GU0407E249501	GENINORG	Magnesium		1.22	mg/L			0.0636 mg/L
PJ-SMA-15	E249.5	2004	Q3	8/10/2004	UF	GU0408E249502	GENINORG	Magnesium		3.47	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q3	8/10/2004	UF	GU0408E248501	RAD	Gross alpha		132	pCi/L			15 pCi/L
PJ-SMA-15	E249	2004	Q3	8/10/2004	UF	GU04080E24901	GENINORG	Chemical Oxygen Demand		387	mg/L			120 mg/L
PJ-SMA-15	E249	2004	Q3	8/10/2004	UF	GU04080E24901	GENINORG	Magnesium		2.84	mg/L			0.0636 mg/L
PJ-SMA-15	E249	2004	Q3	8/10/2004	UF	GU04080E24901	METALS	Aluminum		5150	ug/L			5000 ug/L
PJ-SMA-15	E249.5	2004	Q3	8/11/2004	UF	GU0408E249503	GENINORG	Magnesium		1.83	mg/L			0.0636 mg/L
PJ-SMA-15	E249.5	2004	Q3	8/18/2004	UF	GU0408E249504	GENINORG	Magnesium		1.09	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q3	9/25/2004	UF	GU0409E248501	GENINORG	Magnesium		2.37	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2004	Q3	9/25/2004	UF	GU0409E248501	METALS	Aluminum		11700	ug/L	N*		5000 ug/L
PJ-SMA-15	E249.5	2005	Q2	4/16/2005	UF	GU0504E249501	RAD	Gross alpha		19.1	pCi/L			15 pCi/L
PJ-SMA-15	E248.5	2005	Q2	4/24/2005	UF	GU0504E248501	GENINORG	Magnesium		3.59	mg/L			0.0636 mg/L
PJ-SMA-15	E248.5	2005	Q2	4/24/2005	UF	GU0504E248501	METALS	Aluminum		12500	ug/L	N*	J+	5000 ug/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	GENINORG	Magnesium		19.1	mg/L	N		0.0636 mg/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	METALS	Aluminum		19700	ug/L	N*		5000 ug/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	PEST/PCB	Aroclor-1254		0.11	ug/L			0.0017 ug/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	PEST/PCB	Aroclor-1260		0.095	ug/L	J		0.0017 ug/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	RAD	Gross alpha		84.3	pCi/L			15 pCi/L
PJ-SMA-15	E248.5	2005	Q3	8/5/2005	UF	GU0508E248501	GENINORG	Magnesium		6.02	mg/L			0.0636 mg/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
PJ-SMA-15	E248.5	2005	Q3	8/5/2005	UF	GU0508E248501	METALS	Aluminum		15400	ug/L		J	5000	ug/L
PJ-SMA-15	E248.5	2005	Q3	8/12/2005	UF	GU0508E248502	GENINORG	Magnesium		3.71	mg/L			0.0636	mg/L
PJ-SMA-15	E248.5	2005	Q3	8/12/2005	UF	GU0508E248502	METALS	Aluminum		13200	ug/L		J	5000	ug/L
PJ-SMA-15	E248	2005	Q3	8/12/2005	UF	GU05080E24801	RAD	Gross alpha		39.1	pCi/L			15	pCi/L
PJ-SMA-15	E248	2005	Q3	9/28/2005	UF	GU05090E24801	RAD	Gross alpha		49	pCi/L		J-	15	pCi/L
PJ-SMA-15	E248.5	2005	Q4	10/9/2005	UF	GU0510E248501	RAD	Gross alpha		85.7	pCi/L			15	pCi/L
PJ-SMA-15	E248	2005	Q4	10/9/2005	UF	GU05100E24801	RAD	Gross alpha		110	pCi/L			15	pCi/L
PJ-SMA-4	SS24253	2005	Q2	4/16/2005	UF	GU05040KPS401	GENINORG	Magnesium		15.9	mg/L		J	0.0636	mg/L
PJ-SMA-4	SS24253	2005	Q2	4/16/2005	UF	GU05040KPS401	METALS	Aluminum		114000	ug/L		J	5000	ug/L
PJ-SMA-4	SS24253	2005	Q2	4/16/2005	UF	GU05040KPS401	METALS	Vanadium		121	ug/L		J	100	ug/L
PJ-SMA-4	SS24253	2005	Q2	4/24/2005	UF	GU05040KPS402	GENINORG	Magnesium		3.4	mg/L		J	0.0636	mg/L
PJ-SMA-4	SS24253	2005	Q2	4/24/2005	UF	GU05040KPS402	METALS	Aluminum		20900	ug/L		J	5000	ug/L
PJ-SMA-4	SS24253	2005	Q2	5/3/2005	UF	GU05050KPS401	GENINORG	Magnesium		8.51	mg/L			0.0636	mg/L
PJ-SMA-4	SS24253	2005	Q2	5/3/2005	UF	GU05050KPS401	METALS	Aluminum		55200	ug/L		J	5000	ug/L
PJ-SMA-4	SS24253	2005	Q2	5/3/2005	UF	GU05050KPS401	RAD	Gross alpha		21.4	pCi/L			15	pCi/L
PJ-SMA-4	SS24253	2005	Q2	5/27/2005	UF	GU05050KPS402	RAD	Gross alpha		24.8	pCi/L			15	pCi/L
PJ-SMA-4	SS24253	2005	Q3	7/18/2005	UF	GU05070KPS401	GENINORG	Magnesium		4.77	mg/L			0.0636	mg/L
PJ-SMA-4	SS24253	2005	Q3	7/18/2005	UF	GU05070KPS401	METALS	Aluminum		14600	ug/L	N*	J+	5000	ug/L
PJ-SMA-4	SS24253	2005	Q3	8/4/2005	UF	GU05080KPS401	RAD	Gross alpha		87.7	pCi/L		J-	15	pCi/L
PJ-SMA-7	SS24210	2005	Q3	7/15/2005	UF	GU05072421001	GENINORG	Chemical Oxygen Demand		231	mg/L			120	mg/L
PJ-SMA-7	SS24210	2005	Q3	7/15/2005	UF	GU05072421001	GENINORG	Magnesium		4.03	mg/L			0.0636	mg/L
PJ-SMA-7	SS24210	2005	Q3	7/15/2005	UF	GU05072421001	METALS	Aluminum		21000	ug/L	N*	J+	5000	ug/L
PJ-SMA-7	SS24210	2005	Q3	7/15/2005	UF	GU05072421001	RAD	Gross alpha		366	pCi/L			15	pCi/L
PJ-SMA-7	SS24210	2005	Q3	8/4/2005	UF	GU05082421001	GENINORG	Magnesium		1.72	mg/L	N		0.0636	mg/L
PJ-SMA-7	SS24210	2005	Q3	8/4/2005	UF	GU05082421001	METALS	Aluminum		6490	ug/L			5000	ug/L
PJ-SMA-7	SS24210	2005	Q3	8/4/2005	UF	GU05082421001	RAD	Gross alpha		192	pCi/L		J-	15	pCi/L
PJ-SMA-7	SS24210	2005	Q3	8/12/2005	UF	GU05082421002	GENINORG	Magnesium		1.08	mg/L			0.0636	mg/L
PJ-SMA-7	SS24210	2005	Q3	8/12/2005	UF	GU05082421002	RAD	Gross alpha		68.7	pCi/L			15	pCi/L
PJ-SMA-7	SS24210	2005	Q3	8/24/2005	UF	GU05082421003	GENINORG	Magnesium		1.58	mg/L			0.0636	mg/L
PJ-SMA-7	SS24210	2005	Q3	8/24/2005	UF	GU05082421003	METALS	Aluminum		7680	ug/L			5000	ug/L
PJ-SMA-7	SS24210	2005	Q3	8/24/2005	UF	GU05082421003	RAD	Gross alpha		270	pCi/L			15	pCi/L
PJ-SMA-E250	E250	2005	Q1	3/23/2005	UF	GU05030M25001	GENINORG	Magnesium		6.58	mg/L			0.0636	mg/L
PJ-SMA-E250	E250	2005	Q3	8/12/2005	UF	GU05080E25001	GENINORG	Magnesium		6.18	mg/L			0.0636	mg/L
PJ-SMA-E250	E250	2005	Q3	8/12/2005	UF	GU05080E25001	METALS	Aluminum		17300	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	GENINORG	Chemical Oxygen Demand		349	mg/L			120	mg/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	GENINORG	Magnesium		19.4	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	METALS	Aluminum		79300	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	METALS	Vanadium		137	ug/L			100	ug/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	RAD	Gross alpha		58.9	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2004	Q3	8/11/2004	UF	GU04082014202	GENINORG	Magnesium		22.8	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2004	Q3	8/11/2004	UF	GU04082014202	METALS	Aluminum		122000	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/11/2004	UF	GU04082014202	METALS	Vanadium		150	ug/L			100	ug/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	GENINORG	Magnesium		24.3	mg/L	N		0.0636	mg/L
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	METALS	Aluminum		125000	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	METALS	Arsenic		28.3	ug/L			24.2	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	METALS	Vanadium		157	ug/L			100	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	RAD	Gross alpha		142	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	GENINORG	Chemical Oxygen Demand		564	mg/L			120	mg/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	GENINORG	Magnesium		57.6	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	METALS	Aluminum		277000	ug/L	N		5000	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	METALS	Arsenic		55.7	ug/L			24.2	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	METALS	Lead		262	ug/L	E*		126	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	METALS	Vanadium		315	ug/L			100	ug/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	RAD	Gross alpha		121	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2004	Q3	9/4/2004	UF	GU04092014201	GENINORG	Chemical Oxygen Demand		223	mg/L			120	mg/L
Pratt-SMA-1	SS20142	2004	Q3	9/4/2004	UF	GU04092014201	PEST/PCB	Aroclor-1254		0.21	ug/L	P		0.0017	ug/L
Pratt-SMA-1	SS20142	2004	Q3	9/4/2004	UF	GU04092014201	RAD	Gross alpha		123	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2004	Q4	10/5/2004	UF	GU04102014201	RAD	Gross alpha		67.8	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2004	Q4	10/11/2004	UF	GU04102014202	GENINORG	Magnesium		5.16	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2004	Q4	10/11/2004	UF	GU04102014202	METALS	Aluminum		30300	ug/L	N		5000	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/12/2005	UF	GU05082014201	GENINORG	Magnesium		15	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2005	Q3	8/12/2005	UF	GU05082014201	METALS	Aluminum		92100	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/12/2005	UF	GU05082014201	RAD	Gross alpha		81.2	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	GENINORG	Magnesium		107	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	METALS	Aluminum		663000	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	METALS	Arsenic		103	ug/L			24.2	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	METALS	Lead		324	ug/L	E	J	126	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	METALS	Vanadium		630	ug/L			100	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	RAD	Gross alpha		79.5	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	GENINORG	Magnesium		219	mg/L	*		0.0636	mg/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Aluminum		927000	ug/L	*		5000	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Arsenic		151	ug/L			24.2	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Copper		653	ug/L	*		521	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Lead		667	ug/L			126	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Thallium		9.8	ug/L			6.3	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	METALS	Vanadium		998	ug/L	*		100	ug/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	RAD	Gross alpha		182	pCi/L			15	pCi/L
Pratt-SMA-1	SS20142	2005	Q4	10/3/2005	UF	GU05102014201	GENINORG	Magnesium		23.7	mg/L			0.0636	mg/L
Pratt-SMA-1	SS20142	2005	Q4	10/3/2005	UF	GU05102014201	METALS	Aluminum		94300	ug/L			5000	ug/L
Pratt-SMA-1	SS20142	2005	Q4	10/3/2005	UF	GU05102014201	METALS	Vanadium		148	ug/L			100	ug/L
Pratt-SMA-1	SS20142	2005	Q4	10/3/2005	UF	GU05102014201	RAD	Gross alpha		23.1	pCi/L			15	pCi/L
P-SMA-2	SS057	2005	Q3	8/24/2005	UF	GU05080K05701	GENINORG	Chemical Oxygen Demand		150	mg/L			120	mg/L
P-SMA-2	SS057	2005	Q3	8/24/2005	UF	GU05080K05701	GENINORG	Magnesium		8.09	mg/L			0.0636	mg/L
P-SMA-2	SS057	2005	Q3	8/24/2005	UF	GU05080K05701	METALS	Aluminum		45000	ug/L			5000	ug/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
P-SMA-2	SS057	2005	Q3	8/24/2005	UF	GU05080K05701	METALS	Lead		133	ug/L	E		126	ug/L
P-SMA-2	SS057	2005	Q3	8/24/2005	UF	GU05080K05701	METALS	Silver		5.5	ug/L			4.1	ug/L
P-SMA-2.2	SS0575	2005	Q2	4/25/2005	UF	GU0504K057501	RAD	Gross alpha		18.2	pCi/L			15	pCi/L
P-SMA-2.2	SS0575	2005	Q2	5/3/2005	UF	GU0505K057501	GENINORG	Chemical Oxygen Demand		228	mg/L			120	mg/L
P-SMA-2.2	SS0575	2005	Q2	5/3/2005	UF	GU0505K057501	GENINORG	Magnesium		5.51	mg/L			0.0636	mg/L
P-SMA-2.2	SS0575	2005	Q2	5/3/2005	UF	GU0505K057501	METALS	Aluminum		30000	ug/L			5000	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/3/2005	UF	GU0505K057501	RAD	Gross alpha		24.6	pCi/L			15	pCi/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	GENINORG	Magnesium		33.9	mg/L		J	0.0636	mg/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Aluminum		172000	ug/L		J	5000	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Arsenic		62.5	ug/L		J	24.2	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Lead		327	ug/L		J	126	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Mercury		2.4	ug/L			0.77	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Silver		6.9	ug/L		J	4.1	ug/L
P-SMA-2.2	SS0575	2005	Q2	5/31/2005	UF	GU0505K057502	METALS	Vanadium		277	ug/L		J	100	ug/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	GENINORG	Chemical Oxygen Demand		343	mg/L			120	mg/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	GENINORG	Magnesium		15.7	mg/L			0.0636	mg/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	METALS	Aluminum		69900	ug/L	N	J+	5000	ug/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	METALS	Arsenic		27.4	ug/L			24.2	ug/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	METALS	Lead		148	ug/L			126	ug/L
P-SMA-2.2	SS0575	2005	Q3	7/20/2005	UF	GU0507K057501	METALS	Vanadium		117	ug/L			100	ug/L
P-SMA-2.2	SS0575	2005	Q3	8/4/2005	UF	GU0508K057501	GENINORG	Chemical Oxygen Demand		210	mg/L			120	mg/L
P-SMA-2.2	SS0575	2005	Q3	8/4/2005	UF	GU0508K057501	GENINORG	Magnesium		6.58	mg/L			0.0636	mg/L
P-SMA-2.2	SS0575	2005	Q3	8/4/2005	UF	GU0508K057501	METALS	Aluminum		32700	ug/L			5000	ug/L
P-SMA-2.2	SS0575	2005	Q3	8/4/2005	UF	GU0508K057501	RAD	Gross alpha		119	pCi/L		J-	15	pCi/L
P-SMA-3	SS054	2005	Q2	4/25/2005	UF	GU05040K05401	GENINORG	Chemical Oxygen Demand		256	mg/L		J	120	mg/L
P-SMA-3	SS054	2005	Q2	4/25/2005	UF	GU05040K05401	GENINORG	Magnesium		13.5	mg/L		J	0.0636	mg/L
P-SMA-3	SS054	2005	Q2	4/25/2005	UF	GU05040K05401	METALS	Aluminum		79300	ug/L		J	5000	ug/L
P-SMA-3	SS054	2005	Q2	4/25/2005	UF	GU05040K05401	METALS	Lead		222	ug/L		J	126	ug/L
P-SMA-3	SS054	2005	Q2	4/25/2005	UF	GU05040K05401	METALS	Vanadium		117	ug/L		J	100	ug/L
P-SMA-3	SS054	2005	Q3	8/4/2005	UF	GU05080K05401	GENINORG	Chemical Oxygen Demand		219	mg/L			120	mg/L
P-SMA-3	SS054	2005	Q3	8/4/2005	UF	GU05080K05401	GENINORG	Magnesium		4.4	mg/L			0.0636	mg/L
P-SMA-3	SS054	2005	Q3	8/4/2005	UF	GU05080K05401	METALS	Aluminum		24100	ug/L			5000	ug/L
P-SMA-3	SS054	2005	Q3	8/11/2005	UF	GU05080K05402	PEST/PCB	Aroclor-1254		0.74	ug/L			0.0017	ug/L
P-SMA-3	SS054	2005	Q3	8/11/2005	UF	GU05080K05402	RAD	Gross alpha		132	pCi/L			15	pCi/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	GENINORG	Magnesium		10.9	mg/L			0.0636	mg/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	METALS	Aluminum		59900	ug/L			5000	ug/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	METALS	Lead		189	ug/L	E		126	ug/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	PEST/PCB	Aroclor-1254		0.15	ug/L	P		0.0017	ug/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	PEST/PCB	Aroclor-1260		0.07	ug/L	J		0.0017	ug/L
P-SMA-3	SS054	2005	Q3	8/22/2005	UF	GU05080K05403	RAD	Gross alpha		15.9	pCi/L		J-	15	pCi/L
P-SMA-3	SS054	2005	Q3	8/24/2005	UF	GU05080K05404	GENINORG	Chemical Oxygen Demand		161	mg/L			120	mg/L
P-SMA-3	SS054	2005	Q3	8/24/2005	UF	GU05080K05404	GENINORG	Magnesium		10.6	mg/L			0.0636	mg/L

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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
P-SMA-3	SS054	2005	Q3	8/24/2005	UF	GU05080K05404	METALS	Aluminum		58300	ug/L			5000	ug/L
P-SMA-3	SS054	2005	Q3	8/24/2005	UF	GU05080K05404	METALS	Lead		389	ug/L	E		126	ug/L
P-SMA-3	SS054	2005	Q3	9/7/2005	UF	GU05090K05401	GENINORG	Chemical Oxygen Demand		240	mg/L			120	mg/L
P-SMA-3	SS054	2005	Q3	9/7/2005	UF	GU05090K05401	RAD	Gross alpha		58.8	pCi/L			15	pCi/L
R-SMA-1	SS00	2005	Q2	5/3/2005	UF	GU050500K0001	GENINORG	Chemical Oxygen Demand		194	mg/L			120	mg/L
R-SMA-1	SS00	2005	Q2	5/3/2005	UF	GU050500K0001	GENINORG	Magnesium		12.7	mg/L			0.0636	mg/L
R-SMA-1	SS00	2005	Q2	5/3/2005	UF	GU050500K0001	METALS	Aluminum		65800	ug/L			5000	ug/L
R-SMA-1	SS00	2005	Q3	8/12/2005	UF	GU050800K0001	GENINORG	Magnesium		2.32	mg/L			0.0636	mg/L
R-SMA-1	SS00	2005	Q3	8/12/2005	UF	GU050800K0001	METALS	Aluminum		7580	ug/L	N		5000	ug/L
R-SMA-1	SS00	2005	Q3	8/24/2005	UF	GU050800K0002	GENINORG	Chemical Oxygen Demand		136	mg/L			120	mg/L
R-SMA-1	SS00	2005	Q3	8/24/2005	UF	GU050800K0002	GENINORG	Magnesium		6.12	mg/L			0.0636	mg/L
R-SMA-1	SS00	2005	Q3	8/24/2005	UF	GU050800K0002	METALS	Aluminum		39200	ug/L			5000	ug/L
R-SMA-1	SS00	2005	Q3	9/29/2005	UF	GU050900K0001	GENINORG	Magnesium		2.91	mg/L			0.0636	mg/L
R-SMA-1	SS00	2005	Q3	9/29/2005	UF	GU050900K0001	METALS	Aluminum		16000	ug/L			5000	ug/L
S-SMA-1	E122.2	2004	Q1	2/25/2004	UF	GU0402E122201	GENINORG	Magnesium		9.7	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2004	Q2	4/2/2004	UF	GU0404E122201	GENINORG	Chemical Oxygen Demand		503	mg/L			120	mg/L
S-SMA-1	E122.2	2004	Q2	4/2/2004	UF	GU0404E122201	GENINORG	Magnesium		45.2	mg/L	*		0.0636	mg/L
S-SMA-1	E122.2	2004	Q2	4/2/2004	UF	GU0404E122201	METALS	Arsenic		35.7	ug/L			24.2	ug/L
S-SMA-1	E122.2	2004	Q2	4/2/2004	UF	GU0404E122201	METALS	Lead		137	ug/L			126	ug/L
S-SMA-1	E122.2	2004	Q3	7/27/2004	UF	GU0407E122201	GENINORG	Chemical Oxygen Demand		135	mg/L			120	mg/L
S-SMA-1	E122.2	2004	Q3	7/27/2004	UF	GU0407E122290	GENINORG	Chemical Oxygen Demand		159	mg/L			120	mg/L
S-SMA-1	E122.2	2004	Q3	7/27/2004	UF	GU0407E122201	GENINORG	Magnesium		19.5	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2004	Q3	7/27/2004	UF	GU0407E122290	GENINORG	Magnesium		19	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2004	Q3	8/11/2004	UF	GU0408E122201	GENINORG	Chemical Oxygen Demand		255	mg/L			120	mg/L
S-SMA-1	E122.2	2004	Q3	8/11/2004	UF	GU0408E122201	GENINORG	Magnesium		5.92	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2004	Q3	8/18/2004	UF	GU0408E122202	GENINORG	Chemical Oxygen Demand		213	mg/L			120	mg/L
S-SMA-1	E122.2	2004	Q3	8/18/2004	UF	GU0408E122202	GENINORG	Magnesium		28.4	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2004	Q3	8/18/2004	UF	GU0408E122202	METALS	Lead		129	ug/L			126	ug/L
S-SMA-1	E122.2	2004	Q3	8/20/2004	UF	GU0408E122203	GENINORG	Magnesium		17.7	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	GENINORG	Magnesium		79.7	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	METALS	Aluminum		194000	ug/L			5000	ug/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	METALS	Arsenic		82.8	ug/L			24.2	ug/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	METALS	Copper		632	ug/L			521	ug/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	METALS	Lead		284	ug/L	E	J	126	ug/L
S-SMA-1	E122.2	2005	Q2	5/3/2005	UF	GU0505K122201	METALS	Vanadium		402	ug/L			100	ug/L
S-SMA-1	E122.2	2005	Q3	8/11/2005	UF	GU0508K122201	GENINORG	Magnesium		17	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2005	Q3	8/11/2005	UF	GU0508K122201	METALS	Aluminum		49300	ug/L			5000	ug/L
S-SMA-1	E122.2	2005	Q3	8/11/2005	UF	GU0508K122201	METALS	Vanadium		104	ug/L			100	ug/L
S-SMA-1	E122.2	2005	Q3	8/11/2005	UF	GU0508K122201	PEST/PCB	Aroclor-1254		0.16	ug/L		J-	0.0017	ug/L
S-SMA-1	E122.2	2005	Q3	8/25/2005	UF	GU0508K122203	GENINORG	Magnesium		19.7	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2005	Q3	8/25/2005	UF	GU0508K122203	METALS	Aluminum		64200	ug/L			5000	ug/L
S-SMA-1	E122.2	2005	Q3	8/25/2005	UF	GU0508K122203	METALS	Vanadium		112	ug/L			100	ug/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
S-SMA-1	E122.2	2005	Q3	9/28/2005	UF	GU0509K122201	GENINORG	Magnesium		37	mg/L			0.0636	mg/L
S-SMA-1	E122.2	2005	Q3	9/28/2005	UF	GU0509K122201	METALS	Aluminum		117000	ug/L			5000	ug/L
S-SMA-1	E122.2	2005	Q3	9/28/2005	UF	GU0509K122201	METALS	Arsenic		36.7	ug/L			24.2	ug/L
S-SMA-1	E122.2	2005	Q3	9/28/2005	UF	GU0509K122201	METALS	Vanadium		235	ug/L			100	ug/L
S-SMA-1	E122.2	2005	Q3	9/28/2005	UF	GU0509K122201	PEST/PCB	Aroclor-1254		0.07	ug/L	J		0.0017	ug/L
S-SMA-2	E121	2004	Q1	2/25/2004	UF	GU04020E12101	GENINORG	Magnesium		6.72	mg/L			0.0636	mg/L
S-SMA-2	E121	2004	Q3	7/27/2004	UF	GU04070E12101	GENINORG	Magnesium		3.46	mg/L			0.0636	mg/L
S-SMA-2	E121	2004	Q3	7/27/2004	UF	GU04070E12101	METALS	Aluminum		16900	ug/L			5000	ug/L
S-SMA-2	E121	2004	Q3	8/11/2004	UF	GU04080E12101	GENINORG	Magnesium		3.24	mg/L			0.0636	mg/L
S-SMA-2	E121	2004	Q3	8/11/2004	UF	GU04080E12101	METALS	Aluminum		13900	ug/L			5000	ug/L
S-SMA-2	E121	2004	Q3	8/18/2004	UF	GU04080E12102	GENINORG	Magnesium		2.9	mg/L			0.0636	mg/L
S-SMA-2	E121	2004	Q3	8/18/2004	UF	GU04080E12102	METALS	Aluminum		6980	ug/L	N*		5000	ug/L
S-SMA-2	E121	2004	Q3	8/18/2004	UF	GU04080E12102	RAD	Gross alpha		24.7	pCi/L			15	pCi/L
S-SMA-2	E121	2004	Q3	9/27/2004	UF	GU04090E12101	GENINORG	Magnesium		4.96	mg/L			0.0636	mg/L
S-SMA-2	E121	2004	Q3	9/27/2004	UF	GU04090E12101	METALS	Aluminum		16000	ug/L	N		5000	ug/L
S-SMA-2	E121	2004	Q3	9/27/2004	UF	GU04090E12101	RAD	Gross alpha		32	pCi/L			15	pCi/L
S-SMA-2	E121	2005	Q2	4/16/2005	UF	GU05040E12101	GENINORG	Magnesium		3.71	mg/L	N	J+	0.0636	mg/L
S-SMA-2	E121	2005	Q2	4/16/2005	UF	GU05040E12101	METALS	Aluminum		18400	ug/L		J	5000	ug/L
S-SMA-2	E121	2005	Q2	4/16/2005	UF	GU05040E12101	PEST/PCB	Aroclor-1260		0.027	ug/L	JP		0.0017	ug/L
S-SMA-2	E121	2005	Q2	4/16/2005	UF	GU05040E12101	RAD	Gross alpha		19.3	pCi/L			15	pCi/L
S-SMA-2	E121	2005	Q3	7/15/2005	UF	GU05070E12101	GENINORG	Magnesium		3.07	mg/L	N		0.0636	mg/L
S-SMA-2	E121	2005	Q3	7/15/2005	UF	GU05070E12101	PEST/PCB	Aroclor-1254		0.64	ug/L			0.0017	ug/L
S-SMA-2	E121	2005	Q3	7/15/2005	UF	GU05070E12101	PEST/PCB	Aroclor-1260		1.2	ug/L			0.0017	ug/L
S-SMA-2	E121	2005	Q3	7/15/2005	UF	GU05070E12101	RAD	Gross alpha		26.6	pCi/L			15	pCi/L
S-SMA-2	E121	2005	Q3	7/20/2005	UF	GU05070E12102	GENINORG	Magnesium		6.07	mg/L			0.0636	mg/L
S-SMA-2	E121	2005	Q3	7/20/2005	UF	GU05070E12102	METALS	Aluminum		26000	ug/L			5000	ug/L
S-SMA-2	E121	2005	Q3	7/20/2005	UF	GU05070E12102	PEST/PCB	Aroclor-1254		0.43	ug/L	P		0.0017	ug/L
S-SMA-2	E121	2005	Q3	7/20/2005	UF	GU05070E12102	PEST/PCB	Aroclor-1260		0.54	ug/L			0.0017	ug/L
S-SMA-2	E121	2005	Q3	8/4/2005	UF	GU05080E12101	GENINORG	Magnesium		7.99	mg/L			0.0636	mg/L
S-SMA-2	E121	2005	Q3	8/4/2005	UF	GU05080E12101	METALS	Aluminum		47900	ug/L			5000	ug/L
S-SMA-2	E121	2005	Q3	8/4/2005	UF	GU05080E12101	PEST/PCB	Aroclor-1254		0.056	ug/L	J		0.0017	ug/L
S-SMA-2	E121	2005	Q3	8/4/2005	UF	GU05080E12101	PEST/PCB	Aroclor-1260		0.097	ug/L	J		0.0017	ug/L
S-SMA-2	E121	2005	Q3	8/12/2005	UF	GU05080E12102	RAD	Gross alpha		17.3	pCi/L			15	pCi/L
S-SMA-3	SS12292	2004	Q3	7/27/2004	UF	GU0408K122901	GENINORG	Magnesium		28.5	mg/L	E		0.0636	mg/L
S-SMA-3	SS12292	2004	Q3	7/27/2004	UF	GU0408K122901	METALS	Aluminum		150000	ug/L			5000	ug/L
S-SMA-3	SS12292	2004	Q3	7/27/2004	UF	GU0408K122901	METALS	Arsenic		62.2	ug/L			24.2	ug/L
S-SMA-3	SS12292	2004	Q3	7/27/2004	UF	GU0408K122901	METALS	Lead		286	ug/L			126	ug/L
S-SMA-3	SS12292	2004	Q3	7/27/2004	UF	GU0408K122901	METALS	Vanadium		205	ug/L			100	ug/L
S-SMA-3	SS12292	2004	Q3	9/27/2004	UF	GU0409K122901	GENINORG	Chemical Oxygen Demand		248	mg/L			120	mg/L
S-SMA-3	SS12292	2004	Q3	9/27/2004	UF	GU0409K122901	GENINORG	Magnesium		11.5	mg/L			0.0636	mg/L
S-SMA-3	SS12292	2004	Q3	9/27/2004	UF	GU0409K122901	METALS	Aluminum		65800	ug/L			5000	ug/L
S-SMA-3.5	SS12293	2005	Q3	7/15/2005	UF	GU05071229301	GENINORG	Magnesium		10.5	mg/L			0.0636	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
S-SMA-3.5	SS12293	2005	Q3	7/15/2005	UF	GU05071229301	METALS	Aluminum		48500	ug/L			5000	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/5/2005	UF	GU05081229301	GENINORG	Magnesium		11.1	mg/L			0.0636	mg/L
S-SMA-3.5	SS12293	2005	Q3	8/5/2005	UF	GU05081229301	METALS	Aluminum		72300	ug/L			5000	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/5/2005	UF	GU05081229301	RAD	Gross alpha		104	pCi/L		J-	15	pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/12/2005	UF	GU05081229302	GENINORG	Chemical Oxygen Demand		164	mg/L			120	mg/L
S-SMA-3.5	SS12293	2005	Q3	8/12/2005	UF	GU05081229302	RAD	Gross alpha		201	pCi/L			15	pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	GENINORG	Magnesium		22.3	mg/L			0.0636	mg/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	METALS	Aluminum		148000	ug/L			5000	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	METALS	Arsenic		31.8	ug/L			24.2	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	METALS	Lead		169	ug/L	E		126	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	METALS	Vanadium		157	ug/L			100	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	PEST/PCB	Aroclor-1254		0.058	ug/L	J		0.0017	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	RAD	Gross alpha		56.9	pCi/L		J-	15	pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/24/2005	UF	GU05081229304	GENINORG	Chemical Oxygen Demand		157	mg/L			120	mg/L
S-SMA-3.5	SS12293	2005	Q3	8/24/2005	UF	GU05081229304	GENINORG	Magnesium		11.3	mg/L	N		0.0636	mg/L
S-SMA-3.5	SS12293	2005	Q3	8/24/2005	UF	GU05081229304	METALS	Aluminum		62500	ug/L			5000	ug/L
S-SMA-3.5	SS12293	2005	Q3	8/25/2005	UF	GU05081229305	GENINORG	Chemical Oxygen Demand		140	mg/L			120	mg/L
S-SMA-3.5	SS12293	2005	Q3	9/30/2005	UF	GU05101229301	PEST/PCB	Aroclor-1254		0.1	ug/L	P		0.0017	ug/L
S-SMA-3.9	SS1235	2005	Q2	4/25/2005	UF	GU0504K123501	GENINORG	Magnesium		15	mg/L		J	0.0636	mg/L
S-SMA-3.9	SS1235	2005	Q2	4/25/2005	UF	GU0504K123501	METALS	Aluminum		40300	ug/L		J	5000	ug/L
S-SMA-3.9	SS1235	2005	Q2	4/25/2005	UF	GU0504K123501	METALS	Arsenic		27.1	ug/L		J	24.2	ug/L
S-SMA-3.9	SS1235	2005	Q2	4/25/2005	UF	GU0504K123501	METALS	Lead		228	ug/L		J	126	ug/L
S-SMA-3.9	SS1235	2005	Q3	8/12/2005	UF	GU0508K123501	GENINORG	Magnesium		1.96	mg/L			0.0636	mg/L
S-SMA-3.9	SS1235	2005	Q3	8/12/2005	UF	GU0508K123501	METALS	Aluminum		8360	ug/L	N		5000	ug/L
S-SMA-3.9	SS1235	2005	Q3	8/22/2005	UF	GU0508K123502	GENINORG	Magnesium		0.758	mg/L			0.0636	mg/L
S-SMA-3.9	SS1235	2005	Q3	9/28/2005	UF	GU0509K123501	GENINORG	Magnesium		1.73	mg/L			0.0636	mg/L
S-SMA-3.9	SS1235	2005	Q3	9/28/2005	UF	GU0509K123501	METALS	Aluminum		7970	ug/L		J	5000	ug/L
S-SMA-4	SS1238	2004	Q3	7/18/2004	UF	GU0408K123801	GENINORG	Magnesium		9.69	mg/L	E		0.0636	mg/L
S-SMA-4	SS1238	2004	Q3	7/18/2004	UF	GU0408K123801	METALS	Aluminum		40600	ug/L			5000	ug/L
S-SMA-4	SS1238	2004	Q3	7/18/2004	UF	GU0408K123801	RAD	Gross alpha		47.1	pCi/L			15	pCi/L
S-SMA-4	SS1238	2004	Q3	8/6/2004	UF	GU0408K123802	GENINORG	Magnesium		4.99	mg/L	N		0.0636	mg/L
S-SMA-4	SS1238	2004	Q3	8/6/2004	UF	GU0408K123802	METALS	Aluminum		22300	ug/L			5000	ug/L
S-SMA-4	SS1238	2004	Q3	8/6/2004	UF	GU0408K123802	RAD	Gross alpha		31.4	pCi/L			15	pCi/L
S-SMA-4	SS1238	2004	Q3	8/10/2004	UF	GU0408K123803	GENINORG	Chemical Oxygen Demand		193	mg/L			120	mg/L
S-SMA-4	SS1238	2004	Q3	8/10/2004	UF	GU0408K123803	GENINORG	Magnesium		8.21	mg/L			0.0636	mg/L
S-SMA-4	SS1238	2004	Q3	8/10/2004	UF	GU0408K123803	METALS	Aluminum		25700	ug/L			5000	ug/L
S-SMA-4	SS1238	2004	Q3	8/11/2004	UF	GU0408K123804	GENINORG	Magnesium		4.16	mg/L			0.0636	mg/L
S-SMA-4	SS1238	2004	Q3	8/11/2004	UF	GU0408K123804	METALS	Aluminum		7350	ug/L			5000	ug/L
S-SMA-4	SS1238	2004	Q3	8/15/2004	UF	GU0408K123805	RAD	Gross alpha		144	pCi/L			15	pCi/L
S-SMA-4	SS1238	2005	Q3	8/4/2005	UF	GU0508K123801	RAD	Gross alpha		67.7	pCi/L		J-	15	pCi/L
S-SMA-4	SS1238	2005	Q3	8/22/2005	UF	GU0508K123802	RAD	Gross alpha		22.2	pCi/L			15	pCi/L
S-SMA-4	SS1238	2005	Q3	8/24/2005	UF	GU0508K123803	RAD	Gross alpha		39.9	pCi/L			15	pCi/L

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
S-SMA-5	SS1245	2004	Q3	7/27/2004	UF	GU0408K124501	GENINORG	Magnesium		13.4	mg/L	E		0.0636	mg/L
S-SMA-5	SS1245	2004	Q3	7/27/2004	UF	GU0408K124501	METALS	Aluminum		65900	ug/L			5000	ug/L
S-SMA-5	SS1245	2004	Q3	7/27/2004	UF	GU0408K124501	METALS	Lead		216	ug/L			126	ug/L
S-SMA-5	SS1245	2004	Q3	7/27/2004	UF	GU0408K124501	METALS	Silver		14	ug/L			4.1	ug/L
S-SMA-5	SS1245	2004	Q3	7/27/2004	UF	GU0408K124501	PEST/PCB	Aroclor-1260		0.21	ug/L			0.0017	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	GENINORG	Chemical Oxygen Demand		298	mg/L			120	mg/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	GENINORG	Magnesium		126	mg/L			0.0636	mg/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Aluminum		789000	ug/L		J+	5000	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Arsenic		166	ug/L			24.2	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Chromium		4910	ug/L			1163	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Copper		1010	ug/L			521	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Lead		325	ug/L			126	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Mercury		0.93	ug/L			0.77	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	METALS	Vanadium		756	ug/L			100	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	PEST/PCB	Aroclor-1254		0.69	ug/L	J	J, J-	0.0017	ug/L
S-SMA-5	SS1245	2005	Q3	8/25/2005	UF	GU0508K124501	PEST/PCB	Aroclor-1260		1.2	ug/L	J	J, J-	0.0017	ug/L
S-SMA-6	SS1248	2004	Q3	7/24/2004	UF	GU0408K124801	METALS	Mercury		1.8	ug/L			0.77	ug/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	GENINORG	Chemical Oxygen Demand		2980	mg/L			120	mg/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	GENINORG	Magnesium		9.39	mg/L			0.0636	mg/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	METALS	Arsenic		28.9	ug/L			24.2	ug/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	METALS	Lead		1450	ug/L			126	ug/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	METALS	Mercury		1.6	ug/L			0.77	ug/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	METALS	Silver		18.3	ug/L			4.1	ug/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	RAD	Gross alpha		253	pCi/L			15	pCi/L
S-SMA-6	SS1248	2005	Q3	9/29/2005	UF	GU0510K124801	GENINORG	Magnesium		12.1	mg/L			0.0636	mg/L
S-SMA-6	SS1248	2005	Q3	9/29/2005	UF	GU0510K124801	METALS	Aluminum		72900	ug/L			5000	ug/L
S-SMA-6	SS1248	2005	Q3	9/29/2005	UF	GU0510K124801	PEST/PCB	Aroclor-1254		0.34	ug/L			0.0017	ug/L
S-SMA-6	SS1248	2005	Q3	9/29/2005	UF	GU0510K124801	PEST/PCB	Aroclor-1260		0.7	ug/L			0.0017	ug/L
T-SMA-1	E201.3	2004	Q2	4/2/2004	UF	GU0404E201302	GENINORG	Magnesium		0.935	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2004	Q2	4/5/2004	UF	GU0404E201303	GENINORG	Magnesium		0.744	mg/L	*		0.0636	mg/L
T-SMA-1	E201.3	2004	Q3	7/23/2004	UF	GU0407E201301	GENINORG	Chemical Oxygen Demand		171	mg/L			120	mg/L
T-SMA-1	E201.3	2004	Q3	7/23/2004	UF	GU0407E201301	GENINORG	Magnesium		9.85	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2004	Q3	7/23/2004	UF	GU0407E201301	METALS	Aluminum		65100	ug/L			5000	ug/L
T-SMA-1	E201.3	2004	Q4	10/6/2004	UF	GU0410E201301	GENINORG	Magnesium		0.824	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2005	Q3	8/12/2005	UF	GU0508E201301	GENINORG	Magnesium		2.47	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2005	Q3	8/12/2005	UF	GU0508E201301	METALS	Aluminum		14800	ug/L			5000	ug/L
T-SMA-1	E201.3	2005	Q3	8/12/2005	UF	GU0508E201301	RAD	Gross alpha		47.3	pCi/L			15	pCi/L
T-SMA-1	E201.3	2005	Q3	8/24/2005	UF	GU0508E201303	GENINORG	Magnesium		6.53	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2005	Q3	8/24/2005	UF	GU0508E201303	METALS	Aluminum		43100	ug/L			5000	ug/L
T-SMA-1	E201.3	2005	Q3	8/25/2005	UF	GU0508E201304	GENINORG	Magnesium		3.42	mg/L			0.0636	mg/L
T-SMA-1	E201.3	2005	Q3	8/25/2005	UF	GU0508E201304	METALS	Aluminum		21800	ug/L			5000	ug/L
T-SMA-1	E201.3	2005	Q3	9/22/2005	UF	GU0509E201301	GENINORG	Magnesium		2.2	mg/L			0.0636	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
T-SMA-1	E201.3	2005	Q3	9/22/2005	UF	GU0509E201301	METALS	Aluminum		13600	ug/L	N	J+	5000	ug/L
T-SMA-1	E201.3	2005	Q3	9/28/2005	UF	GU0509E201302	RAD	Gross alpha		32.3	pCi/L		J-	15	pCi/L
T-SMA-2	SS20132	2004	Q3	7/27/2004	UF	GU04082013201	GENINORG	Chemical Oxygen Demand		174	mg/L			120	mg/L
T-SMA-2	SS20132	2004	Q3	7/27/2004	UF	GU04082013201	GENINORG	Magnesium		2.11	mg/L	N*		0.0636	mg/L
T-SMA-2	SS20132	2004	Q3	8/11/2004	UF	GU04082013202	GENINORG	Chemical Oxygen Demand		253	mg/L			120	mg/L
T-SMA-2	SS20132	2004	Q3	8/11/2004	UF	GU04082013202	GENINORG	Magnesium		4.03	mg/L	E		0.0636	mg/L
T-SMA-2	SS20132	2004	Q3	8/15/2004	UF	GU04082013203	GENINORG	Magnesium		0.941	mg/L			0.0636	mg/L
T-SMA-2	SS20132	2004	Q3	8/19/2004	UF	GU04082013204	GENINORG	Magnesium		2.48	mg/L	N		0.0636	mg/L
T-SMA-2	SS20132	2004	Q3	8/20/2004	UF	GU04082013205	GENINORG	Magnesium		1.81	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	GENINORG	Chemical Oxygen Demand		336	mg/L			120	mg/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	GENINORG	Magnesium		6.12	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	METALS	Aluminum		29900	ug/L			5000	ug/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	RAD	Gross alpha		43	pCi/L			15	pCi/L
T-SMA-3	SS20134	2004	Q3	8/11/2004	UF	GU04082013402	GENINORG	Chemical Oxygen Demand		164	mg/L			120	mg/L
T-SMA-3	SS20134	2004	Q3	8/11/2004	UF	GU04082013402	GENINORG	Magnesium		3.6	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	8/11/2004	UF	GU04082013402	METALS	Aluminum		18200	ug/L			5000	ug/L
T-SMA-3	SS20134	2004	Q3	8/11/2004	UF	GU04082013402	RAD	Gross alpha		27.5	pCi/L			15	pCi/L
T-SMA-3	SS20134	2004	Q3	8/15/2004	UF	GU04082013403	GENINORG	Chemical Oxygen Demand		155	mg/L			120	mg/L
T-SMA-3	SS20134	2004	Q3	8/15/2004	UF	GU04082013403	GENINORG	Magnesium		2.68	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	8/15/2004	UF	GU04082013403	METALS	Aluminum		12600	ug/L	EN		5000	ug/L
T-SMA-3	SS20134	2004	Q3	8/15/2004	UF	GU04082013403	RAD	Gross alpha		24.5	pCi/L			15	pCi/L
T-SMA-3	SS20134	2004	Q3	8/18/2004	UF	GU04082013404	GENINORG	Magnesium		6.59	mg/L	N		0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	8/18/2004	UF	GU04082013404	METALS	Aluminum		39400	ug/L			5000	ug/L
T-SMA-3	SS20134	2004	Q3	8/18/2004	UF	GU04082013404	METALS	Silver		4.3	ug/L			4.1	ug/L
T-SMA-3	SS20134	2004	Q3	8/18/2004	UF	GU04082013404	RAD	Gross alpha		115	pCi/L			15	pCi/L
T-SMA-3	SS20134	2004	Q3	8/20/2004	UF	GU04082013405	GENINORG	Chemical Oxygen Demand		140	mg/L			120	mg/L
T-SMA-3	SS20134	2004	Q3	8/20/2004	UF	GU04082013405	GENINORG	Magnesium		3.65	mg/L	N		0.0636	mg/L
T-SMA-3	SS20134	2004	Q3	8/20/2004	UF	GU04082013405	METALS	Aluminum		20500	ug/L	N		5000	ug/L
T-SMA-3	SS20134	2004	Q3	8/20/2004	UF	GU04082013405	RAD	Gross alpha		56.3	pCi/L			15	pCi/L
T-SMA-3	SS20134	2005	Q3	7/15/2005	UF	GU05072013401	GENINORG	Magnesium		1.42	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2005	Q3	7/15/2005	UF	GU05072013401	RAD	Gross alpha		44.7	pCi/L			15	pCi/L
T-SMA-3	SS20134	2005	Q3	8/4/2005	UF	GU05082013401	GENINORG	Magnesium		6.64	mg/L	N		0.0636	mg/L
T-SMA-3	SS20134	2005	Q3	8/4/2005	UF	GU05082013401	METALS	Aluminum		21200	ug/L			5000	ug/L
T-SMA-3	SS20134	2005	Q3	8/4/2005	UF	GU05082013401	RAD	Gross alpha		24.2	pCi/L		J-	15	pCi/L
T-SMA-3	SS20134	2005	Q3	8/12/2005	UF	GU05082013402	GENINORG	Magnesium		8.98	mg/L			0.0636	mg/L
T-SMA-3	SS20134	2005	Q3	8/12/2005	UF	GU05082013402	METALS	Aluminum		51500	ug/L			5000	ug/L
T-SMA-3	SS20134	2005	Q3	8/12/2005	UF	GU05082013402	RAD	Gross alpha		32.8	pCi/L			15	pCi/L
T-SMA-3	SS20134	2005	Q3	8/25/2005	UF	GU05082013403	GENINORG	Magnesium		1.43	mg/L	*		0.0636	mg/L
T-SMA-4	SS20136	2004	Q3	7/27/2004	UF	GU04082013601	GENINORG	Chemical Oxygen Demand		158	mg/L			120	mg/L
T-SMA-4	SS20136	2004	Q3	7/27/2004	UF	GU04082013601	GENINORG	Magnesium		2.76	mg/L			0.0636	mg/L
T-SMA-4	SS20136	2004	Q3	7/27/2004	UF	GU04082013601	METALS	Aluminum		15600	ug/L			5000	ug/L
T-SMA-4	SS20136	2004	Q3	7/27/2004	UF	GU04082013601	RAD	Gross alpha		19.3	pCi/L			15	pCi/L

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Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
T-SMA-4	SS20136	2004	Q4	10/5/2004	UF	GU04102013601	GENINORG	Magnesium		2.32	mg/L			0.0636	mg/L
T-SMA-4	SS20136	2004	Q4	10/5/2004	UF	GU04102013601	METALS	Aluminum		12700	ug/L	N		5000	ug/L
T-SMA-4	SS20136	2004	Q4	10/5/2004	UF	GU04102013601	RAD	Gross alpha		15.5	pCi/L			15	pCi/L
T-SMA-4	SS20136	2004	Q4	10/11/2004	UF	GU04102013602	GENINORG	Magnesium		2.16	mg/L			0.0636	mg/L
T-SMA-4	SS20136	2004	Q4	10/11/2004	UF	GU04102013602	METALS	Aluminum		11200	ug/L	N		5000	ug/L
T-SMA-4	SS20136	2005	Q3	7/15/2005	UF	GU05072013601	GENINORG	Magnesium		2	mg/L			0.0636	mg/L
T-SMA-4	SS20136	2005	Q3	7/15/2005	UF	GU05072013601	METALS	Aluminum		8700	ug/L	N*	J+	5000	ug/L
T-SMA-5	SS20138	2004	Q3	7/27/2004	UF	GU0408K201301	GENINORG	Chemical Oxygen Demand		533	mg/L			120	mg/L
T-SMA-5	SS20138	2004	Q3	7/27/2004	UF	GU0408K201301	GENINORG	Magnesium		8.61	mg/L			0.0636	mg/L
T-SMA-5	SS20138	2004	Q3	7/27/2004	UF	GU0408K201301	METALS	Aluminum		51400	ug/L			5000	ug/L
T-SMA-5	SS20138	2004	Q3	9/4/2004	UF	GU0409K201301	RAD	Gross alpha		32.4	pCi/L			15	pCi/L
T-SMA-5	SS20138	2004	Q4	10/11/2004	UF	GU0410K201301	GENINORG	Chemical Oxygen Demand		296	mg/L			120	mg/L
T-SMA-5	SS20138	2004	Q4	10/11/2004	UF	GU0410K201301	GENINORG	Magnesium		6.32	mg/L			0.0636	mg/L
T-SMA-5	SS20138	2004	Q4	10/11/2004	UF	GU0410K201301	METALS	Aluminum		35500	ug/L	N		5000	ug/L
T-SMA-5	SS20138	2004	Q4	10/11/2004	UF	GU0410K201301	RAD	Gross alpha		32	pCi/L			15	pCi/L
T-SMA-5	SS20138	2005	Q3	8/24/2005	UF	GU05082013801	GENINORG	Magnesium		1.86	mg/L			0.0636	mg/L
T-SMA-5	SS20138	2005	Q3	8/24/2005	UF	GU05082013801	METALS	Aluminum		10900	ug/L	N*		5000	ug/L
T-SMA-5	SS20138	2005	Q4	10/3/2005	UF	GU05102013801	GENINORG	Magnesium		4.57	mg/L			0.0636	mg/L
T-SMA-5	SS20138	2005	Q4	10/3/2005	UF	GU05102013801	METALS	Aluminum		28300	ug/L			5000	ug/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	GENINORG	Magnesium		23.5	mg/L	*		0.0636	mg/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	METALS	Aluminum		155000	ug/L	*		5000	ug/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	METALS	Vanadium		151	ug/L	*		100	ug/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	PEST/PCB	Aroclor-1260		0.16	ug/L			0.0017	ug/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	RAD	Gross alpha		321	pCi/L			15	pCi/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	GENINORG	Chemical Oxygen Demand		148	mg/L			120	mg/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	GENINORG	Magnesium		12.8	mg/L			0.0636	mg/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	METALS	Aluminum		77000	ug/L			5000	ug/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	PEST/PCB	Aroclor-1260		0.21	ug/L	P	J	0.0017	ug/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	RAD	Gross alpha		49.8	pCi/L			15	pCi/L
W-SMA-1	SS25203	2005	Q2	5/3/2005	UF	GU0505K252001	GENINORG	Magnesium		3.26	mg/L			0.0636	mg/L
W-SMA-1	SS25203	2005	Q2	5/3/2005	UF	GU0505K252001	METALS	Aluminum		20100	ug/L		J	5000	ug/L
W-SMA-1	SS25203	2005	Q2	5/27/2005	UF	GU05052520301	GENINORG	Magnesium		5.26	mg/L		J	0.0636	mg/L
W-SMA-1	SS25203	2005	Q2	5/27/2005	UF	GU05052520301	METALS	Aluminum		33000	ug/L		J	5000	ug/L
W-SMA-1	SS25203	2005	Q3	7/15/2005	UF	GU05072520301	GENINORG	Magnesium		1.26	mg/L			0.0636	mg/L
W-SMA-1	SS25203	2005	Q3	8/4/2005	UF	GU05082520301	GENINORG	Magnesium		2.62	mg/L			0.0636	mg/L
W-SMA-1	SS25203	2005	Q3	8/4/2005	UF	GU05082520301	METALS	Aluminum		17700	ug/L		J	5000	ug/L
W-SMA-10	SS25245	2005	Q3	8/4/2005	UF	GU05082524501	GENINORG	Chemical Oxygen Demand		132	mg/L			120	mg/L
W-SMA-10	SS25245	2005	Q3	8/4/2005	UF	GU05082524501	GENINORG	Magnesium		5.7	mg/L			0.0636	mg/L
W-SMA-10	SS25245	2005	Q3	8/4/2005	UF	GU05082524501	METALS	Aluminum		39600	ug/L			5000	ug/L
W-SMA-10	SS25245	2005	Q3	8/12/2005	UF	GU05082524502	GENINORG	Magnesium		1.9	mg/L			0.0636	mg/L
W-SMA-10	SS25245	2005	Q3	8/12/2005	UF	GU05082524502	METALS	Aluminum		13500	ug/L	N		5000	ug/L
W-SMA-10	SS25245	2005	Q3	8/24/2005	UF	GU05082524503	GENINORG	Magnesium		6.41	mg/L	*		0.0636	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
W-SMA-10	SS25245	2005	Q3	8/24/2005	UF	GU05082524503	METALS	Aluminum		48400	ug/L	*		5000	ug/L
W-SMA-10	SS25245	2005	Q3	9/29/2005	UF	GU05102524501	GENINORG	Magnesium		1.86	mg/L			0.0636	mg/L
W-SMA-10	SS25245	2005	Q3	9/29/2005	UF	GU05102524501	METALS	Aluminum		11600	ug/L			5000	ug/L
W-SMA-11	SS2529	2005	Q3	8/4/2005	UF	GU0508K252901	GENINORG	Magnesium		1.85	mg/L			0.0636	mg/L
W-SMA-11	SS2529	2005	Q3	8/4/2005	UF	GU0508K252901	METALS	Aluminum		8250	ug/L			5000	ug/L
W-SMA-11	SS2529	2005	Q3	8/12/2005	UF	GU0508K252902	GENINORG	Magnesium		3.93	mg/L			0.0636	mg/L
W-SMA-11	SS2529	2005	Q3	8/12/2005	UF	GU0508K252902	METALS	Aluminum		25600	ug/L	N		5000	ug/L
W-SMA-11	SS2529	2005	Q3	8/24/2005	UF	GU0508K252903	GENINORG	Magnesium		9.23	mg/L	*		0.0636	mg/L
W-SMA-11	SS2529	2005	Q3	8/24/2005	UF	GU0508K252903	METALS	Aluminum		63100	ug/L	*		5000	ug/L
W-SMA-11	SS2529	2005	Q3	9/29/2005	UF	GU0510K252901	GENINORG	Magnesium		5.28	mg/L			0.0636	mg/L
W-SMA-11	SS2529	2005	Q3	9/29/2005	UF	GU0510K252901	METALS	Aluminum		34200	ug/L			5000	ug/L
W-SMA-2	SS25205	2005	Q2	5/27/2005	UF	GU05052520501	GENINORG	Chemical Oxygen Demand		150	mg/L			120	mg/L
W-SMA-2	SS25205	2005	Q2	5/27/2005	UF	GU05052520501	GENINORG	Magnesium		4.71	mg/L		J	0.0636	mg/L
W-SMA-2	SS25205	2005	Q2	5/27/2005	UF	GU05052520501	METALS	Aluminum		28100	ug/L		J	5000	ug/L
W-SMA-2	SS25205	2005	Q3	7/15/2005	UF	GU05072520501	GENINORG	Magnesium		7.54	mg/L	J	J+	0.0636	mg/L
W-SMA-2	SS25205	2005	Q3	7/15/2005	UF	GU05072520501	METALS	Aluminum		44300	ug/L		J	5000	ug/L
W-SMA-2	SS25205	2005	Q3	8/4/2005	UF	GU05082520501	GENINORG	Chemical Oxygen Demand		197	mg/L			120	mg/L
W-SMA-2	SS25205	2005	Q3	8/4/2005	UF	GU05082520501	GENINORG	Magnesium		7.79	mg/L			0.0636	mg/L
W-SMA-2	SS25205	2005	Q3	8/4/2005	UF	GU05082520501	METALS	Aluminum		48200	ug/L			5000	ug/L
W-SMA-2	SS25205	2005	Q3	8/11/2005	UF	GU05082520502	GENINORG	Magnesium		3.53	mg/L			0.0636	mg/L
W-SMA-2	SS25205	2005	Q3	8/11/2005	UF	GU05082520502	METALS	Aluminum		23500	ug/L			5000	ug/L
W-SMA-4	E261	2005	Q3	8/12/2005	UF	GU0508E252801	GENINORG	Magnesium		3.32	mg/L			0.0636	mg/L
W-SMA-4	E261	2005	Q3	8/12/2005	UF	GU0508E252801	METALS	Aluminum		15000	ug/L			5000	ug/L
W-SMA-4	E261	2005	Q3	8/24/2005	UF	GU0508E252802	GENINORG	Magnesium		24.7	mg/L			0.0636	mg/L
W-SMA-4	E261	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Aluminum		155000	ug/L			5000	ug/L
W-SMA-4	E261	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Arsenic		37.8	ug/L			24.2	ug/L
W-SMA-4	E261	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Lead		154	ug/L	E		126	ug/L
W-SMA-4	E261	2005	Q3	8/24/2005	UF	GU0508E252802	METALS	Vanadium		185	ug/L			100	ug/L
W-SMA-5	SS2528	2005	Q3	7/15/2005	UF	GU0507K252801	GENINORG	Magnesium		0.662	mg/L			0.0636	mg/L
W-SMA-5	SS2528	2005	Q3	8/4/2005	UF	GU0508K252801	GENINORG	Magnesium		0.863	mg/L			0.0636	mg/L
W-SMA-5	SS2528	2005	Q3	8/4/2005	UF	GU0508K252801	SVOA	Benzo(a)pyrene		1.1	ug/L			0.49	ug/L
W-SMA-5	SS2528	2005	Q3	8/11/2005	UF	GU0508K252802	GENINORG	Magnesium		0.372	mg/L			0.0636	mg/L
W-SMA-5	SS2528	2005	Q3	8/11/2005	UF	GU0508K252802	SVOA	Benzo(a)pyrene		0.59	ug/L	J		0.49	ug/L
W-SMA-5	SS2528	2005	Q3	9/4/2005	UF	GU0509K252801	SVOA	Benzo(a)pyrene		1	ug/L		J	0.49	ug/L
W-SMA-5	SS2528	2005	Q3	9/28/2005	UF	GU0510K252801	GENINORG	Magnesium		0.643	mg/L			0.0636	mg/L
W-SMA-7	SS25243	2005	Q2	5/27/2005	UF	GU05062524301	GENINORG	Chemical Oxygen Demand		296	mg/L			120	mg/L
W-SMA-7	SS25243	2005	Q2	5/27/2005	UF	GU05062524301	GENINORG	Magnesium		5.1	mg/L		J	0.0636	mg/L
W-SMA-7	SS25243	2005	Q2	5/27/2005	UF	GU05062524301	METALS	Aluminum		31800	ug/L		J	5000	ug/L
W-SMA-7	SS25243	2005	Q3	8/5/2005	UF	GU05082524301	GENINORG	Chemical Oxygen Demand		134	mg/L			120	mg/L
W-SMA-7	SS25243	2005	Q3	8/5/2005	UF	GU05082524301	GENINORG	Magnesium		3.58	mg/L	N		0.0636	mg/L
W-SMA-7	SS25243	2005	Q3	8/5/2005	UF	GU05082524301	METALS	Aluminum		20300	ug/L			5000	ug/L
W-SMA-7	SS25243	2005	Q3	8/12/2005	UF	GU05082524302	GENINORG	Magnesium		1.57	mg/L			0.0636	mg/L

Table B5. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than wSAL - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qual Flag	Validation Flag	wSAL	
W-SMA-7	SS25243	2005	Q3	8/12/2005	UF	GU05082524302	METALS	Aluminum		6640	ug/L	N		5000	ug/L
W-SMA-7	SS25243	2005	Q3	8/24/2005	UF	GU05082524303	GENINORG	Magnesium		10.8	mg/L	*		0.0636	mg/L
W-SMA-7	SS25243	2005	Q3	8/24/2005	UF	GU05082524303	METALS	Aluminum		71000	ug/L	*		5000	ug/L
W-SMA-8	SS2523	2005	Q3	8/4/2005	UF	GU0508K252301	GENINORG	Chemical Oxygen Demand		301	mg/L			120	mg/L
W-SMA-8	SS2523	2005	Q3	8/4/2005	UF	GU0508K252301	GENINORG	Magnesium		7.32	mg/L			0.0636	mg/L
W-SMA-8	SS2523	2005	Q3	8/4/2005	UF	GU0508K252301	METALS	Aluminum		48100	ug/L		J	5000	ug/L
W-SMA-8	SS2523	2005	Q3	8/4/2005	UF	GU0508K252301	METALS	Lead		161	ug/L			126	ug/L
W-SMA-8	SS2523	2005	Q3	8/4/2005	UF	GU0508K252301	SVOA	Benzo(a)pyrene		0.99	ug/L	J		0.49	ug/L
W-SMA-8	SS2523	2005	Q3	8/12/2005	UF	GU0508K252302	GENINORG	Magnesium		2.33	mg/L			0.0636	mg/L
W-SMA-8	SS2523	2005	Q3	8/12/2005	UF	GU0508K252302	METALS	Aluminum		5900	ug/L			5000	ug/L
W-SMA-8	SS2523	2005	Q3	8/24/2005	UF	GU0508K252303	GENINORG	Chemical Oxygen Demand		121	mg/L			120	mg/L
W-SMA-8	SS2523	2005	Q3	8/24/2005	UF	GU0508K252303	GENINORG	Magnesium		4.99	mg/L	*		0.0636	mg/L
W-SMA-8	SS2523	2005	Q3	8/24/2005	UF	GU0508K252303	METALS	Aluminum		29900	ug/L	*		5000	ug/L
W-SMA-8	SS2523	2005	Q4	10/4/2005	UF	GU0510K252301	GENINORG	Magnesium		2.64	mg/L			0.0636	mg/L

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Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	E243.5	04/16/05	WT	F	GF0504E243501		0.21	<	68	<	6		190	<	1		1.1	<	1	<	1		13.3	<	18
2M-SMA-1	E243.5	04/16/05	WT	UF	GU0504E243501	<	0.2		1310	<	6		35.4	<	1		0.23	<	1		1.8		33.6		1130
2M-SMA-1	E243.5	04/24/05	WT	F	GF0504E243502	<	0.2		86.8	<	6		23.4	<	1		0.5		1		1.5		99.2		239
2M-SMA-1	E243.5	04/24/05	WT	UF	GU0504E243502	<	0.2		903		7.2		30.3	<	1		0.54	<	1		1.4		117		966
2M-SMA-1	E243.5	05/03/05	WT	UF	GU0505E243501																				
2M-SMA-1	E243.5	05/27/05	WT	F	GF0505E243501	<	0.2		104		8		27.2	<	1		0.54		4.4	<	1.2		45.5		820
2M-SMA-1	E243.5	05/27/05	WT	UF	GU0505E243502	<	0.2		4860		10.5		82.9	<	1		1.3		3	<	6		196		5880
2M-SMA-1	E243.5	06/11/05	WT	F	GF0506E243501	<	0.2		145	<	6		32	<	1		0.64		5.3		1.1		140		758
2M-SMA-1	E243.5	06/11/05	WT	UF	GU0506E243501	<	0.2		849	<	6		40.1	<	1		0.84		1.2		2		205		1080
2M-SMA-1	SS2432	05/27/05	WT	F	GF0506K243201	<	0.2		181	<	6		17.8	<	1	<	0.1	<	1	<	1		10.8		67
2M-SMA-1	SS2432	05/27/05	WT	UF	GU0506K243201	<	0.2		1850	<	6		40.1	<	1		0.13	<	1	<	1.4		20.5		950
2M-SMA-1	SS2432	06/13/05	WT	F	GF0506K243202	<	0.2		493	<	11.6		39.2	<	1		0.13		1.1		1.6		17.8		144
2M-SMA-1	SS2432	06/13/05	WT	UF	GU0506K243202	<	0.2		2480	<	9.2		48.4	<	1		0.13	<	1		1.4		22.6		923
2M-SMA-1	SS2432	06/26/05	WT	F	GF0506K243203	<	0.2		1890		8		43.1	<	1	<	0.1	<	1	<	1		13.8		991
2M-SMA-1	SS2432	06/26/05	WT	UF	GU0506K243203	<	0.2		2030		6.9		44	<	1	<	0.1	<	1	<	1		15.1		1020
2M-SMA-1	SS2432	07/23/05	WT	F	GF0507K243202	<	0.2		296	<	6		19.3	<	1		0.21		1.5		1.1		8.4		155
2M-SMA-1	SS2432	07/23/05	WT	UF	GU0507K243201	<	0.2		34300		13.1		412		3.4		0.87		11.3		24.2		43.7		24200
2M-SMA-3	SS2439	07/15/05	WT	F	GF0507K243901	<	0.2		556	<	6		46.3	<	1		0.16		3.7		1.5	<	3		419
2M-SMA-3	SS2439	07/15/05	WT	UF	GU0507K243901		5.9		18900	<	6		531		2.8		1.9		12.2		11.3		25.6		14300
3M-SMA-0.5	SS2459	08/12/05	WT	F	GF0508K245901	<	0.2		434	<	6		37.2	<	1	<	0.1	<	1	<	1	<	3		220
3M-SMA-0.5	SS2459	08/12/05	WT	UF	GU0508K245901		0.75		222000		51.5		2860		26.2		5.4		98.5		145		201		199000
3M-SMA-0.5	SS2459	09/29/05	WT	F	GF0509K245901	<	0.2		929	<	6		20.6	<	1		0.1		1.4	<	1		4.1		421
3M-SMA-0.5	SS2459	09/29/05	WT	F	GF0510K245901	<	0.2		2050	<	6		30.2	<	1	<	0.1		1.8		1.2		3.8		920
3M-SMA-0.5	SS2459	09/29/05	WT	UF	GU0509K245901		0.24		65000		12.6		516		4.2		1		17.2		37.3		48.2		46800
3M-SMA-0.5	SS2459	09/29/05	WT	UF	GU0510K245901	<	0.2		10800	<	6		95.5	<	1		0.18		1.3		5.6		9.7		6160
3M-SMA-0.6	SS2457	07/15/05	WT	F	GF0507K245701	<	0.2		378	<	6		40.3		1.8		0.29		9.4	<	1		88.3		249
3M-SMA-0.6	SS2457	07/15/05	WT	UF	GU0507K245701	<	0.2		13600	<	6		156		16.5		0.9		3		12.3		360		9030
3M-SMA-0.6	SS2457	08/06/05	WT	F	GF0508K245701	<	0.2		374	<	6		33.8		2.6		0.28		1.7	<	1		102		190
3M-SMA-0.6	SS2457	08/06/05	WT	UF	GU0508K245701		0.74		10300	<	6		147		17.2		1.2		3		9.5		428		5950
3M-SMA-0.6	SS2457	08/23/05	WT	F	GF0508K245703	<	0.2		644	<	6		22.4	<	1		0.15	<	1	<	1		77.4		317
3M-SMA-0.6	SS2457	08/23/05	WT	UF	GU0508K245703		3		82300		19.7		732		91.6		4		17.1		74.6		2210		58600
3M-SMA-0.6	SS2457	09/23/05	WT	F	GF0509K245701	<	0.2		1230	<	6		38.7		1.4		0.17		1.5		1		85.2		633
3M-SMA-0.6	SS2457	09/23/05	WT	UF	GU0509K245701		0.4		11100	<	6		116		10.4		0.65		1.4		8.6		279		6990
ACID-SMA-2	E0555	07/15/05	WT	F	GF0507E055501	<	0.2		225	<	6		34.1	<	1	<	0.1		1.4		2.9	<	3.9		343
ACID-SMA-2	E0555	07/15/05	WT	UF	GU0507E055501		2.9		64300		17.2		639		4.7		4.2		17.6		71.4		123		60400
ACID-SMA-2	E0555	08/05/05	WT	F	GF0508E055501	<	0.2		1110	<	6		16.2	<	1	<	0.1	<	1		2.7		3.6		603
ACID-SMA-2	E0555	08/05/05	WT	UF	GU0508E055501		1.2		38200		14.7		309		2.5		1.1		7.3		29.3		43.4		28000
ACID-SMA-2	E0555	08/12/05	WT	F	GF0508E055502		0.23		2790	<	6		18.9	<	1		0.11	<	1	<	3.2		5.3		1490
ACID-SMA-2	E0555	08/12/05	WT	UF	GU0508E055502		0.91		19300	<	6		116		1.3		0.8		2.8		14.8		23		12700
ACID-SMA-2	E0555	08/25/05	WT	F	GF0508E055503	<	0.2		89.8	<	6		13.4	<	1	<	0.1	<	1	<	1.6	<	3	<	59.7
ACID-SMA-2	E0555	08/25/05	WT	UF	GU0508E055503		1.7		37200		6.8		261		2.3		1.3		7.6		29.7		36.9		26900
ACID-SMA-2	E0555	09/28/05	WT	UF	GU0509E055502		0.97		19900		6.5		168		1.4		1.1		4.1		16.6		26.7		14600
ACID-SMA-2	E056	08/12/05	WT	F	GF05080E05601	<	0.2		1390	<	6		15.4	<	1	<	0.1		3.2		3.4		3.2		763
ACID-SMA-2	E056	08/12/05	WT	UF	GU05080E05601	<	0.2		11200	<	6		156	<	1		0.87		4.2		11.4		24.5		8170
ACID-SMA-2	E056	08/24/05	WT	F	GF05080E05602	<	0.2		602	<	6		15.2	<	1	<	0.1		2.4		1.2	<	3		359
ACID-SMA-2	E056	08/24/05	WT	UF	GU05080E05602		1.9		68600		18.6		903		6.4		5.8		32.7		66		131		59100
ACID-SMA-2	E056	09/28/05	WT	F	GF05090E05601	<	0.2		956	<	6		13.6	<	1	<	0.1		3.4		3.2				502
ACID-SMA-2	E056	09/28/05	WT	UF	GU05090E05601		0.59		21900		7.6		221		1.5		1.6		6.9		20.1		34.5		15100
A-SMA-1	KAS1	07/17/05	WT	F	GF05070KAS101	<	0.2	<	68	<	6		24.5	<	1	<	0.1		2.3	<	1		19.5		31.5
A-SMA-1	KAS1	07/17/05	WT	UF	GU05070KAS101	<	0.2		1570	<	6		97.4	<	1		0.6	<	1		1.9		72.4		1100
A-SMA-1	KAS1	09/28/05	WT	F	GF05100KAS101	<	0.2	<	68	<	6		10.2	<	1	<	0.1		3.7	<	1		5.7	<	18
A-SMA-1	KAS1	09/28/05	WT	UF	GU05100KAS101	<	0.2		4160	<	6		57.9	<	1		0.25		1.2		3.5		33.3		3110
A-SMA-3	KAS3	09/28/05	WT	F	GF05100KAS301	<	0.2		1500	<	6		45.6	<	1	<	0.1		2.2		1.1		5.2		738
A-SMA-3	KAS3	09/28/05	WT	UF	GU05100KAS301		0.39		46300		12.1		467		4.4		1.5		13.2		23.7		71.4		31200

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	E243.5	04/16/05	WT	F	GF0504E243501				325		2.6		4.2	<	0.5		79.6	<	2.5	<	0.4	<	1		1240
2M-SMA-1	E243.5	04/16/05	WT	UF	GU0504E243501	<	0.05		54.5	<	2		1.5		3.8		64.3	<	2.9	<	0.4		1.7		316
2M-SMA-1	E243.5	04/24/05	WT	F	GF0504E243502				60	<	2		1.9		0.58		124	<	2.5	<	0.4	<	1		699
2M-SMA-1	E243.5	04/24/05	WT	UF	GU0504E243502				65	<	2		2.2		3.5		126	<	2.5	<	0.4		2.1		712
2M-SMA-1	E243.5	05/03/05	WT	UF	GU0505E243501	<	0.05																		
2M-SMA-1	E243.5	05/27/05	WT	F	GF0505E243501				132	<	2		3.9		0.66		213	<	2.5	<	0.4	<	1		742
2M-SMA-1	E243.5	05/27/05	WT	UF	GU0505E243502		0.066		249	<	2		8.4		16.8		238	<	2.5	<	0.4		10.9		1020
2M-SMA-1	E243.5	06/11/05	WT	F	GF0506E243501				112		2.6		3.2		1.7		153	<	2.5	<	0.4	<	3.1		919
2M-SMA-1	E243.5	06/11/05	WT	UF	GU0506E243501		0.074		100	<	2		3.1		5.5		172	<	2.5	<	0.4	<	4.4		971
2M-SMA-1	SS2432	05/27/05	WT	F	GF0506K243201				40.9	<	2		0.73	<	0.5	<	0.5	<	2.5	<	0.4	<	1		20.3
2M-SMA-1	SS2432	05/27/05	WT	UF	GU0506K243201		0.2		91.6	<	2		1.8		8.6	<	0.5	<	2.5	<	0.4		2		37.1
2M-SMA-1	SS2432	06/13/05	WT	F	GF0506K243202				61.4	<	2		1.2		0.93	<	0.5	<	2.5	<	0.4	<	3.1		38.1
2M-SMA-1	SS2432	06/13/05	WT	UF	GU0506K243202		0.14		65.6	<	2		1.8		3.6	<	0.5	<	2.5	<	0.4	<	4.9		52.4
2M-SMA-1	SS2432	06/26/05	WT	F	GF0506K243203				40.6	<	2		1.3		2	<	0.5	<	2.5	<	0.4		1.1		32.5
2M-SMA-1	SS2432	06/26/05	WT	UF	GU0506K243203		0.088		54.5	<	2		1.3		2.5	<	0.5	<	2.5	<	0.4		2.7		23.5
2M-SMA-1	SS2432	07/23/05	WT	F	GF0507K243202				22.1	<	2		0.67	<	0.5	<	0.5	<	2.5		0.42		1	<	21.1
2M-SMA-1	SS2432	07/23/05	WT	UF	GU0507K243201		0.15		1040		2.1		19.8		75.5	<	0.74	<	2.5		0.67		48.7		302
2M-SMA-3	SS2439	07/15/05	WT	F	GF0507K243901				469	<	2		1.8		1.2	<	0.5	<	2.5	<	0.4		2.1	<	11.2
2M-SMA-3	SS2439	07/15/05	WT	UF	GU0507K243901	<	0.05		1520	<	2		13.4		87	<	0.5	<	2.5	<	0.4		28.6		108
3M-SMA-0.5	SS2459	08/12/05	WT	F	GF0508K245901				55.2	<	2		1.4	<	0.5	<	0.5	<	2.5	<	0.4		1.7	<	5.3
3M-SMA-0.5	SS2459	08/12/05	WT	UF	GU0508K245901				7540		4.9		123		244	<	0.5	<	2.5		2		332		895
3M-SMA-0.5	SS2459	09/29/05	WT	F	GF0509K245901				22.1	<	2		1.1		0.53	<	0.5	<	2.5	<	0.4		2.4	<	4.8
3M-SMA-0.5	SS2459	09/29/05	WT	F	GF0510K245901				9.1		2		1.6		0.98	<	0.5	<	2.5	<	0.65		2.9		6.6
3M-SMA-0.5	SS2459	09/29/05	WT	UF	GU0509K245901				982	<	2		33.8		73.8	<	0.53	<	2.5	<	0.73		82.4		127
3M-SMA-0.5	SS2459	09/29/05	WT	UF	GU0510K245901				102	<	2		4.3		10.7	<	0.5	<	2.5	<	0.4		12		25.4
3M-SMA-0.6	SS2457	07/15/05	WT	F	GF0507K245701				328	<	2		4.2		11.2		3.4	<	2.5	<	0.4	<	1		22.7
3M-SMA-0.6	SS2457	07/15/05	WT	UF	GU0507K245701		0.26		541	<	2		6.5		161		3.7	<	2.5	<	0.4		14.4		96.1
3M-SMA-0.6	SS2457	08/06/05	WT	F	GF0508K245701				223	<	2		2.1		18		2.7	<	2.5	<	0.4		1.1		21
3M-SMA-0.6	SS2457	08/06/05	WT	UF	GU0508K245701	<	0.05		427	<	2		10.8		245		5.7	<	2.5	<	0.4		10.8		86.4
3M-SMA-0.6	SS2457	08/23/05	WT	F	GF0508K245703				38.8	<	2		1.3		9.2		4.8	<	2.5	<	0.4		1.5		18.2
3M-SMA-0.6	SS2457	08/23/05	WT	UF	GU0508K245703	<	0.05		1300		2.3		34.3		1290		9.3	<	2.5		0.52		89.1		511
3M-SMA-0.6	SS2457	09/23/05	WT	F	GF0509K245701				21.8	<	2		2		7.6		6.3	<	2.5		0.69		1.4		22.4
3M-SMA-0.6	SS2457	09/23/05	WT	UF	GU0509K245701		0.095		277	<	2		7.2		107		3.9	<	2.5	<	0.4		11.2		75.2
ACID-SMA-2	E0555	07/15/05	WT	F	GF0507E055501				285		2.2		2.1		1.8		0.66	<	2.5	<	0.4		2.5		29.5
ACID-SMA-2	E0555	07/15/05	WT	UF	GU0507E055501				2070		7.6		42.2		260		3.8	<	2.5		1.1		86.9		922
ACID-SMA-2	E0555	08/05/05	WT	F	GF0508E055501				11.7	<	2		1.5		1.7	<	0.54	<	2.5	<	0.4		3		18.1
ACID-SMA-2	E0555	08/05/05	WT	UF	GU0508E055501		0.18		727		3.3		13.5		79.1	<	0.93	<	2.5	<	0.4		44.2		293
ACID-SMA-2	E0555	08/12/05	WT	F	GF0508E055502				10.2		2.1		1.9		3.9	<	0.61	<	2.5	<	0.4		4.1		35.5
ACID-SMA-2	E0555	08/12/05	WT	UF	GU0508E055502				269		2.9		8.4		52.4	<	0.67	<	2.5	<	0.4		21.5		157
ACID-SMA-2	E0555	08/25/05	WT	F	GF0508E055503			<	2	<	2		0.68	<	0.5	<	0.5	<	2.5	<	0.4		2.2	<	8.4
ACID-SMA-2	E0555	08/25/05	WT	UF	GU0508E055503		0.091		677		3.8		16.1		96.5		0.71	<	2.5		0.55		45.2		257
ACID-SMA-2	E0555	09/28/05	WT	UF	GU0509E055502				442	<	2		10.2		77.4	<	0.76	<	2.5	<	0.4		22.6		172
ACID-SMA-2	E056	08/12/05	WT	F	GF05080E05601				11.7	<	2		1.4		1.6	<	0.5	<	2.5	<	0.4		2.8		16.8
ACID-SMA-2	E056	08/12/05	WT	UF	GU05080E05601				481	<	2		6		62.8	<	0.5	<	2.5	<	0.4		17.8		211
ACID-SMA-2	E056	08/24/05	WT	F	GF05080E05602				7.9	<	2		1.2		1.2	<	0.5	<	2.5	<	0.4		2.5	<	13.5
ACID-SMA-2	E056	08/24/05	WT	UF	GU05080E05602				3630		4.4		49.7		428		1	<	2.5		1.1		116		1310
ACID-SMA-2	E056	09/28/05	WT	F	GF05090E05601				9.9	<	2		1.2		1.1	<	0.5	<	2.5	<	0.4		2.1		11.2
ACID-SMA-2	E056	09/28/05	WT	UF	GU05090E05601				778	<	2		12.4		102	<	1	<	2.5	<	0.4		31.2		306
A-SMA-1	KAS1	07/17/05	WT	F	GF05070KAS101				108	<	2		1	<	0.5	<	0.5	<	2.5	<	0.4	<	1	<	10.2
A-SMA-1	KAS1	07/17/05	WT	UF	GU05070KAS101	<	0.05		199	<	2		3		26.9	<	0.5	<	2.5	<	0.4		3.5		50.8
A-SMA-1	KAS1	09/28/05	WT	F	GF05100KAS101				8.5	<	2		1	<	0.5	<	0.5	<	2.5		0.51	<	1	<	2
A-SMA-1	KAS1	09/28/05	WT	UF	GU05100KAS101		0.06		103	<	2		3.2		13.4	<	0.5	<	2.5	<	0.4		5.5		28.8
A-SMA-3	KAS3	09/28/05	WT	F	GF05100KAS301				211	<	2		2		0.91	<	0.5	<	2.5	<	0.4		1.7		7
A-SMA-3	KAS3	09/28/05	WT	UF	GU05100KAS301		0.46		1450		2.4		22.7		103		0.6	<	2.5		0.93		45.3		144

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
B-SMA-1	SS067	08/04/05	WT	F	GF05080K06701	<	0.2		1550	<	6		49.3	<	1		0.11		6		1.6		5.1		958
B-SMA-1	SS067	08/04/05	WT	UF	GU05080K06701		0.25		35200		6.3		335		2.2		0.67		10.2		22.1		21.1		24100
B-SMA-1	SS067	08/12/05	WT	F	GF05080K06702	<	0.2		615	<	6		25.9	<	1	<	0.1		2.4		1	<	3		399
B-SMA-1	SS067	08/12/05	WT	UF	GU05080K06702	<	0.2		6430	<	6		70.4	<	1		0.17		2.3		3.1		5.1		3720
B-SMA-1	SS067	08/22/05	WT	F	GF05080K06703		0.21		38300		8.2		258		2		0.34		6.3		21.6		16.1		24300
B-SMA-1	SS067	08/22/05	WT	UF	GU05080K06703		0.92		104000		22.9		928		6.7		1.3		31.5		69.6		55.8		81700
B-SMA-1	SS067	08/24/05	WT	F	GF05080K06704	<	0.2		615	<	6		17.8	<	1	<	0.1	<	1	<	1	<	3		365
B-SMA-1	SS067	08/24/05	WT	UF	GU05080K06704		0.59		163000		38.4		1720		12.3		2.4		63.8		123		104		153000
B-SMA-1	SS067	09/29/05	WT	UF	GU05090K06701																				
CDB-SMA-2	SS2188	08/12/05	WT	F	GF0508K218801	<	0.2	<	68	<	6		13.3	<	1		0.12	<	1	<	1		7.1		41.6
CDB-SMA-2	SS2188	08/12/05	WT	UF	GU0508K218801		1.1		3600	<	6		33	<	1		0.43	<	1		2.2		17.8		1400
CDB-SMA-2	SS2188	09/28/05	WT	F	GF0509K218801	<	0.2	<	68	<	6		15.5	<	1	<	0.1		5		1.2		7.8		38
CDB-SMA-2	SS2188	09/28/05	WT	UF	GU0509K218801		0.27		787	<	6		21	<	1	<	0.1	<	1		1.5		12.6		331
CDB-SMA-2	SS2188	10/03/05	WT	F	GF0510K218801	<	0.2	<	68	<	6		23.4	<	1	<	0.1		2		1.4		11.9		28.4
CDB-SMA-2	SS2188	10/03/05	WT	UF	GU0510K218801		0.21		72.8	<	6		23.6	<	1	<	0.1	<	1		1.4		12		53
CDB-SMA-4	E227	07/17/05	WT	F	GF05070E22701	<	0.2		237	<	6		39.4	<	1	<	0.1		1.2	<	1		5.5		153
CDB-SMA-4	E227	07/17/05	WT	UF	GU05070E22701		1		8920	<	6		312		2		1.6		6.7		7.4		33.7		5050
CDB-SMA-4	E227	08/12/05	WT	F	GF05080E22701	<	0.2	<	68	<	6		15.8	<	1	<	0.1	<	1	<	1		3	<	48.7
CDB-SMA-4	E227	08/12/05	WT	UF	GU05080E22701		0.21		15800	<	6		125		1.1		0.39		3.2		8.8		12.6		9470
CDB-SMA-4	E227	08/13/05	WT	F	GF05080E22702	<	0.2		432	<	6		22.5	<	1	<	0.1		2.3	<	1	<	3		222
CDB-SMA-4	E227	08/13/05	WT	UF	GU05080E22702		1.1		54200		13.5		473		4.4		1.8		14.4		35.8		44.5		41300
CDB-SMA-4	E227	10/09/05	WT	F	GF05100E22702	<	0.2		1020	<	6		16.7	<	1	<	0.1		5.2		1.3	<	3		550
CDB-SMA-4	E227	10/09/05	WT	UF	GU05100E22702		0.38		74200		19.1		733		6.6		0.61		23.4		48.2		59.2		57700
CDV-SMA-1	SS254	07/15/05	WT	F	GF05070K25401	<	0.2		3050	<	6		36.4	<	1	<	0.1	<	1		2.6		7.9		1540
CDV-SMA-1	SS254	07/15/05	WT	UF	GU05070K25401	<	0.2		3090		6.2		36.5	<	1	<	0.1	<	1		2.9		7.7		1580
CDV-SMA-1	SS254	08/04/05	WT	F	GF05080K25401	<	0.2		901	<	6		26.1	<	1	<	0.1		2.1	<	1		11		451
CDV-SMA-1	SS254	08/04/05	WT	UF	GU05080K25401	<	0.2		7190	<	6		92.7	<	1		0.12		3.5		8.2		27.9		4360
CDV-SMA-1	SS254	08/12/05	WT	F	GF05080K25402		4.9		709	<	6		36.5	<	1	<	0.1	<	1	<	1.3	<	3		327
CDV-SMA-1	SS254	08/12/05	WT	UF	GU05080K25402	<	0.2		22800	<	6		245		1.2		0.21		4.5		17		44		14300
CDV-SMA-1	SS254	08/24/05	WT	F	GF05080K25403	<	0.2		874				32.1				0.5				3.1		29.6		452
CDV-SMA-1	SS254	08/24/05	WT	UF	GU05080K25403		0.21		22400	<	6		181		1		0.56		3.6		14.6		50.9		13200
CDV-SMA-1.4	SS2542	07/15/05	WT	F	GF0507K254201		2.1		214	<	6		23.1	<	1	<	0.1	<	1	<	1	<	3		98
CDV-SMA-1.4	SS2542	07/15/05	WT	UF	GU0507K254201		14		7300	<	6		73.3	<	1		0.17		1.6		4		4.6		3820
CDV-SMA-1.4	SS2542	08/08/05	WT	F	GF0508K254201		6.7		1130	<	6		36.4	<	1	<	0.1		1.5		1.5	<	3		533
CDV-SMA-1.4	SS2542	08/08/05	WT	UF	GU0508K254201		127		10500	<	6		98.7	<	1		0.2		1.7		6.6		5.8		5580
CDV-SMA-1.4	SS2542	08/12/05	WT	F	GF0508K254202	<	0.2		2610	<	6		26.5	<	1	<	0.1	<	1	<	1.9		6.8		1150
CDV-SMA-1.4	SS2542	08/12/05	WT	UF	GU0508K254202		25.3		10600	<	6		90.4	<	1		0.15		1		6.2		5.3		5540
CDV-SMA-1.4	SS2542	08/24/05	WT	F	GF0508K254203		1.5		635	<	6		21.4	<	1	<	0.1	<	1.2	<	1	<	3		311
CDV-SMA-1.4	SS2542	08/24/05	WT	UF	GU0508K254203		71.9		18300	<	6		104	<	1		0.28	<	2.8		10.3		7		10400
CDV-SMA-1.5	SS2545	05/03/05	WT	F	GF0505K254201	<	0.2		13300	<	6		96.5	<	1		0.18		2.2		6.1		7.2		7210
CDV-SMA-1.5	SS2545	05/03/05	WT	UF	GU0505K254201		0.48		88000		12.6		513		3.7		0.79		11.2		45.2		35		51500
CDV-SMA-1.5	SS2545	05/27/05	WT	F	GF0505K254501	<	0.2		1530	<	6		56.1	<	1	<	0.1		3.8	<	1.1		3.3		751
CDV-SMA-1.5	SS2545	05/27/05	WT	UF	GU0505K254501		1.2		124000		26.3		969		4		1.7		24.1		66.8		67.9		77500
CDV-SMA-1.5	SS2545	07/15/05	WT	F	GF0507K254501	<	0.2		1020	<	6		155	<	1		0.19		6.3		1.1		5.6		521
CDV-SMA-1.5	SS2545	07/15/05	WT	UF	GU0507K254501		0.6		76500		12.6		646		4.2		0.77		17.7		41.6		38.5		48900
CDV-SMA-1.5	SS2545	08/04/05	WT	F	GF0508K254501	<	0.2		1080	<	6		87.6	<	1		0.11		4	<	1		5.7		674
CDV-SMA-1.5	SS2545	08/04/05	WT	UF	GU0508K254501		0.81		20100	<	6		158	<	1		0.21		4.4		10.1		10.9		11100

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
B-SMA-1	SS067	08/04/05	WT	F	GF05080K06701				401		2.1		3.2		0.68	<	0.5	<	2.5	<	0.4		4	<	13
B-SMA-1	SS067	08/04/05	WT	UF	GU05080K06701	<	0.05		1120		2.3		15.9		50.9	<	0.5	<	2.5		0.47		47.4		108
B-SMA-1	SS067	08/12/05	WT	F	GF05080K06702				331	<	2		2		0.73	<	0.5	<	2.5	<	0.4		1.8	<	7.5
B-SMA-1	SS067	08/12/05	WT	UF	GU05080K06702	<	0.05		516	<	2		3.9		8.1	<	0.5	<	2.5	<	0.4		6.8		20.6
B-SMA-1	SS067	08/22/05	WT	F	GF05080K06703				462	<	2		14		38.8	<	0.5	<	2.5	<	0.4		44.4		101
B-SMA-1	SS067	08/22/05	WT	UF	GU05080K06703	<	0.05		2790	<	5.9		44.4		168	<	0.5	<	2.5		1.3		140		328
B-SMA-1	SS067	08/24/05	WT	F	GF05080K06704				22.9	<	2		1.7	<	0.5	<	0.5	<	2.5	<	0.4		1.5	<	11.3
B-SMA-1	SS067	08/24/05	WT	UF	GU05080K06704	<	0.05		5860		8.7		49.4		238		0.54	<	2.5		1.1		240		603
B-SMA-1	SS067	09/29/05	WT	UF	GU05090K06701	<	0.05																		
CDB-SMA-2	SS2188	08/12/05	WT	F	GF0508K218801				56.8	<	2		2.5	<	0.5	<	0.5	<	2.5	<	0.4	<	1		37
CDB-SMA-2	SS2188	08/12/05	WT	UF	GU0508K218801	<	0.05		113	<	2		2.2		5	<	0.5	<	2.5	<	0.4		3.4		64.9
CDB-SMA-2	SS2188	09/28/05	WT	F	GF0509K218801				11.5	<	2		1.8	<	0.5	<	0.5	<	2.5	<	0.4		1.5		17.2
CDB-SMA-2	SS2188	09/28/05	WT	UF	GU0509K218801	<	0.05		22	<	2		1.4		1	<	0.5	<	2.5	<	0.4		2.2		17.5
CDB-SMA-2	SS2188	10/03/05	WT	F	GF0510K218801				4.2	<	2		2	<	0.5	<	0.5	<	2.5	<	0.4		1.5		11.5
CDB-SMA-2	SS2188	10/03/05	WT	UF	GU0510K218801				3.8	<	2		2	<	0.5	<	0.5	<	2.5	<	0.4		1.4		10
CDB-SMA-4	E227	07/17/05	WT	F	GF05070E22701				20.5	<	2		1.4	<	0.5		1.8	<	2.5	<	0.4		8.1	<	6.2
CDB-SMA-4	E227	07/17/05	WT	UF	GU05070E22701		0.057		773	<	2		36.6		49.8	<	1.1		2.5		0.87		27.1		185
CDB-SMA-4	E227	08/12/05	WT	F	GF05080E22701				7.9	<	2	<	0.5	<	0.5		4.3	<	2.5	<	0.4		2.7	<	4.1
CDB-SMA-4	E227	08/12/05	WT	UF	GU05080E22701	<	0.05		335	<	2		8.2		12.1		3.9	<	2.5	<	0.4		19.4		79.6
CDB-SMA-4	E227	08/13/05	WT	F	GF05080E22702				11.2	<	2		1.3	<	0.5	<	1.8	<	2.5	<	0.4		3.6	<	6.5
CDB-SMA-4	E227	08/13/05	WT	UF	GU05080E22702				1600	<	2		25.7		47.1	<	1.2	<	2.5		0.54		71.8		323
CDB-SMA-4	E227	10/09/05	WT	F	GF05100E22702				21.5	<	2		2.4		0.67		2.2	<	2.5	<	0.4		3.4		2.9
CDB-SMA-4	E227	10/09/05	WT	UF	GU05100E22702		0.11		2390		4.1		12.2		18.6		1.8	<	2.5	<	0.4		105		536
CDV-SMA-1	SS254	07/15/05	WT	F	GF05070K25401				114	<	2		1.4	<	0.5	<	0.5	<	2.5	<	0.4		5.1		18.2
CDV-SMA-1	SS254	07/15/05	WT	UF	GU05070K25401	<	0.05		112	<	2		1.6		2.4	<	0.5	<	2.5	<	0.4		5.1		18.1
CDV-SMA-1	SS254	08/04/05	WT	F	GF05080K25401				279	<	2		1.3	<	0.95	<	0.5	<	2.5	<	0.4		3.8	<	8.3
CDV-SMA-1	SS254	08/04/05	WT	UF	GU05080K25401	<	0.05		454	<	2		3.9		6.3	<	0.5	<	2.5	<	0.4		15.8		23.9
CDV-SMA-1	SS254	08/12/05	WT	F	GF05080K25402				5.1	<	2		1.1	<	0.5	<	0.5	<	2.5	<	0.4		2.6		42.8
CDV-SMA-1	SS254	08/12/05	WT	UF	GU05080K25402		0.081		384	<	2		7.6		21	<	0.5	<	2.5	<	0.4		28.2		70.5
CDV-SMA-1	SS254	08/24/05	WT	F	GF05080K25403				52		2.5		4.1		9		0.7	<	2.5		0.46		2.5		36.1
CDV-SMA-1	SS254	08/24/05	WT	UF	GU05080K25403		0.47		280	<	2		9.6		63.8	<	0.5	<	2.5	<	0.4		23.6		79.9
CDV-SMA-1.4	SS2542	07/15/05	WT	F	GF0507K254201				142	<	2		0.66	<	0.5	<	0.5	<	2.5	<	0.4		1	<	5.2
CDV-SMA-1.4	SS2542	07/15/05	WT	UF	GU0507K254201	<	0.05		174	<	2		3		3.4	<	0.5	<	2.5	<	0.4		7.9		21.9
CDV-SMA-1.4	SS2542	08/08/05	WT	F	GF0508K254201				71.4	<	2		1.2	<	0.5	<	0.5	<	2.5	<	0.4		3.4	<	7
CDV-SMA-1.4	SS2542	08/08/05	WT	UF	GU0508K254201	<	0.05		187	<	2		4.4		6.4	<	0.5	<	2.5	<	0.4		10.9		24
CDV-SMA-1.4	SS2542	08/12/05	WT	F	GF0508K254202				10	<	2		1.3		0.99	<	0.5	<	2.5	<	0.4		3.8		42.6
CDV-SMA-1.4	SS2542	08/12/05	WT	UF	GU0508K254202	<	0.05		71.4	<	2		4.1		4.3	<	0.5	<	2.5	<	0.4		11	<	32.2
CDV-SMA-1.4	SS2542	08/24/05	WT	F	GF0508K254203				19.8	<	2		2.3	<	0.5	<	0.5	<	2.5	<	0.4		2		11.6
CDV-SMA-1.4	SS2542	08/24/05	WT	UF	GU0508K254203	<	0.05		114	<	2		6.7		8.1	<	0.5	<	2.5	<	0.4		16.2		45.3
CDV-SMA-1.5	SS2545	05/03/05	WT	F	GF0505K254201				88.2	<	2		5.6		7.4	<	0.5	<	2.5	<	0.4		13.1		29.9
CDV-SMA-1.5	SS2545	05/03/05	WT	UF	GU0505K254201		0.091		554	<	2		29.7		46.7	<	0.5	<	2.5		0.93		86.9		190
CDV-SMA-1.5	SS2545	05/27/05	WT	F	GF0505K254501				174	<	2		3.1		0.51	<	0.5	<	2.5	<	0.4		2.3		15.9
CDV-SMA-1.5	SS2545	05/27/05	WT	UF	GU0505K254501	<	0.05		1540	<	2		65		84.4	<	0.5	<	2.5		1.4		145		331
CDV-SMA-1.5	SS2545	07/15/05	WT	F	GF0507K254501				631	<	2		6.4	<	0.5	<	0.5	<	2.5	<	0.4		5.2		30.2
CDV-SMA-1.5	SS2545	07/15/05	WT	UF	GU0507K254501		0.095		1230	<	2		31.5		49.2	<	0.5	<	2.5		0.86		84		216
CDV-SMA-1.5	SS2545	08/04/05	WT	F	GF0508K254501				297	<	2		4	<	0.5		0.54	<	2.5	<	0.4		5.3		18.1
CDV-SMA-1.5	SS2545	08/04/05	WT	UF	GU0508K254501	<	0.05		304	<	2		8.8		7.3	<	0.5	<	2.5	<	0.4		20.4		45.6

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
CDV-SMA-2	SS255	08/24/05	WT	F	GF05080K25501	<	0.2		1130	<	6		2020	<	1	<	0.1		2.6	<	1	<	3		523
CDV-SMA-2	SS255	08/24/05	WT	UF	GU05080K25501		0.92		45000		9.2		8010		2.7		0.63		7.2		20.2		21.3		25600
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	GU0507K255701	<	0.2		8570	<	6		17000		7.8		1.9		28.8		6.1		30.7		9560
CDV-SMA-2.4	SS2557	08/04/05	WT	F	GF0508K255701	<	0.2		1120	<	6		1910	<	1	<	0.1		1.3		1.1		4.7		549
CDV-SMA-2.4	SS2557	08/04/05	WT	UF	GU0508K255701		1.4		36200		7.4		67800		23.4		5.9		102		23.7		84.9		14700
CDV-SMA-2.4	SS2557	08/22/05	WT	F	GF0508K255702	<	0.2		1310	<	6		807	<	1	<	0.1	<	1	<	1		3		642
CDV-SMA-2.4	SS2557	08/22/05	WT	UF	GU0508K255702		0.29		94300		17.5		8810		6.6		0.76		18.9		52.2		62.8		66800
CDV-SMA-2.4	SS2557	09/04/05	WT	F	GF0509K255701	<	0.2		590	<	6		898	<	1	<	0.1	<	1	<	1	<	3		294
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	GU0509K255701		1.7		78200		14.1		7470		5.1		1.1		13.7		42.5		54.8		56300
CDV-SMA-2.4	SS2557	10/04/05	WT	F	GF0510K255701	<	0.2		1750	<	6		842	<	1	<	0.1		3.5		1.3	<	3		860
DP-SMA-0.3	SS0375	08/04/05	WT	F	GF0508K037501	<	0.2		384	<	6		30.4	<	1	<	0.1		2.2	<	1		4.1		231
DP-SMA-0.3	SS0375	08/04/05	WT	UF	GU0508K037501	<	0.2		3270	<	6		46.7	<	1	<	0.1		1.5		1.7		4.5		1830
DP-SMA-0.3	SS0375	08/12/05	WT	F	GF0508K037502	<	0.2		408	<	6		27.6	<	1	<	0.1		1.9	<	1		3		256
DP-SMA-0.3	SS0375	08/12/05	WT	UF	GU0508K037502	<	0.2		40700		8.8		415		2.2		0.76		11		26.2		31.8		29700
DP-SMA-0.3	SS0375	08/22/05	WT	F	GF0508K037503	<	0.2		563	<	6		20.7	<	1	<	0.1	<	1	<	1	<	3		307
DP-SMA-0.3	SS0375	08/22/05	WT	UF	GU0508K037503	<	0.2		17000	<	6		168	<	1		0.26		4.2		10.7		12.4		11600
DP-SMA-0.3	SS0375	08/24/05	WT	F	GF0508K037504	<	0.2		2170	<	6		57.3	<	1		0.13		1.8		1.7		4.8		1140
DP-SMA-0.3	SS0375	08/24/05	WT	UF	GU0508K037504		0.34		77800		14.8		626		3.9		1.5		21.1		53.7		51.7		61000
DP-SMA-0.9	SS0388	08/12/05	WT	F	GF0508K038801	<	0.2		989	<	6		29.2	<	1	<	0.1		1		1.3		5.3		516
DP-SMA-0.9	SS0388	08/12/05	WT	UF	GU0508K038801	<	0.2		4620	<	6		53.3	<	1		0.12	<	1		2.8		6.8		2380
DP-SMA-0.9	SS0388	08/22/05	WT	F	GF0508K038802	<	0.2		698	<	6		16.4	<	1	<	0.1	<	1		1.1		3.1		408
DP-SMA-0.9	SS0388	08/22/05	WT	UF	GU0508K038802	<	0.2		3940	<	6		35.4	<	1	<	0.1	<	1		2.7		4.7		2240
DP-SMA-0.9	SS0388	08/24/05	WT	F	GF0508K038803	<	0.2		2670	<	6		74.9	<	1	<	0.1	<	1		1.6		3.6		1340
DP-SMA-0.9	SS0388	08/24/05	WT	UF	GU0508K038803		0.27		32500		7.9		325		2		1.3		6.8		22.7		30.5		26000
DP-SMA-0.9	SS0388	09/29/05	WT	F	GF0509K038801	<	0.2		721	<	6		19.2	<	1	<	0.1	<	1	<	1		5		400
DP-SMA-0.9	SS0388	09/29/05	WT	UF	GU0509K038801	<	0.2		6200	<	6		61.9	<	1		0.18		1.1		5		5		3290
DP-SMA-1	SS0385	08/22/05	WT	F	GF0508K038501	<	0.2		944	<	6		23.1	<	1	<	0.1	<	1		1.4		3.4		501
DP-SMA-1	SS0385	08/22/05	WT	UF	GU0508K038501		0.41		80400		12.1		605		4.1		1		16.7		44.3		44.3		46500
DP-SMA-1	SS0385	08/24/05	WT	F	GF0508K038502	<	0.2		679	<	6		57.7	<	1	<	0.1	<	1	<	1		3.8		1510
DP-SMA-1	SS0385	08/24/05	WT	UF	GU0508K038502		0.64		121000		16.4		750		5.5		1.9		22.1		70		62		78100
DP-SMA-1	SS0385	10/03/05	WT	F	GF0510K038501	<	0.2		3050	<	6		55.6	<	1		0.11		1.2		1.8		5.3		1510
DP-SMA-1	SS0385	10/03/05	WT	UF	GU0510K038501	<	0.2		39500		7.6		207		1.8		0.6		4.7		20.1		17.2		22900
DP-SMA-2	SS0387	08/12/05	WT	F	GF0508K038701	<	0.2		2100	<	6		43.8	<	1		0.12	<	1		3.1		12.1		1120
DP-SMA-2	SS0387	08/12/05	WT	UF	GU0508K038701		2.2		64100		18.2		358		3.5		1.1		9.2		45.7		52.9		39800
DP-SMA-2	SS0387	08/22/05	WT	F	GF0508K038702	<	0.2		1330	<	6		56.1	<	1	<	0.1	<	1		3.5		9.3		6250
DP-SMA-2	SS0387	08/22/05	WT	UF	GU0508K038702		2.1		160000		34		1560		11		3.1		54.1		120		163		121000
DP-SMA-2	SS0387	08/24/05	WT	F	GF0508K038703	<	0.2		315	<	6		126	<	1	<	0.1	<	1		1.4		7.2		223
DP-SMA-2	SS0387	08/24/05	WT	UF	GU0508K038703		0.57		48900		10.5		305		2.2		0.8		7.5		31.1		33.8		31100
DP-SMA-2	SS0387	10/03/05	WT	F	GF0510K038701	<	0.2		71.5	<	6		53.9	<	1	<	0.1	<	1		1		4.4		51.1
DP-SMA-2	SS0387	10/03/05	WT	UF	GU0510K038701	<	0.2		48000		10.4		322		2.4	<	0.1		9		30.3		35		33100
F-SMA-2	SS26757	08/22/05	WT	F	GF05082675701	<	0.2		766	<	6		115	<	1	<	0.1		4.6		1.1		28.8		451
F-SMA-2	SS26757	08/22/05	WT	UF	GU05082675701		4.9		96600		20.6		2080		7		8.3		29.2		59.9		479		71300
LA-SMA-1 (A)	SS0263	07/15/05	WT	UF	GU0507K026301		1.2		147000		55.7		2740		14.3		10		125		270		460		159000
LA-SMA-1 (A)	SS0263	07/20/05	WT	F	GF0507K026301	<	0.2		536	<	6		25.4	<	1		0.11		1.7		2.9		8.4		328
LA-SMA-1 (A)	SS0263	07/20/05	WT	UF	GU0507K026302		0.88		41100		13.6		508		2.5		2		18.5		49.8		89.3		35200
LA-SMA-1 (A)	SS0263	08/04/05	WT	F	GF0508K026301	<	0.2		790	<	6		27.4	<	1	<	0.1	<	1		4.1		10.3		464
LA-SMA-1 (A)	SS0263	08/04/05	WT	UF	GU0508K026301	<	0.2		16600	<	6		206		1.1		0.93		7.9		23.8		46.6		13600
LA-SMA-1 (A)	SS0263	08/24/05	WT	F	GF0508K026303	<	0.2		899	<	6		23	<	1	<	0.1	<	4.3	<	3.1	<	3		495
LA-SMA-1 (A)	SS0263	08/24/05	WT	UF	GU0508K026304		1		65800		15.2		806		4.3		3		31		80.8		130		62900
LA-SMA-1 (A)	SS0263	09/07/05	WT	F	GF0509K026301	<	0.2		398	<	6		17.1	<	1	<	0.1		2.1		1.6		5.1		242
LA-SMA-1 (A)	SS0263	09/07/05	WT	UF	GU0509K026301		0.22		19300	<	6		210		1		0.68		6.7		18.6		33.1		14000
LA-SMA-1 (B)	SS0264	05/01/05	WT	F	GF0505K026402	<	0.2		207	<	6		55.4	<	1		0.1		3.4		1.5		5.6		150
LA-SMA-1 (B)	SS0264	05/01/05	WT	UF	GU0505K026402		0.27		11000	<	6		214	<	1		0.98		7.8		10.4		27.7		8330
LA-SMA-1 (B)	SS0264	05/03/05	WT	F	GF0505K026401	<	0.2		782	<	6		23.1	<	1	<	0.1		1.3		3		6		500
LA-SMA-1 (B)	SS0264	05/03/05	WT	UF	GU0505K026401		0.29		35600		11.8		448	<	1		1.4		14.9		32.8		57.3		29100
LA-SMA-1 (B)	SS0264	05/31/05	WT	F	GF0506K026401	<	0.2		343		9.6		88.6	<	1	<	0.1		6.6	<	3.6		10.4		1200
LA-SMA-1 (B)	SS0264	05/31/05	WT	UF	GU0506K026401		0.22		25700		6		281		1.5		0.96		10		25.6		47.8		20100

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
CDV-SMA-2	SS255	08/24/05	WT	F	GF05080K25501				7	<	2		1.5	<	0.5	<	0.5	<	2.5		0.47		2.7	<	5.4
CDV-SMA-2	SS255	08/24/05	WT	UF	GU05080K25501	<	0.05		494	<	2		14		23.6	<	0.5	<	2.5		0.5		37.7		86
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	GU0507K255701		0.16		4140	<	2		20		38.9	<	1.8	<	2.5	<	0.4		45.7		208
CDV-SMA-2.4	SS2557	08/04/05	WT	F	GF0508K255701				19.4		3.8		1.2		0.74	<	1.4	<	2.5	<	0.4		3.5		5.3
CDV-SMA-2.4	SS2557	08/04/05	WT	UF	GU0508K255701		0.13		14800	<	2		55.1		113	<	2	<	2.5		0.53		104		683
CDV-SMA-2.4	SS2557	08/22/05	WT	F	GF0508K255702				11	<	2		1		0.56		0.82	<	2.5	<	0.4		2.4	<	5.9
CDV-SMA-2.4	SS2557	08/22/05	WT	UF	GU0508K255702	<	0.05		1450		3.9		13.8		25		0.84	<	2.5	<	0.4		98.4		234
CDV-SMA-2.4	SS2557	09/04/05	WT	F	GF0509K255701				4		2.2		0.86	<	0.5		0.98	<	2.5		0.45		2.2		3
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	GU0509K255701		0.15		949		3.5		31.7		72.1		1.1	<	2.5		1.4		79.6		182
CDV-SMA-2.4	SS2557	10/04/05	WT	F	GF0510K255701				9.9		2.7		1.4		0.73		1.1	<	2.5	<	0.4		2.3	<	2
DP-SMA-0.3	SS0375	08/04/05	WT	F	GF0508K037501				164	<	2		1.6	<	0.57	<	0.5	<	2.5	<	0.4		2.6	<	12.5
DP-SMA-0.3	SS0375	08/04/05	WT	UF	GU0508K037501	<	0.05		172	<	2		2.1		3.4	<	0.5	<	2.5	<	0.4		5.5		23.9
DP-SMA-0.3	SS0375	08/12/05	WT	F	GF0508K037502				164	<	2		2.3		0.75	<	0.5	<	2.5	<	0.4		1.9		18.5
DP-SMA-0.3	SS0375	08/12/05	WT	UF	GU0508K037502	<	0.05		963		2.1		18.1		55.3		2.6	<	2.5		0.57		58.5		181
DP-SMA-0.3	SS0375	08/22/05	WT	F	GF0508K037503				44.2	<	2		2.7		0.63	<	0.5	<	2.5	<	0.4		2.4	<	20.9
DP-SMA-0.3	SS0375	08/22/05	WT	UF	GU0508K037503	<	0.05		408	<	2		7.9		25	<	0.5	<	2.5	<	0.4		22		76.3
DP-SMA-0.3	SS0375	08/24/05	WT	F	GF0508K037504				98	<	2		3.2		1.7		2.1	<	2.5	<	0.4		3.6		33.3
DP-SMA-0.3	SS0375	08/24/05	WT	UF	GU0508K037504		0.071		1640		4.4		32.8		104		0.67	<	2.5		1		112		291
DP-SMA-0.9	SS0388	08/12/05	WT	F	GF0508K038801				103	<	2		2.3		0.87	<	0.5	<	2.5	<	0.4		3.1		28.5
DP-SMA-0.9	SS0388	08/12/05	WT	UF	GU0508K038801	<	0.05		41.4		3.7		2.8		3.5	<	0.78	<	2.5	<	0.4		5.9		42.5
DP-SMA-0.9	SS0388	08/22/05	WT	F	GF0508K038802				50.9	<	2		1.5		0.81	<	0.5	<	2.5	<	0.4		1.7	<	17.9
DP-SMA-0.9	SS0388	08/22/05	WT	UF	GU0508K038802	<	0.05		57.7	<	2.2		2		4	<	0.5	<	2.5	<	0.4		5.2		35.3
DP-SMA-0.9	SS0388	08/24/05	WT	F	GF0508K038803				15.1		4.6		2.5		1.4		0.62	<	2.5	<	0.4		3.3		28.3
DP-SMA-0.9	SS0388	08/24/05	WT	UF	GU0508K038803		0.058		624		7.1		16.2		42.9		1.8	<	2.5	<	0.4		42.9		253
DP-SMA-0.9	SS0388	09/29/05	WT	F	GF0509K038801				11.4		2.3		1.9		0.6	<	0.54	<	2.5	<	0.4		2.7		20.5
DP-SMA-0.9	SS0388	09/29/05	WT	UF	GU0509K038801	<	0.05		74.9		3.9		3.8		8	<	0.88	<	2.5	<	0.4		7.6		45.1
DP-SMA-1	SS0385	08/22/05	WT	F	GF0508K038501				6.2	<	2		1.7	<	0.5	<	0.5	<	2.5	<	0.4		4.4	<	13.7
DP-SMA-1	SS0385	08/22/05	WT	UF	GU0508K038501		0.13		1200	<	2.2		30.4		49.1	<	0.5	<	2.5		0.7		80.8		189
DP-SMA-1	SS0385	08/24/05	WT	F	GF0508K038502				9.6	<	2		2.1	<	0.5	<	0.5	<	2.5	<	0.4		3.5		59.8
DP-SMA-1	SS0385	08/24/05	WT	UF	GU0508K038502		0.15		1520		3.3		39.1		61		0.62	<	2.5		0.92		129		237
DP-SMA-1	SS0385	10/03/05	WT	F	GF0510K038501				11.1		2.8		1.9	<	0.5	<	0.5	<	2.5	<	0.4		5.9	<	6.6
DP-SMA-1	SS0385	10/03/05	WT	UF	GU0510K038501	<	0.05		221		2		10.9		14.4	<	0.5	<	2.5	<	0.4		37.9		62.9
DP-SMA-2	SS0387	08/12/05	WT	F	GF0508K038701				14.9		13.6		3.8		2.3		0.74	<	2.5	<	0.4		7.3		19.4
DP-SMA-2	SS0387	08/12/05	WT	UF	GU0508K038701				643		15.4		29.7		80.8	<	0.98	<	2.5		0.65		80.2		250
DP-SMA-2	SS0387	08/22/05	WT	F	GF0508K038702				63.9	<	5.4		2.6		1.3	<	0.5	<	2.5	<	0.4		5.4		49.3
DP-SMA-2	SS0387	08/22/05	WT	UF	GU0508K038702				4620	<	7.5		82.8		213		0.69	<	2.5		1.8		230		580
DP-SMA-2	SS0387	08/24/05	WT	F	GF0508K038703				152		8.9		3.8	<	0.5		0.67	<	2.5	<	0.4		4.4		10.6
DP-SMA-2	SS0387	08/24/05	WT	UF	GU0508K038703				608		8.3		16.5		33		0.68	<	2.5	<	0.4		54.8		123
DP-SMA-2	SS0387	10/03/05	WT	F	GF0510K038701				72.6		5.2		1.6	<	0.5	<	0.56	<	2.5	<	0.4		3.6	<	2
DP-SMA-2	SS0387	10/03/05	WT	UF	GU0510K038701				639		5.4		1.2		0.7	<	0.64	<	2.5	<	0.4		57.7		115
F-SMA-2	SS26757	08/22/05	WT	F	GF05082675701				61.3		2.5		3		0.92		0.82	<	2.5	<	0.4		4.9		12.6
F-SMA-2	SS26757	08/22/05	WT	UF	GU05082675701				2820		5.9		69		174		1.4	<	2.5		1.2		114		662
LA-SMA-1 (A)	SS0263	07/15/05	WT	UF	GU0507K026301				9130		9.5		129		1740		0.95	<	2.5		1.4		299		3760
LA-SMA-1 (A)	SS0263	07/20/05	WT	F	GF0507K026301				98.7		2.7		2.5		1.6		0.54	<	2.5	<	0.4		3.3		41.3
LA-SMA-1 (A)	SS0263	07/20/05	WT	UF	GU0507K026302				1160		6.3		32.6		160		2.5	<	2.5		0.52		64		583
LA-SMA-1 (A)	SS0263	08/04/05	WT	F	GF0508K026301				49.6		3.3		2.1		1.2	<	0.91	<	2.5	<	0.4		4.6		35.3
LA-SMA-1 (A)	SS0263	08/04/05	WT	UF	GU0508K026301				462		4.5		12.4		57.5	<	2.9	<	2.5	<	0.4		26.2		336
LA-SMA-1 (A)	SS0263	08/24/05	WT	F	GF0508K026303				12.5	<	2		1.8		1.1		0.58	<	2.5	<	0.4		2.2		11.2
LA-SMA-1 (A)	SS0263	08/24/05	WT	UF	GU0508K026304				2100	<	5		52.9		375		1.7	<	2.5		0.94		107		876
LA-SMA-1 (A)	SS0263	09/07/05	WT	F	GF0509K026301				8.1	<	2		1.5		0.63	<	0.5	<	2.5	<	0.4		2.6		10.4
LA-SMA-1 (A)	SS0263	09/07/05	WT	UF	GU0509K026301				453	<	2.1		12.4		65.4		1.2	<	2.5	<	0.4		27.1		230
LA-SMA-1 (B)	SS0264	05/01/05	WT	F	GF0505K026402				158		2.6		2.8	<	0.84		0.67	<	2.5	<	0.4		1.9		35.4
LA-SMA-1 (B)	SS0264	05/01/05	WT	UF	GU0505K026402	<	0.05		513		2.2		21.5		64.6		1.5	<	2.5	<	0.4		19.6		213
LA-SMA-1 (B)	SS0264	05/03/05	WT	F	GF0505K026401				35.7	<	2		1.6	<	1.2		0.69	<	2.5	<	0.4		3.4		14.9
LA-SMA-1 (B)	SS0264	05/03/05	WT	UF	GU0505K026401		0.079		1040	<	2		27.2		122		1.1	<	2.5		0.57		55.9		397
LA-SMA-1 (B)	SS0264	05/31/05	WT	F	GF0506K026401				546		15.4		8.5		2.5		1.5	<	2.5	<	0.4		6.3		86.1
LA-SMA-1 (B)	SS0264	05/31/05	WT	UF	GU0506K026401		0.31		764		12.7		22		49.3		2	<	2.5	<	0.4		41.5		313

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-1.2	SS02645	05/03/05	WT	F	GF0505K026505	<	0.2		968	<	6		19.8	<	1	<	0.1		1.7		1.7		5.6		517
LA-SMA-1.2	SS02645	05/03/05	WT	UF	GU0505K026506		0.49		15100		9.5		190		1.2		1.2		5.8		17.6		36.6		11400
LA-SMA-1.2	SS02645	07/15/05	WT	F	GF05070264501	<	0.2		206	<	6		24.1	<	1		0.14		2.3		1.2		6.1		156
LA-SMA-1.2	SS02645	07/15/05	WT	UF	GU05070264501	<	0.2		3140	<	6		61.4	<	1		0.29		5.5		4		21.9		1880
LA-SMA-1.2	SS02645	08/24/05	WT	F	GF05080264501	<	0.2		706	<	6		18	<	1	<	0.1		1.1		1.3		4.5		377
LA-SMA-1.2	SS02645	08/24/05	WT	UF	GU05080264501		1.1		58000		20		749		5.2		5.3		26.3		75.7		143		58700
LA-SMA-1.5(N)	SS02653	06/11/05	WT	F	GF05060265301	<	0.2		123	<	6		62.9	<	1		0.23		3.3		6.4		18.8		154
LA-SMA-1.5(N)	SS02653	06/11/05	WT	UF	GU05060265301	<	0.2		11800	<	6		217	<	1		1.2		4.8		22.8		61.7		8770
LA-SMA-1.5(N)	SS02653	07/15/05	WT	F	GF05070265302	<	0.2		301	<	6		50	<	1		0.11		1.4		3		7.3		243
LA-SMA-1.5(N)	SS02653	07/15/05	WT	UF	GU05070265302		0.24		25200		8.1		507		2		2.1		11.6		44.8		97.4		22000
LA-SMA-1.5(N)	SS02653	07/26/05	WT	F	GF05070265305	<	0.2		129	<	6		58.5	<	1		0.22		2.2		7.3		13.5		183
LA-SMA-1.5(N)	SS02653	07/26/05	WT	UF	GU05070265305	<	0.2		6870	<	6		140	<	1		0.78		3.7		16.8		47.8		5190
LA-SMA-4	SS0267	08/11/05	WT	F	GF0508K026701	<	0.2		346	<	6		19.4	<	1	<	0.1		2.6	<	1		4.5		136
LA-SMA-4	SS0267	08/11/05	WT	UF	GU0508K026701		0.36		66700		16.3		565		12.7		2.4		13.3		36.3		117		44600
LA-SMA-4	SS0267	08/22/05	WT	F	GF0508K026702	<	0.2		218	<	6		11.2	<	1	<	0.1	<	1		3.5		5.3	<	105
LA-SMA-4	SS0267	08/22/05	WT	UF	GU0508K026702		0.34		35200		11.7		388		6.5		1.8		7.9		21.1		99.6		18600
LA-SMA-4	SS0267	08/24/05	WT	F	GF0508K026703	<	0.2		572	<	6		17.9	<	1	<	0.1	<	4.2	<	1.1		4.5		166
LA-SMA-4	SS0267	08/24/05	WT	UF	GU0508K026703		1.3		146000		36		1410		39.2		7.3		33.2		82.7		286		103000
LA-SMA-4	SS0267	09/28/05	WT	F	GF0510K026701	<	0.2		334	<	6		11.1	<	1	<	0.1		3.5		1.9		4.1		138
LA-SMA-4	SS0267	09/28/05	WT	UF	GU0510K026701	<	0.2		25500		6.5		280		4.7		1.2		5.7		14		49.7		14200
LA-SMA-5	SS0268	05/03/05	WT	F	GF0505K026801	<	0.2		1170	<	6		27.3	<	1		0.16		2.9		2.5		6		686
LA-SMA-5	SS0268	05/03/05	WT	UF	GU0505K026801		0.31		37300		10.5		374	<	1		1		9.6		30.5		44.8		28000
LA-SMA-5	SS0268	07/15/05	WT	F	GF0507K026801	<	0.2		274	<	6		57.3	<	1		0.12		3.3		1.4		4.1		335
LA-SMA-5	SS0268	07/15/05	WT	UF	GU0507K026801		0.35		33600		8.5		360		2.3		1.1		9.6		27.5		46.2		26200
LA-SMA-5	SS0268	08/24/05	WT	F	GF0508K026801	<	0.2		1170	<	6		40.2	<	1	<	0.1	<	2.7	<	1.5	<	3		592
LA-SMA-5	SS0268	08/24/05	WT	UF	GU0508K026803		0.91		73100		11.2		1110		7.5		2.9		36.2		50.3		83.3		56600
LA-SMA-5	SS0268	09/28/05	WT	F	GF0510K026801	<	0.2		1100	<	6		29.2	<	1	<	0.1		3.5		1.3		3.9		550
LA-SMA-5	SS0268	09/28/05	WT	UF	GU0510K026801		0.42		65800		13.6		744		4.9		1.6		22.7		43.5		62.4		51500
LA-SMA-5.2	SS026805	07/15/05	WT	F	GF05072680501	<	0.2		133	<	6		147	<	1		0.13		8.7		1.5	<	3		2310
LA-SMA-5.2	SS026805	07/15/05	WT	UF	GU05072680501	<	0.2		19500		7.5		323		1.3		0.9		11.6		14		19.5		14800
LA-SMA-5.2	SS026805	08/04/05	WT	F	GF05082680501	<	0.2		1060		6.2		90.7	<	1		0.22		7.1		1.4		5.7		776
LA-SMA-5.2	SS026805	08/04/05	WT	UF	GU05082680501	<	0.2		21300		8.1		322		1.3		0.88		11.2		14.2		20.2		16500
LA-SMA-5.2	SS026805	08/24/05	WT	F	GF05082680502	<	0.2		165				35.4			<	0.1						3.3		128
LA-SMA-5.2	SS026805	08/24/05	WT	UF	GU05082680502		0.39		71400		10.5		961		4.6		2.7		19.1		48.9		59.5		57500
LA-SMA-5.3	SS02681	07/15/05	WT	F	GF05070268101	<	0.2		293	<	6		47.6	<	1	<	0.1		1.6	<	1	<	3		931
LA-SMA-5.3	SS02681	07/15/05	WT	UF	GU05070268101	<	0.2		23300		8.6		1570		12.1		3.6		44.5		23.3		31.2		39200
LA-SMA-5.3	SS02681	08/11/05	WT	F	GF05080268101	<	0.2		833	<	6		27.6	<	1	<	0.1		2.2	<	1	<	3		460
LA-SMA-5.3	SS02681	08/11/05	WT	UF	GU05080268101	<	0.2		9320	<	6		66.4	<	1		0.11	<	1		5.8		7.2		5250
LA-SMA-5.3	SS02681	08/24/05	WT	F	GF05080268102	<	0.2		361	<	6		19.8	<	1	<	0.1	<	1	<	1	<	3		190
LA-SMA-5.3	SS02681	08/24/05	WT	UF	GU05080268102	<	0.2		18000	<	6		303		2.7		1.7		7.6		12.1		35.2		11500
LA-SMA-5.3	SS02681	09/28/05	WT	UF	GU05100268101		0.22		43200		9.8		479		3.7		1.3		13.9		31.8		50.5		33000
LA-SMA-5.4	SS02683	07/15/05	WT	F	GF05070268301	<	0.2	<	68	<	6		268	<	1	<	0.1		3.9		2.1		5.4		134
LA-SMA-5.4	SS02683	07/15/05	WT	UF	GU05070268301	<	0.2		3290	<	6		287	<	1		0.19		3.8		4.2		10.8		2270
LA-SMA-5.4	SS02683	07/20/05	WT	F	GF05070268302	<	0.2		237		6.5		55.1	<	1		0.25		2.9		3.2		13.9		234
LA-SMA-5.4	SS02683	07/20/05	WT	UF	GU05070268302	<	0.2		4300		9.3		84		1.3		0.59		3		3.5		20.4		2670
LA-SMA-5.4	SS02683	08/08/05	WT	F	GF05080268301	<	0.2		341	<	6		45.1	<	1	<	0.1		1.8		1.1		7.5		342
LA-SMA-5.4	SS02683	08/08/05	WT	UF	GU05080268301	<	0.2		46100		16.2		400		5.1		0.45		12.9		32.8		71.5		37100
LA-SMA-5.4	SS02683	08/16/05	WT	F	GF05080268302	<	0.2		632	<	6		62.6	<	1		0.12		2.1		1.2		10.3		380
LA-SMA-5.4	SS02683	08/16/05	WT	UF	GU05080268302	<	0.2		14100		6.7		123	<	1		0.56		4		9.9		24.5		8990
LA-SMA-5.5	SS02685	07/15/05	WT	F	GF05070268501	<	0.2		927	<	6		45	<	1	<	0.1		3.4		1.5	<	3		1020
LA-SMA-5.5	SS02685	07/15/05	WT	UF	GU05070268501		1.2		160000		35		1580		13.3		5.5		50.7		127		185		133000
LA-SMA-5.5	SS02685	09/28/05	WT	F	GF05100268501	<	0.2		1170	<	6		25.9	<	1	<	0.1		3.5		2.2	<	3		626
LA-SMA-5.5	SS02685	09/28/05	WT	UF	GU05100268501	<	0.2		19100	<	6		660		4.8		1.8		17.7		11.8		48.5		13700
LA-SMA-6	SS0269	08/22/05	WT	F	GF0508K026901	<	0.2		1540				33.4				0.12				1.5		5.2		790
LA-SMA-6	SS0269	08/22/05	WT	UF	GU0508K026901		1		43900		11.4		507		9.4		3.1		12.5		23		52.3		25500

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-1.2	SS02645	05/03/05	WT	F	GF0505K026505				47.4		2.1		1.6		1.3	<	0.5	<	2.5	<	0.4		1.5		28.8
LA-SMA-1.2	SS02645	05/03/05	WT	UF	GU0505K026506	<	0.05		528		3.5		12.8		89.5		0.86	<	2.5	<	0.4		19.4		273
LA-SMA-1.2	SS02645	07/15/05	WT	F	GF05070264501				159	<	2		1.4		2.2	<	0.5	<	2.5	<	0.4	<	1		46.5
LA-SMA-1.2	SS02645	07/15/05	WT	UF	GU05070264501		0.071		341	<	2		3.3		10.7	<	0.5	<	2.5	<	0.4		4.4		103
LA-SMA-1.2	SS02645	08/24/05	WT	F	GF05080264501				11.2	<	2		1.4		1.3	<	0.5	<	2.5	<	0.4	<	1		24.3
LA-SMA-1.2	SS02645	08/24/05	WT	UF	GU05080264501		0.55		2800		6.6		42.2		497		1.7	<	2.5		0.64		92.8		1150
LA-SMA-1.5(N)	SS02653	06/11/05	WT	F	GF05060265301				222		8.4		8.5		0.59		1.9	<	2.5	<	0.4	<	7.3		253
LA-SMA-1.5(N)	SS02653	06/11/05	WT	UF	GU05060265301		0.054		382		9.8		16		21.2		4.2	<	2.5	<	0.4	<	22.6		805
LA-SMA-1.5(N)	SS02653	07/15/05	WT	F	GF05070265302				156		3.4		4.2		0.74		1.3	<	2.5	<	0.4		2.3		75.8
LA-SMA-1.5(N)	SS02653	07/15/05	WT	UF	GU05070265302		0.13		949		3.8		25.9		99.1		1.1	<	2.5	<	0.4		38.7		1200
LA-SMA-1.5(N)	SS02653	07/26/05	WT	F	GF05070265305				142		8.4		6.5		0.56	<	4	<	2.5	<	0.4		6.7		315
LA-SMA-1.5(N)	SS02653	07/26/05	WT	UF	GU05070265305	<	0.05		363		7.3		12		17.7		5.9	<	2.5	<	0.4		16.2		637
LA-SMA-4	SS0267	08/11/05	WT	F	GF0508K026701				26	<	2		1.7	<	0.5	<	0.99	<	2.5	<	0.4		1.3		27.7
LA-SMA-4	SS0267	08/11/05	WT	UF	GU0508K026701				1820		5.8		19.2		126	<	2	<	2.5		1.7		58.1		815
LA-SMA-4	SS0267	08/22/05	WT	F	GF0508K026702				13.4		2.3		1.3	<	0.5	<	0.71	<	2.5	<	0.4	<	1		19.4
LA-SMA-4	SS0267	08/22/05	WT	UF	GU0508K026702				1030		2.9		20		89		2.8	<	2.5		1.5		32.9		620
LA-SMA-4	SS0267	08/24/05	WT	F	GF0508K026703				24	<	2.6		1.4	<	0.5		1	<	2.5		0.48		1.5		18.1
LA-SMA-4	SS0267	08/24/05	WT	UF	GU0508K026703				5800	<	10		60.1		413		3.9	<	2.5		7.5		131		1900
LA-SMA-4	SS0267	09/28/05	WT	F	GF0510K026701				9.1	<	2		1.4	<	0.5	<	0.77	<	2.5	<	0.4		1.2		16.6
LA-SMA-4	SS0267	09/28/05	WT	UF	GU0510K026701				788		2.2		11.6		66.9	<	1.5	<	2.5	<	0.67		22.6		394
LA-SMA-5	SS0268	05/03/05	WT	F	GF0505K026801				47.6	<	2		1.7	<	2.3		0.53	<	2.5	<	0.4		2.5		10.8
LA-SMA-5	SS0268	05/03/05	WT	UF	GU0505K026801		0.61		988	<	2		22.8		78		0.87	<	2.5		0.59		52.2		227
LA-SMA-5	SS0268	07/15/05	WT	F	GF0507K026801				431	<	2		3.5		2		0.81	<	2.5	<	0.4		2.6		28.4
LA-SMA-5	SS0268	07/15/05	WT	UF	GU0507K026801		1.3		846		2.9		18.9		75.1		1.5	<	2.5		0.51		45.3		229
LA-SMA-5	SS0268	08/24/05	WT	F	GF0508K026801				12	<	2.6		1.9		0.84		0.73	<	2.5	<	0.4		2.9		7.8
LA-SMA-5	SS0268	08/24/05	WT	UF	GU0508K026803		1.9		3410	<	3.7		67		269		1.1	<	2.5		2		117		548
LA-SMA-5	SS0268	09/28/05	WT	F	GF0510K026801				15.5	<	2		2.4		0.77	<	0.54	<	2.5	<	0.4		2.9		4.5
LA-SMA-5	SS0268	09/28/05	WT	UF	GU0510K026801		0.54		1870		3.6		44		134	<	1.3	<	2.5	<	0.87		89.2		364
LA-SMA-5.2	SS026805	07/15/05	WT	F	GF05072680501				1160		2.8		9.4		2.1		146	<	2.5	<	0.4		9.1		99.5
LA-SMA-5.2	SS026805	07/15/05	WT	UF	GU05072680501	<	0.05		1140		2.9		15		41.8		131	<	2.5	<	0.4		29		289
LA-SMA-5.2	SS026805	08/04/05	WT	F	GF05082680501				932		3		5.5		2		119	<	2.5	<	0.4		12.6		63.1
LA-SMA-5.2	SS026805	08/04/05	WT	UF	GU05082680501	<	0.05		1240		2.7		10.5		41.6		124	<	2.5	<	0.4		34.8		233
LA-SMA-5.2	SS026805	08/24/05	WT	F	GF05082680502				39.4				2.7	<	0.5		127	<	2.5	<	0.4		3.3		35.8
LA-SMA-5.2	SS026805	08/24/05	WT	UF	GU05082680502	<	0.05		1160	<	2		33.5		204		155	<	2.5		1		90.4		964
LA-SMA-5.3	SS02681	07/15/05	WT	F	GF05070268101				678		2.8		1.9		3.5	<	0.5	<	2.5	<	0.4		2.4	<	10.9
LA-SMA-5.3	SS02681	07/15/05	WT	UF	GU05070268101		0.29		9460	<	2		44.4		192	<	0.5	<	2.5		0.56		74.8		1160
LA-SMA-5.3	SS02681	08/11/05	WT	F	GF05080268101				14.3	<	2		1.5		0.95	<	0.5	<	2.5	<	0.4		1.9		15.6
LA-SMA-5.3	SS02681	08/11/05	WT	UF	GU05080268101		0.088		94.1	<	2		3.5		9.4	<	0.5	<	2.5	<	0.4		8.7		51.5
LA-SMA-5.3	SS02681	08/24/05	WT	F	GF05080268102				4.4	<	2		0.88	<	0.5	<	0.5	<	2.5	<	0.4		2.6	<	8.9
LA-SMA-5.3	SS02681	08/24/05	WT	UF	GU05080268102	<	0.05		1140	<	2		15.7		78.1		0.69	<	2.5		0.49		27.4		319
LA-SMA-5.3	SS02681	09/28/05	WT	UF	GU05100268101		0.33		2120		3.4		27.2		111	<	1.1	<	2.5	<	0.73		49.6		388
LA-SMA-5.4	SS02683	07/15/05	WT	F	GF05070268301				1890		6.9		9		4.6		1.2	<	2.5	<	0.4		2.6		67.9
LA-SMA-5.4	SS02683	07/15/05	WT	UF	GU05070268301	<	0.05		1940		6.6		9.4		15.5		1.2	<	2.5	<	0.4		6.1		103
LA-SMA-5.4	SS02683	07/20/05	WT	F	GF05070268302				592		2.6		4.3		7.6		0.82	<	2.5	<	0.4		3.3		36.3
LA-SMA-5.4	SS02683	07/20/05	WT	UF	GU05070268302		0.31		703		3.4		6.1		30.1		0.79	<	2.5	<	0.4		7.7		69.5
LA-SMA-5.4	SS02683	08/08/05	WT	F	GF05080268301				679		2.4		2.7	<	2.9		0.82	<	2.5	<	0.4		2.7		16.7
LA-SMA-5.4	SS02683	08/08/05	WT	UF	GU05080268301	<	0.05		1950		4		8.1		44.3		1.1	<	2.5	<	0.4		53.3		429
LA-SMA-5.4	SS02683	08/16/05	WT	F	GF05080268302				383		5.8		5.2		5.5		1.5	<	2.5	<	0.4		4		32.6
LA-SMA-5.4	SS02683	08/16/05	WT	UF	GU05080268302		0.18		600		5.6		9.1		54.1		1.5	<	2.5	<	0.4		18.4		137
LA-SMA-5.5	SS02685	07/15/05	WT	F	GF05070268501				662		4.6		2.4		3.8	<	0.5	<	2.5	<	0.4		2.8		16.8
LA-SMA-5.5	SS02685	07/15/05	WT	UF	GU05070268501		0.4		6700		8.3		104		495		1.1	<	2.5		2.5		192		1280
LA-SMA-5.5	SS02685	09/28/05	WT	F	GF05100268501				11.1		2.7		1.6		0.87	<	0.63	<	2.5	<	0.4		1.9		6.1
LA-SMA-5.5	SS02685	09/28/05	WT	UF	GU05100268501		1.9		3870	<	2		19.4		125	<	0.67	<	2.5	<	0.41		34		468
LA-SMA-6	SS0269	08/22/05	WT	F	GF0508K026901				22				2		1.7	<	0.5	<	2.5	<	0.4		2.6	<	13.3
LA-SMA-6	SS0269	08/22/05	WT	UF	GU0508K026901		0.4		1810	<	2		31.7		200		1.5	<	2.5		2.8		43		297

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-6.3	SS028	08/22/05	WT	F	GF05080K02801	<	0.2		238	<	6		15	<	1		1.4		1.1	<	1	<	3		126
LA-SMA-6.3	SS028	08/22/05	WT	UF	GU05080K02801	<	0.2		4830	<	6		67	<	1		4.7	<	1		3.3		7		2320
LA-SMA-6.5	SS0287	08/22/05	WT	F	GF0508K028701	<	0.2		324	<	6		19.9	<	1	<	0.1	<	2.2		1.1	<	3		178
LA-SMA-6.5	SS0287	08/22/05	WT	UF	GU0508K028701		0.33		30100	<	6		510		3.7		2.2		10.8		37.8		45.7		21100
LA-SMA-10	SS037	08/11/05	WT	F	GF05080K03701	<	0.2		268	<	6		33.7	<	1	<	0.1	<	1	<	1		3.4		154
LA-SMA-10	SS037	08/11/05	WT	UF	GU05080K03701		0.2		34800		8.7		388		2.9		1.3		9.7		20.7		49.9		22600
LA-SMA-10	SS037	08/24/05	WT	F	GF05080K03702	<	0.2		256	<	6		18.5	<	1	<	0.1	<	1	<	1	<	3		140
LA-SMA-10	SS037	08/24/05	WT	UF	GU05080K03702		0.24		25100	<	6		219		1.7		0.76		5.4		14.2		24.9		14200
M-SMA-2	SS1984	08/22/05	WT	F	GF0508K198401	<	0.2		575	<	6		29.9	<	1	<	0.1	<	1		2.1		4.8		267
M-SMA-2	SS1984	08/22/05	WT	UF	GU0508K198401		0.33		73100		12.3		620		4		1.2		18.8		43.4		59.4		47300
M-SMA-2	SS1984	08/24/05	WT	F	GF0508K198402	<	0.2		1030	<	6		28.1	<	1	<	0.1	<	1		1.6		4.8		513
M-SMA-2	SS1984	08/24/05	WT	UF	GU0508K198402		0.27		67600		12.6		533		3.5		1.1		15.7		38.3		42.8		46700
M-SMA-2	SS1984	08/25/05	WT	F	GF0508K198403	<	0.2		1270	<	6		45.1	<	1	<	0.1	<	1		1.6		6.2		585
M-SMA-2	SS1984	08/25/05	WT	UF	GU0508K198403	<	0.2		25900	<	6		227		1.3		0.51		5.8		15.6		24.2		16400
M-SMA-2	SS1984	09/28/05	WT	F	GF0509K198401	<	0.2		1390	<	6		13	<	1		0.12		2.5	<	1	<	3		584
M-SMA-2	SS1984	09/28/05	WT	UF	GU0509K198401	<	0.2		33800	<	6		256		1.8		0.41		7		17.4		15.9		21200
M-SMA-3	SS1985	07/15/05	WT	F	GF0507K198501	<	0.2		558	<	6		28.4	<	1		0.11		1.3		2.1		8.2		277
M-SMA-3	SS1985	07/15/05	WT	UF	GU0507K198501	<	0.2		4510	<	6		42.6	<	1		0.19	<	1		4		18.8		2310
M-SMA-4	SS1987	07/15/05	WT	F	GF0507K198701	<	0.2		632	<	6		34	<	1		0.11		1.7		3		11.1		339
M-SMA-4	SS1987	07/15/05	WT	UF	GU0507K198701	<	0.2		306	<	6		32.9	<	1		0.13		1.1		2.5		10.4		176
M-SMA-4	SS1987	08/04/05	WT	F	GF0508K198701	<	0.2		2050	<	6		43.6	<	1		0.13	<	1		4.3		37.1		1260
M-SMA-4	SS1987	08/04/05	WT	UF	GU0508K198701	<	0.2		3020	<	6		49.7	<	1		0.16	<	1		4.9		40.8		1830
M-SMA-4	SS1987	08/22/05	WT	F	GF0508K198702	<	0.2		2010	<	6		37.9	<	1		0.12	<	1		4.2		27.2		1200
M-SMA-4	SS1987	08/22/05	WT	UF	GU0508K198703	<	0.2		16900	<	6		156		1.2		0.61		4.1		24.5		98.7		11700
M-SMA-4	SS1987	08/24/05	WT	F	GF0508K198703	<	0.2		3150	<	6		43.8	<	1		0.17		2		4.9		23.9		1720
M-SMA-4	SS1987	08/24/05	WT	UF	GU0508K198704		0.27		31100		7.4		240		2		0.85		6.6		57.2		89.6		24100
M-SMA-8	E200	04/24/05	WT	F	GF05040E20001	<	0.2		752	<	6		13.3	<	1	<	0.1	<	1	<	1	<	3		386
M-SMA-8	E200	04/24/05	WT	UF	GU05040E20001		0.3		45200		9.5		248		4.7		0.98		6.3		25.5		37.9		40500
M-SMA-8	E200	05/03/05	WT	F	GF05050E20001	<	0.2		395	<	6		13.4	<	1	<	0.1	<	1	<	1	<	3		204
M-SMA-8	E200	05/03/05	WT	UF	GU05050E20001		0.23		36400		14.4		211		3.7		0.99		6.6		22.3		31.3		33900
M-SMA-8	E200	07/15/05	WT	F	GF05070E20001	<	0.2		165	<	6		36.8	<	1	<	0.1	<	1		1.6		3.9		122
M-SMA-8	E200	07/15/05	WT	UF	GU05070E20001	<	0.2		19500		8.7		895		7.9		2.2		21.5		23.8		133		15600
M-SMA-8	E200	07/20/05	WT	F	GF05070E20002	<	0.2		1290	<	6		29.6	<	1	<	0.1	<	1		3.5		8.9		676
M-SMA-8	E200	07/20/05	WT	UF	GU05070E20002		0.26		46400		10.5		348		3.6		1		10		36.5		59.9		41500
M-SMA-10	SS2002	10/03/05	WT	F	GF0510K200201	<	0.2		5850	<	6		48.8	<	1		0.2		5		3.1		4.5		2930
M-SMA-10	SS2002	10/03/05	WT	UF	GU0510K200201	<	0.2		11900	<	6		78.8	<	1		0.3		1.2		6.3		8.2		6370
M-SMA-12	SS2004	08/12/05	WT	F	GF0508K200401	<	0.2		6610	<	6		30.4	<	1		0.18	<	1		4.2		6.4		3540
M-SMA-12	SS2004	08/12/05	WT	UF	GU0508K200401	<	0.2		7380	<	6		35.5	<	1		0.21	<	1		4.3		7.7		4280
M-SMA-12	SS2004	08/23/05	WT	F	GF0508K200402	<	0.2		1020	<	6		14.5	<	1		0.12	<	1		1.2		4.4		593
M-SMA-12	SS2004	08/23/05	WT	UF	GU0508K200402	<	0.2		8000	<	6		50	<	1		0.4	<	1		4.8		9.1		4490
M-SMA-12	SS2004	08/24/05	WT	F	GF0508K200403	<	0.2		4630				27			<	0.1		1.2		2.7		5.1		2470
M-SMA-12	SS2004	08/24/05	WT	UF	GU0508K200403	<	0.2		10800	<	6		59.1		1.4		0.24	<	1		5.6		9		5400
M-SMA-13	SS205	08/12/05	WT	F	GF05080K20501	<	0.2		459	<	6		28.7	<	1	<	0.1		3.3	<	1		3.2		244
M-SMA-13	SS205	08/12/05	WT	UF	GU05080K20501		0.22		50700		11.7		375		3.8		0.76		9.3		25		44.3		28100
M-SMA-13	SS205	08/24/05	WT	F	GF05080K20502	<	0.2		849	<	6		60.1	<	1	<	0.1	<	1	<	1		6.2		403
M-SMA-13	SS205	08/24/05	WT	UF	GU05080K20502		0.58		50800		9.6		396		3.7		1.3		9.2		24.9		46.9		33900
M-SMA-13	SS205	10/03/05	WT	F	GF05100K20501	<	0.2		522	<	6		18.1	<	1	<	0.1		5.6	<	1	<	3		231
M-SMA-13	SS205	10/03/05	WT	UF	GU05100K20501	<	0.2		2210	<	6		26.1	<	1	<	0.1	<	1		1.3	<	3		959
PJ-SMA-1	SS2405	07/18/05	WT	F	GF0507K240501	<	0.2		229	<	6		32.6	<	1	<	0.1		1.6	<	1	<	3		172
PJ-SMA-1	SS2405	07/18/05	WT	UF	GU0507K240501	<	0.2		1250	<	6		48.2	<	1	<	0.1		1.4	<	1	<	3		740
PJ-SMA-1	SS2405	08/04/05	WT	F	GF0508K240501	<	0.2		579	<	6		20.2	<	1	<	0.1	<	1	<	1	<	3		359
PJ-SMA-1	SS2405	08/04/05	WT	UF	GU0508K240501	<	0.2		2060	<	6		37.8	<	1	<	0.1	<	1		1.7		3.5		1280
PJ-SMA-1	SS2405	08/06/05	WT	F	GF0508K240502	<	0.2		404	<	6		11.5	<	1	<	0.1	<	1	<	1	<	3		201
PJ-SMA-1	SS2405	08/06/05	WT	UF	GU0508K240502	<	0.2		6480	<	6		85	<	1		0.16		1.9		3.9		4.1		3780
PJ-SMA-1	SS2405	08/12/05	WT	F	GF0508K240503	<	0.2		9160	<	6		81.2	<	1	<	0.1		1.8		5.2		4.4		5080
PJ-SMA-1	SS2405	08/12/05	WT	UF	GU0508K240503	<	0.2		13400	<	6		132	<	1	<	0.1		1		7.8		5.4		7610
PJ-SMA-1	SS2405	08/24/05	WT	UF	GU0508K240504																				

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-6.3	SS028	08/22/05	WT	F	GF05080K02801				5	<	2		1.1		0.51	<	0.5	<	2.5	<	0.4	<	1	<	9
LA-SMA-6.3	SS028	08/22/05	WT	UF	GU05080K02801	<	0.05		111	<	2		3.1		12.4	<	0.5	<	2.5	<	0.4		4.6		31.2
LA-SMA-6.5	SS0287	08/22/05	WT	F	GF0508K028701				5.9	<	2		1.7		0.61	<	0.5	<	2.5	<	0.4		4.4		21
LA-SMA-6.5	SS0287	08/22/05	WT	UF	GU0508K028701		1.8		1380	<	2.2		13.2		159		0.67	<	2.5	<	0.4		59.6		386
LA-SMA-10	SS037	08/11/05	WT	F	GF05080K03701				3.8	<	2		0.82		0.52	<	0.5	<	2.5	<	0.4		2.3	<	4.2
LA-SMA-10	SS037	08/11/05	WT	UF	GU05080K03701		0.075		927	<	2		19.3		155		0.53	<	2.5	<	0.4		41.4		151
LA-SMA-10	SS037	08/24/05	WT	F	GF05080K03702				3.6	<	2		0.84	<	0.5	<	0.5	<	2.5	<	0.4		2	<	4.3
LA-SMA-10	SS037	08/24/05	WT	UF	GU05080K03702	<	0.05		475	<	2		11.8		50.3		0.58	<	2.5	<	0.4		25.8		88.2
M-SMA-2	SS1984	08/22/05	WT	F	GF0508K198401				3	<	2		3.2		0.81	<	0.5	<	2.5		0.42		2.8	<	15.1
M-SMA-2	SS1984	08/22/05	WT	UF	GU0508K198401	<	0.05		1370	<	3.2		30.3		77.1		0.65	<	2.5		0.9		82.3		333
M-SMA-2	SS1984	08/24/05	WT	F	GF0508K198402				6.7	<	2		1.5		0.51	<	0.5	<	2.5	<	0.4		2.8	<	14.8
M-SMA-2	SS1984	08/24/05	WT	UF	GU0508K198402	<	0.05		1060		2.8		23.2		55.9	<	0.5	<	2.5		0.66		74.5		243
M-SMA-2	SS1984	08/25/05	WT	F	GF0508K198403				5.6	<	2		1.7		0.59	<	0.5	<	2.5		0.53		3.3	<	18.4
M-SMA-2	SS1984	08/25/05	WT	UF	GU0508K198403				393	<	2		9.9		24.9	<	0.5	<	2.5	<	0.4		28.8		124
M-SMA-2	SS1984	09/28/05	WT	F	GF0509K198401				16	<	2		0.9	<	0.5	<	0.5	<	2.5	<	0.4		2.3	<	5.7
M-SMA-2	SS1984	09/28/05	WT	UF	GU0509K198401				443	<	2		10.2		28.2	<	0.55	<	2.5	<	0.95		34.9		90.6
M-SMA-3	SS1985	07/15/05	WT	F	GF0507K198501				122	<	2		1.6		0.67	<	0.5	<	2.5	<	0.4		1.6		101
M-SMA-3	SS1985	07/15/05	WT	UF	GU0507K198501		0.075		68.3	<	2		2.4		3.4		0.52	<	2.5	<	0.4		6		84.2
M-SMA-4	SS1987	07/15/05	WT	F	GF0507K198701				290		33.3		1.8		0.92	<	0.5	<	2.5	<	0.4		3.1		37.6
M-SMA-4	SS1987	07/15/05	WT	UF	GU0507K198701				286		33.5		1.7		0.71	<	0.5	<	2.5	<	0.4		2.4		38.2
M-SMA-4	SS1987	08/04/05	WT	F	GF0508K198701				23.4		144		2.7		1.9	<	1.1	<	2.5	<	0.4		13.1		33.9
M-SMA-4	SS1987	08/04/05	WT	UF	GU0508K198701				32.3		145		2.8		3	<	1.1	<	2.5	<	0.4		14		42.9
M-SMA-4	SS1987	08/22/05	WT	F	GF0508K198702				8.6		85.7		2.9		2.1		0.62	<	2.5	<	0.4		8.8		38.3
M-SMA-4	SS1987	08/22/05	WT	UF	GU0508K198703				573		90.9		8.2		38.1		0.67	<	2.5	<	0.4		29.8		187
M-SMA-4	SS1987	08/24/05	WT	F	GF0508K198703				27		87.8		2.9		2.5	<	0.5	<	2.5	<	0.4		8.7		40.9
M-SMA-4	SS1987	08/24/05	WT	UF	GU0508K198704				673		15.4		12.6		47.5		0.6	<	2.5	<	0.4		37		246
M-SMA-8	E200	04/24/05	WT	F	GF05040E20001				15		6.6		0.54	<	0.5		2.9	<	2.5	<	0.4		1		8.5
M-SMA-8	E200	04/24/05	WT	UF	GU05040E20001	<	0.05		1180		9.1		17.5		51.1		1.8	<	2.5		0.49		39.7		361
M-SMA-8	E200	05/03/05	WT	F	GF05050E20001				16.5		4.4		1	<	0.5		2.2	<	2.5	<	0.4		1.4		14.2
M-SMA-8	E200	05/03/05	WT	UF	GU05050E20001		0.078		1010		6		15.1		48		3.4	<	2.5		0.41		32.5		323
M-SMA-8	E200	07/15/05	WT	F	GF05070E20001				100		6.8		1.5	<	0.5		1.7	<	2.5	<	0.4		1.1	<	13.7
M-SMA-8	E200	07/15/05	WT	UF	GU05070E20001		0.21		3680	<	2		31.1		122	<	0.63	<	2.5	<	0.4		52.3		510
M-SMA-8	E200	07/20/05	WT	F	GF05070E20002				95.2		7.8		2.6		0.76	<	2.4	<	2.5	<	0.4		3.4		30.7
M-SMA-8	E200	07/20/05	WT	UF	GU05070E20002		0.092		1260		9.2		20.4		57.3	<	1.2	<	2.5		0.5		52.5		390
M-SMA-10	SS2002	10/03/05	WT	F	GF0510K200201				23.6	<	2		3.2		2.8	<	0.5	<	2.5	<	0.4		5.4		19.6
M-SMA-10	SS2002	10/03/05	WT	UF	GU0510K200201	<	0.05		91.2	<	2		3.9		6.6	<	0.5	<	2.5	<	0.4		10.3		35.3
M-SMA-12	SS2004	08/12/05	WT	F	GF0508K200401				18.3	<	2		3.7		2.9	<	0.5	<	2.5	<	0.4		7.5		35.5
M-SMA-12	SS2004	08/12/05	WT	UF	GU0508K200401	<	0.05		28.1	<	2		4.2		4.3	<	0.5	<	2.5	<	0.4		8		42.9
M-SMA-12	SS2004	08/23/05	WT	F	GF0508K200402				21.6	<	2		1.9		1.3	<	0.5	<	2.5	<	0.4		2.3		37.9
M-SMA-12	SS2004	08/23/05	WT	UF	GU0508K200402	<	0.05		152	<	2		4.2		11.6	<	0.5	<	2.5	<	0.4		8.5		72.1
M-SMA-12	SS2004	08/24/05	WT	F	GF0508K200403				13.5				3.1		2.1	<	0.5	<	2.5	<	0.4		5.4		26.9
M-SMA-12	SS2004	08/24/05	WT	UF	GU0508K200403	<	0.05		112	<	2		4.6		12.5	<	0.5	<	2.5	<	0.4		10.2		58.2
M-SMA-13	SS205	08/12/05	WT	F	GF05080K20501				90.3	<	2		1.4	<	0.5	<	0.5	<	2.5	<	0.4		1.4	<	7
M-SMA-13	SS205	08/12/05	WT	UF	GU05080K20501				776	<	2		15		49.8	<	0.5	<	2.5		0.58		43.1		130
M-SMA-13	SS205	08/24/05	WT	F	GF05080K20502				18	<	2		2.2		0.65	<	0.5	<	2.5	<	0.4		2.3		21.2
M-SMA-13	SS205	08/24/05	WT	UF	GU05080K20502				962		2.1		16.6		53.5	<	0.5	<	2.5		0.65		43.8		183
M-SMA-13	SS205	10/03/05	WT	F	GF05100K20501				14	<	2		1.3	<	0.5	<	0.5	<	2.5	<	0.4		1.3	<	7.1
M-SMA-13	SS205	10/03/05	WT	UF	GU05100K20501				15.2	<	2		0.66		1	<	0.5	<	2.5	<	0.4		2.6	<	10
PJ-SMA-1	SS2405	07/18/05	WT	F	GF0507K240501				237	<	2		1.9	<	0.5	<	0.5	<	2.5	<	0.4	<	1	<	5.7
PJ-SMA-1	SS2405	07/18/05	WT	UF	GU0507K240501				231	<	2		2.2		1.3	<	0.5	<	2.5	<	0.4		2	<	7.6
PJ-SMA-1	SS2405	08/04/05	WT	F	GF0508K240501				4.6	<	2		1.3	<	0.5	<	0.5	<	2.5	<	0.4	<	1	<	5
PJ-SMA-1	SS2405	08/04/05	WT	UF	GU0508K240501	<	0.05		27.6	<	2		2.1		1.6	<	0.5	<	2.5	<	0.4		3.3	<	8.9
PJ-SMA-1	SS2405	08/06/05	WT	F	GF0508K240502				4.2	<	2		0.6	<	0.5	<	0.5	<	2.5	<	0.4		1	<	4.8
PJ-SMA-1	SS2405	08/06/05	WT	UF	GU0508K240502	<	0.05		118	<	2		3.2		6.6	<	0.5	<	2.5	<	0.4		8		20
PJ-SMA-1	SS2405	08/12/05	WT	F	GF0508K240503				24.5	<	2		4.2		2	<	0.5	<	2.5	<	0.4		8		24.9
PJ-SMA-1	SS2405	08/12/05	WT	UF	GU0508K240503	<	0.05		57.3	<	2		5.5		4	<	0.5	<	2.5	<	0.4		11.9		32
PJ-SMA-1	SS2405	08/24/05	WT	UF	GU0508K240504		0.13																		

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
PJ-SMA-4	SS24253	04/16/05	WT	F	GF05040KPS401	<	0.2		4730	<	6		52.2	<	1		0.2		4.6		2.8		7.5		2480
PJ-SMA-4	SS24253	04/16/05	WT	UF	GU05040KPS401	<	0.2		114000	<	11.6		768	<	5.2	<	0.48	<	16		65.4	<	58.5		76600
PJ-SMA-4	SS24253	04/24/05	WT	F	GF05040KPS402	<	0.2		3130	<	6		36	<	1	<	0.1		4		1.9		3.4		1650
PJ-SMA-4	SS24253	04/24/05	WT	UF	GU05040KPS402	<	0.2		20900	<	6		145	<	1		0.26		1.7		10.7		11.9		12400
PJ-SMA-4	SS24253	05/03/05	WT	F	GF05050KPS401	<	0.2		2070	<	6		46.5	<	1		0.15		3.5		1.2	<	3		1050
PJ-SMA-4	SS24253	05/03/05	WT	UF	GU05050KPS401	<	0.2		55200		6.4		392	<	1		0.38		8.1		33		26.6		35500
PJ-SMA-4	SS24253	07/18/05	WT	F	GF05070KPS401	<	0.2		172	<	6		87.6	<	1	<	0.1		2.1	<	1		3.1		271
PJ-SMA-4	SS24253	07/18/05	WT	UF	GU05070KPS401	<	0.2		14600	<	6		174	<	1		0.11		3.3		9.3		9		8700
PJ-SMA-7	SS24210	07/15/05	WT	F	GF05072421001	<	0.2		202	<	6		32.1	<	1		0.13	<	1	<	1		5		324
PJ-SMA-7	SS24210	07/15/05	WT	UF	GU05072421001	<	0.2		21000	<	6		166		1.9		0.69		3.3		9.7		22.3		15200
PJ-SMA-7	SS24210	08/04/05	WT	F	GF05082421001	<	0.2		585	<	6		20.1	<	1	<	0.1	<	1	<	1	<	3		415
PJ-SMA-7	SS24210	08/04/05	WT	UF	GU05082421001		0.6		6490	<	6		54.3	<	1		0.24		1.2		2.3		7.9		4170
PJ-SMA-7	SS24210	08/12/05	WT	F	GF05082421002	<	0.2		462	<	6		11.1	<	1	<	0.1	<	1	<	1	<	3		344
PJ-SMA-7	SS24210	08/12/05	WT	UF	GU05082421002		0.21		4990	<	6		33.2	<	1		0.53	<	1	<	1.8		3.9		2900
PJ-SMA-7	SS24210	08/24/05	WT	F	GF05082421003	<	0.2		1300				13			<	0.1		2				5.2		884
PJ-SMA-7	SS24210	08/24/05	WT	UF	GU05082421003	<	0.2		7680	<	6		40.4	<	1		0.14	<	1		3.4		5.6		5360
PJ-SMA-15	E248.5	04/24/05	WT	F	GF0504E248501	<	0.2		275	<	6		13.8	<	1	<	0.1	<	1		1.3	<	3		137
PJ-SMA-15	E248.5	04/24/05	WT	UF	GU0504E248501		0.48		12500	<	6		111		1		0.93		2		8.3		12.3		6910
PJ-SMA-15	E248.5	07/15/05	WT	F	GF0507E248501	<	0.2		96.6	<	6		28.6	<	1	<	0.1	<	1	<	1		4.5		61.6
PJ-SMA-15	E248.5	07/15/05	WT	UF	GU0507E248501		1.4		19700		6.5		842		5.7		2.9		19.3		27.2		147		8730
PJ-SMA-15	E248.5	08/05/05	WT	F	GF0508E248501	<	0.2		328	<	6		30.2	<	1	<	0.1		1.1		1.2		4.3		198
PJ-SMA-15	E248.5	08/05/05	WT	UF	GU0508E248501		0.81		15400	<	6		169		1.3		1		3.4		10.4		21.3		8970
PJ-SMA-15	E248.5	08/12/05	WT	F	GF0508E248502	<	0.2	<	68	<	6		13.2	<	1	<	0.1	<	1		1.4	<	3		21.8
PJ-SMA-15	E248.5	08/12/05	WT	UF	GU0508E248502		0.73		13200	<	6		95.6	<	1		0.31		2.2		9.1		12.2		8330
PJ-SMA-250	E250	03/23/05	WM	UF	GU05030M25001	<	0.23		955		3.9		81.7	<	0.172	<	0.07	<	0.762	<	1.43	<	1.8		466
PJ-SMA-250	E250	08/12/05	WT	F	GF05080E25001	<	0.2		5030	<	6		57.4	<	1	<	0.1	<	2.7	<	3.3	<	5.7		2550
PJ-SMA-250	E250	08/12/05	WT	UF	GU05080E25001		0.6		17300		6.1		137	<	1	<	0.35	<	2.1	<	9.6	<	12		10300
Pratt-SMA-1	SS20142	08/12/05	WT	F	GF05082014201	<	0.2		1360	<	6		67.3	<	1	<	0.1	<	1	<	1		6.1		698
Pratt-SMA-1	SS20142	08/12/05	WT	UF	GU05082014201		0.24		92100		15.3		531		5.2		0.65		13.1		52		44.5		58700
Pratt-SMA-1	SS20142	08/22/05	WT	F	GF05082014202	<	0.2		6160	<	6		68.3	<	1	<	0.1		9.6		3.8		6		3130
Pratt-SMA-1	SS20142	08/22/05	WT	UF	GU05082014202		1.5		663000		103		4940		43.6		3.4		128		358		335		418000
Pratt-SMA-1	SS20142	08/24/05	WT	F	GF05082014203	<	0.2		10800	<	6		85.5	<	1		0.42	<	2.2		6		6.8		5830
Pratt-SMA-1	SS20142	08/24/05	WT	UF	GU05082014203		2.3		927000		151		20900		125		13.4		496		558		653		715000
Pratt-SMA-1	SS20142	10/03/05	WT	F	GF05102014201	<	0.2		8720	<	6		74.6	<	1		0.38		1.2		4.6		5.2		4380
Pratt-SMA-1	SS20142	10/03/05	WT	UF	GU05102014201		0.57		94300		17		1880		12.8		3.1		33.6		51.7		65.3		62500
P-SMA-2	SS057	08/24/05	WT	F	GF05080K05701	<	0.2		734	<	6		30.6	<	1	<	0.1	<	1	<	1		4.8		421
P-SMA-2	SS057	08/24/05	WT	UF	GU05080K05701		5.5		45000		13.3		508		3.4		1.7		11.2		34.5		55.1		42100
P-SMA-2.2	SS0575	05/03/05	WT	F	GF0505K057501	<	0.2		764		6.7		22.9	<	1	<	0.1	<	1	<	1.5		4.1		445
P-SMA-2.2	SS0575	05/03/05	WT	UF	GU0505K057501		0.96		30000		8		218		1.5		0.37		5.7		18.1		18.3		19900
P-SMA-2.2	SS0575	05/31/05	WT	F	GF0505K057502	<	0.2		415		9.4		70.1	<	1		0.1		6.7	<	1		6.7		286
P-SMA-2.2	SS0575	05/31/05	WT	UF	GU0505K057502		6.9		172000		62.5		1700		7.4		4.4		62.9		123		169		147000
P-SMA-2.2	SS0575	07/20/05	WT	F	GF0507K057501	<	0.2		425		8.8		70.8	<	1		0.13		4.3		2.6		12.9		311
P-SMA-2.2	SS0575	07/20/05	WT	UF	GU0507K057501		2		69900		27.4		670		6.3		2		23.1		48.6		77.6		56900
P-SMA-2.2	SS0575	08/04/05	WT	F	GF0508K057501	<	0.2		1370	<	6		48.1	<	1		0.14		6.2		1.5		6.4		860
P-SMA-2.2	SS0575	08/04/05	WT	UF	GU0508K057501		0.49		32700		7.9		238		1.8		0.65		7		19.9		20.6		21100
P-SMA-3	SS054	04/25/05	WT	F	GF05040K05401	<	0.2		1030	<	6		35.8	<	1	<	0.1		3.5		1.9		4		638
P-SMA-3	SS054	04/25/05	WT	UF	GU05040K05401		1.2		79300		23.2		799		1.6		2.5		20.8		60.8		151		66000
P-SMA-3	SS054	08/04/05	WT	F	GF05080K05401	<	0.2		411	<	6		34.3	<	1		0.14		2.2		3.4		8.8		286
P-SMA-3	SS054	08/04/05	WT	UF	GU05080K05401		0.23		24100		7.5		231		1.3		0.91		6.1		21.2		36.5		17200
P-SMA-3	SS054	08/22/05	WT	F	GF05080K05402	<	0.2		414	<	6		41	<	1	<	0.1		2.1		1.8		4.6		285
P-SMA-3	SS054	08/22/05	WT	UF	GU05080K05403		0.6		59900		12.7		585		3.4		2.2		18		50.2		70.8		50300
P-SMA-3	SS054	08/24/05	WT	F	GF05080K05403	<	0.2		297	<	6		37	<	1	<	0.1	<	1		1.1		4.8		220
P-SMA-3	SS054	08/24/05	WT	UF	GU05080K05404		1.4		58300		13.6		888		5.8		3.7		24.2		48.4		129		48900

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
PJ-SMA-4	SS24253	04/16/05	WT	F	GF05040KPS401				65.1	<	2		3.5		1.9		0.54	<	2.5	<	0.4		5.3		13.7
PJ-SMA-4	SS24253	04/16/05	WT	UF	GU05040KPS401	<	0.05		883	<	2		40.9		52.1	<	0.5	<	2.5	<	0.87		121		217
PJ-SMA-4	SS24253	04/24/05	WT	F	GF05040KPS402				17	<	2		2.1		0.92	<	0.5	<	2.5	<	0.4		3		9
PJ-SMA-4	SS24253	04/24/05	WT	UF	GU05040KPS402	<	0.05		154	<	2		7.6		10	<	0.5	<	2.5	<	0.4		22.7		56.6
PJ-SMA-4	SS24253	05/03/05	WT	F	GF05050KPS401				17.8	<	2		1.6	<	0.95	<	0.5	<	2.5		0.41		2.5		5.8
PJ-SMA-4	SS24253	05/03/05	WT	UF	GU05050KPS401		0.084		504	<	2		19.1		25.8			<	2.5		0.5		64.6		93.8
PJ-SMA-4	SS24253	07/18/05	WT	F	GF05070KPS401				261	<	2		2.7	<	0.5	<	0.5	<	2.5	<	0.4		3	<	3.7
PJ-SMA-4	SS24253	07/18/05	WT	UF	GU05070KPS401	<	0.05		374	<	2		5.2		3.2	<	0.5	<	2.5	<	0.4		18.5		29
PJ-SMA-7	SS24210	07/15/05	WT	F	GF05072421001				338	<	2		1.9		1.5	<	0.5	<	2.5	<	0.4		1.4		16.1
PJ-SMA-7	SS24210	07/15/05	WT	UF	GU05072421001		0.18		600	<	2		4.1		32.7	<	0.5	<	2.5	<	0.4		16.9		130
PJ-SMA-7	SS24210	08/04/05	WT	F	GF05082421001				104	<	2		1.1	<	0.87	<	0.5	<	2.5	<	0.4	<	1	<	9.8
PJ-SMA-7	SS24210	08/04/05	WT	UF	GU05082421001	<	0.25		194	<	2		3		11.2		1.2	<	2.5	<	0.4		5.3		34.2
PJ-SMA-7	SS24210	08/12/05	WT	F	GF05082421002				45.6	<	2		0.76		0.56	<	0.5	<	2.5	<	0.4		1.2	<	12.2
PJ-SMA-7	SS24210	08/12/05	WT	UF	GU05082421002		0.16		58.8	<	2		4.9		25.9	<	0.5	<	2.5	<	0.4		4	<	23.3
PJ-SMA-7	SS24210	08/24/05	WT	F	GF05082421003				38.4				1.8		1.3	<	0.5	<	2.5	<	0.4		1.4		20.9
PJ-SMA-7	SS24210	08/24/05	WT	UF	GU05082421003	<	0.05		107	<	2		3.4		10.2	<	0.5	<	2.5	<	0.4		5.5		46.4
PJ-SMA-15	E248.5	04/24/05	WT	F	GF0504E248501				13.7	<	2		0.59	<	0.5		8.7	<	2.5	<	0.4		1.3	<	4
PJ-SMA-15	E248.5	04/24/05	WT	UF	GU0504E248501	<	0.05		254	<	2		6.3		9.5		7.1	<	2.5	<	0.4		12.8		84.2
PJ-SMA-15	E248.5	07/15/05	WT	F	GF0507E248501				32.1	<	2		0.97	<	0.5		4.9	<	2.5	<	0.4		3.6	<	4.7
PJ-SMA-15	E248.5	07/15/05	WT	UF	GU0507E248501	<	0.05		2110	<	2		33.4		90.5	<	1.1	<	2.5	<	0.4		56.1		492
PJ-SMA-15	E248.5	08/05/05	WT	F	GF0508E248501				6.5	<	2		1.2	<	0.5		6.6	<	2.5	<	0.4		3.2		12.1
PJ-SMA-15	E248.5	08/05/05	WT	UF	GU0508E248501		0.067		411	<	2		9.1		17.8		5.1	<	2.5	<	0.4		19.8		143
PJ-SMA-15	E248.5	08/12/05	WT	F	GF0508E248502				6.4	<	2	<	0.5	<	0.5		11.1	<	2.5	<	0.4		1.7	<	3.5
PJ-SMA-15	E248.5	08/12/05	WT	UF	GU0508E248502	<	0.05		231	<	2		4.6		9.2		9.6	<	2.5	<	0.4		14.2		72.9
PJ-SMA-250	E250	03/23/05	WM	UF	GU05030M25001	<	0.0472		12.1		2.1		1.2		0.53	<	0.2		2.3	<	0.4	<	0.732		3.7
PJ-SMA-250	E250	08/12/05	WT	F	GF05080E25001				26	<	2		3.3		1.8		1	<	2.5	<	0.4	<	5.7	<	14.6
PJ-SMA-250	E250	08/12/05	WT	UF	GU05080E25001	<	0.05		326	<	2		7.5		12.2		0.8	<	2.5	<	0.4		17.9		48.8
Pratt-SMA-1	SS20142	08/12/05	WT	F	GF05082014201				80.7	<	2		3.4		0.54	<	0.5	<	2.5		0.42		4.3		14.2
Pratt-SMA-1	SS20142	08/12/05	WT	UF	GU05082014201				790	<	2		33.5		41.1	<	0.5	<	2.5		0.72		98		187
Pratt-SMA-1	SS20142	08/22/05	WT	F	GF05082014202				36.1	<	2		5.8		2.3		0.61	<	2.5	<	0.4		8.4		23.7
Pratt-SMA-1	SS20142	08/22/05	WT	UF	GU05082014202				7490	<	4		275		324	<	0.5	<	2.5		5.7		630		1280
Pratt-SMA-1	SS20142	08/24/05	WT	F	GF05082014203				126	<	3		5.5		3.7	<	0.5	<	2.5	<	0.4		12.1		36.2
Pratt-SMA-1	SS20142	08/24/05	WT	UF	GU05082014203				35600	<	3.1		362		667	<	0.5	<	12.5		9.8		998		2140
Pratt-SMA-1	SS20142	10/03/05	WT	F	GF05102014201				38.1	<	2		7		7	<	0.5	<	2.5	<	0.4		11.3		13.4
Pratt-SMA-1	SS20142	10/03/05	WT	UF	GU05102014201				2600	<	2		105		120		0.61	<	2.5		1.9		148		193
P-SMA-2	SS057	08/24/05	WT	F	GF05080K05701				29.8	<	2		1.7		1.2	<	0.5	<	2.5	<	0.4		1.5		22.2
P-SMA-2	SS057	08/24/05	WT	UF	GU05080K05701		0.056		1420		4		19.2		133		1.2	<	2.5		0.49		59.7		323
P-SMA-2.2	SS0575	05/03/05	WT	F	GF0505K057501				32.5	<	2		2.2	<	1.3		1.7	<	2.5	<	0.4		5		15.1
P-SMA-2.2	SS0575	05/03/05	WT	UF	GU0505K057501	<	0.19		496	<	2		12		35.1		1.4	<	2.5		0.42		37.3		118
P-SMA-2.2	SS0575	05/31/05	WT	F	GF0505K057502				597		2.6		7		2.1		2.9	<	2.5	<	0.4		5.5		28.4
P-SMA-2.2	SS0575	05/31/05	WT	UF	GU0505K057502		2.4		5950	<	2		102		327		1.6	<	2.5		1.7		277		1060
P-SMA-2.2	SS0575	07/20/05	WT	F	GF0507K057501				413		4.4		5.5		2.7		2.9	<	2.5	<	0.4		13.3		19
P-SMA-2.2	SS0575	07/20/05	WT	UF	GU0507K057501		0.25		2140		6.4		41.1		148		3.1	<	2.5		1.1		117		407
P-SMA-2.2	SS0575	08/04/05	WT	F	GF0508K057501				231		2.3		3.5		1.5	<	2	<	2.5	<	0.4		6.8	<	14.6
P-SMA-2.2	SS0575	08/04/05	WT	UF	GU0508K057501		0.23		701		2.4		13.3		41.1	<	2.2	<	2.5	<	0.4		44.5		123
P-SMA-3	SS054	04/25/05	WT	F	GF05040K05401				91.8		4.9		2.3		1		0.65	<	2.5	<	0.4		4.3		11.8
P-SMA-3	SS054	04/25/05	WT	UF	GU05040K05401		0.57		1850		2.3		42.9		222		1.2	<	2.5		0.99		117		631
P-SMA-3	SS054	08/04/05	WT	F	GF05080K05401				36.8		4.6		2.9		1.2	<	0.99	<	2.5	<	0.4		7.8		49.2
P-SMA-3	SS054	08/04/05	WT	UF	GU05080K05401	<	0.5		546		5.8		11.4		57.1	<	1.1	<	2.5		0.55		36.8		346
P-SMA-3	SS054	08/22/05	WT	F	GF05080K05402				9.9		6.4		2.8		2.1		0.85	<	2.5	<	0.4		4.4		12.8
P-SMA-3	SS054	08/22/05	WT	UF	GU05080K05403		0.09		1730		6		37		189		1.5	<	2.5		0.9		83.1		505
P-SMA-3	SS054	08/24/05	WT	F	GF05080K05403				3.7		5.7		2.3		1.2	<	0.5	<	2.5		0.47		3.6		33.7
P-SMA-3	SS054	08/24/05	WT	UF	GU05080K05404		0.46		3230		4.1		47.5		389		0.79	<	2.5		0.88		97.6		845

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
R-SMA-1	SS00	05/03/05	WT	F	GF050500K0001	<	0.2		5800	<	6		72.4	<	1		0.2		11.5		4.2		5.1		2900
R-SMA-1	SS00	05/03/05	WT	UF	GU050500K0001		0.3		65800		18		605		5.2		1		18.3	<	46.5		58.6		51200
R-SMA-1	SS00	08/12/05	WT	F	GF050800K0001	<	0.2		1900	<	6		30.4	<	1	<	0.1	<	1	<	3		3.5		1010
R-SMA-1	SS00	08/12/05	WT	UF	GU050800K0001	<	0.2		7580	<	6		134	<	1		0.37		2.3		5.5		10.2		4440
R-SMA-1	SS00	08/24/05	WT	F	GF050800K0002	<	0.2		903	<	6		22.7	<	1	<	0.1	<	1		1.2		3.2		503
R-SMA-1	SS00	08/24/05	WT	UF	GU050800K0002	<	0.2		39200		7		232		2.5		0.69		7		24.8		23.5		27600
R-SMA-1	SS00	09/29/05	WT	F	GF050900K0001	<	0.2		2090	<	6		32.3	<	1	<	0.1	<	1		1.7		5.4		1180
R-SMA-1	SS00	09/29/05	WT	UF	GU050900K0001	<	0.2		16000	<	6		104	<	1		0.24		2.1		9.5		21.3		9130
S-SMA-1	K1222	05/03/05	WT	F	GF0505K122201	<	0.2		332		6.9		43.8	<	1	<	0.1		4.3		1.6		7.3		191
S-SMA-1	K1222	05/03/05	WT	UF	GU0505K122201		1.4		194000		82.8		3540		11.3		6.5		101		270		632		242000
S-SMA-1	K1222	08/11/05	WT	F	GF0508K122201	<	0.2		447	<	6		35.2	<	1	<	0.1		3.5		1.6		18.3		301
S-SMA-1	K1222	08/11/05	WT	UF	GU0508K122201		0.28		49300		15.2		852		2.8		1.6		23.6		53.7		204		45500
S-SMA-1	K1222	08/24/05	WT	UF	GU0508K122202																				
S-SMA-1	K1222	08/25/05	WT	F	GF0508K122203	<	0.2		184	<	6		38.2	<	1	<	0.1	<	1		1.1		6		127
S-SMA-1	K1222	08/25/05	WT	UF	GU0508K122203		0.38		64200		19.5		799		3.1		1.6		24.5		60.6		154		62700
S-SMA-1	K1222	09/28/05	WT	F	GF0509K122201	<	0.2		427	<	6		20.5	<	1	<	0.1		3.1		1.2		5.1		291
S-SMA-1	K1222	09/28/05	WT	UF	GU0509K122201		0.28		117000		36.7		1680		5.7		2.6		49.7		136		279		142000
S-SMA-2	E121	04/16/05	WT	F	GF05040E12101	<	0.2		392	<	6		17.9	<	1	<	0.1	<	1		2.2		7.1		235
S-SMA-2	E121	04/16/05	WT	UF	GU05040E12101		0.27		18400	<	6		137		1.1		2.1		4.2		21		36.4		14300
S-SMA-2	E121	07/15/05	WT	F	GF05070E12101	<	0.2		151	<	6		22.8	<	1	<	0.1	<	1		3.1		5.6		112
S-SMA-2	E121	07/15/05	WT	UF	GU05070E12101	<	0.2		4730	<	6		362		1.9		1.4		9.7		27		79.5		4120
S-SMA-2	E121	07/20/05	WT	F	GF05070E12102	<	0.2		200	<	6		33.9	<	1	<	0.1	<	1		3.8		9		209
S-SMA-2	E121	07/20/05	WT	UF	GU05070E12102		0.31		26000	<	6		204		1.5		0.55		6		35.7		36		19400
S-SMA-2	E121	08/04/05	WT	F	GF05080E12101	<	0.2		547	<	6		22.9	<	1	<	0.1	<	1		2.5		6		273
S-SMA-2	E121	08/04/05	WT	UF	GU05080E12101	<	0.4		47900		8.6		363		2.8		0.82		10.7		53.7		56.1		45400
S-SMA-3.5	SS12293	07/15/05	WT	F	GF05071229301	<	0.2		1070	<	6		78.7	<	1		0.16		4.4		1.4		5.1		559
S-SMA-3.5	SS12293	07/15/05	WT	UF	GU05071229301		1.9		48500		15.4		719		6		2.3		15.7		35.9		55.1		49000
S-SMA-3.5	SS12293	08/05/05	WT	F	GF05081229301	<	0.2		1390	<	6		31.2	<	1	<	0.1		2.5		1.5		5.9		778
S-SMA-3.5	SS12293	08/05/05	WT	UF	GU05081229301		0.3		72300		15.3		452		4.2		1.2		13.9		42.7		43.1		53500
S-SMA-3.5	SS12293	08/22/05	WT	F	GF05081229302	<	0.2		1390	<	6		21.3	<	1	<	0.1		2.3		1.5		3.1		707
S-SMA-3.5	SS12293	08/22/05	WT	UF	GU05081229303		0.64		148000		31.8		1060		10.4		2.9		28.3		86.5		89.6		129000
S-SMA-3.5	SS12293	08/24/05	WT	F	GF05081229303	<	0.2		216	<	6		18.6	<	1	<	0.1	<	1	<	1	<	3		116
S-SMA-3.5	SS12293	08/24/05	WT	UF	GU05081229304		0.21		62500		16.6		631		6.4		1.4		14.6		37.1		52.6		52500
S-SMA-3.9	SS1235	04/25/05	WT	F	GF0504K123501	<	0.2		171	<	6		7.9	<	1	<	0.1		6.2	<	1	<	3		109
S-SMA-3.9	SS1235	04/25/05	WT	UF	GU0504K123501		0.27		40300		27.1		789	<	1		2.9		17.5		73.1		127		44500
S-SMA-3.9	SS1235	08/12/05	WT	F	GF0508K123501	<	0.2	<	68	<	6		12	<	1	<	0.1	<	1	<	1.1	<	3		35.9
S-SMA-3.9	SS1235	08/12/05	WT	UF	GU0508K123501	<	0.2		8360	<	6		124	<	1		0.61		2.6		15.4		20.6		6580
S-SMA-3.9	SS1235	08/22/05	WT	F	GF0508K123502	<	0.2	<	68	<	6		15.5	<	1	<	0.1	<	1		2.7		13.1		63.4
S-SMA-3.9	SS1235	08/22/05	WT	UF	GU0508K123502	<	0.2		1080	<	6		32.2	<	1		0.1	<	1		4.1		7.1		821
S-SMA-3.9	SS1235	09/28/05	WT	F	GF0509K123501	<	0.2		120	<	6		13.8	<	1		0.84		1.6		2	<	3		74.4
S-SMA-3.9	SS1235	09/28/05	WT	UF	GU0509K123501	<	0.2		7970	<	6		93.8	<	1		0.44		2.6		9.7		15.2		5380
S-SMA-5	SS1245	08/25/05	WT	F	GF0508K124501		0.37		577	<	6		31.2	<	1	<	0.1		1.5		5.1		5.2		388
S-SMA-5	SS1245	08/25/05	WT	UF	GU0508K124501		3.1		789000		166		5720		69.5		10.4		181		4910		1010		714000
S-SMA-6	SS1248	09/29/05	WT	F	GF0510K124801		8.4		1060	<	6		15.8	<	1		1.1	<	1		4.7		3.9		578
S-SMA-6	SS1248	09/29/05	WT	UF	GU0510K124801		0.52		72900		17.2		576		7		0.79		17.5		251		77.7		58800
T-SMA-1	E201.3	08/12/05	WT	UF	GU0508E201301	<	0.2		14800	<	6		143	<	1		0.87		3.4		10.4		16.9		10100
T-SMA-1	E201.3	08/22/05	WT	F	GF0508E201301	<	0.2		1350	<	6		15.3	<	1	<	0.1		1.6		1.3		3.3		645
T-SMA-1	E201.3	08/22/05	WT	UF	GU0508E201302																				
T-SMA-1	E201.3	08/24/05	WT	F	GF0508E201302	<	0.2		1000		6.9		17.9	<	1	<	0.1		1.8		3.6		5.2		502
T-SMA-1	E201.3	08/24/05	WT	UF	GU0508E201303		0.28		43100		17.3		461		3.5		1.8		13.6		32.5		64.5		30800
T-SMA-1	E201.3	08/25/05	WT	F	GF0508E201303	<	0.2		728		7.3		24.4	<	1	<	0.1	<	1	<	3.7		6.6		388
T-SMA-1	E201.3	08/25/05	WT	UF	GU0508E201304	<	0.2		21800		14.5		182		1.4		0.69		5.2		21.5		33.5		15000
T-SMA-1	E201.3	09/22/05	WT	F	GF0509E201301	<	0.2		769		7.7		26.7	<	1		0.11		4.7		3.7		15.2		417
T-SMA-1	E201.3	09/22/05	WT	UF	GU0509E201301	<	0.2		13600		8.3		127	<	1		0.6		2.8		12.3		33.6		9240
T-SMA-1	E201.3	10/10/05	WT	UF	GU0510E201301																				

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
R-SMA-1	SS00	05/03/05	WT	F	GF050500K0001				31.9	<	2		3.5	<	2.5	<	0.5	<	2.5	<	0.4		6.8		27.7
R-SMA-1	SS00	05/03/05	WT	UF	GU050500K0001	<	0.26		1850		2.1		19.4		110			<	2.5	<	0.4		81.4		316
R-SMA-1	SS00	08/12/05	WT	F	GF050800K0001				8.3	<	2		1.8		1.1	<	0.5	<	2.5	<	0.4		4.1		41.8
R-SMA-1	SS00	08/12/05	WT	UF	GU050800K0001	<	0.05		266	<	2		8.5		27.7	<	0.5	<	2.5	<	0.4		13.8		60
R-SMA-1	SS00	08/24/05	WT	F	GF050800K0002				22.1	<	2		1.8		0.63	<	0.5	<	2.5	<	0.4		3.2	<	14.2
R-SMA-1	SS00	08/24/05	WT	UF	GU050800K0002	<	0.05		577	<	2		14.6		47.7	<	0.5	<	2.5		0.41		43.3		153
R-SMA-1	SS00	09/29/05	WT	F	GF050900K0001				9.6	<	2		2.4		1.3	<	0.5	<	2.5	<	0.4		4.4		14
R-SMA-1	SS00	09/29/05	WT	UF	GU050900K0001	<	0.05		159	<	2		7.3		18.8	<	0.57	<	2.5	<	0.4		16.7		81.8
S-SMA-1	K1222	05/03/05	WT	F	GF0505K122201				127		5.5		2.2	<	0.5		0.79	<	2.5	<	0.4		4	<	10.5
S-SMA-1	K1222	05/03/05	WT	UF	GU0505K122201		0.14		7470		13		213		284		0.81	<	2.5		2		402		1310
S-SMA-1	K1222	08/11/05	WT	F	GF0508K122201				20.7		4.5		2	<	0.5		0.78	<	2.5	<	0.4		7.9		4.9
S-SMA-1	K1222	08/11/05	WT	UF	GU0508K122201		0.15		1970		5.5		39.5		76	<	0.89	<	2.5		0.42		104	<	302
S-SMA-1	K1222	08/24/05	WT	UF	GU0508K122202		0.17																		
S-SMA-1	K1222	08/25/05	WT	F	GF0508K122203				5.2		6.2		1.2	<	0.5		0.65	<	2.5	<	0.4		6.8	<	5.9
S-SMA-1	K1222	08/25/05	WT	UF	GU0508K122203		0.14		1770		5.4		44.8		77.6		0.86	<	2.5		0.61		112		293
S-SMA-1	K1222	09/28/05	WT	F	GF0509K122201				14.8		3.6		1.6	<	0.5	<	0.55	<	2.5		0.58		5.2	<	4.8
S-SMA-1	K1222	09/28/05	WT	UF	GU0509K122201				3460		8.4		44.2		123	<	1.1	<	2.5		0.49		235		629
S-SMA-2	E121	04/16/05	WT	F	GF05040E12101				47.5	<	2		0.98		0.59		1.4	<	3.7	<	0.4		1.9		23.5
S-SMA-2	E121	04/16/05	WT	UF	GU05040E12101		0.073		337		2.1		8.1		30		2	<	3.3	<	0.4		21.6		226
S-SMA-2	E121	07/15/05	WT	F	GF05070E12101				10.3		5		0.89		0.57		0.79	<	2.5	<	0.4		2.6		19.5
S-SMA-2	E121	07/15/05	WT	UF	GU05070E12101		0.34		1010	<	2		12.7		90.5	<	0.76	<	2.5	<	0.4		21.4		784
S-SMA-2	E121	07/20/05	WT	F	GF05070E12102				47.5		4		1.4	<	0.5	<	2.2	<	2.5	<	0.4		7.3		23.4
S-SMA-2	E121	07/20/05	WT	UF	GU05070E12102		0.24		452		4.4		11.3		28	<	2	<	2.5	<	0.4		32.7		216
S-SMA-2	E121	08/04/05	WT	F	GF05080E12101				26.9		2		1.1	<	0.5		4	<	2.5	<	0.4		4.8		5.1
S-SMA-2	E121	08/04/05	WT	UF	GU05080E12101		0.22		1000		3.3		18		50.7		2.1	<	2.5		0.53		54.4		358
S-SMA-3.5	SS12293	07/15/05	WT	F	GF05071229301				493	<	2		4.1		1.9	<	0.5	<	2.5	<	0.4		2.3		29.1
S-SMA-3.5	SS12293	07/15/05	WT	UF	GU05071229301				2780		3.8		27.5		104	<	0.5	<	2.5		0.71		64.1		459
S-SMA-3.5	SS12293	08/05/05	WT	F	GF05081229301				57.5		2.1		2.1		0.6	<	0.5	<	2.5	<	0.4		4.9	<	10.8
S-SMA-3.5	SS12293	08/05/05	WT	UF	GU05081229301	<	0.11		955		3.9		23.5		55	<	0.5	<	2.5		0.84		77.2		331
S-SMA-3.5	SS12293	08/22/05	WT	F	GF05081229302				11.7		2.4		1.6		0.71		0.54	<	2.5	<	0.4		3.7	<	8.9
S-SMA-3.5	SS12293	08/22/05	WT	UF	GU05081229303		0.47		2660		9.2		59.4		169		0.99	<	2.5		2.1		157		663
S-SMA-3.5	SS12293	08/24/05	WT	F	GF05081229303				9.1		3.1		0.93	<	0.5	<	0.5	<	2.5		0.51		3.2	<	3.8
S-SMA-3.5	SS12293	08/24/05	WT	UF	GU05081229304		0.32		2100		6.9		18.3		85.3	<	0.5	<	2.5	<	0.4		70.7		356
S-SMA-3.9	SS1235	04/25/05	WT	F	GF0504K123501				18.9	<	2		1.1	<	0.5	<	0.5	<	2.5	<	0.4		1.3		19.5
S-SMA-3.9	SS1235	04/25/05	WT	UF	GU0504K123501	<	0.05		1470	<	2		40.5		228		3.3	<	2.5	<	0.4		84.2		1510
S-SMA-3.9	SS1235	08/12/05	WT	F	GF0508K123501				6.5	<	2		0.95	<	0.5	<	0.5	<	2.5	<	0.4	<	1	<	25.6
S-SMA-3.9	SS1235	08/12/05	WT	UF	GU0508K123501	<	0.05		318	<	2		5.9		83.7		0.94	<	2.5	<	0.4		12.1		216
S-SMA-3.9	SS1235	08/22/05	WT	F	GF0508K123502				3.4	<	2		1.2		0.66	<	0.5	<	2.5	<	0.4		1.4		27.2
S-SMA-3.9	SS1235	08/22/05	WT	UF	GU0508K123502	<	0.05		47.3	<	2		2.9		9.8	<	0.5	<	2.5	<	0.4		2.9		59.4
S-SMA-3.9	SS1235	09/28/05	WT	F	GF0509K123501				3.8	<	2		0.91	<	0.5	<	0.5	<	2.5	<	0.4		1.1		8.1
S-SMA-3.9	SS1235	09/28/05	WT	UF	GU0509K123501				266	<	2		5.3		68.5	<	0.68	<	2.5	<	0.4		10.2		143
S-SMA-5	SS1245	08/25/05	WT	F	GF0508K124501				742		14		5		2.3		0.7	<	2.5	<	0.4		6.7		33.4
S-SMA-5	SS1245	08/25/05	WT	UF	GU0508K124501		0.93		22800		34.7		92		325		0.52	<	2.5		0.82		756		6750
S-SMA-6	SS1248	09/29/05	WT	F	GF0510K124801				7.4		9.2		44.5		142	<	0.72	<	2.5	<	0.97		4.7		5.1
S-SMA-6	SS1248	09/29/05	WT	UF	GU0510K124801		0.064		2440		11.1		19.7		43.3	<	0.73	<	2.5	<	0.46		81.1		525
T-SMA-1	E201.3	08/12/05	WT	UF	GU0508E201301	<	0.05		317	<	2		7.5		19.9	<	0.55	<	2.5	<	0.4		17.4		213
T-SMA-1	E201.3	08/22/05	WT	F	GF0508E201301				11.3	<	2		1		0.68	<	0.5	<	2.5	<	0.4		2.4	<	11.6
T-SMA-1	E201.3	08/22/05	WT	UF	GU0508E201302		0.1																		
T-SMA-1	E201.3	08/24/05	WT	F	GF0508E201302				7.4	<	2		1.4		0.51	<	0.74	<	2.5	<	0.4		2.1		22.3
T-SMA-1	E201.3	08/24/05	WT	UF	GU0508E201303				1200		2.6		24.4		61.2		0.63	<	2.5		0.65		51.1		721
T-SMA-1	E201.3	08/25/05	WT	F	GF0508E201303				6.2		2.1		1	<	0.5		1	<	2.5	<	0.4		3.5	<	18
T-SMA-1	E201.3	08/25/05	WT	UF	GU0508E201304		0.088		418		2.8		10.2		25.2		1.2	<	2.5	<	0.4		26.3		332
T-SMA-1	E201.3	09/22/05	WT	F	GF0509E201301				29	<	2		2.8		0.63		0.65	<	2.5	<	0.57		3.1		64.4
T-SMA-1	E201.3	09/22/05	WT	UF	GU0509E201301				250	<	2		7.1		16.4		0.77	<	2.5	<	0.4		16		306
T-SMA-1	E201.3	10/10/05	WT	UF	GU0510E201301	<	0.05																		

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
T-SMA-3	SS20134	07/15/05	WT	F	GF05072013401	<	0.2		405	<	6		114	<	1		0.52		4.1		2.2		22.8		213
T-SMA-3	SS20134	07/15/05	WT	UF	GU05072013401	<	0.2		1740	<	6		55.9	<	1		0.24		1.4		3.3		17.7		973
T-SMA-3	SS20134	08/04/05	WT	F	GF05082013401	<	0.2		433	<	6		79.7	<	1	<	0.1		1.4	<	1		8.9		262
T-SMA-3	SS20134	08/04/05	WT	UF	GU05082013401		0.24		21200		8.2		283		1		0.49		7.1		11.5		25.8		12200
T-SMA-3	SS20134	08/12/05	WT	F	GF05082013402		0.25		1290	<	6		40.5	<	1	<	0.1		1.1		2.3		5.2		652
T-SMA-3	SS20134	08/12/05	WT	UF	GU05082013402		3.6		51500		13.9		528		3.4		1.5		13.4		33.9		59		34000
T-SMA-3	SS20134	08/25/05	WT	F	GF05082013403	<	0.2		929	<	6		24.3	<	1	<	0.1	<	2.5		1.8		3.6		431
T-SMA-3	SS20134	08/25/05	WT	UF	GU05082013403		0.32		3440	<	6		46.9	<	1		0.12	<	1.1		3.2		6.7		1890
T-SMA-4	SS20136	07/15/05	WT	F	GF05072013601	<	0.2		466	<	6		31	<	1		0.18		2.2		2.7		8.3		266
T-SMA-4	SS20136	07/15/05	WT	UF	GU05072013601	<	0.2		8700	<	6		66.7	<	1		0.18		2.1		9.1		13.9		5340
T-SMA-4	SS20136	08/12/05	WT	F	GF05082013601	<	0.2		1450	<	6		20.2	<	1	<	0.1		1.6		1.3		4.8		729
T-SMA-5	SS20138	08/24/05	WT	F	GF05082013801	<	0.2		845	<	6		19	<	1	<	0.1	<	1	<	1	<	3		427
T-SMA-5	SS20138	08/24/05	WT	UF	GU05082013801	<	0.2		10900	<	6		75.2	<	1		0.23		1.4		5.4		7.8		6580
T-SMA-5	SS20138	10/03/05	WT	F	GF05102013801	<	0.2		363	<	6		14.5	<	1	<	0.1		1.3	<	1	<	3		177
T-SMA-5	SS20138	10/03/05	WT	UF	GU05102013801		0.21		28300		6.5		227		1.9		0.91		5.3		15.2		15.6		20800
T-SMA-6	SS20140	08/24/05	WT	F	GF05082014001	<	0.2		369	<	6		42.7	<	1	<	0.1	<	2.1	<	1	<	3		192
T-SMA-6	SS20140	08/24/05	WT	UF	GU05082014001		0.62		155000		23.4		963		9.6		2.5		25.4		82.1		77.2		98800
T-SMA-6	SS20140	10/03/05	WT	F	GF05102014001	<	0.2		1040	<	6		22.3	<	1	<	0.1	<	1		1.6	<	3		500
T-SMA-6	SS20140	10/03/05	WT	UF	GU05102014001		0.36		77000		15.5		714		6.5		2.7		18.2		45.5		55.3		63900
W-SMA-1	SS25203	05/03/05	WT	F	GF0505K252001	<	0.2		2750	<	6		35.7	<	1	<	0.1		1.4		2.4		6.8		1380
W-SMA-1	SS25203	05/03/05	WT	UF	GU0505K252001	<	0.2		20100		6.7		185	<	1		0.26		4.1		13		25.1		12200
W-SMA-1	SS25203	05/27/05	WT	F	GF05052520301	<	0.2		1300	<	6		30.6	<	1	<	0.1		1.7	<	3.1		3.7		605
W-SMA-1	SS25203	05/27/05	WT	UF	GU05052520301		0.24		33000		10.8		364	<	1		0.63		9.2		27.5		43		22300
W-SMA-1	SS25203	07/15/05	WT	F	GF05072520301	<	0.2		814	<	6		33.1	<	1	<	0.1		1.1		1.6		3.1		421
W-SMA-1	SS25203	07/15/05	WT	UF	GU05072520301	<	0.2		3980	<	6		54.6	<	1	<	0.1	<	1		3.8		5.4		2070
W-SMA-1	SS25203	08/04/05	WT	F	GF05082520301	<	0.2		1370	<	6		24	<	1	<	0.1	<	1	<	1	<	3		581
W-SMA-1	SS25203	08/04/05	WT	UF	GU05082520301	<	0.2		17700	<	6		189		1		0.31		4.5		10.2		15.9		12100
W-SMA-2	SS25205	05/27/05	WT	F	GF05052520501	<	0.2		1790	<	6		23.1	<	1	<	0.1		3.1	<	1.4		5.9		876
W-SMA-2	SS25205	05/27/05	WT	UF	GU05052520501	<	0.2		28100		8.4		288	<	1		0.41		7.6		17.2		70.8		18500
W-SMA-2	SS25205	07/15/05	WT	F	GF05072520501	<	0.2		1120	<	6		24.5	<	1	<	0.1		2.3	<	1		6.7		544
W-SMA-2	SS25205	07/15/05	WT	UF	GU05072520501	<	0.2		44300		11.9		455		2.5		0.53		13.9		27.8		58.1		33000
W-SMA-2	SS25205	08/04/05	WT	F	GF05082520501	<	0.2		196	<	6		23.3	<	1	<	0.1	<	1	<	1		5.5		141
W-SMA-2	SS25205	08/04/05	WT	UF	GU05082520501	<	0.2		48200		11.5		526		2.8		0.64		15.1		30.4		55.5		32900
W-SMA-2	SS25205	08/11/05	WT	F	GF05082520502	<	0.2		1740	<	6		17.5	<	1	<	0.1		1.2		1.1		4.8		876
W-SMA-2	SS25205	08/11/05	WT	UF	GU05082520502	<	0.2		23500	<	6		204		1.2		0.23		4.9		13.4		23.3		15300
W-SMA-4	E252.8	08/12/05	WT	F	GF0508E252801	<	0.2		2500	<	6		95.6	<	1	<	0.1	<	1		1.4		3.6		1280
W-SMA-4	E252.8	08/12/05	WT	UF	GU0508E252801	<	0.2		15000	<	6		311		1		0.46		3		7.3		12.5		8680
W-SMA-4	E252.8	08/24/05	WT	F	GF0508E252802	<	0.2		567	<	6		92	<	1	<	0.1	<	1	<	1	<	3		369
W-SMA-4	E252.8	08/24/05	WT	UF	GU0508E252802		1.6		155000		37.8		3300	<	11.4	<	3		51.8		91.9		137		119000
W-SMA-5	SS2528	07/15/05	WT	F	GF0507K252801	<	0.2		193	<	6		41.7	<	1		0.4		1.8		4.3		50.2		21.9
W-SMA-5	SS2528	07/15/05	WT	UF	GU0507K252801	<	0.2		1320	<	6		54	<	1		0.42		1.1		7.7		77.9		660
W-SMA-5	SS2528	08/04/05	WT	F	GF0508K252801	<	0.2		282	<	6		59.2	<	1		0.3	<	1		2.9		67.6		27.8
W-SMA-5	SS2528	08/04/05	WT	UF	GU0508K252801	<	0.2		895	<	6		87.7	<	1		0.39	<	1		3.7		92.9		340
W-SMA-5	SS2528	08/11/05	WT	F	GF0508K252802	<	0.2		130	<	6		43.7	<	1		0.21	<	1		1.8		50.6		18
W-SMA-5	SS2528	08/11/05	WT	UF	GU0508K252802	<	0.2		319	<	6		41.2	<	1		0.22	<	1		1.8		48		121
W-SMA-5	SS2528	09/28/05	WT	F	GF0510K252801	<	0.2	<	68	<	6		36	<	1		0.11		1.9		1.8		17.5		32.9
W-SMA-5	SS2528	09/28/05	WT	UF	GU0510K252801	<	0.2		2440	<	6		103	<	1		0.22	<	1		4		40.9		1390
W-SMA-7	SS25243	05/27/05	WT	F	GF05062524301	<	0.2		1260	<	6		17.3	<	1		0.14		1.8	<	1.6	<	3		702
W-SMA-7	SS25243	05/27/05	WT	UF	GU05062524301	<	0.2		31800		10		275		2.1		0.88		9.9		16		19.3		18500
W-SMA-7	SS25243	08/05/05	WT	F	GF05082524301	<	0.2		633	<	6		18.4	<	1	<	0.1		5	<	1	<	3		321
W-SMA-7	SS25243	08/05/05	WT	UF	GU05082524301	<	0.2		20300		6.6		181		1.1		0.43		7.9		9.6		11.7		11900
W-SMA-7	SS25243	08/12/05	WT	F	GF05082524302	<	0.2		1200	<	6		17.7	<	1		0.11		1.7	<	1.2		3.7		747
W-SMA-7	SS25243	08/12/05	WT	UF	GU05082524302	<	0.2		6640	<	6		59.8	<	1		0.19		1.2	<	3.2		4.6		3450
W-SMA-7	SS25243	08/24/05	WT	F	GF05082524303	<	0.2		2110	<	6		12.8	<	1	<	0.1	<	1.6		1.7	<	3		1040
W-SMA-7	SS25243	08/24/05	WT	UF	GU05082524303		0.39		71000		17.5		659		4.9		2		27.6		39.6		44.4		50900

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
T-SMA-3	SS20134	07/15/05	WT	F	GF05072013401				486	<	2		6.1		2.1		3.4	<	2.5	<	0.4		4.7		127
T-SMA-3	SS20134	07/15/05	WT	UF	GU05072013401				179	<	2		2.7		4.1		2.6	<	2.5	<	0.4		4		54.6
T-SMA-3	SS20134	08/04/05	WT	F	GF05082013401				127	<	2		2.2	<	0.5		2.5	<	2.5	<	0.4		3.8	<	10.3
T-SMA-3	SS20134	08/04/05	WT	UF	GU05082013401				1090		2.2		11		15.2		2.1	<	2.5	<	0.4		28.8		81
T-SMA-3	SS20134	08/12/05	WT	F	GF05082013402				8.4	<	2		1.7		0.77		2	<	2.5	<	0.4		2.1		24.8
T-SMA-3	SS20134	08/12/05	WT	UF	GU05082013402				989	<	2		18.8		59.4		1.3	<	2.5		0.67		58.3		434
T-SMA-3	SS20134	08/25/05	WT	F	GF05082013403				23.4	<	2		1.5		0.57	<	1	<	2.5	<	0.4		2.5		20.5
T-SMA-3	SS20134	08/25/05	WT	UF	GU05082013403				27.9	<	2		2		2.1		1.1	<	2.5	<	0.4		5		33.6
T-SMA-4	SS20136	07/15/05	WT	F	GF05072013601				213	<	2		2		1.6	<	0.58	<	2.5	<	0.4		2		27.2
T-SMA-4	SS20136	07/15/05	WT	UF	GU05072013601		0.71		260	<	2		2.3		7.6	<	0.5	<	2.5	<	0.4		9.6		60
T-SMA-4	SS20136	08/12/05	WT	F	GF05082013601				15.6	<	2		1.9		1.2	<	0.5	<	2.5	<	0.4		2.3		24.3
T-SMA-5	SS20138	08/24/05	WT	F	GF05082013801				36.4	<	2		3.2	<	0.5	<	0.5	<	2.5	<	0.4		1.6	<	16.3
T-SMA-5	SS20138	08/24/05	WT	UF	GU05082013801				191	<	2		4.7		9.5	<	0.5	<	2.5	<	0.4		10.5		49.6
T-SMA-5	SS20138	10/03/05	WT	F	GF05102013801				10.7	<	2		1	<	0.5	<	0.5	<	2.5	<	0.4		1.4	<	4.9
T-SMA-5	SS20138	10/03/05	WT	UF	GU05102013801				589		3.4		13.8		25	<	0.5	<	2.5		0.43		31		85.5
T-SMA-6	SS20140	08/24/05	WT	F	GF05082014001				119	<	2		2.1	<	0.5	<	0.5	<	2.5	<	0.4		2.9		16.7
T-SMA-6	SS20140	08/24/05	WT	UF	GU05082014001		0.072		2160	<	6.7		48.1		113	<	0.5	<	2.5		1.6		151		433
T-SMA-6	SS20140	10/03/05	WT	F	GF05102014001				4.5	<	2		0.94	<	0.5	<	0.5	<	2.5	<	0.4		2.4	<	4.4
T-SMA-6	SS20140	10/03/05	WT	UF	GU05102014001		0.43		1960		7.3		38.2		90.6	<	0.5	<	2.5		0.81		91.7		283
W-SMA-1	SS25203	05/03/05	WT	F	GF0505K252001				11.4	<	2		1.8	<	1.5		0.97	<	2.5	<	0.4		2.5		27.1
W-SMA-1	SS25203	05/03/05	WT	UF	GU0505K252001		0.1		301	<	2		7.9		17.5		0.89	<	2.5	<	0.4		23.5		160
W-SMA-1	SS25203	05/27/05	WT	F	GF05052520301				11.6	<	2		1.8		0.84		0.62	<	2.5	<	0.4		1.4		21.2
W-SMA-1	SS25203	05/27/05	WT	UF	GU05052520301		0.093		676	<	2		15.8		40.5		0.95	<	2.5	<	0.4		44.8		227
W-SMA-1	SS25203	07/15/05	WT	F	GF05072520301				24.9	<	2		1.2	<	0.5		0.73	<	2.5	<	0.4		2.3	<	7
W-SMA-1	SS25203	07/15/05	WT	UF	GU05072520301	<	0.05		54.1	<	2		2.1		3		0.61	<	2.5	<	0.4		5.5		16.3
W-SMA-1	SS25203	08/04/05	WT	F	GF05082520301				5.6	<	2		1.3		0.55	<	0.5	<	2.5	<	0.4		2.9	<	10.4
W-SMA-1	SS25203	08/04/05	WT	UF	GU05082520301	<	0.05		350	<	2		7		18.4		0.5	<	2.5	<	0.4		21		83.1
W-SMA-2	SS25205	05/27/05	WT	F	GF05052520501				35.6	<	2		1.5		0.6	<	0.5	<	2.5	<	0.4		1.6		11
W-SMA-2	SS25205	05/27/05	WT	UF	GU05052520501	<	0.05		515	<	2		8.5		21	<	0.5	<	2.5	<	0.4		37.6		124
W-SMA-2	SS25205	07/15/05	WT	F	GF05072520501				91.1	<	2		1.4	<	0.5	<	0.5	<	2.5	<	0.4		2.3	<	14.4
W-SMA-2	SS25205	07/15/05	WT	UF	GU05072520501		0.058		897		2.5		19.3		41.3	<	0.5	<	2.5		0.59		59		176
W-SMA-2	SS25205	08/04/05	WT	F	GF05082520501				93.8	<	2		1.6	<	0.5	<	0.5	<	2.5	<	0.4		2.1		6.4
W-SMA-2	SS25205	08/04/05	WT	UF	GU05082520501	<	0.05		1110	<	2		14.4		33	<	0.5	<	2.5		0.44		66.3		170
W-SMA-2	SS25205	08/11/05	WT	F	GF05082520502				8	<	2		1.1	<	0.5	<	0.5	<	2.5	<	0.4		2.6	<	9.5
W-SMA-2	SS25205	08/11/05	WT	UF	GU05082520502	<	0.05		303	<	2		8.6		16.2	<	0.5	<	2.5	<	0.4		28.3		81.8
W-SMA-4	E252.8	08/12/05	WT	F	GF0508E252801				8.8	<	2		1.8		0.81	<	0.5	<	2.5	<	0.4		3.8	<	13.8
W-SMA-4	E252.8	08/12/05	WT	UF	GU0508E252801	<	0.05		353	<	2		6.8		13.7	<	0.5	<	2.5	<	0.4		15.8		39.7
W-SMA-4	E252.8	08/24/05	WT	F	GF0508E252802				260	<	3.7		1.8	<	0.5	<	0.5	<	2.5	<	0.4	<	3.6	<	3.7
W-SMA-4	E252.8	08/24/05	WT	UF	GU0508E252802		0.42		5860	<	7.5		53.9		154		0.68	<	2.5		2		185		413
W-SMA-5	SS2528	07/15/05	WT	F	GF0507K252801				59.6	<	2		1.7		0.87	<	0.5	<	2.5	<	0.4		2.7		176
W-SMA-5	SS2528	07/15/05	WT	UF	GU0507K252801		0.36		61.4	<	2		1.8		9.1	<	0.5	<	2.5	<	0.4		4.2		217
W-SMA-5	SS2528	08/04/05	WT	F	GF0508K252801				37.1	<	2		1.6		0.92	<	0.5	<	2.5	<	0.4		3.3		198
W-SMA-5	SS2528	08/04/05	WT	UF	GU0508K252801		0.16		51.6	<	2		2.1		5.4	<	0.5	<	2.5	<	0.4		4.3		244
W-SMA-5	SS2528	08/11/05	WT	F	GF0508K252802				19.1	<	2		1.1	<	0.5	<	0.5	<	2.5	<	0.4		2.3		183
W-SMA-5	SS2528	08/11/05	WT	UF	GU0508K252802		0.2		23.5	<	2		1.2		2.8	<	0.5	<	2.5	<	0.4		2.1		165
W-SMA-5	SS2528	09/28/05	WT	F	GF0510K252801				7.3	<	2		0.99	<	0.5	<	0.5	<	2.5	<	0.4		1.7		86.1
W-SMA-5	SS2528	09/28/05	WT	UF	GU0510K252801		0.3		49.2	<	2		1.3		9.4	<	0.5	<	2.5	<	0.4		4.8		136
W-SMA-7	SS25243	05/27/05	WT	F	GF05062524301				301	<	2		1.9		1.5	<	0.5	<	2.5	<	0.4	<	1		11.2
W-SMA-7	SS25243	05/27/05	WT	UF	GU05062524301		0.27		1130	<	2		13.6		56.4	<	0.5	<	2.5		1		31.2		77.4
W-SMA-7	SS25243	08/05/05	WT	F	GF05082524301				96.6	<	2		2.1	<	0.5	<	0.5	<	2.5	<	0.4		1.8	<	6.4
W-SMA-7	SS25243	08/05/05	WT	UF	GU05082524301		0.11		888	<	2		9.5		28.5	<	0.5	<	2.5		0.64		21.5		39.8
W-SMA-7	SS25243	08/12/05	WT	F	GF05082524302				87.8	<	2		1.9		0.64		0.54	<	2.5	<	0.4		2.3		89.3
W-SMA-7	SS25243	08/12/05	WT	UF	GU05082524302	<	0.05		173	<	2		3.4		7.9	<	0.5	<	2.5	<	0.4		6.6	<	27.5
W-SMA-7	SS25243	08/24/05	WT	F	GF05082524303				12.3	<	2		2.7		0.94	<	0.5	<	2.5	<	0.4		2.9		13.8
W-SMA-7	SS25243	08/24/05	WT	UF	GU05082524303		0.25		2310	<	2.5		32.8		107		0.56	<	2.5		2.1		83.9		170

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Ag		Al		As		Ba		Be		Cd		Co		Cr		Cu		Fe	
						EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-8	SS2523	08/04/05	WT	F	GF0508K252301	<	0.2		2890	<	6		211	<	1		0.24		1.1		1.7		12.2		1380
W-SMA-8	SS2523	08/04/05	WT	UF	GU0508K252301		0.24		48100		17		1310		3.7		2.7		15.5		35.6		131		43900
W-SMA-8	SS2523	08/12/05	WT	F	GF0508K252302	<	0.2		1790	<	6		228	<	1		0.23	<	1		1.4		19.6		994
W-SMA-8	SS2523	08/12/05	WT	UF	GU0508K252302	<	0.2		5900	<	6		327	<	1		0.44		1.1		3.7		31		3830
W-SMA-8	SS2523	08/24/05	WT	F	GF0508K252303	<	0.2		6720	<	6		250	<	1		0.47	<	1.8		4.2		22.2		3510
W-SMA-8	SS2523	08/24/05	WT	UF	GU0508K252303		0.2		29900		8.3		1130		2.5		2.9		7		18.1		81.3		20900
W-SMA-8	SS2523	10/04/05	WT	F	GF0510K252301	<	0.2		2120	<	6		283	<	1		0.26		1.1		1.8		11.5		1120
W-SMA-8	SS2523	10/04/05	WT	UF	GU0510K252301	<	0.2		2560	<	6		292	<	1		0.29	<	1		2.2		12.7		1390
W-SMA-10	SS25245	08/04/05	WT	F	GF05082524501	<	0.2		644	<	6		42.6	<	1	<	0.1	<	1	<	1	<	3		360
W-SMA-10	SS25245	08/04/05	WT	UF	GU05082524501		0.22		39600		9.5		351		3.1		0.71		5.1		16		22		20300
W-SMA-10	SS25245	08/12/05	WT	F	GF05082524502	<	0.2		1270	<	6		32.5	<	1	<	0.1	<	1	<	2.1	<	3		623
W-SMA-10	SS25245	08/12/05	WT	UF	GU05082524502	<	0.2		13500	<	6		103	<	1		0.13	<	1		5.7		5.3		6700
W-SMA-10	SS25245	08/24/05	WT	F	GF05082524503	<	0.2		1880	<	6		25.8	<	1	<	0.1	<	1.7		1.5	<	3		869
W-SMA-10	SS25245	08/24/05	WT	UF	GU05082524503		0.25		48400		7.4		378		3.7		0.81		6.7		21.3		22.6		31200
W-SMA-10	SS25245	09/29/05	WT	F	GF05102524501	<	0.2		2250	<	6		33.7	<	1	<	0.1		7.3		2.1	<	3		1110
W-SMA-10	SS25245	09/29/05	WT	UF	GU05102524501	<	0.2		11600	<	6		98.6	<	1		0.18		1.3		4.5		5.1		5810
W-SMA-11	SS2529	08/04/05	WT	F	GF0508K252901	<	0.2		1030	<	6		41.7	<	1	<	0.1		3.8		1.2		5.2		561
W-SMA-11	SS2529	08/04/05	WT	UF	GU0508K252901	<	0.2		8250	<	6		101	<	1		0.15		1.2		4.1		7.7		4780
W-SMA-11	SS2529	08/12/05	WT	F	GF0508K252902	<	0.2		573	<	6		20.7	<	1	<	0.1	<	1	<	1	<	3		275
W-SMA-11	SS2529	08/12/05	WT	UF	GU0508K252902	<	0.2		25600	<	6		400		1.9		0.54		9.1		13.7		22.7		16800
W-SMA-11	SS2529	08/24/05	WT	F	GF0508K252903	<	0.2		1670	<	6		20.9	<	1	<	0.1	<	1.9		1.2	<	3		764
W-SMA-11	SS2529	08/24/05	WT	UF	GU0508K252903		0.36		63100		8		818		4.2		1.4		20.4		33.1		50.4		40200
W-SMA-11	SS2529	09/29/05	WT	F	GF0510K252901	<	0.2		899	<	6		19.4	<	1	<	0.1		1.3	<	1	<	3		394
W-SMA-11	SS2529	09/29/05	WT	UF	GU0510K252901	<	0.2		34200		6.4		496		2.4		0.58		10.7		16.3		28.3		19200

Table B6. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Metals

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	Hg		Mn		Mo		Ni		Pb		Sb		Se		Tl		V		Zn	
						EPA:245.2		EPA:200.7		EPA:200.7		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.8		EPA:200.7		EPA:200.7	
						ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-8	SS2523	08/04/05	WT	F	GF0508K252301				138	<	2		3.6		3.9	<	0.5	<	2.5	<	0.4		4.8		33.2
W-SMA-8	SS2523	08/04/05	WT	UF	GU0508K252301	<	0.05		1550		5.4		24.5		161		0.66	<	2.5		0.55		81.1		449
W-SMA-8	SS2523	08/12/05	WT	F	GF0508K252302				28.8	<	2		5.9		2	<	0.5	<	2.5	<	0.4		3.8		40.4
W-SMA-8	SS2523	08/12/05	WT	UF	GU0508K252302	<	0.05		87.2		2.4		8.7		11.7	<	0.5	<	2.5	<	0.4		9.9		71.8
W-SMA-8	SS2523	08/24/05	WT	F	GF0508K252303				58.8	<	5.2		7.4		9.2	<	0.5	<	2.5	<	0.4		9.6		47.2
W-SMA-8	SS2523	08/24/05	WT	UF	GU0508K252303	<	0.05		470	<	6.3		24.5		89.7		0.56	<	2.5	<	0.4		56.3		249
W-SMA-8	SS2523	10/04/05	WT	F	GF0510K252301				8.8		4.7		5.6		1.9	<	0.5	<	2.5	<	0.4		4.3		28.4
W-SMA-8	SS2523	10/04/05	WT	UF	GU0510K252301	<	0.05		9.4		4.6		5.7		3.1	<	0.5	<	2.5	<	0.4		5.1		29.9
W-SMA-10	SS25245	08/04/05	WT	F	GF05082524501				96.9	<	2		1.2	<	0.5	<	0.5	<	2.5	<	0.4		1.5	<	5
W-SMA-10	SS25245	08/04/05	WT	UF	GU05082524501	<	0.05		680	<	2		12.2		31.6	<	0.5	<	2.5		0.48		32		68.3
W-SMA-10	SS25245	08/12/05	WT	F	GF05082524502				101	<	2		0.75	<	0.5	<	0.5	<	2.5	<	0.4		2.3	<	15.9
W-SMA-10	SS25245	08/12/05	WT	UF	GU05082524502	<	0.05		136	<	2		3.9		6.5	<	0.5	<	2.5	<	0.4		11.4		52
W-SMA-10	SS25245	08/24/05	WT	F	GF05082524503				19.8	<	2		1.1		0.57	<	0.5	<	2.5	<	0.4		2.6		4.4
W-SMA-10	SS25245	08/24/05	WT	UF	GU05082524503		0.055		619	<	2		14.2		28.5	<	0.5	<	2.5		0.48		41.2		77.9
W-SMA-10	SS25245	09/29/05	WT	F	GF05102524501				178	<	2		2.9		0.78	<	0.5	<	2.5	<	0.4		2.2		10.3
W-SMA-10	SS25245	09/29/05	WT	UF	GU05102524501				193	<	2		4.1		6.7	<	0.5	<	2.5	<	0.4		8.4		19.4
W-SMA-11	SS2529	08/04/05	WT	F	GF0508K252901				115	<	2		2	<	0.5	<	0.5	<	2.5	<	0.4		3.7	<	7.9
W-SMA-11	SS2529	08/04/05	WT	UF	GU0508K252901				130	<	2		3.5		5	<	0.5	<	2.5	<	0.4		10.5		18.5
W-SMA-11	SS2529	08/12/05	WT	F	GF0508K252902				40.4	<	2		2	<	0.5	<	0.5	<	2.5	<	0.4		2.4	<	14
W-SMA-11	SS2529	08/12/05	WT	UF	GU0508K252902	<	0.05		662	<	2		10.4		24.9	<	0.5	<	2.5	<	0.4		31.6		58.2
W-SMA-11	SS2529	08/24/05	WT	F	GF0508K252903				6.9	<	2		1.7		0.54	<	0.5	<	2.5	<	0.4		2.4		14.6
W-SMA-11	SS2529	08/24/05	WT	UF	GU0508K252903		0.11		1320	<	2		25.9		54.4	<	0.5	<	2.5		0.72		70.7		132
W-SMA-11	SS2529	09/29/05	WT	F	GF0510K252901				5.9	<	2		1.5	<	0.5	<	0.5	<	2.5	<	0.4		2.5		7.3
W-SMA-11	SS2529	09/29/05	WT	UF	GU0510K252901		0.18		768	<	2		9.5		22.1	<	0.5	<	2.5	<	0.4		38.5		65.4

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	E243.5	11-JUN-2005	WT	F	GF0506E243501		8.88		2.63		0.636		6.49				15.9				
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	GU0506E243501		8.03		2.69		0.715		6.61								
2M-SMA-1	E243.5	16-APR-2005	WT	F	GF0504E243501		59.8		62		5.37		2650	<	1.45		11.7		11.7		
2M-SMA-1	E243.5	16-APR-2005	WT	UF	GU0504E243501		8.6		8.38		1.09		202								
2M-SMA-1	E243.5	24-APR-2005	WT	F	GF0504E243502		6.7		1.66		0.481		13	<	1.45		15.9		15.9		
2M-SMA-1	E243.5	24-APR-2005	WT	UF	GU0504E243502		6.63		1.72		0.652		11.6								
2M-SMA-1	E243.5	27-MAY-2005	WT	F	GF0505E243501		8.66		2.36		0.579		8.47	<	1.45		10.7		10.7		
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	GU0505E243502		12.3		4.45		2.01		11								
2M-SMA-1	SS2432	13-JUN-2005	WT	F	GF0506K243202		8.09		2.01		1.06		12.2								
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	GU0506K243202		8.2		2.23		1.2		10.6	<	1.45		12.7				
2M-SMA-1	SS2432	20-JUL-2005	WT	F	GF0507K243201																
2M-SMA-1	SS2432	23-JUL-2005	WT	F	GF0507K243202		6.61		1.25		0.69		4.86								
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	GU0507K243201		16.2		8.97		5.84		19.9								
2M-SMA-1	SS2432	26-JUN-2005	WT	F	GF0506K243203		6.42		2.08		1.18		12.2								
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	GU0506K243203		6.49		2.17		1.21		12.5								
2M-SMA-1	SS2432	27-MAY-2005	WT	F	GF0506K243201		4.03		0.934		0.459		4.4								
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	GU0506K243201		4.73		1.37		0.697		4.52	<	1.45		10.7		10.7		
2M-SMA-3	SS2439	15-JUL-2005	WT	F	GF0507K243901		6.44		5.31		1.56	<	0.385								
2M-SMA-3	SS2439	15-JUL-2005	WT	UF	GU0507K243901		16.6		10.1		4.57		1.55								
2M-SMA-3	SS2439	20-JUL-2005	WT	UF	GU0507K243902																
3M-SMA-0.5	SS2459	12-AUG-2005	WT	F	GF0508K245901		6.3		3.21		1.35		1.55								
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	GU0508K245901		73.4		37.9		41.3		4.64								
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	GU0508K245902									<	1.45		12.4				
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0509K245901		2.92		2.7		0.749		0.959								
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0510K245901		4.77		2.48		1.04		1.12								
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0509K245901		10.7		12.9		10.2		2.02	<	1.45		10				
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0510K245901		7.16		4.46		2.37		1.56								
3M-SMA-0.6	SS2457	06-AUG-2005	WT	F	GF0508K245701		3.93		2.58		0.804		0.303								
3M-SMA-0.6	SS2457	06-AUG-2005	WT	UF	GU0508K245701		6.12		5.27		2.1		1.3	<	1.45		5.4				
3M-SMA-0.6	SS2457	12-AUG-2005	WT	F	GF0508K245702																
3M-SMA-0.6	SS2457	15-JUL-2005	WT	F	GF0507K245701		5.2		3.01		1.12		0.404								
3M-SMA-0.6	SS2457	15-JUL-2005	WT	UF	GU0507K245701		8.58		6.69		3.21		1.48	<	1.45		11.9				
3M-SMA-0.6	SS2457	23-AUG-2005	WT	F	GF0508K245703		2.56		2.01		0.563		2.5								
3M-SMA-0.6	SS2457	23-AUG-2005	WT	UF	GU0508K245703		15.5		16.6		11.8		3.65	<	1.45		5.63				
3M-SMA-0.6	SS2457	23-SEP-2005	WT	F	GF0509K245701		4.65		2.35		0.921		0.225								
3M-SMA-0.6	SS2457	23-SEP-2005	WT	UF	GU0509K245701		7.02		6.35		2.53		1.36	<	1.45		21.1				
ACID-SMA-2	E0555	05-AUG-2005	WT	F	GF0508E055501		4.95		2.9		0.567		8.26				16.2				
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	GU0508E055501		16		9.92		6.66		8.53								
ACID-SMA-2	E0555	12-AUG-2005	WT	F	GF0508E055502		4.31		2.47		0.701		8.88				16.9				
ACID-SMA-2	E0555	12-AUG-2005	WT	UF	GU0508E055502		7.63		6		2.98		12.5								
ACID-SMA-2	E0555	15-JUL-2005	WT	F	GF0507E055501		9.53		4.31		0.846		10.1				25.9				
ACID-SMA-2	E0555	15-JUL-2005	WT	UF	GU0507E055501		35.3		16.4		13.6		19.8								
ACID-SMA-2	E0555	25-AUG-2005	WT	F	GF0508E055503		4.51		2.01		0.465		4.37				14				
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	GU0508E055503		12.4		8.76		5.81		5.89								
ACID-SMA-2	E0555	28-SEP-2005	WT	UF	GU0509E055502		9.41		6.11		3.21		4.88								
ACID-SMA-2	E056	12-AUG-2005	WT	F	GF05080E05601		4.52		2.33		0.595		7.57				22.5				

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	E243.5	11-JUN-2005	WT	F	GF0506E243501												
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	GU0506E243501												
2M-SMA-1	E243.5	16-APR-2005	WT	F	GF0504E243501												
2M-SMA-1	E243.5	16-APR-2005	WT	UF	GU0504E243501												
2M-SMA-1	E243.5	24-APR-2005	WT	F	GF0504E243502												
2M-SMA-1	E243.5	24-APR-2005	WT	UF	GU0504E243502												
2M-SMA-1	E243.5	27-MAY-2005	WT	F	GF0505E243501												
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	GU0505E243502												
2M-SMA-1	SS2432	13-JUN-2005	WT	F	GF0506K243202												
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	GU0506K243202							<	0.0025		0.178		130
2M-SMA-1	SS2432	20-JUL-2005	WT	F	GF0507K243201												
2M-SMA-1	SS2432	23-JUL-2005	WT	F	GF0507K243202												
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	GU0507K243201							<	0.0025		0.246		51.5
2M-SMA-1	SS2432	26-JUN-2005	WT	F	GF0506K243203												
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	GU0506K243203								0.00324		0.232		101
2M-SMA-1	SS2432	27-MAY-2005	WT	F	GF0506K243201												
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	GU0506K243201								0.00292		0.17		124
2M-SMA-3	SS2439	15-JUL-2005	WT	F	GF0507K243901												
2M-SMA-3	SS2439	15-JUL-2005	WT	UF	GU0507K243901												
2M-SMA-3	SS2439	20-JUL-2005	WT	UF	GU0507K243902										0.38		168
3M-SMA-0.5	SS2459	12-AUG-2005	WT	F	GF0508K245901												
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	GU0508K245901												
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	GU0508K245902					<	0.0025				0.066		63
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0509K245901												
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0510K245901												
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0509K245901					<	0.0025				0.21		83.2
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0510K245901					<	0.0025						
3M-SMA-0.6	SS2457	06-AUG-2005	WT	F	GF0508K245701												
3M-SMA-0.6	SS2457	06-AUG-2005	WT	UF	GU0508K245701					<	0.0025				0.129		143
3M-SMA-0.6	SS2457	12-AUG-2005	WT	F	GF0508K245702												
3M-SMA-0.6	SS2457	15-JUL-2005	WT	F	GF0507K245701												
3M-SMA-0.6	SS2457	15-JUL-2005	WT	UF	GU0507K245701						0.00358				0.367		186
3M-SMA-0.6	SS2457	23-AUG-2005	WT	F	GF0508K245703												
3M-SMA-0.6	SS2457	23-AUG-2005	WT	UF	GU0508K245703					<	0.0025				0.154		194
3M-SMA-0.6	SS2457	23-SEP-2005	WT	F	GF0509K245701												
3M-SMA-0.6	SS2457	23-SEP-2005	WT	UF	GU0509K245701					<	0.0025				0.368		168
ACID-SMA-2	E0555	05-AUG-2005	WT	F	GF0508E055501												
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	GU0508E055501												
ACID-SMA-2	E0555	12-AUG-2005	WT	F	GF0508E055502												
ACID-SMA-2	E0555	12-AUG-2005	WT	UF	GU0508E055502												
ACID-SMA-2	E0555	15-JUL-2005	WT	F	GF0507E055501												
ACID-SMA-2	E0555	15-JUL-2005	WT	UF	GU0507E055501												
ACID-SMA-2	E0555	25-AUG-2005	WT	F	GF0508E055503												
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	GU0508E055503												
ACID-SMA-2	E0555	28-SEP-2005	WT	UF	GU0509E055502												
ACID-SMA-2	E056	12-AUG-2005	WT	F	GF05080E05601												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1		EPA:415.1		SM:A2340B		EPA:160.2	
						DOC		TOC		Hardness		TSS	
						mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	E243.5	11-JUN-2005	WT	F	GF0506E243501		45.8				24.7		
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	GU0506E243501						23.1		
2M-SMA-1	E243.5	16-APR-2005	WT	F	GF0504E243501		1.1				171		
2M-SMA-1	E243.5	16-APR-2005	WT	UF	GU0504E243501						26		
2M-SMA-1	E243.5	24-APR-2005	WT	F	GF0504E243502		33.7				18.7		
2M-SMA-1	E243.5	24-APR-2005	WT	UF	GU0504E243502						19.2		
2M-SMA-1	E243.5	27-MAY-2005	WT	F	GF0505E243501		66.5				22.7		
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	GU0505E243502						41		
2M-SMA-1	SS2432	13-JUN-2005	WT	F	GF0506K243202		41.4				24.6		
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	GU0506K243202						25.4		
2M-SMA-1	SS2432	20-JUL-2005	WT	F	GF0507K243201		22.6						
2M-SMA-1	SS2432	23-JUL-2005	WT	F	GF0507K243202		11.3				19.3		
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	GU0507K243201						64.4		
2M-SMA-1	SS2432	26-JUN-2005	WT	F	GF0506K243203						20.9		
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	GU0506K243203						21.2		
2M-SMA-1	SS2432	27-MAY-2005	WT	F	GF0506K243201		12.6				11.7		
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	GU0506K243201						14.4		
2M-SMA-3	SS2439	15-JUL-2005	WT	F	GF0507K243901						22.5		
2M-SMA-3	SS2439	15-JUL-2005	WT	UF	GU0507K243901						60.2		
2M-SMA-3	SS2439	20-JUL-2005	WT	UF	GU0507K243902								
3M-SMA-0.5	SS2459	12-AUG-2005	WT	F	GF0508K245901		11.4				21.3		
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	GU0508K245901						353		
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	GU0508K245902								
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0509K245901		11.9				10.4		
3M-SMA-0.5	SS2459	29-SEP-2005	WT	F	GF0510K245901		8.27				16.2		
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0509K245901						68.7		
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	GU0510K245901						27.6		
3M-SMA-0.6	SS2457	06-AUG-2005	WT	F	GF0508K245701		45.6				13.1		
3M-SMA-0.6	SS2457	06-AUG-2005	WT	UF	GU0508K245701						23.9		
3M-SMA-0.6	SS2457	12-AUG-2005	WT	F	GF0508K245702		13.4						
3M-SMA-0.6	SS2457	15-JUL-2005	WT	F	GF0507K245701						17.6		
3M-SMA-0.6	SS2457	15-JUL-2005	WT	UF	GU0507K245701						34.7		
3M-SMA-0.6	SS2457	23-AUG-2005	WT	F	GF0508K245703		13.1				8.7		
3M-SMA-0.6	SS2457	23-AUG-2005	WT	UF	GU0508K245703						87.4		
3M-SMA-0.6	SS2457	23-SEP-2005	WT	F	GF0509K245701		42.3				15.4		
3M-SMA-0.6	SS2457	23-SEP-2005	WT	UF	GU0509K245701						27.9		
ACID-SMA-2	E0555	05-AUG-2005	WT	F	GF0508E055501		16				14.7		
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	GU0508E055501						67.4		
ACID-SMA-2	E0555	12-AUG-2005	WT	F	GF0508E055502						13.7		
ACID-SMA-2	E0555	12-AUG-2005	WT	UF	GU0508E055502						31.3		
ACID-SMA-2	E0555	15-JUL-2005	WT	F	GF0507E055501						27.3		
ACID-SMA-2	E0555	15-JUL-2005	WT	UF	GU0507E055501						144		
ACID-SMA-2	E0555	25-AUG-2005	WT	F	GF0508E055503		8.7				13.2		
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	GU0508E055503						54.9		
ACID-SMA-2	E0555	28-SEP-2005	WT	UF	GU0509E055502						36.7		
ACID-SMA-2	E056	12-AUG-2005	WT	F	GF05080E05601						13.7		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
ACID-SMA-2	E056	12-AUG-2005	WT	UF	GU05080E05601		9.35		4.99		2.19		9.14								
ACID-SMA-2	E056	24-AUG-2005	WT	F	GF05080E05602		4.73		1.94		0.555		3.86				27				
ACID-SMA-2	E056	24-AUG-2005	WT	UF	GU05080E05602		35.3		13.6		12		6.08								
ACID-SMA-2	E056	28-SEP-2005	WT	F	GF05090E05601		4.18		1.98		0.473		4.17				12				
ACID-SMA-2	E056	28-SEP-2005	WT	UF	GU05090E05601		10.4		6.87		3.52		6								
A-SMA-1	KAS1	17-JUL-2005	WT	F	GF05070KAS101		3.24		3.23		0.251		0.591								
A-SMA-1	KAS1	17-JUL-2005	WT	UF	GU05070KAS101		4.68		3.44		0.652		0.649	<	1.45		8.64				
A-SMA-1	KAS1	28-SEP-2005	WT	F	GF05100KAS101		1.52		1.29		0.124		0.275								
A-SMA-1	KAS1	28-SEP-2005	WT	UF	GU05100KAS101		2.52		2.55		0.924		0.956								
A-SMA-3	KAS3	28-SEP-2005	WT	F	GF05100KAS301		9.79		5.9		1.97		1.99								
A-SMA-3	KAS3	28-SEP-2005	WT	UF	GU05100KAS301		28.5		16.5		10		4								
B-SMA-1	SS067	04-AUG-2005	WT	F	GF05080K06701		7.72		9.34		1.63		1.45								
B-SMA-1	SS067	04-AUG-2005	WT	UF	GU05080K06701		12.5		17.4		6.6		3.41	<	1.45		24.8				
B-SMA-1	SS067	12-AUG-2005	WT	F	GF05080K06702		3.69		8.53		0.874		1.33								
B-SMA-1	SS067	12-AUG-2005	WT	UF	GU05080K06702		4.86		11.4		1.64		2.03				14.6				
B-SMA-1	SS067	22-AUG-2005	WT	F	GF05080K06703		7.03		12.2		5.87		3.85								
B-SMA-1	SS067	22-AUG-2005	WT	UF	GU05080K06703		17.7		24.7		16.9		5.82	<	1.45		14.6				
B-SMA-1	SS067	24-AUG-2005	WT	F	GF05080K06704		2.75		3.52		0.64		1.93								
B-SMA-1	SS067	24-AUG-2005	WT	UF	GU05080K06704		35.2		33.5		28		6.46	<	1.45		18				
B-SMA-1	SS067	29-SEP-2005	WT	F	GF05090K06701																
CDB-SMA-2	SS2188	03-OCT-2005	WT	F	GF0510K218801		10.7		5.45		1.31		0.746								
CDB-SMA-2	SS2188	03-OCT-2005	WT	UF	GU0510K218801		10.5		5.31		1.28		0.718	<	1.45		23.1				
CDB-SMA-2	SS2188	12-AUG-2005	WT	F	GF0508K218801		3.65		4.18		0.516	<	0.293								
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	GU0508K218801		4.54		5.66		0.923		1.45								
CDB-SMA-2	SS2188	28-SEP-2005	WT	F	GF0509K218801		6.72		4.78		0.894		0.398								
CDB-SMA-2	SS2188	28-SEP-2005	WT	UF	GU0509K218801		6.87		6.06		0.95		0.615	<	1.45		12				
CDB-SMA-4	E227	09-OCT-2005	WT	F	GF05100E22702		6.23		2.43		1.73		2.6								
CDB-SMA-4	E227	09-OCT-2005	WT	UF	GU05100E22702		47		18.5		25.4		6.47								
CDB-SMA-4	E227	12-AUG-2005	WT	F	GF05080E22701		8.34		2.41		1.9		2.42				29.3				
CDB-SMA-4	E227	12-AUG-2005	WT	UF	GU05080E22701		12		7.02		6.92		4.39								
CDB-SMA-4	E227	13-AUG-2005	WT	F	GF05080E22702		9.55		2.9		2.02		2.27								
CDB-SMA-4	E227	13-AUG-2005	WT	UF	GU05080E22702		36.3		15.8		19.5		6.53								
CDB-SMA-4	E227	17-JUL-2005	WT	F	GF05070E22701		15.6		5.84		3.77		6.57	<	1.45		48.6				
CDB-SMA-4	E227	17-JUL-2005	WT	UF	GU05070E22701		34.3		8.38		11		7.27								
CDB-SMA-4	E227	28-SEP-2005	WT	F	GF05100E22701																
CDV-SMA-1	SS254	04-AUG-2005	WT	F	GF05080K25401		3.09		4		0.811		2.57								
CDV-SMA-1	SS254	04-AUG-2005	WT	UF	GU05080K25401		4.81		8.08		1.97		1.59	<	1.45		34.5				
CDV-SMA-1	SS254	12-AUG-2005	WT	F	GF05080K25402		6.6		2.38		0.839		1.03								
CDV-SMA-1	SS254	12-AUG-2005	WT	UF	GU05080K25402		5.73		5.22		3.48		2.89	<	1.45		14.6				
CDV-SMA-1	SS254	15-JUL-2005	WT	F	GF05070K25401		2.49		3.21		0.853		2.02								
CDV-SMA-1	SS254	15-JUL-2005	WT	UF	GU05070K25401		2.42		3.11		0.845		1.96	<	1.45		5.4				
CDV-SMA-1	SS254	24-AUG-2005	WT	F	GF05080K25403		4.51		3		1.11		6.35								
CDV-SMA-1	SS254	24-AUG-2005	WT	UF	GU05080K25403		5.17		5.74		3.39		3.99	<	1.45		9.01				
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	F	GF0508K254201		4.94		3.54		0.694		0.788								
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	UF	GU0508K254201		5.54		5.67		1.56		0.757	<	1.45		9.72				
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	F	GF0508K254202		2.75		2.42		0.796		2.18								

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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M)		EPA:335.3		EPA:335.3		SW-846:9012A		EPA:350.1		EPA:410.4	
						ClO4		CN (amen)		CN(Total)		CN(Total)		NH3-N		COD	
						ug/L		mg/L		mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
ACID-SMA-2	E056	12-AUG-2005	WT	UF	GU05080E05601												
ACID-SMA-2	E056	24-AUG-2005	WT	F	GF05080E05602												
ACID-SMA-2	E056	24-AUG-2005	WT	UF	GU05080E05602												
ACID-SMA-2	E056	28-SEP-2005	WT	F	GF05090E05601												
ACID-SMA-2	E056	28-SEP-2005	WT	UF	GU05090E05601												
A-SMA-1	KAS1	17-JUL-2005	WT	F	GF05070KAS101												
A-SMA-1	KAS1	17-JUL-2005	WT	UF	GU05070KAS101					<	0.0025				0.216		110
A-SMA-1	KAS1	28-SEP-2005	WT	F	GF05100KAS101												
A-SMA-1	KAS1	28-SEP-2005	WT	UF	GU05100KAS101					<	0.0025						
A-SMA-3	KAS3	28-SEP-2005	WT	F	GF05100KAS301												
A-SMA-3	KAS3	28-SEP-2005	WT	UF	GU05100KAS301					<	0.0025						
B-SMA-1	SS067	04-AUG-2005	WT	F	GF05080K06701												
B-SMA-1	SS067	04-AUG-2005	WT	UF	GU05080K06701												
B-SMA-1	SS067	12-AUG-2005	WT	F	GF05080K06702												
B-SMA-1	SS067	12-AUG-2005	WT	UF	GU05080K06702												
B-SMA-1	SS067	22-AUG-2005	WT	F	GF05080K06703												
B-SMA-1	SS067	22-AUG-2005	WT	UF	GU05080K06703												
B-SMA-1	SS067	24-AUG-2005	WT	F	GF05080K06704												
B-SMA-1	SS067	24-AUG-2005	WT	UF	GU05080K06704												
B-SMA-1	SS067	29-SEP-2005	WT	F	GF05090K06701												
CDB-SMA-2	SS2188	03-OCT-2005	WT	F	GF0510K218801												
CDB-SMA-2	SS2188	03-OCT-2005	WT	UF	GU0510K218801												
CDB-SMA-2	SS2188	12-AUG-2005	WT	F	GF0508K218801												
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	GU0508K218801					<	0.0025				0.338		58.6
CDB-SMA-2	SS2188	28-SEP-2005	WT	F	GF0509K218801												
CDB-SMA-2	SS2188	28-SEP-2005	WT	UF	GU0509K218801					<	0.0025				0.299		75.4
CDB-SMA-4	E227	09-OCT-2005	WT	F	GF05100E22702												
CDB-SMA-4	E227	09-OCT-2005	WT	UF	GU05100E22702												
CDB-SMA-4	E227	12-AUG-2005	WT	F	GF05080E22701												
CDB-SMA-4	E227	12-AUG-2005	WT	UF	GU05080E22701												
CDB-SMA-4	E227	13-AUG-2005	WT	F	GF05080E22702												
CDB-SMA-4	E227	13-AUG-2005	WT	UF	GU05080E22702												
CDB-SMA-4	E227	17-JUL-2005	WT	F	GF05070E22701												
CDB-SMA-4	E227	17-JUL-2005	WT	UF	GU05070E22701												
CDB-SMA-4	E227	28-SEP-2005	WT	F	GF05100E22701												
CDV-SMA-1	SS254	04-AUG-2005	WT	F	GF05080K25401												
CDV-SMA-1	SS254	04-AUG-2005	WT	UF	GU05080K25401					<	0.0025				0.249		88.4
CDV-SMA-1	SS254	12-AUG-2005	WT	F	GF05080K25402												
CDV-SMA-1	SS254	12-AUG-2005	WT	UF	GU05080K25402					<	0.0038				0.095	<	34.4
CDV-SMA-1	SS254	15-JUL-2005	WT	F	GF05070K25401												
CDV-SMA-1	SS254	15-JUL-2005	WT	UF	GU05070K25401							<	0.0025	<	0.1	<	39.9
CDV-SMA-1	SS254	24-AUG-2005	WT	F	GF05080K25403												
CDV-SMA-1	SS254	24-AUG-2005	WT	UF	GU05080K25403					<	0.0025			<	0.087		113
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	F	GF0508K254201												
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	UF	GU0508K254201					<	0.0025				0.126	<	34
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	F	GF0508K254202												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L Sym	EPA:415.1 DOC mg/L Result	EPA:415.1 TOC mg/L Sym	EPA:415.1 TOC mg/L Result	SM:A2340B Hardness mg/L Sym	SM:A2340B Hardness mg/L Result	EPA:160.2 TSS mg/L Sym	EPA:160.2 TSS mg/L Result
ACID-SMA-2	E056	12-AUG-2005	WT	UF	GU05080E05601						32.4		
ACID-SMA-2	E056	24-AUG-2005	WT	F	GF05080E05602						14.1		
ACID-SMA-2	E056	24-AUG-2005	WT	UF	GU05080E05602						137		
ACID-SMA-2	E056	28-SEP-2005	WT	F	GF05090E05601						12.4		
ACID-SMA-2	E056	28-SEP-2005	WT	UF	GU05090E05601						40.4		
A-SMA-1	KAS1	17-JUL-2005	WT	F	GF05070KAS101						9.1		
A-SMA-1	KAS1	17-JUL-2005	WT	UF	GU05070KAS101						14.4		
A-SMA-1	KAS1	28-SEP-2005	WT	F	GF05100KAS101		7.37				4.3		
A-SMA-1	KAS1	28-SEP-2005	WT	UF	GU05100KAS101						10.1		
A-SMA-3	KAS3	28-SEP-2005	WT	F	GF05100KAS301		18				32.6		
A-SMA-3	KAS3	28-SEP-2005	WT	UF	GU05100KAS301						113		
B-SMA-1	SS067	04-AUG-2005	WT	F	GF05080K06701						26		
B-SMA-1	SS067	04-AUG-2005	WT	UF	GU05080K06701						58.4		
B-SMA-1	SS067	12-AUG-2005	WT	F	GF05080K06702		30.6				12.8		
B-SMA-1	SS067	12-AUG-2005	WT	UF	GU05080K06702						18.9		
B-SMA-1	SS067	22-AUG-2005	WT	F	GF05080K06703		17.9				41.7		
B-SMA-1	SS067	22-AUG-2005	WT	UF	GU05080K06703						114		
B-SMA-1	SS067	24-AUG-2005	WT	F	GF05080K06704		15.8				9.5		
B-SMA-1	SS067	24-AUG-2005	WT	UF	GU05080K06704						203		
B-SMA-1	SS067	29-SEP-2005	WT	F	GF05090K06701		13.6						
CDB-SMA-2	SS2188	03-OCT-2005	WT	F	GF0510K218801						32.2		
CDB-SMA-2	SS2188	03-OCT-2005	WT	UF	GU0510K218801						31.4		
CDB-SMA-2	SS2188	12-AUG-2005	WT	F	GF0508K218801		18.9				11.2		
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	GU0508K218801						15.1		
CDB-SMA-2	SS2188	28-SEP-2005	WT	F	GF0509K218801						20.5		
CDB-SMA-2	SS2188	28-SEP-2005	WT	UF	GU0509K218801						21.1		
CDB-SMA-4	E227	09-OCT-2005	WT	F	GF05100E22702						22.7		
CDB-SMA-4	E227	09-OCT-2005	WT	UF	GU05100E22702						222		
CDB-SMA-4	E227	12-AUG-2005	WT	F	GF05080E22701						28.7		
CDB-SMA-4	E227	12-AUG-2005	WT	UF	GU05080E22701						58.4		
CDB-SMA-4	E227	13-AUG-2005	WT	F	GF05080E22702						32.2		
CDB-SMA-4	E227	13-AUG-2005	WT	UF	GU05080E22702						171		
CDB-SMA-4	E227	17-JUL-2005	WT	F	GF05070E22701		17.6				54.5		
CDB-SMA-4	E227	17-JUL-2005	WT	UF	GU05070E22701						131		
CDB-SMA-4	E227	28-SEP-2005	WT	F	GF05100E22701		10.7						
CDV-SMA-1	SS254	04-AUG-2005	WT	F	GF05080K25401		14.3				11.1		
CDV-SMA-1	SS254	04-AUG-2005	WT	UF	GU05080K25401						20.1		
CDV-SMA-1	SS254	12-AUG-2005	WT	F	GF05080K25402		8.95				19.9		
CDV-SMA-1	SS254	12-AUG-2005	WT	UF	GU05080K25402						28.6		
CDV-SMA-1	SS254	15-JUL-2005	WT	F	GF05070K25401		8.24				9.7		
CDV-SMA-1	SS254	15-JUL-2005	WT	UF	GU05070K25401						9.5		
CDV-SMA-1	SS254	24-AUG-2005	WT	F	GF05080K25403		18				15.8		
CDV-SMA-1	SS254	24-AUG-2005	WT	UF	GU05080K25403						26.9		
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	F	GF0508K254201		11.3				15.2		
CDV-SMA-1.4	SS2542	08-AUG-2005	WT	UF	GU0508K254201						20.3		
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	F	GF0508K254202		14.8				10.1		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	UF	GU0508K254202		9.8		3.49		1.98		1.48	<	1.45		27				
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	F	GF0507K254201		3.81		4.2		0.466	<	0.271								
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	UF	GU0507K254201		6.93		5.07		1.55		1.17	<	1.45		18.4				
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	F	GF0508K254203		3.5		1.74		0.547		0.757								
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	UF	GU0508K254203		5.32		3.94		2.38		0.798	<	1.45		5.63				
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	F	GF0505K254201		3.59		3.37		1.91		3.22								
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	UF	GU0505K254201		10.9		12.1		10.1		3.91	<	1.45		6.38		6.38		
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	F	GF0508K254501		7.18		10.6		1.66		1.03								
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	UF	GU0508K254501		6.23		17.1		3.25		0.897	<	1.45		17.3				
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	F	GF0507K254501		13.1		13.8		2.83		2.09								
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	UF	GU0507K254501		17.6		24.9		11.6		1.71	<	1.45		15.1				
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	F	GF0505K254501		5.13		3.98		1.22		2.01								
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	UF	GU0505K254501		19.3		18.7		15.7		2.47	<	1.45		13.9		13.9		
CDV-SMA-2	SS255	24-AUG-2005	WT	F	GF05080K25501		2.84		2.39		0.593		1.57								
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	GU05080K25501		8.98		7.83		5.42		4.51								
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	F	GF0508K255701		8.72		5.8		1.49		2.39								
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	UF	GU0508K255701		164		28.5		19.9		6.98								
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	F	GF0510K255701		3.79		3.16		0.956		2.28								
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	UF	GU0510K255701									<	1.45		11				
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	F	GF0509K255701		4.87		3.26		1.14		2.68								
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	UF	GU0509K255701		15.8		14.4		11		5.99	<	1.45		13				
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	F	GF0507K255701																
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	UF	GU0507K255701		47.3		16.6		6.54		4.54	<	1.45		45.3				
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	F	GF0508K255702		5.58		2.85		1.25		2.52								
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	UF	GU0508K255702		22.7		14.2		13.3		4.7	<	1.45		15.8				
DP-SMA-0.3	SS0375	04-AUG-2005	WT	F	GF0508K037501		4.68		5.88		0.866		0.839								
DP-SMA-0.3	SS0375	04-AUG-2005	WT	UF	GU0508K037501		4.3		6.02		1.13		0.783	<	1.45		7.56				
DP-SMA-0.3	SS0375	12-AUG-2005	WT	F	GF0508K037502		3.81		4.61		0.7		0.885								
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	GU0508K037502		23.4		13.7		8.87		16.6	<	1.45		54.1				
DP-SMA-0.3	SS0375	22-AUG-2005	WT	F	GF0508K037503		4.29		2.6		0.785		3.3								
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	GU0508K037503		5.05		6.74		3.07		1.53	<	1.45		5.63				
DP-SMA-0.3	SS0375	24-AUG-2005	WT	F	GF0508K037504		10.1		4.59		2.05		9.03								
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	GU0508K037504		16.8		15.8		13		5.08	<	1.45		21.4				
DP-SMA-0.9	SS0388	12-AUG-2005	WT	F	GF0508K038801		4.91		4.71		1.07		10.2								
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	GU0508K038801		7.42		4.96		1.71		10	<	1.45		19.2				
DP-SMA-0.9	SS0388	22-AUG-2005	WT	F	GF0508K038802		3.05		2		0.636		5.86								
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	GU0508K038802		3.41		2.72		1.03		3.58	<	1.45		13.5				
DP-SMA-0.9	SS0388	24-AUG-2005	WT	F	GF0508K038803		17.4		3.43		3.39		23.3								
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	GU0508K038803		23.9		9.09		8.2		24.9	<	1.45		50.7				
DP-SMA-0.9	SS0388	29-SEP-2005	WT	F	GF0509K038801		4.69		2.5		0.747		6.26								
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	GU0509K038801		6.97		3.13		1.6		6.46	<	1.45		20.1				
DP-SMA-1	SS0385	03-OCT-2005	WT	F	GF0510K038501		17		9.68		1.75		25.1								
DP-SMA-1	SS0385	03-OCT-2005	WT	UF	GU0510K038501		22.1		15.4		7.44		25.4	<	1.45		78.2				
DP-SMA-1	SS0385	22-AUG-2005	WT	F	GF0508K038501		8.44		5.49		0.841		10.6								
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	GU0508K038501		46.5		21.8		18.9		11.5	<	1.45		62				
DP-SMA-1	SS0385	24-AUG-2005	WT	F	GF0508K038502		16.5		7.68		1.4		15								

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	UF	GU0508K254202					<	0.0025			<	0.08	<	24.7
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	F	GF0507K254201												
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	UF	GU0507K254201								0.00558		0.128		68
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	F	GF0508K254203												
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	UF	GU0508K254203					<	0.0025				0.123		45.7
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	F	GF0505K254201												
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	UF	GU0505K254201							<	0.0025		0.184		212
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	F	GF0508K254501												
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	UF	GU0508K254501						0.00577				0.236		212
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	F	GF0507K254501												
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	UF	GU0507K254501					<	0.0025				1.41		308
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	F	GF0505K254501												
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	UF	GU0505K254501								0.00279		0.424		568
CDV-SMA-2	SS255	24-AUG-2005	WT	F	GF05080K25501												
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	GU05080K25501												
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	F	GF0508K255701												
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	UF	GU0508K255701												
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	F	GF0510K255701												
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	UF	GU0510K255701						0.00411			<	0.21		65.5
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	F	GF0509K255701												
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	UF	GU0509K255701					<	0.00568				0.178		78.3
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	F	GF0507K255701												
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	UF	GU0507K255701						0.00556				0.334		87.3
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	F	GF0508K255702												
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	UF	GU0508K255702					<	0.0025				0.258		68.7
DP-SMA-0.3	SS0375	04-AUG-2005	WT	F	GF0508K037501												
DP-SMA-0.3	SS0375	04-AUG-2005	WT	UF	GU0508K037501					<	0.0025				0.109		99.2
DP-SMA-0.3	SS0375	12-AUG-2005	WT	F	GF0508K037502												
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	GU0508K037502					<	0.0025				0.165		87.6
DP-SMA-0.3	SS0375	22-AUG-2005	WT	F	GF0508K037503												
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	GU0508K037503					<	0.0025				0.245		228
DP-SMA-0.3	SS0375	24-AUG-2005	WT	F	GF0508K037504												
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	GU0508K037504						0.0033				0.251		130
DP-SMA-0.9	SS0388	12-AUG-2005	WT	F	GF0508K038801												
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	GU0508K038801						0.00266				0.124		42.5
DP-SMA-0.9	SS0388	22-AUG-2005	WT	F	GF0508K038802												
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	GU0508K038802					<	0.0025				0.06		71.1
DP-SMA-0.9	SS0388	24-AUG-2005	WT	F	GF0508K038803												
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	GU0508K038803						0.00415				0.179		80.3
DP-SMA-0.9	SS0388	29-SEP-2005	WT	F	GF0509K038801												
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	GU0509K038801					<	0.0025				0.076	<	36.8
DP-SMA-1	SS0385	03-OCT-2005	WT	F	GF0510K038501												
DP-SMA-1	SS0385	03-OCT-2005	WT	UF	GU0510K038501												
DP-SMA-1	SS0385	22-AUG-2005	WT	F	GF0508K038501												
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	GU0508K038501												
DP-SMA-1	SS0385	24-AUG-2005	WT	F	GF0508K038502												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
CDV-SMA-1.4	SS2542	12-AUG-2005	WT	UF	GU0508K254202						32.6		
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	F	GF0507K254201		15				11.4		
CDV-SMA-1.4	SS2542	15-JUL-2005	WT	UF	GU0507K254201						23.7		
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	F	GF0508K254203		7.76				11		
CDV-SMA-1.4	SS2542	24-AUG-2005	WT	UF	GU0508K254203						23.1		
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	F	GF0505K254201						16.8		
CDV-SMA-1.5	SS2545	03-MAY-2005	WT	UF	GU0505K254201		16.3				68.8		
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	F	GF0508K254501		47				24.8		
CDV-SMA-1.5	SS2545	04-AUG-2005	WT	UF	GU0508K254501						28.9		
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	F	GF0507K254501		94.5				44.3		
CDV-SMA-1.5	SS2545	15-JUL-2005	WT	UF	GU0507K254501						91.8		
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	F	GF0505K254501		38.2				17.3		
CDV-SMA-1.5	SS2545	27-MAY-2005	WT	UF	GU0505K254501						94		
CDV-SMA-2	SS255	24-AUG-2005	WT	F	GF05080K25501						9.5		
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	GU05080K25501						44.7		
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	F	GF0508K255701						27.9		
CDV-SMA-2.4	SS2557	04-AUG-2005	WT	UF	GU0508K255701						492		
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	F	GF0510K255701		5.76				13.4		
CDV-SMA-2.4	SS2557	04-OCT-2005	WT	UF	GU0510K255701								
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	F	GF0509K255701		7.27				16.8		
CDV-SMA-2.4	SS2557	04-SEP-2005	WT	UF	GU0509K255701						84.7		
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	F	GF0507K255701		23.6						
CDV-SMA-2.4	SS2557	15-JUL-2005	WT	UF	GU0507K255701						145		
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	F	GF0508K255702		5.81				19.1		
CDV-SMA-2.4	SS2557	22-AUG-2005	WT	UF	GU0508K255702						111		
DP-SMA-0.3	SS0375	04-AUG-2005	WT	F	GF0508K037501		35.3				15.3		
DP-SMA-0.3	SS0375	04-AUG-2005	WT	UF	GU0508K037501						15.4		
DP-SMA-0.3	SS0375	12-AUG-2005	WT	F	GF0508K037502		29.6				12.4		
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	GU0508K037502						94.9		
DP-SMA-0.3	SS0375	22-AUG-2005	WT	F	GF0508K037503		16.4				13.9		
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	GU0508K037503						25.3		
DP-SMA-0.3	SS0375	24-AUG-2005	WT	F	GF0508K037504		8.91				33.7		
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	GU0508K037504						95.4		
DP-SMA-0.9	SS0388	12-AUG-2005	WT	F	GF0508K038801		28.2				16.7		
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	GU0508K038801						25.6		
DP-SMA-0.9	SS0388	22-AUG-2005	WT	F	GF0508K038802		19.1				10.2		
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	GU0508K038802						12.8		
DP-SMA-0.9	SS0388	24-AUG-2005	WT	F	GF0508K038803		14.2				57.3		
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	GU0508K038803						93.5		
DP-SMA-0.9	SS0388	29-SEP-2005	WT	F	GF0509K038801		16.6				14.8		
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	GU0509K038801						24		
DP-SMA-1	SS0385	03-OCT-2005	WT	F	GF0510K038501		23				49.6		
DP-SMA-1	SS0385	03-OCT-2005	WT	UF	GU0510K038501						85.9		
DP-SMA-1	SS0385	22-AUG-2005	WT	F	GF0508K038501		17.7				24.5		
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	GU0508K038501						194		
DP-SMA-1	SS0385	24-AUG-2005	WT	F	GF0508K038502		18				47.1		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	GU0508K038502		49.4		27.1		24.1		16.1	<	1.45		91.2				
DP-SMA-2	SS0387	03-OCT-2005	WT	F	GF0510K038701		19.5		2.44		2.62		13.6								
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	GU0510K038701		27.8		9.18		10		14.7	<	1.45		27.1				
DP-SMA-2	SS0387	12-AUG-2005	WT	F	GF0508K038701		12		3.18		2.65		9.67								
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	GU0508K038701		29.3		12.2		12.9		23.3	<	1.45		95.8				
DP-SMA-2	SS0387	22-AUG-2005	WT	F	GF0508K038702		19.8		3.13		2.94		12.5								
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	GU0508K038702		95.6		25.9		36		11.5	<	1.45		179				
DP-SMA-2	SS0387	24-AUG-2005	WT	F	GF0508K038703		41.8		4.22		5.96		24.8								
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	GU0508K038703		38.3		10.4		11.6		19	<	1.45		159				
F-SMA-2	SS26757	22-AUG-2005	WT	F	GF05082675701		16.8		5.86		1.72		1.73								
F-SMA-2	SS26757	22-AUG-2005	WT	UF	GU05082675701		64.6		23.5		18.8		5.53								
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	F	GF0508K026301		12.8		5.83		0.981		25.5								
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	GU0508K026301		22.8		11.3		4.08		57.1								
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	F	GF0509K026301		8.69		2.68		0.6		10.7								
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	UF	GU0509K026301		15.6		6.72		3.84		11.1	<	1.45		35				
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	F	GF0508K026302																
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	UF	GU0508K026302									<	1.45		63.7				
LA-SMA-1 (A)	SS0263	15-JUL-2005	WT	UF	GU0507K026301		308		36.3		41.6		96.2								
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	F	GF0507K026301		11.2		5.88		0.851		14.3								
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	GU0507K026302		56.3		18		9.23		37.8	<	1.45		48.6				
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	F	GF0508K026303		9.81		2.27		0.672		5.92								
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	GU0508K026304		41.9		13.6		13.3		8.04	<	1.45		34.9				
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	F	GF0505K026402		22.9		8.09		2.13		219								
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	GU0505K026402		22.9		6.88		3.16		61								
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	F	GF0505K026401		10.8		3.91		0.816		35.5								
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	GU0505K026401		30.8		9.34		7.28		17.3	<	1.45		35.1		35		
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	F	GF0506K026401		35.4		11.5		2.17		147								
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	UF	GU0506K026401		37.5		14.5		6.55		93.4	<	1.45		122		122		
LA-SMA-1.2	SS02645	03-MAY-2005	WT	F	GF0505K026505		6.07		4.27		0.871		41.3								
LA-SMA-1.2	SS02645	03-MAY-2005	WT	UF	GU0505K026506		13.2		7.89		3.64		31.9	<	1.45		20.4		20.4		
LA-SMA-1.2	SS02645	15-JUL-2005	WT	F	GF05070264501		8.71		5.8		0.829		9.84								
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	GU05070264501		15.6		10.2		1.97		15.2	<	1.45		25.9				
LA-SMA-1.2	SS02645	24-AUG-2005	WT	F	GF05080264501		5.98		2.71		0.672		12.5								
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	GU05080264501		49.7		14.6		12.5		16.8	<	1.45		38.3				
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	F	GF05060265301		35.1		8.3		1.85		26.9								
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	UF	GU05060265301		48.1		12.9		4.58		38.5	<	1.45		96.3				
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	F	GF05070265302		21.2		4.11		1.09		18.9								
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	UF	GU05070265302		81.2		8.6		6.28		10.7								
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	F	GF05070265305		29.8		8.47		1.53		33								
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	UF	GU05070265305		33.5		9.87		2.86		33	<	1.45		85.3				
LA-SMA-2	SS0265	03-MAY-2005	WT	UF	GU0505K026505									<	1.45		25.5		25.5		
LA-SMA-2	SS0265	04-AUG-2005	WT	F	GF0508K026501																
LA-SMA-2	SS0265	04-AUG-2005	WT	UF	GU0508K026501									<	1.45		15.1				
LA-SMA-2	SS0265	11-AUG-2005	WT	F	GF0508K026502																
LA-SMA-2	SS0265	11-AUG-2005	WT	UF	GU0508K026502												18				
LA-SMA-2	SS0265	22-AUG-2005	WT	F	GF0508K026503																

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	GU0508K038502												
DP-SMA-2	SS0387	03-OCT-2005	WT	F	GF0510K038701												
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	GU0510K038701					<	0.0025				1.43		152
DP-SMA-2	SS0387	12-AUG-2005	WT	F	GF0508K038701												
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	GU0508K038701					<	0.0025				0.252		141
DP-SMA-2	SS0387	22-AUG-2005	WT	F	GF0508K038702												
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	GU0508K038702					<	0.0025				0.337		269
DP-SMA-2	SS0387	24-AUG-2005	WT	F	GF0508K038703												
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	GU0508K038703					<	0.0025				0.159		126
F-SMA-2	SS26757	22-AUG-2005	WT	F	GF05082675701												
F-SMA-2	SS26757	22-AUG-2005	WT	UF	GU05082675701												
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	F	GF0508K026301												
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	GU0508K026301						0.0148						
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	F	GF0509K026301												
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	UF	GU0509K026301					<	0.0025						
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	F	GF0508K026302												
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	UF	GU0508K026302								0.00711				
LA-SMA-1 (A)	SS0263	15-JUL-2005	WT	UF	GU0507K026301												
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	F	GF0507K026301												
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	GU0507K026302					<	0.00356						
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	F	GF0508K026303												
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	GU0508K026304												
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	F	GF0505K026402												
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	GU0505K026402								0.0214		0.156		117
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	F	GF0505K026401												
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	GU0505K026401							<	0.00821		0.182		183
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	F	GF0506K026401												
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	UF	GU0506K026401												
LA-SMA-1.2	SS02645	03-MAY-2005	WT	F	GF0505K026505												
LA-SMA-1.2	SS02645	03-MAY-2005	WT	UF	GU0505K026506							<	0.0025		0.176		117
LA-SMA-1.2	SS02645	15-JUL-2005	WT	F	GF05070264501												
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	GU05070264501								0.00583		0.23		90.8
LA-SMA-1.2	SS02645	24-AUG-2005	WT	F	GF05080264501												
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	GU05080264501						0.0034				0.451		213
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	F	GF05060265301												
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	UF	GU05060265301								0.00809		3.41		556
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	F	GF05070265302												
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	UF	GU05070265302												
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	F	GF05070265305												
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	UF	GU05070265305								0.0108		0.431		437
LA-SMA-2	SS0265	03-MAY-2005	WT	UF	GU0505K026505												
LA-SMA-2	SS0265	04-AUG-2005	WT	F	GF0508K026501												
LA-SMA-2	SS0265	04-AUG-2005	WT	UF	GU0508K026501												
LA-SMA-2	SS0265	11-AUG-2005	WT	F	GF0508K026502												
LA-SMA-2	SS0265	11-AUG-2005	WT	UF	GU0508K026502												
LA-SMA-2	SS0265	22-AUG-2005	WT	F	GF0508K026503												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	GU0508K038502						223		
DP-SMA-2	SS0387	03-OCT-2005	WT	F	GF0510K038701		16.1				59.5		
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	GU0510K038701						111		
DP-SMA-2	SS0387	12-AUG-2005	WT	F	GF0508K038701		27.6				40.9		
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	GU0508K038701						126		
DP-SMA-2	SS0387	22-AUG-2005	WT	F	GF0508K038702		20				61.7		
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	GU0508K038702						387		
DP-SMA-2	SS0387	24-AUG-2005	WT	F	GF0508K038703		19.2				129		
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	GU0508K038703						144		
F-SMA-2	SS26757	22-AUG-2005	WT	F	GF05082675701						49.1		
F-SMA-2	SS26757	22-AUG-2005	WT	UF	GU05082675701						239		
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	F	GF0508K026301		33				35.9		
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	GU0508K026301						73.7		
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	F	GF0509K026301						24.2		
LA-SMA-1 (A)	SS0263	07-SEP-2005	WT	UF	GU0509K026301						54.8		
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	F	GF0508K026302		56.8						
LA-SMA-1 (A)	SS0263	09-AUG-2005	WT	UF	GU0508K026302								
LA-SMA-1 (A)	SS0263	15-JUL-2005	WT	UF	GU0507K026301						940		
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	F	GF0507K026301		33.6				31.5		
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	GU0507K026302						179		
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	F	GF0508K026303		4.92				27.3		
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	GU0508K026304						160		
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	F	GF0505K026402						66		
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	GU0505K026402		11.7				70.3		
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	F	GF0505K026401						30.3		
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	GU0505K026401		12.9				107		
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	F	GF0506K026401						92.3		
LA-SMA-1 (B)	SS0264	31-MAY-2005	WT	UF	GU0506K026401						112		
LA-SMA-1.2	SS02645	03-MAY-2005	WT	F	GF0505K026505						18.7		
LA-SMA-1.2	SS02645	03-MAY-2005	WT	UF	GU0505K026506		10.7				47.9		706
LA-SMA-1.2	SS02645	15-JUL-2005	WT	F	GF05070264501		20.1				25.2		
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	GU05070264501						47		
LA-SMA-1.2	SS02645	24-AUG-2005	WT	F	GF05080264501		8.39				17.7		
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	GU05080264501						176		
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	F	GF05060265301		19.2				95.4		
LA-SMA-1.5(N)	SS02653	11-JUN-2005	WT	UF	GU05060265301						139		
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	F	GF05070265302						57.5		
LA-SMA-1.5(N)	SS02653	15-JUL-2005	WT	UF	GU05070265302						229		
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	F	GF05070265305		90.9				80.7		
LA-SMA-1.5(N)	SS02653	26-JUL-2005	WT	UF	GU05070265305						95.4		
LA-SMA-2	SS0265	03-MAY-2005	WT	UF	GU0505K026505		10.9						
LA-SMA-2	SS0265	04-AUG-2005	WT	F	GF0508K026501		13.5						
LA-SMA-2	SS0265	04-AUG-2005	WT	UF	GU0508K026501								
LA-SMA-2	SS0265	11-AUG-2005	WT	F	GF0508K026502		15.6						
LA-SMA-2	SS0265	11-AUG-2005	WT	UF	GU0508K026502								
LA-SMA-2	SS0265	22-AUG-2005	WT	F	GF0508K026503		15.9						

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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-2	SS0265	22-AUG-2005	WT	UF	GU0508K026503									<	1.45		13.5				
LA-SMA-3	SS0266	04-AUG-2005	WT	UF	GU0508K026601									<	1.45		22.7				
LA-SMA-3	SS0266	15-JUL-2005	WT	F	GF0507K026601																
LA-SMA-3	SS0266	20-JUL-2005	WT	F	GF0507K026602																
LA-SMA-3	SS0266	20-JUL-2005	WT	UF	GU0507K026602									<	1.45		34.5				
LA-SMA-4	SS0267	11-AUG-2005	WT	F	GF0508K026701		9.44		2.83		0.707		3.52								
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	GU0508K026701		26.8		13.1		8.49		9.38								
LA-SMA-4	SS0267	22-AUG-2005	WT	F	GF0508K026702		7.51		2.1		0.562		2.9								
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	GU0508K026702		21.5		9.3		5.6		7.15	<	1.45		30.4				
LA-SMA-4	SS0267	24-AUG-2005	WT	F	GF0508K026703		10		2.43		0.884		3.28								
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	GU0508K026703		56		22.3		19.6		10.1								
LA-SMA-4	SS0267	28-SEP-2005	WT	F	GF0510K026701		6.45		2.05		0.579		2.84								
LA-SMA-4	SS0267	28-SEP-2005	WT	UF	GU0510K026701		13.8		6.75		3.72		5.2								
LA-SMA-5	SS0268	03-MAY-2005	WT	F	GF0505K026801		8.72		3.87		1.02		9.07								
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801																
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801		21.8		11.4		7.26		12.2	<	1.45		21.3		21.3		
LA-SMA-5	SS0268	15-JUL-2005	WT	F	GF0507K026801		13.1		7.01		1.48		3.42								
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	GU0507K026801		20.9		14.4		7.07		5.46	<	1.45		27				
LA-SMA-5	SS0268	24-AUG-2005	WT	F	GF0508K026801		10.8		3.76		1.19		2.43								
LA-SMA-5	SS0268	24-AUG-2005	WT	UF	GU0508K026803		48.6		15.6		14.3		4.02	<	1.45		34.9				
LA-SMA-5	SS0268	28-SEP-2005	WT	F	GF0510K026801		8.09		3.15		0.871		2.41								
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	GU0510K026801		29.8		13.5		11.9		3.53								
LA-SMA-5.2	SS026805	04-AUG-2005	WT	F	GF05082680501		10.3		8.34		2.18		1.18								
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	GU05082680501		12.7		13.5		4.65		2.16	<	1.45		28.1				
LA-SMA-5.2	SS026805	15-JUL-2005	WT	F	GF05072680501		21.3		11.8		4.51		2.26								
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	GU05072680501		22.2		16.2		6.61		2.73	<	1.45		50.7				
LA-SMA-5.2	SS026805	24-AUG-2005	WT	F	GF05082680502		4.21		4.22		0.965		0.679								
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	GU05082680502		17.7		18.3		10.8		9.6	<	1.45		10.1				
LA-SMA-5.3	SS02681	11-AUG-2005	WT	F	GF05080268101		8.91		3.49		1.32		13.9								
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	GU05080268101		10.1		4.89		2.56		23.7								
LA-SMA-5.3	SS02681	15-JUL-2005	WT	F	GF05070268101		13.6		6.05		2.21		21.3								
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	GU05070268101		82		14.7		11.2		25.2	<	1.45		47.5				
LA-SMA-5.3	SS02681	24-AUG-2005	WT	F	GF05080268102		13.4		2.88		0.751		1.21								
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	GU05080268102		29.2		6.77		4.22		3.63	<	1.45		36				
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	GU05100268101		19.2		10.1		7.81		13								
LA-SMA-5.4	SS02683	08-AUG-2005	WT	F	GF05080268301		18.8		28.1		3.41		39.5								
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	GU05080268301		35.9		36.7		12.4		116	<	1.45		45.3				
LA-SMA-5.4	SS02683	15-JUL-2005	WT	F	GF05070268301		126		53.9		14		1180								
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	GU05070268301		128		55.6		14.6		1190	<	1.45		159				
LA-SMA-5.4	SS02683	16-AUG-2005	WT	F	GF05080268302		26.9		18.8		2.76		201								
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	GU05080268302		29.8		21.8		5.47		200	<	1.45		89				
LA-SMA-5.4	SS02683	20-JUL-2005	WT	F	GF05070268302		20.3		28.9		2.66		55.3								
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	GU05070268302		21.9		30.6		3.39		57.1								
LA-SMA-5.5	SS02685	15-JUL-2005	WT	F	GF05070268501		12.5		5.94		2.18		20.7								
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	GU05070268501		56.3		28.7		28.1		22	<	1.45		52.9				
LA-SMA-5.5	SS02685	28-SEP-2005	WT	F	GF05100268501		7.66		3.45		1.53		17.1								

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-2	SS0265	22-AUG-2005	WT	UF	GU0508K026503												
LA-SMA-3	SS0266	04-AUG-2005	WT	UF	GU0508K026601												
LA-SMA-3	SS0266	15-JUL-2005	WT	F	GF0507K026601												
LA-SMA-3	SS0266	20-JUL-2005	WT	F	GF0507K026602												
LA-SMA-3	SS0266	20-JUL-2005	WT	UF	GU0507K026602												
LA-SMA-4	SS0267	11-AUG-2005	WT	F	GF0508K026701												
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	GU0508K026701												
LA-SMA-4	SS0267	22-AUG-2005	WT	F	GF0508K026702												
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	GU0508K026702												
LA-SMA-4	SS0267	24-AUG-2005	WT	F	GF0508K026703												
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	GU0508K026703												
LA-SMA-4	SS0267	28-SEP-2005	WT	F	GF0510K026701												
LA-SMA-4	SS0267	28-SEP-2005	WT	UF	GU0510K026701												
LA-SMA-5	SS0268	03-MAY-2005	WT	F	GF0505K026801												
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801												
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801							<	0.0025		0.56		114
LA-SMA-5	SS0268	15-JUL-2005	WT	F	GF0507K026801												
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	GU0507K026801						0.00388				0.359		331
LA-SMA-5	SS0268	24-AUG-2005	WT	F	GF0508K026801												
LA-SMA-5	SS0268	24-AUG-2005	WT	UF	GU0508K026803					<	0.0025				0.493		140
LA-SMA-5	SS0268	28-SEP-2005	WT	F	GF0510K026801												
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	GU0510K026801												
LA-SMA-5.2	SS026805	04-AUG-2005	WT	F	GF05082680501												
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	GU05082680501					<	0.0025				0.372		134
LA-SMA-5.2	SS026805	15-JUL-2005	WT	F	GF05072680501												
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	GU05072680501						0.00475				1.1		233
LA-SMA-5.2	SS026805	24-AUG-2005	WT	F	GF05082680502												
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	GU05082680502						0.00535				0.314		49.5
LA-SMA-5.3	SS02681	11-AUG-2005	WT	F	GF05080268101												
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	GU05080268101					<	0.0025						
LA-SMA-5.3	SS02681	15-JUL-2005	WT	F	GF05070268101												
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	GU05070268101								0.00471		0.635		426
LA-SMA-5.3	SS02681	24-AUG-2005	WT	F	GF05080268102												
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	GU05080268102					<	0.0025				0.195		101
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	GU05100268101					<	0.0025				0.206	<	47.9
LA-SMA-5.4	SS02683	08-AUG-2005	WT	F	GF05080268301												
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	GU05080268301						0.00804				0.548		212
LA-SMA-5.4	SS02683	15-JUL-2005	WT	F	GF05070268301												
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	GU05070268301						0.0178				2.55		393
LA-SMA-5.4	SS02683	16-AUG-2005	WT	F	GF05080268302												
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	GU05080268302					<	0.00842				0.556		167
LA-SMA-5.4	SS02683	20-JUL-2005	WT	F	GF05070268302												
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	GU05070268302							<	0.00655		0.445		308
LA-SMA-5.5	SS02685	15-JUL-2005	WT	F	GF05070268501												
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	GU05070268501						0.0042				0.59		222
LA-SMA-5.5	SS02685	28-SEP-2005	WT	F	GF05100268501												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-2	SS0265	22-AUG-2005	WT	UF	GU0508K026503								
LA-SMA-3	SS0266	04-AUG-2005	WT	UF	GU0508K026601								
LA-SMA-3	SS0266	15-JUL-2005	WT	F	GF0507K026601		69.5						
LA-SMA-3	SS0266	20-JUL-2005	WT	F	GF0507K026602		55.7						
LA-SMA-3	SS0266	20-JUL-2005	WT	UF	GU0507K026602								
LA-SMA-4	SS0267	11-AUG-2005	WT	F	GF0508K026701						26.5		
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	GU0508K026701						102		
LA-SMA-4	SS0267	22-AUG-2005	WT	F	GF0508K026702						21.1		
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	GU0508K026702						76.6		
LA-SMA-4	SS0267	24-AUG-2005	WT	F	GF0508K026703						28.6		
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	GU0508K026703						220		
LA-SMA-4	SS0267	28-SEP-2005	WT	F	GF0510K026701						18.5		
LA-SMA-4	SS0267	28-SEP-2005	WT	UF	GU0510K026701						49.9		
LA-SMA-5	SS0268	03-MAY-2005	WT	F	GF0505K026801						25.9		
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801								
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	GU0505K026801		17.2				84.4		
LA-SMA-5	SS0268	15-JUL-2005	WT	F	GF0507K026801		64.8				38.8		
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	GU0507K026801						81.4		
LA-SMA-5	SS0268	24-AUG-2005	WT	F	GF0508K026801						32		
LA-SMA-5	SS0268	24-AUG-2005	WT	UF	GU0508K026803						180		
LA-SMA-5	SS0268	28-SEP-2005	WT	F	GF0510K026801						23.8		
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	GU0510K026801						123		
LA-SMA-5.2	SS026805	04-AUG-2005	WT	F	GF05082680501		29				34.7		
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	GU05082680501						50.9		
LA-SMA-5.2	SS026805	15-JUL-2005	WT	F	GF05072680501		68.8				71.6		
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	GU05072680501						82.6		
LA-SMA-5.2	SS026805	24-AUG-2005	WT	F	GF05082680502		14.6				14.5		
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	GU05082680502						88.5		
LA-SMA-5.3	SS02681	11-AUG-2005	WT	F	GF05080268101						27.7		
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	GU05080268101						35.7		
LA-SMA-5.3	SS02681	15-JUL-2005	WT	F	GF05070268101		25.6				43		
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	GU05070268101						251		
LA-SMA-5.3	SS02681	24-AUG-2005	WT	F	GF05080268102		7.62				36.5		
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	GU05080268102						90.3		
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	GU05100268101						80		
LA-SMA-5.4	SS02683	08-AUG-2005	WT	F	GF05080268301		76.8				60.9		
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	GU05080268301						141		
LA-SMA-5.4	SS02683	15-JUL-2005	WT	F	GF05070268301		76.3				373		
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	GU05070268301						379		
LA-SMA-5.4	SS02683	16-AUG-2005	WT	F	GF05080268302		35.9				78.4		
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	GU05080268302						97		
LA-SMA-5.4	SS02683	20-JUL-2005	WT	F	GF05070268302						61.7		
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	GU05070268302						68.6		
LA-SMA-5.5	SS02685	15-JUL-2005	WT	F	GF05070268501						40.2		
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	GU05070268501						257		
LA-SMA-5.5	SS02685	28-SEP-2005	WT	F	GF05100268501						25.4		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	GU05100268501		29		8.09		5.76		17.2								
LA-SMA-6	SS0269	22-AUG-2005	WT	F	GF0508K026901		6.85		5.01		1.41		4.06								
LA-SMA-6	SS0269	22-AUG-2005	WT	UF	GU0508K026901		24.3		15		8.37		7.2	<	1.45		11.3				
LA-SMA-6.3	SS028	22-AUG-2005	WT	F	GF05080K02801		4.55		3.17		0.761		0.566								
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	GU05080K02801		10.5		5.89		2.19		1.49	<	1.45		23.7				
LA-SMA-6.5	SS0287	22-AUG-2005	WT	F	GF0508K028701		5.37		3.45		0.75		0.668								
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	GU0508K028701		15.6		10.8		5.79		3.03	<	1.45		14.6				
LA-SMA-10	SS037	11-AUG-2005	WT	F	GF05080K03701		11.1		3.44		0.802		0.412								
LA-SMA-10	SS037	11-AUG-2005	WT	UF	GU05080K03701		22.3		10.7		6.77		2.95	<	1.45		37.2				
LA-SMA-10	SS037	24-AUG-2005	WT	F	GF05080K03702		6.35		1.88		0.567		0.735								
LA-SMA-10	SS037	24-AUG-2005	WT	UF	GU05080K03702		12.4		7.32		4.64		2.28	<	1.45		16.9				
M-SMA-2	SS1984	22-AUG-2005	WT	F	GF0508K198401		5.86		3.63		0.839		3.09								
M-SMA-2	SS1984	22-AUG-2005	WT	UF	GU0508K198401		15.9		15.7		10.9		4.93	<	1.45		23.7			<	4
M-SMA-2	SS1984	24-AUG-2005	WT	F	GF0508K198402		5.57		4.34		0.757		2.01								
M-SMA-2	SS1984	24-AUG-2005	WT	UF	GU0508K198402		13.7		14.9		9.5		3.18	<	1.45		11.3			<	4
M-SMA-2	SS1984	25-AUG-2005	WT	F	GF0508K198403		8.7		4.37		1.14		2.49								
M-SMA-2	SS1984	25-AUG-2005	WT	UF	GU0508K198403		11.6		8.93		4.38		3.31	<	1.45		25.9			<	4
M-SMA-2	SS1984	28-SEP-2005	WT	F	GF0509K198401		1.29		1.85		0.316		0.24								
M-SMA-2	SS1984	28-SEP-2005	WT	UF	GU0509K198401		4.62		7.74		4.35		1.24	<	1.45		10			<	4
M-SMA-3	SS1985	15-JUL-2005	WT	F	GF0507K198501		8.48		11.1		0.909		2.7								
M-SMA-3	SS1985	15-JUL-2005	WT	UF	GU0507K198501		7.8		6.71		1.4		3.18	<	1.45		32.4			<	4
M-SMA-4	SS1987	04-AUG-2005	WT	F	GF0508K198701		7.76		4.42		1.46		10.9								
M-SMA-4	SS1987	04-AUG-2005	WT	UF	GU0508K198701		8.04		4.7		1.61		11.1	<	1.45		27				
M-SMA-4	SS1987	15-JUL-2005	WT	F	GF0507K198701		8.01		6.05		1.12		3.61								
M-SMA-4	SS1987	15-JUL-2005	WT	UF	GU0507K198701		7.9		5.95		1.08		3.6	<	1.45		23.7				
M-SMA-4	SS1987	22-AUG-2005	WT	F	GF0508K198702		7.5		3.88		1.47		7.01								
M-SMA-4	SS1987	22-AUG-2005	WT	UF	GU0508K198703		10.4		7.55		3.48		8.46	<	1.45		27				
M-SMA-4	SS1987	24-AUG-2005	WT	F	GF0508K198703		7.67		4.31		1.55		9.18								
M-SMA-4	SS1987	24-AUG-2005	WT	UF	GU0508K198704		8.41		8.13		4.87		4.37	<	1.45		10.1				
M-SMA-5	SS199	12-AUG-2005	WT	F	GF05080K19901																
M-SMA-5	SS199	12-AUG-2005	WT	UF	GU05080K19901												7.89				
M-SMA-5	SS199	15-JUL-2005	WT	UF	GU05070K19901									<	1.45		10.8				
M-SMA-8	E200	03-MAY-2005	WT	F	GF05050E20001		4.96		4.01		0.813		13.2		4.39		112		107	<	4
M-SMA-8	E200	03-MAY-2005	WT	UF	GU05050E20001		10.6		11.3		5.21		12.5								
M-SMA-8	E200	15-JUL-2005	WT	F	GF05070E20001		10.5		3.76		1.25		9.37	<	1.45		37.8				
M-SMA-8	E200	15-JUL-2005	WT	UF	GU05070E20001		42		8.53		7.6		8.5								
M-SMA-8	E200	20-JUL-2005	WT	F	GF05070E20002		7.69		5.47		1.14		17.1				39.9			<	4
M-SMA-8	E200	20-JUL-2005	WT	UF	GU05070E20002		17.2		13.9		7.82		20.5								
M-SMA-8	E200	24-APR-2005	WT	F	GF05040E20001		5.36		4.6		0.973		12.2	<	1.45		31.9		31.8	<	4
M-SMA-8	E200	24-APR-2005	WT	UF	GU05040E20001		13.9		13.7		6.66		15.9								
M-SMA-10	SS2002	03-OCT-2005	WT	F	GF0510K200201		10.5		2.19		3.15		3.56								
M-SMA-10	SS2002	03-OCT-2005	WT	UF	GU0510K200201		11.3		3.23		4.02		3.76								
M-SMA-11	SS2003	12-AUG-2005	WT	F	GF0508K200301																
M-SMA-11	SS2003	12-AUG-2005	WT	UF	GU0508K200301											<	1.45				
M-SMA-11	SS2003	15-JUL-2005	WT	F	GF0507K200301																
M-SMA-11	SS2003	15-JUL-2005	WT	UF	GU0507K200301									<	1.45		5.4				

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M)		EPA:335.3		EPA:335.3		SW-846:9012A		EPA:350.1		EPA:410.4	
						ClO4		CN (amen)		CN(Total)		CN(Total)		NH3-N		COD	
						ug/L		mg/L		mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	GU05100268501					<	0.0025				0.281		156
LA-SMA-6	SS0269	22-AUG-2005	WT	F	GF0508K026901												
LA-SMA-6	SS0269	22-AUG-2005	WT	UF	GU0508K026901						0.00523				0.349		140
LA-SMA-6.3	SS028	22-AUG-2005	WT	F	GF05080K02801												
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	GU05080K02801						0.00312				0.235		91.8
LA-SMA-6.5	SS0287	22-AUG-2005	WT	F	GF0508K028701												
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	GU0508K028701						0.0028				0.705		194
LA-SMA-10	SS037	11-AUG-2005	WT	F	GF05080K03701												
LA-SMA-10	SS037	11-AUG-2005	WT	UF	GU05080K03701					<	0.0025				0.187	<	45.7
LA-SMA-10	SS037	24-AUG-2005	WT	F	GF05080K03702												
LA-SMA-10	SS037	24-AUG-2005	WT	UF	GU05080K03702					<	0.0025				0.205		78.3
M-SMA-2	SS1984	22-AUG-2005	WT	F	GF0508K198401												
M-SMA-2	SS1984	22-AUG-2005	WT	UF	GU0508K198401		1.04										
M-SMA-2	SS1984	24-AUG-2005	WT	F	GF0508K198402												
M-SMA-2	SS1984	24-AUG-2005	WT	UF	GU0508K198402		0.648			<	0.0025				0.158		171
M-SMA-2	SS1984	25-AUG-2005	WT	F	GF0508K198403												
M-SMA-2	SS1984	25-AUG-2005	WT	UF	GU0508K198403		0.0958			<	0.0025				0.143		103
M-SMA-2	SS1984	28-SEP-2005	WT	F	GF0509K198401												
M-SMA-2	SS1984	28-SEP-2005	WT	UF	GU0509K198401		0.262										
M-SMA-3	SS1985	15-JUL-2005	WT	F	GF0507K198501												
M-SMA-3	SS1985	15-JUL-2005	WT	UF	GU0507K198501		1.52					<	0.0025	<	0.034	<	41.6
M-SMA-4	SS1987	04-AUG-2005	WT	F	GF0508K198701												
M-SMA-4	SS1987	04-AUG-2005	WT	UF	GU0508K198701												
M-SMA-4	SS1987	15-JUL-2005	WT	F	GF0507K198701												
M-SMA-4	SS1987	15-JUL-2005	WT	UF	GU0507K198701												
M-SMA-4	SS1987	22-AUG-2005	WT	F	GF0508K198702												
M-SMA-4	SS1987	22-AUG-2005	WT	UF	GU0508K198703												
M-SMA-4	SS1987	24-AUG-2005	WT	F	GF0508K198703												
M-SMA-4	SS1987	24-AUG-2005	WT	UF	GU0508K198704												
M-SMA-5	SS199	12-AUG-2005	WT	F	GF05080K19901												
M-SMA-5	SS199	12-AUG-2005	WT	UF	GU05080K19901					<	0.0025						
M-SMA-5	SS199	15-JUL-2005	WT	UF	GU05070K19901						0.00339						
M-SMA-8	E200	03-MAY-2005	WT	F	GF05050E20001		0.225										
M-SMA-8	E200	03-MAY-2005	WT	UF	GU05050E20001												
M-SMA-8	E200	15-JUL-2005	WT	F	GF05070E20001												
M-SMA-8	E200	15-JUL-2005	WT	UF	GU05070E20001												
M-SMA-8	E200	20-JUL-2005	WT	F	GF05070E20002		0.214										
M-SMA-8	E200	20-JUL-2005	WT	UF	GU05070E20002												
M-SMA-8	E200	24-APR-2005	WT	F	GF05040E20001		0.223										
M-SMA-8	E200	24-APR-2005	WT	UF	GU05040E20001												
M-SMA-10	SS2002	03-OCT-2005	WT	F	GF0510K200201												
M-SMA-10	SS2002	03-OCT-2005	WT	UF	GU0510K200201					<	0.0025				0.274		109
M-SMA-11	SS2003	12-AUG-2005	WT	F	GF0508K200301												
M-SMA-11	SS2003	12-AUG-2005	WT	UF	GU0508K200301												
M-SMA-11	SS2003	15-JUL-2005	WT	F	GF0507K200301												
M-SMA-11	SS2003	15-JUL-2005	WT	UF	GU0507K200301												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	GU05100268501						96.1		
LA-SMA-6	SS0269	22-AUG-2005	WT	F	GF0508K026901		22.8				22.9		
LA-SMA-6	SS0269	22-AUG-2005	WT	UF	GU0508K026901						95.2		
LA-SMA-6.3	SS028	22-AUG-2005	WT	F	GF05080K02801		19.6				14.5		
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	GU05080K02801						35.4		
LA-SMA-6.5	SS0287	22-AUG-2005	WT	F	GF0508K028701						16.5		
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	GU0508K028701						62.8		
LA-SMA-10	SS037	11-AUG-2005	WT	F	GF05080K03701		10.1				30.9		
LA-SMA-10	SS037	11-AUG-2005	WT	UF	GU05080K03701						83.5		
LA-SMA-10	SS037	24-AUG-2005	WT	F	GF05080K03702		8.01				18.2		
LA-SMA-10	SS037	24-AUG-2005	WT	UF	GU05080K03702						50		
M-SMA-2	SS1984	22-AUG-2005	WT	F	GF0508K198401		11.1				18.1		
M-SMA-2	SS1984	22-AUG-2005	WT	UF	GU0508K198401						84.8		
M-SMA-2	SS1984	24-AUG-2005	WT	F	GF0508K198402		15.3				17		
M-SMA-2	SS1984	24-AUG-2005	WT	UF	GU0508K198402						73.4		
M-SMA-2	SS1984	25-AUG-2005	WT	F	GF0508K198403		10.8				26.4		
M-SMA-2	SS1984	25-AUG-2005	WT	UF	GU0508K198403						46.9		
M-SMA-2	SS1984	28-SEP-2005	WT	F	GF0509K198401		5.23				4.5		
M-SMA-2	SS1984	28-SEP-2005	WT	UF	GU0509K198401						29.5		
M-SMA-3	SS1985	15-JUL-2005	WT	F	GF0507K198501		19.3				24.9		
M-SMA-3	SS1985	15-JUL-2005	WT	UF	GU0507K198501						25.3		
M-SMA-4	SS1987	04-AUG-2005	WT	F	GF0508K198701		19				25.4		
M-SMA-4	SS1987	04-AUG-2005	WT	UF	GU0508K198701						26.7		
M-SMA-4	SS1987	15-JUL-2005	WT	F	GF0507K198701		19.4				24.6		
M-SMA-4	SS1987	15-JUL-2005	WT	UF	GU0507K198701						24.2		
M-SMA-4	SS1987	22-AUG-2005	WT	F	GF0508K198702		11				24.8		
M-SMA-4	SS1987	22-AUG-2005	WT	UF	GU0508K198703						40.3		
M-SMA-4	SS1987	24-AUG-2005	WT	F	GF0508K198703		10.9				25.5		
M-SMA-4	SS1987	24-AUG-2005	WT	UF	GU0508K198704						41		
M-SMA-5	SS199	12-AUG-2005	WT	F	GF05080K19901		20						
M-SMA-5	SS199	12-AUG-2005	WT	UF	GU05080K19901								
M-SMA-5	SS199	15-JUL-2005	WT	UF	GU05070K19901								
M-SMA-8	E200	03-MAY-2005	WT	F	GF05050E20001		5.33				15.7		
M-SMA-8	E200	03-MAY-2005	WT	UF	GU05050E20001						48		
M-SMA-8	E200	15-JUL-2005	WT	F	GF05070E20001		9.89				31.5		
M-SMA-8	E200	15-JUL-2005	WT	UF	GU05070E20001						136		
M-SMA-8	E200	20-JUL-2005	WT	F	GF05070E20002		22.7				23.9		
M-SMA-8	E200	20-JUL-2005	WT	UF	GU05070E20002						75.1		
M-SMA-8	E200	24-APR-2005	WT	F	GF05040E20001		6.14				17.4		
M-SMA-8	E200	24-APR-2005	WT	UF	GU05040E20001						62.2		
M-SMA-10	SS2002	03-OCT-2005	WT	F	GF0510K200201						39.2		
M-SMA-10	SS2002	03-OCT-2005	WT	UF	GU0510K200201						44.8		
M-SMA-11	SS2003	12-AUG-2005	WT	F	GF0508K200301		25.4						
M-SMA-11	SS2003	12-AUG-2005	WT	UF	GU0508K200301								
M-SMA-11	SS2003	15-JUL-2005	WT	F	GF0507K200301		86.7						
M-SMA-11	SS2003	15-JUL-2005	WT	UF	GU0507K200301								

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
M-SMA-11	SS2003	24-AUG-2005	WT	F	GF0508K200302																
M-SMA-11	SS2003	24-AUG-2005	WT	UF	GU0508K200303									<	1.45	<	1.45				
M-SMA-12	SS2004	12-AUG-2005	WT	F	GF0508K200401		7.03		2.21		1.88		5.87								
M-SMA-12	SS2004	12-AUG-2005	WT	UF	GU0508K200401		7.39		2.35		2.03		5.98				23.7				
M-SMA-12	SS2004	23-AUG-2005	WT	F	GF0508K200402		3.76		3.38		0.81		2.54								
M-SMA-12	SS2004	23-AUG-2005	WT	UF	GU0508K200402		6.08		4.75		1.67		3.75	<	1.45		7.89				
M-SMA-12	SS2004	24-AUG-2005	WT	F	GF0508K200403		7.65		1.25		1.86		5.26								
M-SMA-12	SS2004	24-AUG-2005	WT	UF	GU0508K200403		9.29		2.97		2.6		6.44	<	1.45		24.8				
M-SMA-13	SS205	03-OCT-2005	WT	F	GF05100K20501		3.4		2.89		0.764		0.212								
M-SMA-13	SS205	03-OCT-2005	WT	UF	GU05100K20501		3.56		3.19		0.947		0.341	<	1.45		5.01				
M-SMA-13	SS205	12-AUG-2005	WT	F	GF05080K20501		5.05		3.59		0.965	<	0.287								
M-SMA-13	SS205	12-AUG-2005	WT	UF	GU05080K20501		12.7		13.7		7.44		3.69	<	1.45		14.6				
M-SMA-13	SS205	24-AUG-2005	WT	F	GF05080K20502		12.7		4.65		2.71		0.784								
M-SMA-13	SS205	24-AUG-2005	WT	UF	GU05080K20502		20		14.1		8.82		4.09	<	1.45		11.3				
PJ-SMA-1	SS2405	04-AUG-2005	WT	F	GF0508K240501		4.04		2.56		0.96		1.62								
PJ-SMA-1	SS2405	04-AUG-2005	WT	UF	GU0508K240501		4.74		3.28		1.25		1.91								
PJ-SMA-1	SS2405	06-AUG-2005	WT	F	GF0508K240502		2.16		1.39		0.493		1.14								
PJ-SMA-1	SS2405	06-AUG-2005	WT	UF	GU0508K240502		3.56		2.87		1.32		1.36								
PJ-SMA-1	SS2405	12-AUG-2005	WT	F	GF0508K240503		9.19		3.28		2.89		7.73								
PJ-SMA-1	SS2405	12-AUG-2005	WT	UF	GU0508K240503		10.9		3.99		3.67		8.69	<	1.45		36				
PJ-SMA-1	SS2405	18-JUL-2005	WT	F	GF0507K240501		5.38		4.33		1.24		1.75								
PJ-SMA-1	SS2405	18-JUL-2005	WT	UF	GU0507K240501		5.94		4.77		1.43		1.78	<	1.45		15.1				
PJ-SMA-1	SS2405	24-AUG-2005	WT	F	GF0508K240504																
PJ-SMA-1	SS2405	24-AUG-2005	WT	UF	GU0508K240504									<	1.45		25.9				
PJ-SMA-1	SS2405	29-SEP-2005	WT	F	GF0509K240501																
PJ-SMA-1	SS2405	29-SEP-2005	WT	UF	GU0509K240501									<	1.45		10				
PJ-SMA-4	SS24253	03-MAY-2005	WT	F	GF05050KPS401		7.51		1.48		1.81		4.08								
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	GU05050KPS401		12.8		7.9		8.51		4.37	<	1.45		38.3		38.3		
PJ-SMA-4	SS24253	16-APR-2005	WT	F	GF05040KPS401		4.99		2.4		1.5		2.75								
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401																
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401		17.6		14.9		15.9		3.2	<	1.45		22.3		22.3		
PJ-SMA-4	SS24253	18-JUL-2005	WT	F	GF05070KPS401		21.8		3.62		2.94		1.15								
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	GU05070KPS401		27.3		5.66		4.77		1.19				89.6				
PJ-SMA-4	SS24253	24-APR-2005	WT	F	GF05040KPS402		4.41		1.55		1.24		2.59								
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402																
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402		6.48		4.18		3.4		2.99	<	1.45		18.1		18.1		
PJ-SMA-7	SS24210	04-AUG-2005	WT	F	GF05082421001		4.82		3.14		1.04		0.376								
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	GU05082421001		5.85		5.08		1.72		1.38								
PJ-SMA-7	SS24210	12-AUG-2005	WT	F	GF05082421002		2.67		1.93		0.601		0.283								
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	GU05082421002		3.29		3.26		1.08		1.34	<	1.45		14.6				
PJ-SMA-7	SS24210	15-JUL-2005	WT	F	GF05072421001		7.39		4.38		1.51		0.482								
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	GU05072421001		11.1		10.8		4.03		3.49	<	1.45		32.4				
PJ-SMA-7	SS24210	24-AUG-2005	WT	F	GF05082421003		2.77		1.85		0.732		0.53								
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	GU05082421003		3.67		3.34		1.58		1.05	<	1.45		5.63				
PJ-SMA-15	E248.5	05-AUG-2005	WT	F	GF0508E248501		9.42		3.66		1.92		2.49				20.5				
PJ-SMA-15	E248.5	05-AUG-2005	WT	UF	GU0508E248501		13.3		7.91		6.02		5.31								

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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
M-SMA-11	SS2003	24-AUG-2005	WT	F	GF0508K200302												
M-SMA-11	SS2003	24-AUG-2005	WT	UF	GU0508K200303												
M-SMA-12	SS2004	12-AUG-2005	WT	F	GF0508K200401												
M-SMA-12	SS2004	12-AUG-2005	WT	UF	GU0508K200401					<	0.0025				0.271		75.3
M-SMA-12	SS2004	23-AUG-2005	WT	F	GF0508K200402												
M-SMA-12	SS2004	23-AUG-2005	WT	UF	GU0508K200402					<	0.0025				0.127		119
M-SMA-12	SS2004	24-AUG-2005	WT	F	GF0508K200403												
M-SMA-12	SS2004	24-AUG-2005	WT	UF	GU0508K200403					<	0.0025			<	0.111		57.2
M-SMA-13	SS205	03-OCT-2005	WT	F	GF05100K20501												
M-SMA-13	SS205	03-OCT-2005	WT	UF	GU05100K20501												
M-SMA-13	SS205	12-AUG-2005	WT	F	GF05080K20501												
M-SMA-13	SS205	12-AUG-2005	WT	UF	GU05080K20501												
M-SMA-13	SS205	24-AUG-2005	WT	F	GF05080K20502												
M-SMA-13	SS205	24-AUG-2005	WT	UF	GU05080K20502												
PJ-SMA-1	SS2405	04-AUG-2005	WT	F	GF0508K240501												
PJ-SMA-1	SS2405	04-AUG-2005	WT	UF	GU0508K240501						0.00443						
PJ-SMA-1	SS2405	06-AUG-2005	WT	F	GF0508K240502												
PJ-SMA-1	SS2405	06-AUG-2005	WT	UF	GU0508K240502												
PJ-SMA-1	SS2405	12-AUG-2005	WT	F	GF0508K240503												
PJ-SMA-1	SS2405	12-AUG-2005	WT	UF	GU0508K240503					<	0.0025				0.12		73.1
PJ-SMA-1	SS2405	18-JUL-2005	WT	F	GF0507K240501												
PJ-SMA-1	SS2405	18-JUL-2005	WT	UF	GU0507K240501										0.229		164
PJ-SMA-1	SS2405	24-AUG-2005	WT	F	GF0508K240504												
PJ-SMA-1	SS2405	24-AUG-2005	WT	UF	GU0508K240504						0.00391				0.261		282
PJ-SMA-1	SS2405	29-SEP-2005	WT	F	GF0509K240501												
PJ-SMA-1	SS2405	29-SEP-2005	WT	UF	GU0509K240501					<	0.0025				0.128		85.2
PJ-SMA-4	SS24253	03-MAY-2005	WT	F	GF05050KPS401												
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	GU05050KPS401			<	0.0025			<	0.0025		0.181		30.4
PJ-SMA-4	SS24253	16-APR-2005	WT	F	GF05040KPS401												
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401												
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401				-0.00289			<	0.0025		0.08		64.1
PJ-SMA-4	SS24253	18-JUL-2005	WT	F	GF05070KPS401												
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	GU05070KPS401			<	0.0025	<	0.0025				0.28		85.5
PJ-SMA-4	SS24253	24-APR-2005	WT	F	GF05040KPS402												
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402												
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402				0.000794			<	0.0025	<	0.087		78.7
PJ-SMA-7	SS24210	04-AUG-2005	WT	F	GF05082421001												
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	GU05082421001						0.00412				0.146		108
PJ-SMA-7	SS24210	12-AUG-2005	WT	F	GF05082421002												
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	GU05082421002					<	0.0025			<	0.076	<	39.3
PJ-SMA-7	SS24210	15-JUL-2005	WT	F	GF05072421001												
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	GU05072421001						0.00526				0.565		231
PJ-SMA-7	SS24210	24-AUG-2005	WT	F	GF05082421003												
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	GU05082421003					<	0.0025			<	0.095		72.6
PJ-SMA-15	E248.5	05-AUG-2005	WT	F	GF0508E248501												
PJ-SMA-15	E248.5	05-AUG-2005	WT	UF	GU0508E248501												

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Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
M-SMA-11	SS2003	24-AUG-2005	WT	F	GF0508K200302		16.1						
M-SMA-11	SS2003	24-AUG-2005	WT	UF	GU0508K200303								
M-SMA-12	SS2004	12-AUG-2005	WT	F	GF0508K200401		42.5				25.3		
M-SMA-12	SS2004	12-AUG-2005	WT	UF	GU0508K200401								
M-SMA-12	SS2004	23-AUG-2005	WT	F	GF0508K200402		34.9				12.7		
M-SMA-12	SS2004	23-AUG-2005	WT	UF	GU0508K200402						22.1		
M-SMA-12	SS2004	24-AUG-2005	WT	F	GF0508K200403		15.4				26.8		
M-SMA-12	SS2004	24-AUG-2005	WT	UF	GU0508K200403						33.9		
M-SMA-13	SS205	03-OCT-2005	WT	F	GF05100K20501						11.6		
M-SMA-13	SS205	03-OCT-2005	WT	UF	GU05100K20501						12.8		
M-SMA-13	SS205	12-AUG-2005	WT	F	GF05080K20501						16.6		
M-SMA-13	SS205	12-AUG-2005	WT	UF	GU05080K20501						62.4		
M-SMA-13	SS205	24-AUG-2005	WT	F	GF05080K20502		25.4				43		
M-SMA-13	SS205	24-AUG-2005	WT	UF	GU05080K20502						86.4		
PJ-SMA-1	SS2405	04-AUG-2005	WT	F	GF0508K240501						14		
PJ-SMA-1	SS2405	04-AUG-2005	WT	UF	GU0508K240501						17		
PJ-SMA-1	SS2405	06-AUG-2005	WT	F	GF0508K240502						7.4		
PJ-SMA-1	SS2405	06-AUG-2005	WT	UF	GU0508K240502						14.3		
PJ-SMA-1	SS2405	12-AUG-2005	WT	F	GF0508K240503		10.4				34.8		
PJ-SMA-1	SS2405	12-AUG-2005	WT	UF	GU0508K240503						42.4		
PJ-SMA-1	SS2405	18-JUL-2005	WT	F	GF0507K240501						18.5		
PJ-SMA-1	SS2405	18-JUL-2005	WT	UF	GU0507K240501						20.7		
PJ-SMA-1	SS2405	24-AUG-2005	WT	F	GF0508K240504		18.7						
PJ-SMA-1	SS2405	24-AUG-2005	WT	UF	GU0508K240504								
PJ-SMA-1	SS2405	29-SEP-2005	WT	F	GF0509K240501		24.5						
PJ-SMA-1	SS2405	29-SEP-2005	WT	UF	GU0509K240501								
PJ-SMA-4	SS24253	03-MAY-2005	WT	F	GF05050KPS401						26.2		
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	GU05050KPS401		7.73				67.1		
PJ-SMA-4	SS24253	16-APR-2005	WT	F	GF05040KPS401						18.6		
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401								
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	GU05040KPS401		12.3				109		
PJ-SMA-4	SS24253	18-JUL-2005	WT	F	GF05070KPS401		21				66.5		
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	GU05070KPS401						87.9		
PJ-SMA-4	SS24253	24-APR-2005	WT	F	GF05040KPS402						16.1		
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402								
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	GU05040KPS402		10				30.2		
PJ-SMA-7	SS24210	04-AUG-2005	WT	F	GF05082421001						16.3		
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	GU05082421001						21.7		
PJ-SMA-7	SS24210	12-AUG-2005	WT	F	GF05082421002		12.5				9.2		
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	GU05082421002						12.7		
PJ-SMA-7	SS24210	15-JUL-2005	WT	F	GF05072421001		42.9				24.7		
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	GU05072421001						44.2		
PJ-SMA-7	SS24210	24-AUG-2005	WT	F	GF05082421003		11.6				9.9		
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	GU05082421003						15.7		
PJ-SMA-15	E248.5	05-AUG-2005	WT	F	GF0508E248501						31.4		
PJ-SMA-15	E248.5	05-AUG-2005	WT	UF	GU0508E248501						58.1		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
PJ-SMA-15	E248.5	12-AUG-2005	WT	F	GF0508E248502		4.83		2.15		0.979		1.99				15.8				
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	GU0508E248502		7.05		5.83		3.71		4.04								
PJ-SMA-15	E248.5	15-JUL-2005	WT	F	GF0507E248501		10.9		3.73		2.13		3.4	<	1.45		29.1				
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	GU0507E248501		57.4		11.8		19.1		7.88								
PJ-SMA-15	E248.5	24-APR-2005	WT	F	GF0504E248501		4.5		2.42		0.969		2.95	<	1.45		31.9		31.8		
PJ-SMA-15	E248.5	24-APR-2005	WT	UF	GU0504E248501		7.18		6.08		3.59		4.76								
PJ-SMA-15	E248.5	29-SEP-2005	WT	F	GF0509E248501																
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	GU0504E249501																
PJ-SMA-250	E250	12-AUG-2005	WT	F	GF05080E25001		16.7		8.84		4.41		18.4								
PJ-SMA-250	E250	12-AUG-2005	WT	UF	GU05080E25001		19.1		11.4		6.18		19.4								
PJ-SMA-250	E250	23-MAR-2005	WM	F	GF05030M25001																
PJ-SMA-250	E250	23-MAR-2005	WM	UF	GU05030M25001		28		5.13		6.58		29.1	<	1.45		66.5		66.1	<	4
Pratt-SMA-1	SS20142	03-OCT-2005	WT	F	GF05102014201		5.89		3.78		2.3		8.72								
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	GU05102014201		46.1		20.2		23.7		7.72	<	1.45		26.1				
Pratt-SMA-1	SS20142	12-AUG-2005	WT	F	GF05082014201		7.25		8.5		1.89		6.18								
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	GU05082014201		16.1		22		15		6.81	<	1.45		21.4				
Pratt-SMA-1	SS20142	22-AUG-2005	WT	F	GF05082014202		6.74		3.85		2.29		10.8								
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	GU05082014202		98		92.2		107		15.6	<	1.45		51.8				
Pratt-SMA-1	SS20142	24-AUG-2005	WT	F	GF05082014203		6.86		3.68		2.64		6.5								
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	GU05082014203		450		144		219		21.7	<	1.45		42.8				
P-SMA-2	SS057	24-AUG-2005	WT	F	GF05080K05701		4.02		4.44		0.902		0.785								
P-SMA-2	SS057	24-AUG-2005	WT	UF	GU05080K05701		13.9		13.8		8.09		3.5	<	1.45		11.3				
P-SMA-2.2	SS0575	03-MAY-2005	WT	F	GF0505K057501		11.5		3.55		1.29		9.16								
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	GU0505K057501		16.4		8.21		5.51		10.3	<	1.45		42.5		42.5		
P-SMA-2.2	SS0575	04-AUG-2005	WT	F	GF0508K057501		16		10.3		1.77		3.45								
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	GU0508K057501		21.1		15.7		6.58		4.37	<	1.45		42.1				
P-SMA-2.2	SS0575	20-JUL-2005	WT	F	GF0507K057501		25.3		12.2		2.5		17.5								
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	GU0507K057501		53.1		27.1		15.7		20.8	<	1.45		92.8				
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	GU0504K057501									<	1.45		55.3		55.2		
P-SMA-2.2	SS0575	31-MAY-2005	WT	F	GF0505K057502		25.9		9.14		2.61		8.99								
P-SMA-2.2	SS0575	31-MAY-2005	WT	UF	GU0505K057502		104		38.3		33.9		11.5								
P-SMA-3	SS054	04-AUG-2005	WT	F	GF05080K05401		17.9		5.97		0.999		13.2								
P-SMA-3	SS054	04-AUG-2005	WT	UF	GU05080K05401		24.6		10.2		4.4		13.5	<	1.45		59.4				
P-SMA-3	SS054	07-SEP-2005	WT	F	GF05090K05401																
P-SMA-3	SS054	07-SEP-2005	WT	UF	GU05090K05401									<	1.45		97.1				
P-SMA-3	SS054	22-AUG-2005	WT	F	GF05080K05402		21.7		4.73		1.19		26.1								
P-SMA-3	SS054	22-AUG-2005	WT	UF	GU05080K05403		55		12.7		10.9		18.9								
P-SMA-3	SS054	24-AUG-2005	WT	F	GF05080K05403		18.9		4.15		1.13		21.7								
P-SMA-3	SS054	24-AUG-2005	WT	UF	GU05080K05404		59.7		12.9		10.6		11.2	<	1.45		55.2				
P-SMA-3	SS054	25-APR-2005	WT	F	GF05040K05401		12.8		3.47		1.05		24.7								
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401																
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401		33.9		14.2		13.5		25	<	1.45		69.1		69.1		
R-SMA-1	SS00	03-MAY-2005	WT	F	GF050500K0001		19		5.68		3.15		57.8								
R-SMA-1	SS00	03-MAY-2005	WT	UF	GU050500K0001		34.3		16		12.7		64.7	<	1.45		68		68		
R-SMA-1	SS00	12-AUG-2005	WT	F	GF050800K0001		6.16		4.24		1.04		13								
R-SMA-1	SS00	12-AUG-2005	WT	UF	GU050800K0001		11.3		5.84		2.32		25.8	<	1.45		76.6				

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
PJ-SMA-15	E248.5	12-AUG-2005	WT	F	GF0508E248502												
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	GU0508E248502												
PJ-SMA-15	E248.5	15-JUL-2005	WT	F	GF0507E248501												
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	GU0507E248501												
PJ-SMA-15	E248.5	24-APR-2005	WT	F	GF0504E248501												
PJ-SMA-15	E248.5	24-APR-2005	WT	UF	GU0504E248501												
PJ-SMA-15	E248.5	29-SEP-2005	WT	F	GF0509E248501												
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	GU0504E249501												
PJ-SMA-250	E250	12-AUG-2005	WT	F	GF05080E25001												
PJ-SMA-250	E250	12-AUG-2005	WT	UF	GU05080E25001												
PJ-SMA-250	E250	23-MAR-2005	WM	F	GF05030M25001												
PJ-SMA-250	E250	23-MAR-2005	WM	UF	GU05030M25001		0.287										
Pratt-SMA-1	SS20142	03-OCT-2005	WT	F	GF05102014201												
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	GU05102014201												
Pratt-SMA-1	SS20142	12-AUG-2005	WT	F	GF05082014201												
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	GU05082014201												
Pratt-SMA-1	SS20142	22-AUG-2005	WT	F	GF05082014202												
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	GU05082014202												
Pratt-SMA-1	SS20142	24-AUG-2005	WT	F	GF05082014203												
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	GU05082014203												
P-SMA-2	SS057	24-AUG-2005	WT	F	GF05080K05701												
P-SMA-2	SS057	24-AUG-2005	WT	UF	GU05080K05701					<	0.0025				0.471		150
P-SMA-2.2	SS0575	03-MAY-2005	WT	F	GF0505K057501												
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	GU0505K057501							<	0.0025		0.17		228
P-SMA-2.2	SS0575	04-AUG-2005	WT	F	GF0508K057501												
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	GU0508K057501						0.00326				0.204		210
P-SMA-2.2	SS0575	20-JUL-2005	WT	F	GF0507K057501												
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	GU0507K057501							<	0.00371		0.577		343
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	GU0504K057501							<	0.0025	<	0.104		62.1
P-SMA-2.2	SS0575	31-MAY-2005	WT	F	GF0505K057502												
P-SMA-2.2	SS0575	31-MAY-2005	WT	UF	GU0505K057502												
P-SMA-3	SS054	04-AUG-2005	WT	F	GF05080K05401												
P-SMA-3	SS054	04-AUG-2005	WT	UF	GU05080K05401						0.00869				0.15		219
P-SMA-3	SS054	07-SEP-2005	WT	F	GF05090K05401												
P-SMA-3	SS054	07-SEP-2005	WT	UF	GU05090K05401					<	0.0025				0.238		240
P-SMA-3	SS054	22-AUG-2005	WT	F	GF05080K05402												
P-SMA-3	SS054	22-AUG-2005	WT	UF	GU05080K05403												
P-SMA-3	SS054	24-AUG-2005	WT	F	GF05080K05403												
P-SMA-3	SS054	24-AUG-2005	WT	UF	GU05080K05404					<	0.0025				0.239		161
P-SMA-3	SS054	25-APR-2005	WT	F	GF05040K05401												
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401												
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401							<	0.0025		0.19		256
R-SMA-1	SS00	03-MAY-2005	WT	F	GF050500K0001												
R-SMA-1	SS00	03-MAY-2005	WT	UF	GU050500K0001								0.006	<	0.127		194
R-SMA-1	SS00	12-AUG-2005	WT	F	GF050800K0001												
R-SMA-1	SS00	12-AUG-2005	WT	UF	GU050800K0001					<	0.0025				0.112		60.2

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
PJ-SMA-15	E248.5	12-AUG-2005	WT	F	GF0508E248502		6.05				16.1		
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	GU0508E248502						32.9		
PJ-SMA-15	E248.5	15-JUL-2005	WT	F	GF0507E248501		15.2				35.9		
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	GU0507E248501						222		
PJ-SMA-15	E248.5	24-APR-2005	WT	F	GF0504E248501		6.35				15.2		
PJ-SMA-15	E248.5	24-APR-2005	WT	UF	GU0504E248501						32.7		
PJ-SMA-15	E248.5	29-SEP-2005	WT	F	GF0509E248501		5.09						
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	GU0504E249501								260
PJ-SMA-250	E250	12-AUG-2005	WT	F	GF05080E25001						59.9		
PJ-SMA-250	E250	12-AUG-2005	WT	UF	GU05080E25001						73.2		
PJ-SMA-250	E250	23-MAR-2005	WM	F	GF05030M25001				8.82				
PJ-SMA-250	E250	23-MAR-2005	WM	UF	GU05030M25001						97.1		
Pratt-SMA-1	SS20142	03-OCT-2005	WT	F	GF05102014201		9.57				24.2		
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	GU05102014201						213		
Pratt-SMA-1	SS20142	12-AUG-2005	WT	F	GF05082014201		13				25.9		
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	GU05082014201						102		
Pratt-SMA-1	SS20142	22-AUG-2005	WT	F	GF05082014202						26.3		
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	GU05082014202						684		
Pratt-SMA-1	SS20142	24-AUG-2005	WT	F	GF05082014203		9.78				28		
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	GU05082014203						2030		
P-SMA-2	SS057	24-AUG-2005	WT	F	GF05080K05701		18.5				13.8		
P-SMA-2	SS057	24-AUG-2005	WT	UF	GU05080K05701						68		
P-SMA-2.2	SS0575	03-MAY-2005	WT	F	GF0505K057501						34		
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	GU0505K057501		12.5				63.5		
P-SMA-2.2	SS0575	04-AUG-2005	WT	F	GF0508K057501		35.6				47.4		
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	GU0508K057501						79.8		
P-SMA-2.2	SS0575	20-JUL-2005	WT	F	GF0507K057501		63.5				73.4		
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	GU0507K057501						197		
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	GU0504K057501		7.11						
P-SMA-2.2	SS0575	31-MAY-2005	WT	F	GF0505K057502						73.2		
P-SMA-2.2	SS0575	31-MAY-2005	WT	UF	GU0505K057502						302		
P-SMA-3	SS054	04-AUG-2005	WT	F	GF05080K05401		44.5				48.7		
P-SMA-3	SS054	04-AUG-2005	WT	UF	GU05080K05401						79.6		
P-SMA-3	SS054	07-SEP-2005	WT	F	GF05090K05401		23.1						
P-SMA-3	SS054	07-SEP-2005	WT	UF	GU05090K05401								
P-SMA-3	SS054	22-AUG-2005	WT	F	GF05080K05402						59.1		
P-SMA-3	SS054	22-AUG-2005	WT	UF	GU05080K05403						182		
P-SMA-3	SS054	24-AUG-2005	WT	F	GF05080K05403		17.7				51.9		
P-SMA-3	SS054	24-AUG-2005	WT	UF	GU05080K05404						193		
P-SMA-3	SS054	25-APR-2005	WT	F	GF05040K05401						36.4		
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401								
P-SMA-3	SS054	25-APR-2005	WT	UF	GU05040K05401		30.2				140		
R-SMA-1	SS00	03-MAY-2005	WT	F	GF050500K0001						60.4		
R-SMA-1	SS00	03-MAY-2005	WT	UF	GU050500K0001		8.95				138		
R-SMA-1	SS00	12-AUG-2005	WT	F	GF050800K0001		19.2				19.7		
R-SMA-1	SS00	12-AUG-2005	WT	UF	GU050800K0001						37.8		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
R-SMA-1	SS00	24-AUG-2005	WT	F	GF050800K0002		5.64		3.21		0.793		11.1								
R-SMA-1	SS00	24-AUG-2005	WT	UF	GU050800K0002		10.8		9.42		6.12		12.7	<	1.45		28.2				
R-SMA-1	SS00	29-SEP-2005	WT	F	GF050900K0001		7.79		3.78		1.22		19.7								
R-SMA-1	SS00	29-SEP-2005	WT	UF	GU050900K0001		9.45		6.06		2.91		22.2	<	1.45		39.1				
S-SMA-1	K1222	03-MAY-2005	WT	F	GF0505K122201		12.8		20.9		1.42		125								
S-SMA-1	K1222	03-MAY-2005	WT	UF	GU0505K122201		353		62.6		79.7		116								
S-SMA-1	K1222	11-AUG-2005	WT	F	GF0508K122201		12.6		10.8		1.18		77.9								
S-SMA-1	K1222	11-AUG-2005	WT	UF	GU0508K122201		109		21.7		17		79.5								
S-SMA-1	K1222	24-AUG-2005	WT	F	GF0508K122202																
S-SMA-1	K1222	24-AUG-2005	WT	UF	GU0508K122202									<	1.45		34.9				
S-SMA-1	K1222	25-AUG-2005	WT	F	GF0508K122203		12.4		7.49		1.24		45.3								
S-SMA-1	K1222	25-AUG-2005	WT	UF	GU0508K122203		67.2		17.5		19.7		38.1	<	1.45		69.1				
S-SMA-1	K1222	28-SEP-2005	WT	F	GF0509K122201		7.27		4.02		0.717		20.6								
S-SMA-1	K1222	28-SEP-2005	WT	UF	GU0509K122201		154		25.3		37		36.5	<	1.45		40.1				
S-SMA-2	E121	04-AUG-2005	WT	F	GF05080E12101		7.1		3.4		0.88		13.5				30.2				
S-SMA-2	E121	04-AUG-2005	WT	UF	GU05080E12101		16.8		10.2		7.99		10.5								
S-SMA-2	E121	15-JUL-2005	WT	F	GF05070E12101		7.16		3.43		0.761		9.3	<	1.45		20.5				
S-SMA-2	E121	15-JUL-2005	WT	UF	GU05070E12101		23.1		4.61		3.07		7.78								
S-SMA-2	E121	16-APR-2005	WT	F	GF05040E12101		7.45		5.42		0.988		33.4	<	1.45		35.1		35		
S-SMA-2	E121	16-APR-2005	WT	UF	GU05040E12101		9.6		8.28		3.71		19.8								
S-SMA-2	E121	20-JUL-2005	WT	F	GF05070E12102		11.7		6.82		2.18		31				44.3				
S-SMA-2	E121	20-JUL-2005	WT	UF	GU05070E12102		15.9		11.2		6.07		30.3								
S-SMA-3.5	SS12293	05-AUG-2005	WT	F	GF05081229301		5.7		4.54		0.914		11.7								
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	GU05081229301		15.1		14.4		11.1		12.3								
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	GU05081229302																
S-SMA-3.5	SS12293	15-JUL-2005	WT	F	GF05071229301		18.2		14		2.47		8.2								
S-SMA-3.5	SS12293	15-JUL-2005	WT	UF	GU05071229301		57.1		20.3		10.5		7.68								
S-SMA-3.5	SS12293	22-AUG-2005	WT	F	GF05081229302		4.44		2.51		0.756		9.57								
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	GU05081229303		31.3		21.9		22.3		14.3								
S-SMA-3.5	SS12293	24-AUG-2005	WT	F	GF05081229303		6.24		2.76		0.78		6.71								
S-SMA-3.5	SS12293	24-AUG-2005	WT	UF	GU05081229304		29.2		13.6		11.3		8.82	<	1.45		37.2				
S-SMA-3.5	SS12293	25-AUG-2005	WT	UF	GU05081229305									<	1.45		49.6				
S-SMA-3.5	SS12293	30-SEP-2005	WT	F	GF05101229301																
S-SMA-3.9	SS1235	12-AUG-2005	WT	F	GF0508K123501		2.53		9.6		0.232		1.26								
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	GU0508K123501		6.38		12.8		1.96		2.68	<	1.45		14.6				
S-SMA-3.9	SS1235	22-AUG-2005	WT	F	GF0508K123502		3.88		8.41		0.364		1.48								
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	GU0508K123502		5.66		13.3		0.758		2.04	<	1.45		28.2				
S-SMA-3.9	SS1235	25-APR-2005	WT	F	GF0504K123501		3.82		2		0.153		4.21								
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501																
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501		43.2		12.5		15		8.68	<	1.45		22.3		22.3		
S-SMA-3.9	SS1235	28-SEP-2005	WT	F	GF0509K123501		4.54		3.08		0.336		1.73								
S-SMA-3.9	SS1235	28-SEP-2005	WT	UF	GU0509K123501		6.62		5.29		1.73		2.71								
S-SMA-4	SS1238	03-MAY-2005	WT	UF	GU0505K123801									<	1.45		31.9		31.9		
S-SMA-4	SS1238	04-AUG-2005	WT	F	GF0508K123801																
S-SMA-4	SS1238	04-AUG-2005	WT	UF	GU0508K123801									<	1.45		42.1				
S-SMA-4	SS1238	22-AUG-2005	WT	F	GF0508K123802																

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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M)		EPA:335.3		EPA:335.3		SW-846:9012A		EPA:350.1		EPA:410.4	
						ClO4		CN (amen)		CN(Total)		CN(Total)		NH3-N		COD	
						ug/L		mg/L		mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
R-SMA-1	SS00	24-AUG-2005	WT	F	GF050800K0002												
R-SMA-1	SS00	24-AUG-2005	WT	UF	GU050800K0002					<	0.0025				0.124		136
R-SMA-1	SS00	29-SEP-2005	WT	F	GF050900K0001												
R-SMA-1	SS00	29-SEP-2005	WT	UF	GU050900K0001					<	0.0025				0.104		75.6
S-SMA-1	K1222	03-MAY-2005	WT	F	GF0505K122201												
S-SMA-1	K1222	03-MAY-2005	WT	UF	GU0505K122201												
S-SMA-1	K1222	11-AUG-2005	WT	F	GF0508K122201												
S-SMA-1	K1222	11-AUG-2005	WT	UF	GU0508K122201												
S-SMA-1	K1222	24-AUG-2005	WT	F	GF0508K122202												
S-SMA-1	K1222	24-AUG-2005	WT	UF	GU0508K122202												
S-SMA-1	K1222	25-AUG-2005	WT	F	GF0508K122203												
S-SMA-1	K1222	25-AUG-2005	WT	UF	GU0508K122203												
S-SMA-1	K1222	28-SEP-2005	WT	F	GF0509K122201												
S-SMA-1	K1222	28-SEP-2005	WT	UF	GU0509K122201												
S-SMA-2	E121	04-AUG-2005	WT	F	GF05080E12101												
S-SMA-2	E121	04-AUG-2005	WT	UF	GU05080E12101												
S-SMA-2	E121	15-JUL-2005	WT	F	GF05070E12101												
S-SMA-2	E121	15-JUL-2005	WT	UF	GU05070E12101												
S-SMA-2	E121	16-APR-2005	WT	F	GF05040E12101												
S-SMA-2	E121	16-APR-2005	WT	UF	GU05040E12101												
S-SMA-2	E121	20-JUL-2005	WT	F	GF05070E12102												
S-SMA-2	E121	20-JUL-2005	WT	UF	GU05070E12102												
S-SMA-3.5	SS12293	05-AUG-2005	WT	F	GF05081229301												
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	GU05081229301												
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	GU05081229302					<	0.0025				0.222		164
S-SMA-3.5	SS12293	15-JUL-2005	WT	F	GF05071229301												
S-SMA-3.5	SS12293	15-JUL-2005	WT	UF	GU05071229301												
S-SMA-3.5	SS12293	22-AUG-2005	WT	F	GF05081229302												
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	GU05081229303												
S-SMA-3.5	SS12293	24-AUG-2005	WT	F	GF05081229303												
S-SMA-3.5	SS12293	24-AUG-2005	WT	UF	GU05081229304						0.00377				0.274		157
S-SMA-3.5	SS12293	25-AUG-2005	WT	UF	GU05081229305						0.00482				0.295		140
S-SMA-3.5	SS12293	30-SEP-2005	WT	F	GF05101229301												
S-SMA-3.9	SS1235	12-AUG-2005	WT	F	GF0508K123501												
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	GU0508K123501					<	0.00619				0.129	<	40.9
S-SMA-3.9	SS1235	22-AUG-2005	WT	F	GF0508K123502												
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	GU0508K123502						0.004				0.083		35.4
S-SMA-3.9	SS1235	25-APR-2005	WT	F	GF0504K123501												
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501												
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501								0.00868		0.199	<	39.1
S-SMA-3.9	SS1235	28-SEP-2005	WT	F	GF0509K123501												
S-SMA-3.9	SS1235	28-SEP-2005	WT	UF	GU0509K123501					<	0.0025				0.36		91
S-SMA-4	SS1238	03-MAY-2005	WT	UF	GU0505K123801												
S-SMA-4	SS1238	04-AUG-2005	WT	F	GF0508K123801												
S-SMA-4	SS1238	04-AUG-2005	WT	UF	GU0508K123801												
S-SMA-4	SS1238	22-AUG-2005	WT	F	GF0508K123802												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
R-SMA-1	SS00	24-AUG-2005	WT	F	GF050800K0002		11.2				17.3		
R-SMA-1	SS00	24-AUG-2005	WT	UF	GU050800K0002						52.3		
R-SMA-1	SS00	29-SEP-2005	WT	F	GF050900K0001		14.1				24.5		
R-SMA-1	SS00	29-SEP-2005	WT	UF	GU050900K0001						35.6		
S-SMA-1	K1222	03-MAY-2005	WT	F	GF0505K122201						37.7		
S-SMA-1	K1222	03-MAY-2005	WT	UF	GU0505K122201						1210		
S-SMA-1	K1222	11-AUG-2005	WT	F	GF0508K122201						36.3		
S-SMA-1	K1222	11-AUG-2005	WT	UF	GU0508K122201						342		
S-SMA-1	K1222	24-AUG-2005	WT	F	GF0508K122202		7.93						
S-SMA-1	K1222	24-AUG-2005	WT	UF	GU0508K122202								
S-SMA-1	K1222	25-AUG-2005	WT	F	GF0508K122203		21.2				36.1		
S-SMA-1	K1222	25-AUG-2005	WT	UF	GU0508K122203						249		
S-SMA-1	K1222	28-SEP-2005	WT	F	GF0509K122201		6.93				21.1		
S-SMA-1	K1222	28-SEP-2005	WT	UF	GU0509K122201						537		
S-SMA-2	E121	04-AUG-2005	WT	F	GF05080E12101		8.35				21.3		
S-SMA-2	E121	04-AUG-2005	WT	UF	GU05080E12101						74.9		
S-SMA-2	E121	15-JUL-2005	WT	F	GF05070E12101		6.84				21		
S-SMA-2	E121	15-JUL-2005	WT	UF	GU05070E12101						70.4		
S-SMA-2	E121	16-APR-2005	WT	F	GF05040E12101		12.3				22.7		
S-SMA-2	E121	16-APR-2005	WT	UF	GU05040E12101						39.3		
S-SMA-2	E121	20-JUL-2005	WT	F	GF05070E12102		11.8				38.2		
S-SMA-2	E121	20-JUL-2005	WT	UF	GU05070E12102						64.7		
S-SMA-3.5	SS12293	05-AUG-2005	WT	F	GF05081229301						18		
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	GU05081229301						83.5		
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	GU05081229302								
S-SMA-3.5	SS12293	15-JUL-2005	WT	F	GF05071229301						55.6		
S-SMA-3.5	SS12293	15-JUL-2005	WT	UF	GU05071229301						186		
S-SMA-3.5	SS12293	22-AUG-2005	WT	F	GF05081229302						14.2		
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	GU05081229303						170		
S-SMA-3.5	SS12293	24-AUG-2005	WT	F	GF05081229303		16.3				18.8		
S-SMA-3.5	SS12293	24-AUG-2005	WT	UF	GU05081229304						120		
S-SMA-3.5	SS12293	25-AUG-2005	WT	UF	GU05081229305								
S-SMA-3.5	SS12293	30-SEP-2005	WT	F	GF05101229301		9.36						
S-SMA-3.9	SS1235	12-AUG-2005	WT	F	GF0508K123501		13				7.3		
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	GU0508K123501						24		
S-SMA-3.9	SS1235	22-AUG-2005	WT	F	GF0508K123502		11.4				11.2		
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	GU0508K123502						17.3		
S-SMA-3.9	SS1235	25-APR-2005	WT	F	GF0504K123501						10.2		
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501								
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	GU0504K123501		5.42				170		
S-SMA-3.9	SS1235	28-SEP-2005	WT	F	GF0509K123501						12.7		
S-SMA-3.9	SS1235	28-SEP-2005	WT	UF	GU0509K123501						23.7		
S-SMA-4	SS1238	03-MAY-2005	WT	UF	GU0505K123801		6.25						
S-SMA-4	SS1238	04-AUG-2005	WT	F	GF0508K123801		19.3						
S-SMA-4	SS1238	04-AUG-2005	WT	UF	GU0508K123801								
S-SMA-4	SS1238	22-AUG-2005	WT	F	GF0508K123802		6.87						

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Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
S-SMA-4	SS1238	22-AUG-2005	WT	UF	GU0508K123802									<	1.45		22.5				
S-SMA-4	SS1238	24-AUG-2005	WT	F	GF0508K123803																
S-SMA-4	SS1238	24-AUG-2005	WT	UF	GU0508K123803									<	1.45		37.2				
S-SMA-5	SS1245	25-AUG-2005	WT	F	GF0508K124501		11.6		7.32		2.53		28.4								
S-SMA-5	SS1245	25-AUG-2005	WT	UF	GU0508K124501		131		112		126		49.9								
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124801		6.38		4.62		1.35		15.5								
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124802																
S-SMA-6	SS1248	29-SEP-2005	WT	UF	GU0510K124801		20.3		19.8		12.1		1010	<	1.45		37.1				
T-SMA-1	E201.3	12-AUG-2005	WT	UF	GU0508E201301		7.27		5.65		2.47		4.3								
T-SMA-1	E201.3	22-AUG-2005	WT	F	GF0508E201301		5.04		2.62		0.48		3.24				12.4				
T-SMA-1	E201.3	22-SEP-2005	WT	F	GF0509E201301		6.86		4.04		0.508		3.36								
T-SMA-1	E201.3	22-SEP-2005	WT	UF	GU0509E201301		9.31		7.09		2.2		4.33								
T-SMA-1	E201.3	24-AUG-2005	WT	F	GF0508E201302		3.21		3.07		0.348		2.83				21.4				
T-SMA-1	E201.3	24-AUG-2005	WT	UF	GU0508E201303		14.2		10.9		6.53		4.02								
T-SMA-1	E201.3	25-AUG-2005	WT	F	GF0508E201303		6.3		4.79		0.484		5.19								
T-SMA-1	E201.3	25-AUG-2005	WT	UF	GU0508E201304		10.4		9.32		3.42		6.36								
T-SMA-1	E201.3	28-SEP-2005	WT	F	GF0509E201302																
T-SMA-3	SS20134	04-AUG-2005	WT	F	GF05082013401		11.8		6.23		1.87		3.97								
T-SMA-3	SS20134	04-AUG-2005	WT	UF	GU05082013401		26.5		13.5		6.64		7.14	<	1.45		8.64				
T-SMA-3	SS20134	12-AUG-2005	WT	F	GF05082013402		7.71		2.07		1.21		1.77								
T-SMA-3	SS20134	12-AUG-2005	WT	UF	GU05082013402		18.4		11.5		8.98		3.97	<	1.45		25.9				
T-SMA-3	SS20134	15-JUL-2005	WT	F	GF05072013401		18.7		11.7		3.13		10.2								
T-SMA-3	SS20134	15-JUL-2005	WT	UF	GU05072013401		7.76		4.88		1.42		3.49	<	1.45		17.3				
T-SMA-3	SS20134	25-AUG-2005	WT	F	GF05082013403		3.84		1.46		0.65		1.06								
T-SMA-3	SS20134	25-AUG-2005	WT	UF	GU05082013403		7.14		2.4		1.43		1.88								
T-SMA-4	SS20136	12-AUG-2005	WT	F	GF05082013601		2.97		4.63		0.621		4.11								
T-SMA-4	SS20136	15-JUL-2005	WT	F	GF05072013601		5.92		6.63		0.91		6.23								
T-SMA-4	SS20136	15-JUL-2005	WT	UF	GU05072013601		6.33		7.8		2		6.82	<	1.45		22.7				
T-SMA-5	SS20138	03-OCT-2005	WT	F	GF05102013801		2.23		4.1		0.524		0.261								
T-SMA-5	SS20138	03-OCT-2005	WT	UF	GU05102013801		7.3		9.46		4.57		1.87	<	1.45		7.02				
T-SMA-5	SS20138	24-AUG-2005	WT	F	GF05082013801		2.79		2.92		0.519		0.259								
T-SMA-5	SS20138	24-AUG-2005	WT	UF	GU05082013801		3.42		5.27		1.86		0.96	<	1.45		9.01				
T-SMA-6	SS20140	03-OCT-2005	WT	F	GF05102014001		3.6		2.5		0.676		0.967								
T-SMA-6	SS20140	03-OCT-2005	WT	UF	GU05102014001		20.2		14.1		12.8		2.64								
T-SMA-6	SS20140	24-AUG-2005	WT	F	GF05082014001		7.36		3.44		1.14		1.09								
T-SMA-6	SS20140	24-AUG-2005	WT	UF	GU05082014001		29.5		24.5		23.5		3.73	<	1.45		22.5				
W-SMA-1	SS25203	03-MAY-2005	WT	F	GF0505K252001		4.87		4.63		0.882		39.6								
W-SMA-1	SS25203	03-MAY-2005	WT	UF	GU0505K252001		7.76		8.06		3.26		41.6	<	1.45		29.8		29.8		
W-SMA-1	SS25203	04-AUG-2005	WT	F	GF05082520301		2.99		4.59		0.53		6.21								
W-SMA-1	SS25203	04-AUG-2005	WT	UF	GU05082520301		5.49		8.01		2.62		6.94	<	1.45		10.8				
W-SMA-1	SS25203	15-JUL-2005	WT	F	GF05072520301		7.3		4.26		0.775		7.07								
W-SMA-1	SS25203	15-JUL-2005	WT	UF	GU05072520301		8.79		5.62		1.26		7.18	<	1.45		23.7				
W-SMA-1	SS25203	27-MAY-2005	WT	F	GF05052520301		4.35		3.47		0.62		14.8								
W-SMA-1	SS25203	27-MAY-2005	WT	UF	GU05052520301		9.46		9.96		5.26		16.9	<	1.45		15		15		
W-SMA-2	SS25205	04-AUG-2005	WT	F	GF05082520501		2.84		4.3		0.566		3.71								
W-SMA-2	SS25205	04-AUG-2005	WT	UF	GU05082520501		11.4		12.1		7.79		4.04	<	1.45		8.64				

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
S-SMA-4	SS1238	22-AUG-2005	WT	UF	GU0508K123802												
S-SMA-4	SS1238	24-AUG-2005	WT	F	GF0508K123803												
S-SMA-4	SS1238	24-AUG-2005	WT	UF	GU0508K123803												
S-SMA-5	SS1245	25-AUG-2005	WT	F	GF0508K124501												
S-SMA-5	SS1245	25-AUG-2005	WT	UF	GU0508K124501					<	0.0025				0.255		298
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124801												
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124802												
S-SMA-6	SS1248	29-SEP-2005	WT	UF	GU0510K124801					<	0.0025				0.578		85.2
T-SMA-1	E201.3	12-AUG-2005	WT	UF	GU0508E201301												
T-SMA-1	E201.3	22-AUG-2005	WT	F	GF0508E201301												
T-SMA-1	E201.3	22-SEP-2005	WT	F	GF0509E201301												
T-SMA-1	E201.3	22-SEP-2005	WT	UF	GU0509E201301												
T-SMA-1	E201.3	24-AUG-2005	WT	F	GF0508E201302												
T-SMA-1	E201.3	24-AUG-2005	WT	UF	GU0508E201303												
T-SMA-1	E201.3	25-AUG-2005	WT	F	GF0508E201303												
T-SMA-1	E201.3	25-AUG-2005	WT	UF	GU0508E201304												
T-SMA-1	E201.3	28-SEP-2005	WT	F	GF0509E201302												
T-SMA-3	SS20134	04-AUG-2005	WT	F	GF05082013401												
T-SMA-3	SS20134	04-AUG-2005	WT	UF	GU05082013401												
T-SMA-3	SS20134	12-AUG-2005	WT	F	GF05082013402												
T-SMA-3	SS20134	12-AUG-2005	WT	UF	GU05082013402												
T-SMA-3	SS20134	15-JUL-2005	WT	F	GF05072013401												
T-SMA-3	SS20134	15-JUL-2005	WT	UF	GU05072013401												
T-SMA-3	SS20134	25-AUG-2005	WT	F	GF05082013403												
T-SMA-3	SS20134	25-AUG-2005	WT	UF	GU05082013403												
T-SMA-4	SS20136	12-AUG-2005	WT	F	GF05082013601												
T-SMA-4	SS20136	15-JUL-2005	WT	F	GF05072013601												
T-SMA-4	SS20136	15-JUL-2005	WT	UF	GU05072013601						0.00257				0.228		96
T-SMA-5	SS20138	03-OCT-2005	WT	F	GF05102013801												
T-SMA-5	SS20138	03-OCT-2005	WT	UF	GU05102013801					<	0.0025				0.354		79.3
T-SMA-5	SS20138	24-AUG-2005	WT	F	GF05082013801												
T-SMA-5	SS20138	24-AUG-2005	WT	UF	GU05082013801					<	0.0025				0.144		61
T-SMA-6	SS20140	03-OCT-2005	WT	F	GF05102014001												
T-SMA-6	SS20140	03-OCT-2005	WT	UF	GU05102014001					<	0.0025				0.204		148
T-SMA-6	SS20140	24-AUG-2005	WT	F	GF05082014001												
T-SMA-6	SS20140	24-AUG-2005	WT	UF	GU05082014001						0.00457				0.222		86
W-SMA-1	SS25203	03-MAY-2005	WT	F	GF0505K252001												
W-SMA-1	SS25203	03-MAY-2005	WT	UF	GU0505K252001							<	0.00441		0.103		112
W-SMA-1	SS25203	04-AUG-2005	WT	F	GF05082520301												
W-SMA-1	SS25203	04-AUG-2005	WT	UF	GU05082520301					<	0.0025				0.137		88.4
W-SMA-1	SS25203	15-JUL-2005	WT	F	GF05072520301												
W-SMA-1	SS25203	15-JUL-2005	WT	UF	GU05072520301							<	0.0025		1.03		101
W-SMA-1	SS25203	27-MAY-2005	WT	F	GF05052520301												
W-SMA-1	SS25203	27-MAY-2005	WT	UF	GU05052520301							<	0.0025				
W-SMA-2	SS25205	04-AUG-2005	WT	F	GF05082520501												
W-SMA-2	SS25205	04-AUG-2005	WT	UF	GU05082520501					<	0.0025				0.237		197

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1 DOC mg/L		EPA:415.1 TOC mg/L		SM:A2340B Hardness mg/L		EPA:160.2 TSS mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
S-SMA-4	SS1238	22-AUG-2005	WT	UF	GU0508K123802								
S-SMA-4	SS1238	24-AUG-2005	WT	F	GF0508K123803		6.01						
S-SMA-4	SS1238	24-AUG-2005	WT	UF	GU0508K123803								
S-SMA-5	SS1245	25-AUG-2005	WT	F	GF0508K124501		14.7				39.3		
S-SMA-5	SS1245	25-AUG-2005	WT	UF	GU0508K124501						847		
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124801		8.36				21.5		
S-SMA-6	SS1248	29-SEP-2005	WT	F	GF0510K124802		12.5						
S-SMA-6	SS1248	29-SEP-2005	WT	UF	GU0510K124801						101		
T-SMA-1	E201.3	12-AUG-2005	WT	UF	GU0508E201301						28.3		
T-SMA-1	E201.3	22-AUG-2005	WT	F	GF0508E201301		7.73				14.5		
T-SMA-1	E201.3	22-SEP-2005	WT	F	GF0509E201301						19.2		
T-SMA-1	E201.3	22-SEP-2005	WT	UF	GU0509E201301						32.3		
T-SMA-1	E201.3	24-AUG-2005	WT	F	GF0508E201302						9.4		
T-SMA-1	E201.3	24-AUG-2005	WT	UF	GU0508E201303						62.3		
T-SMA-1	E201.3	25-AUG-2005	WT	F	GF0508E201303		8.63				17.7		
T-SMA-1	E201.3	25-AUG-2005	WT	UF	GU0508E201304						40.1		
T-SMA-1	E201.3	28-SEP-2005	WT	F	GF0509E201302		6.8						
T-SMA-3	SS20134	04-AUG-2005	WT	F	GF05082013401		20				37.1		
T-SMA-3	SS20134	04-AUG-2005	WT	UF	GU05082013401						93.4		
T-SMA-3	SS20134	12-AUG-2005	WT	F	GF05082013402		15.5				24.2		
T-SMA-3	SS20134	12-AUG-2005	WT	UF	GU05082013402						82.9		
T-SMA-3	SS20134	15-JUL-2005	WT	F	GF05072013401		90.3				59.5		
T-SMA-3	SS20134	15-JUL-2005	WT	UF	GU05072013401						25.2		
T-SMA-3	SS20134	25-AUG-2005	WT	F	GF05082013403						12.3		
T-SMA-3	SS20134	25-AUG-2005	WT	UF	GU05082013403						23.7		
T-SMA-4	SS20136	12-AUG-2005	WT	F	GF05082013601						10		
T-SMA-4	SS20136	15-JUL-2005	WT	F	GF05072013601						18.5		
T-SMA-4	SS20136	15-JUL-2005	WT	UF	GU05072013601						24		
T-SMA-5	SS20138	03-OCT-2005	WT	F	GF05102013801						7.7		
T-SMA-5	SS20138	03-OCT-2005	WT	UF	GU05102013801						37.1		
T-SMA-5	SS20138	24-AUG-2005	WT	F	GF05082013801						9.1		
T-SMA-5	SS20138	24-AUG-2005	WT	UF	GU05082013801						16.2		
T-SMA-6	SS20140	03-OCT-2005	WT	F	GF05102014001		7.9				11.8		
T-SMA-6	SS20140	03-OCT-2005	WT	UF	GU05102014001						103		
T-SMA-6	SS20140	24-AUG-2005	WT	F	GF05082014001		11.9				23.1		
T-SMA-6	SS20140	24-AUG-2005	WT	UF	GU05082014001						171		
W-SMA-1	SS25203	03-MAY-2005	WT	F	GF0505K252001						15.8		
W-SMA-1	SS25203	03-MAY-2005	WT	UF	GU0505K252001		10.4				32.8		
W-SMA-1	SS25203	04-AUG-2005	WT	F	GF05082520301		9.36				9.7		
W-SMA-1	SS25203	04-AUG-2005	WT	UF	GU05082520301						24.5		
W-SMA-1	SS25203	15-JUL-2005	WT	F	GF05072520301		8.94				21.4		
W-SMA-1	SS25203	15-JUL-2005	WT	UF	GU05072520301						27.1		
W-SMA-1	SS25203	27-MAY-2005	WT	F	GF05052520301		10.5				13.3		
W-SMA-1	SS25203	27-MAY-2005	WT	UF	GU05052520301						41.7		
W-SMA-2	SS25205	04-AUG-2005	WT	F	GF05082520501		24.9				9.4		
W-SMA-2	SS25205	04-AUG-2005	WT	UF	GU05082520501						60.7		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7		EPA:200.7		EPA:200.7		EPA:200.7		EPA:310.1		EPA:310.1		EPA:310.1		EPA:314.0	
						Ca		K		Mg		Na		ALK-CO3		ALK-CO3+HCO3		ALK-HCO3		ClO4	
						mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-2	SS25205	11-AUG-2005	WT	F	GF05082520502		1.61		2.59		0.452		4.7								
W-SMA-2	SS25205	11-AUG-2005	WT	UF	GU05082520502		4.97		6.98		3.53		6.26				13.5				
W-SMA-2	SS25205	15-JUL-2005	WT	F	GF05072520501		2.75		4.13		0.609		5.84								
W-SMA-2	SS25205	15-JUL-2005	WT	UF	GU05072520501		10.2		12.5		7.54		6.19	<	1.45		14				
W-SMA-2	SS25205	27-MAY-2005	WT	F	GF05052520501		2.74		3.17		0.647		8.07								
W-SMA-2	SS25205	27-MAY-2005	WT	UF	GU05052520501		7.83		9.18		4.71		10.4	<	1.45		11.8		11.8		
W-SMA-4	E252.8	12-AUG-2005	WT	F	GF0508E252801		6.48		5.12		1.73		5.83				18				
W-SMA-4	E252.8	12-AUG-2005	WT	UF	GU0508E252801		9.04		8.31		3.32		6.92								
W-SMA-4	E252.8	24-AUG-2005	WT	F	GF0508E252802		6.41		4.46		1.64		4.55				18				
W-SMA-4	E252.8	24-AUG-2005	WT	UF	GU0508E252802		40		28.3		24.7		7.91								
W-SMA-5	SS2528	04-AUG-2005	WT	F	GF0508K252801		6.75		1.34		0.671		2.83								
W-SMA-5	SS2528	04-AUG-2005	WT	UF	GU0508K252801		7.74		1.65		0.863		3.7	<	1.45		8.64				
W-SMA-5	SS2528	04-SEP-2005	WT	F	GF0509K252801																
W-SMA-5	SS2528	11-AUG-2005	WT	F	GF0508K252802		4.48		0.873		0.432		1.85								
W-SMA-5	SS2528	11-AUG-2005	WT	UF	GU0508K252802		3.83		0.775		0.372		1.4				6.76				
W-SMA-5	SS2528	15-JUL-2005	WT	F	GF0507K252801		5.82		1.23		0.543		2.04								
W-SMA-5	SS2528	15-JUL-2005	WT	UF	GU0507K252801		5.67		1.28		0.662		1.71	<	1.45		10.8				
W-SMA-5	SS2528	28-SEP-2005	WT	F	GF0510K252801		2.84		0.715		0.289		1.76								
W-SMA-5	SS2528	28-SEP-2005	WT	UF	GU0510K252801		3.77		1.71		0.643		2.18	<	1.45		4.01				
W-SMA-7	SS25243	05-AUG-2005	WT	F	GF05082524301		4.22		6.38		0.897		0.586								
W-SMA-7	SS25243	05-AUG-2005	WT	UF	GU05082524301		8.08		12.5		3.58		2.49	<	1.45		16.2				
W-SMA-7	SS25243	12-AUG-2005	WT	F	GF05082524302		4.06		4.77		0.904		1.22								
W-SMA-7	SS25243	12-AUG-2005	WT	UF	GU05082524302		5.33		6.78		1.57		1.98	<	1.45		18				
W-SMA-7	SS25243	24-AUG-2005	WT	F	GF05082524303		2.42		3.26		0.73		1.04								
W-SMA-7	SS25243	24-AUG-2005	WT	UF	GU05082524303		18.1		21		10.8		5.15	<	1.45		11.3				
W-SMA-7	SS25243	27-MAY-2005	WT	F	GF05062524301		3.23		3.21		0.818		0.534								
W-SMA-7	SS25243	27-MAY-2005	WT	UF	GU05062524301		9.66		11.1		5.1		2.52	<	1.45		8.58		8.58		
W-SMA-8	SS2523	04-AUG-2005	WT	F	GF0508K252301		8.78		4.53		1.43		4.08								
W-SMA-8	SS2523	04-AUG-2005	WT	UF	GU0508K252301		16.6		12.7		7.32		3.33	<	1.45		11.9				
W-SMA-8	SS2523	04-OCT-2005	WT	F	GF0510K252301		12.2		3.76		2.61		12.4								
W-SMA-8	SS2523	04-OCT-2005	WT	UF	GU0510K252301		12.2		3.81		2.64		11.9	<	1.45		47.1				
W-SMA-8	SS2523	12-AUG-2005	WT	F	GF0508K252302		9.07		3.57		1.6		6.5								
W-SMA-8	SS2523	12-AUG-2005	WT	UF	GU0508K252302		10.5		4.55		2.33		7.93	<	1.45		31.5				
W-SMA-8	SS2523	24-AUG-2005	WT	F	GF0508K252303		7.09		3.38		1.89		9.71								
W-SMA-8	SS2523	24-AUG-2005	WT	UF	GU0508K252303		14.4		7.33		4.99		10.6	<	1.45		20.3				
W-SMA-10	SS25245	04-AUG-2005	WT	F	GF05082524501		3.97		4.36		0.941		0.366								
W-SMA-10	SS25245	04-AUG-2005	WT	UF	GU05082524501		8.52		12.4		5.7		4.56	<	1.45		8.64				
W-SMA-10	SS25245	12-AUG-2005	WT	F	GF05082524502		2.49		2.52		0.694		0.563								
W-SMA-10	SS25245	12-AUG-2005	WT	UF	GU05082524502		3.21		4.41		1.9		1	<	1.45		13.5				
W-SMA-10	SS25245	24-AUG-2005	WT	F	GF05082524503		2.09		2.16		0.685	<	0.299								
W-SMA-10	SS25245	24-AUG-2005	WT	UF	GU05082524503		8.26		11.1		6.41		3.53	<	1.45		5.63				
W-SMA-10	SS25245	29-SEP-2005	WT	F	GF05102524501		2.87		2.74		0.901		0.333								
W-SMA-10	SS25245	29-SEP-2005	WT	UF	GU05102524501		3.89		5.35		1.86		1.63	<	1.45		7.02				
W-SMA-11	SS2529	04-AUG-2005	WT	F	GF0508K252901		5.17		6.37		1.22		1.16								
W-SMA-11	SS2529	04-AUG-2005	WT	UF	GU0508K252901		4.89		6.71		1.85		1.4	<	1.45		8.64				
W-SMA-11	SS2529	12-AUG-2005	WT	F	GF0508K252902		1.95		3.21		0.479		0.327								

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M) ClO4 ug/L		EPA:335.3 CN (amen) mg/L		EPA:335.3 CN(Total) mg/L		SW-846:9012A CN(Total) mg/L		EPA:350.1 NH3-N mg/L		EPA:410.4 COD mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-2	SS25205	11-AUG-2005	WT	F	GF05082520502												
W-SMA-2	SS25205	11-AUG-2005	WT	UF	GU05082520502					<	0.0025				0.135		59.2
W-SMA-2	SS25205	15-JUL-2005	WT	F	GF05072520501												
W-SMA-2	SS25205	15-JUL-2005	WT	UF	GU05072520501					<	0.0025				0.207		94.3
W-SMA-2	SS25205	27-MAY-2005	WT	F	GF05052520501												
W-SMA-2	SS25205	27-MAY-2005	WT	UF	GU05052520501							<	0.0025		0.186		150
W-SMA-4	E252.8	12-AUG-2005	WT	F	GF0508E252801												
W-SMA-4	E252.8	12-AUG-2005	WT	UF	GU0508E252801												
W-SMA-4	E252.8	24-AUG-2005	WT	F	GF0508E252802												
W-SMA-4	E252.8	24-AUG-2005	WT	UF	GU0508E252802												
W-SMA-5	SS2528	04-AUG-2005	WT	F	GF0508K252801												
W-SMA-5	SS2528	04-AUG-2005	WT	UF	GU0508K252801					<	0.0025				0.212	<	64.5
W-SMA-5	SS2528	04-SEP-2005	WT	F	GF0509K252801												
W-SMA-5	SS2528	11-AUG-2005	WT	F	GF0508K252802												
W-SMA-5	SS2528	11-AUG-2005	WT	UF	GU0508K252802										0.227	<	48.9
W-SMA-5	SS2528	15-JUL-2005	WT	F	GF0507K252801												
W-SMA-5	SS2528	15-JUL-2005	WT	UF	GU0507K252801							<	0.0025		0.267		80.2
W-SMA-5	SS2528	28-SEP-2005	WT	F	GF0510K252801												
W-SMA-5	SS2528	28-SEP-2005	WT	UF	GU0510K252801										0.221	<	51.8
W-SMA-7	SS25243	05-AUG-2005	WT	F	GF05082524301												
W-SMA-7	SS25243	05-AUG-2005	WT	UF	GU05082524301					<	0.0125				0.416		134
W-SMA-7	SS25243	12-AUG-2005	WT	F	GF05082524302												
W-SMA-7	SS25243	12-AUG-2005	WT	UF	GU05082524302					<	0.0127				0.152		84.4
W-SMA-7	SS25243	24-AUG-2005	WT	F	GF05082524303												
W-SMA-7	SS25243	24-AUG-2005	WT	UF	GU05082524303						0.00487				0.626		89.9
W-SMA-7	SS25243	27-MAY-2005	WT	F	GF05062524301												
W-SMA-7	SS25243	27-MAY-2005	WT	UF	GU05062524301								0.00253		0.213		296
W-SMA-8	SS2523	04-AUG-2005	WT	F	GF0508K252301												
W-SMA-8	SS2523	04-AUG-2005	WT	UF	GU0508K252301					<	0.0025				0.302		301
W-SMA-8	SS2523	04-OCT-2005	WT	F	GF0510K252301												
W-SMA-8	SS2523	04-OCT-2005	WT	UF	GU0510K252301					<	0.0025			<	0.091	<	23.1
W-SMA-8	SS2523	12-AUG-2005	WT	F	GF0508K252302												
W-SMA-8	SS2523	12-AUG-2005	WT	UF	GU0508K252302					<	0.0025				0.112		61.8
W-SMA-8	SS2523	24-AUG-2005	WT	F	GF0508K252303												
W-SMA-8	SS2523	24-AUG-2005	WT	UF	GU0508K252303										0.153		121
W-SMA-10	SS25245	04-AUG-2005	WT	F	GF05082524501												
W-SMA-10	SS25245	04-AUG-2005	WT	UF	GU05082524501					<	0.0025				0.455		132
W-SMA-10	SS25245	12-AUG-2005	WT	F	GF05082524502												
W-SMA-10	SS25245	12-AUG-2005	WT	UF	GU05082524502					<	0.00292				0.145	<	55.4
W-SMA-10	SS25245	24-AUG-2005	WT	F	GF05082524503												
W-SMA-10	SS25245	24-AUG-2005	WT	UF	GU05082524503					<	0.0025				0.158		115
W-SMA-10	SS25245	29-SEP-2005	WT	F	GF05102524501												
W-SMA-10	SS25245	29-SEP-2005	WT	UF	GU05102524501					<	0.0025				0.252	<	39.4
W-SMA-11	SS2529	04-AUG-2005	WT	F	GF0508K252901												
W-SMA-11	SS2529	04-AUG-2005	WT	UF	GU0508K252901					<	0.0025				0.141	<	49.2
W-SMA-11	SS2529	12-AUG-2005	WT	F	GF0508K252902												

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1		EPA:415.1		SM:A2340B		EPA:160.2	
						DOC		TOC		Hardness		TSS	
						mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-2	SS25205	11-AUG-2005	WT	F	GF05082520502		11				5.9		
W-SMA-2	SS25205	11-AUG-2005	WT	UF	GU05082520502						27		
W-SMA-2	SS25205	15-JUL-2005	WT	F	GF05072520501		15.6				9.4		
W-SMA-2	SS25205	15-JUL-2005	WT	UF	GU05072520501						56.5		
W-SMA-2	SS25205	27-MAY-2005	WT	F	GF05052520501		9.98				8.86		
W-SMA-2	SS25205	27-MAY-2005	WT	UF	GU05052520501						29.9		
W-SMA-4	E252.8	12-AUG-2005	WT	F	GF0508E252801		23.6				23.3		
W-SMA-4	E252.8	12-AUG-2005	WT	UF	GU0508E252801						36.2		
W-SMA-4	E252.8	24-AUG-2005	WT	F	GF0508E252802		19				22.7		
W-SMA-4	E252.8	24-AUG-2005	WT	UF	GU0508E252802						202		
W-SMA-5	SS2528	04-AUG-2005	WT	F	GF0508K252801		31.6				19.6		
W-SMA-5	SS2528	04-AUG-2005	WT	UF	GU0508K252801						22.9		
W-SMA-5	SS2528	04-SEP-2005	WT	F	GF0509K252801		14.9						
W-SMA-5	SS2528	11-AUG-2005	WT	F	GF0508K252802		21.1				13		
W-SMA-5	SS2528	11-AUG-2005	WT	UF	GU0508K252802						11.1		
W-SMA-5	SS2528	15-JUL-2005	WT	F	GF0507K252801		44.9				16.8		
W-SMA-5	SS2528	15-JUL-2005	WT	UF	GU0507K252801						16.9		
W-SMA-5	SS2528	28-SEP-2005	WT	F	GF0510K252801						8.3		
W-SMA-5	SS2528	28-SEP-2005	WT	UF	GU0510K252801						12.1		
W-SMA-7	SS25243	05-AUG-2005	WT	F	GF05082524301						14.2		
W-SMA-7	SS25243	05-AUG-2005	WT	UF	GU05082524301						34.9		
W-SMA-7	SS25243	12-AUG-2005	WT	F	GF05082524302		26.3				13.9		
W-SMA-7	SS25243	12-AUG-2005	WT	UF	GU05082524302						19.8		
W-SMA-7	SS25243	24-AUG-2005	WT	F	GF05082524303		9.84				9		
W-SMA-7	SS25243	24-AUG-2005	WT	UF	GU05082524303						89.5		
W-SMA-7	SS25243	27-MAY-2005	WT	F	GF05062524301		20.7				11.4		
W-SMA-7	SS25243	27-MAY-2005	WT	UF	GU05062524301						45.1		
W-SMA-8	SS2523	04-AUG-2005	WT	F	GF0508K252301		21.6				27.8		
W-SMA-8	SS2523	04-AUG-2005	WT	UF	GU0508K252301						71.6		
W-SMA-8	SS2523	04-OCT-2005	WT	F	GF0510K252301		15.9				41.2		
W-SMA-8	SS2523	04-OCT-2005	WT	UF	GU0510K252301						41.4		
W-SMA-8	SS2523	12-AUG-2005	WT	F	GF0508K252302		19.3				29.2		
W-SMA-8	SS2523	12-AUG-2005	WT	UF	GU0508K252302						35.8		
W-SMA-8	SS2523	24-AUG-2005	WT	F	GF0508K252303		24.8				25.5		
W-SMA-8	SS2523	24-AUG-2005	WT	UF	GU0508K252303						56.5		
W-SMA-10	SS25245	04-AUG-2005	WT	F	GF05082524501		17.5				13.8		
W-SMA-10	SS25245	04-AUG-2005	WT	UF	GU05082524501						44.8		
W-SMA-10	SS25245	12-AUG-2005	WT	F	GF05082524502		8.22				9.1		
W-SMA-10	SS25245	12-AUG-2005	WT	UF	GU05082524502						15.8		
W-SMA-10	SS25245	24-AUG-2005	WT	F	GF05082524503						8		
W-SMA-10	SS25245	24-AUG-2005	WT	UF	GU05082524503						47		
W-SMA-10	SS25245	29-SEP-2005	WT	F	GF05102524501						10.9		
W-SMA-10	SS25245	29-SEP-2005	WT	UF	GU05102524501						17.3		
W-SMA-11	SS2529	04-AUG-2005	WT	F	GF0508K252901						17.9		
W-SMA-11	SS2529	04-AUG-2005	WT	UF	GU0508K252901						19.8		
W-SMA-11	SS2529	12-AUG-2005	WT	F	GF0508K252902		9.94				6.9		

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:200.7 Ca mg/L		EPA:200.7 K mg/L		EPA:200.7 Mg mg/L		EPA:200.7 Na mg/L		EPA:310.1 ALK-CO3 mg/L		EPA:310.1 ALK-CO3+HCO3 mg/L		EPA:310.1 ALK-HCO3 mg/L		EPA:314.0 ClO4 ug/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-11	SS2529	12-AUG-2005	WT	UF	GU0508K252902		7.61		7.53		3.93		1.25	<	1.45		11.3				
W-SMA-11	SS2529	24-AUG-2005	WT	F	GF0508K252903		2.35		3.11		0.707		0.48								
W-SMA-11	SS2529	24-AUG-2005	WT	UF	GU0508K252903		14.3		14.6		9.23		2.29	<	1.45		6.76				
W-SMA-11	SS2529	29-SEP-2005	WT	F	GF0510K252901		1.78		3.39		0.479		0.407								
W-SMA-11	SS2529	29-SEP-2005	WT	UF	GU0510K252901		9.26		10.6		5.28		1.47	<	1.45		8.02				

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	SW-846:8321A(M)		EPA:335.3		EPA:335.3		SW-846:9012A		EPA:350.1		EPA:410.4	
						ClO4		CN (amen)		CN(Total)		CN(Total)		NH3-N		COD	
						ug/L		mg/L		mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-11	SS2529	12-AUG-2005	WT	UF	GU0508K252902					<	0.00259				0.142	<	52.2
W-SMA-11	SS2529	24-AUG-2005	WT	F	GF0508K252903												
W-SMA-11	SS2529	24-AUG-2005	WT	UF	GU0508K252903					<	0.0025				0.112		53.3
W-SMA-11	SS2529	29-SEP-2005	WT	F	GF0510K252901												
W-SMA-11	SS2529	29-SEP-2005	WT	UF	GU0510K252901					<	0.0025			<	0.217		75.4

Table B7. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for General Inorganics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Sample ID	EPA:415.1		EPA:415.1		SM:A2340B		EPA:160.2	
						DOC		TOC		Hardness		TSS	
						mg/L		mg/L		mg/L		mg/L	
						Sym	Result	Sym	Result	Sym	Result	Sym	Result
W-SMA-11	SS2529	12-AUG-2005	WT	UF	GU0508K252902						35.2		
W-SMA-11	SS2529	24-AUG-2005	WT	F	GF0508K252903		9.28				8.8		
W-SMA-11	SS2529	24-AUG-2005	WT	UF	GU0508K252903						73.8		
W-SMA-11	SS2529	29-SEP-2005	WT	F	GF0510K252901		12.5				6.4		
W-SMA-11	SS2529	29-SEP-2005	WT	UF	GU0510K252901						44.9		

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2		EPA:160.2		EPA:160.2	
						SSC		SSC		SSC	
						mg/L		mg/L		mg/L	
						CS		DUP		TRP	
						Sym	Result	Sym	Result	Sym	Result
2M-SMA-1	SS2432	WT	13-JUN-2005	UF	GU0506K243202		34				
2M-SMA-1	SS2432	WT	23-JUL-2005	UF	GU0507K243201		1640		1580		
2M-SMA-1	SS2432	WT	26-JUN-2005	UF	GU0506K243203		23.8		29.3		
2M-SMA-1	SS2432	WT	27-MAY-2005	UF	GU0506K243201		454				
2M-SMA-2	E243.5	WT	03-MAY-2005	UF	GU0505E243501		24				
2M-SMA-2	E243.5	WT	11-JUN-2005	UF	GU0506E243501		38		36		
2M-SMA-2	E243.5	WT	15-JUL-2005	UF	GU0507E243501		30.8				
2M-SMA-2	E243.5	WT	16-APR-2005	UF	GU0504E243501		123				
2M-SMA-2	E243.5	WT	24-APR-2005	UF	GU0504E243502		313				
2M-SMA-2	E243.5	WT	27-MAY-2005	UF	GU0505E243502		179				
2M-SMA-3	SS2439	WT	15-JUL-2005	UF	GU0507K243901		1730				
2M-SMA-3	SS2439	WT	20-JUL-2005	UF	GU0507K243902		648				
3M-SMA-0.5	SS2459	WT	12-AUG-2005	UF	GU0508K245901		17800				
3M-SMA-0.5	SS2459	WT	24-AUG-2005	UF	GU0508K245902		3410				
3M-SMA-0.5	SS2459	WT	29-SEP-2005	UF	GU0509K245901		1630		1850		
3M-SMA-0.5	SS2459	WT	29-SEP-2005	UF	GU0510K245901		202				
3M-SMA-0.6	SS2457	WT	06-AUG-2005	UF	GU0508K245701		762				
3M-SMA-0.6	SS2457	WT	12-AUG-2005	UF	GU0508K245702		4250				
3M-SMA-0.6	SS2457	WT	15-JUL-2005	UF	GU0507K245701		1830				
3M-SMA-0.6	SS2457	WT	23-AUG-2005	UF	GU0508K245703		5950				
3M-SMA-0.6	SS2457	WT	23-SEP-2005	UF	GU0509K245701		5810				
3M-SMA-0.6	SS2457	WT	24-AUG-2005	UF	GU0508K245704		8450		11800		
3M-SMA-0.6	SS2457	WT	29-SEP-2005	UF	GU0509K245702		3540				
3M-SMA-0.6	SS2457	WT	29-SEP-2005	UF	GU0510K245701		695		731		
ACID-SMA-2	E0555	WT	05-AUG-2005	UF	GU0508E055501		2950				
ACID-SMA-2	E0555	WT	12-AUG-2005	UF	GU0508E055502		748				
ACID-SMA-2	E0555	WT	15-JUL-2005	UF	GU0507E055501		2500				
ACID-SMA-2	E0555	WT	25-AUG-2005	UF	GU0508E055503		1080		1210		
ACID-SMA-2	E056	WT	12-AUG-2005	UF	GU05080E05601		1360				
ACID-SMA-2	E056	WT	24-AUG-2005	UF	GU05080E05602		6170				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
A-SMA-1	KAS1	WT	17-JUL-2005	UF	GU05070KAS101		186				
A-SMA-1	KAS1	WT	28-SEP-2005	UF	GU05100KAS101		220		212		
A-SMA-3	KAS3	WT	28-SEP-2005	UF	GU05100KAS301		9430				
B-SMA-1	SS067	WT	04-AUG-2005	UF	GU05080K06701		5470		5730		
B-SMA-1	SS067	WT	12-AUG-2005	UF	GU05080K06702		5650				
B-SMA-1	SS067	WT	22-AUG-2005	UF	GU05080K06703		6310				
B-SMA-1	SS067	WT	24-AUG-2005	UF	GU05080K06704		11500				
B-SMA-1	SS067	WT	29-SEP-2005	UF	GU05090K06701		1860		1910		
CDB-SMA-2	SS2188	WT	03-OCT-2005	UF	GU0510K218801		15				
CDB-SMA-2	SS2188	WT	12-AUG-2005	UF	GU0508K218801		90				
CDB-SMA-2	SS2188	WT	28-SEP-2005	UF	GU0509K218801		40.8				
CDB-SMA-4	E227	WT	13-Aug-05	UF	GU05080E22702		7160				
CDB-SMA-4	E227	WT	04-SEP-2005	UF	GU05090E22701		4220				
CDB-SMA-4	E227	WT	09-OCT-2005	UF	GU05100E22702		2510				
CDB-SMA-4	E227	WT	12-AUG-2005	UF	GU05080E22701		932				
CDB-SMA-4	E227	WT	17-JUL-2005	UF	GU05070E22701		22400				
CDB-SMA-4	E227	WT	28-SEP-2005	UF	GU05100E22701		6130				
CDV-SMA-1	SS254	WT	04-AUG-2005	UF	GU05080K25401		25500				
CDV-SMA-1	SS254	WT	12-AUG-2005	UF	GU05080K25402		5540				
CDV-SMA-1	SS254	WT	15-JUL-2005	UF	GU05070K25401		4160				
CDV-SMA-1	SS254	WT	24-AUG-2005	UF	GU05080K25403		6910				
CDV-SMA-1.4	SS2542	WT	08-AUG-2005	UF	GU0508K254201		2700				
CDV-SMA-1.4	SS2542	WT	12-AUG-2005	UF	GU0508K254202		2910				
CDV-SMA-1.4	SS2542	WT	15-JUL-2005	UF	GU0507K254201		1890				
CDV-SMA-1.4	SS2542	WT	24-AUG-2005	UF	GU0508K254203		2020				
CDV-SMA-1.5	SS2545	WT	03-MAY-2005	UF	GU0505K254201		1340		1310		
CDV-SMA-1.5	SS2545	WT	04-AUG-2005	UF	GU0508K254501		4520				
CDV-SMA-1.5	SS2545	WT	12-AUG-2005	UF	GU0508K254502		6100				
CDV-SMA-1.5	SS2545	WT	15-JUL-2005	UF	GU0507K254501		9680		9270		
CDV-SMA-1.5	SS2545	WT	27-MAY-2005	UF	GU0505K254501		4140		4170		

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
CDV-SMA-2	SS255	WT	24-AUG-2005	UF	GU05080K25501		1760		1810		
CDV-SMA-2.4	SS2557	WT	04-AUG-2005	UF	GU0508K255701		21300				
CDV-SMA-2.4	SS2557	WT	04-OCT-2005	UF	GU0510K255701		2760				
CDV-SMA-2.4	SS2557	WT	04-SEP-2005	UF	GU0509K255701		2750		3250		
CDV-SMA-2.4	SS2557	WT	15-JUL-2005	UF	GU0507K255701		2640				
CDV-SMA-2.4	SS2557	WT	22-AUG-2005	UF	GU0508K255702		3280				
DP-SMA-0.3	SS0375	WT	04-AUG-2005	UF	GU0508K037501		31.6				
DP-SMA-0.3	SS0375	WT	04-SEP-2005	UF	GU0509K037501		2370				
DP-SMA-0.3	SS0375	WT	12-AUG-2005	UF	GU0508K037502		446				
DP-SMA-0.3	SS0375	WT	22-AUG-2005	UF	GU0508K037503		690				
DP-SMA-0.3	SS0375	WT	24-AUG-2005	UF	GU0508K037504		2700				
DP-SMA-0.3	SS0375	WT	28-SEP-2005	UF	GU0510K037501		1160				
DP-SMA-0.9	SS0388	WT	12-AUG-2005	UF	GU0508K038801		3880				
DP-SMA-0.9	SS0388	WT	22-AUG-2005	UF	GU0508K038802		6500				
DP-SMA-0.9	SS0388	WT	24-AUG-2005	UF	GU0508K038803		3250				
DP-SMA-0.9	SS0388	WT	29-SEP-2005	UF	GU0509K038801		235				
DP-SMA-1	SS0385	WT	03-OCT-2005	UF	GU0510K038501		29000		29900		
DP-SMA-1	SS0385	WT	22-AUG-2005	UF	GU0508K038501		1970				
DP-SMA-1	SS0385	WT	24-AUG-2005	UF	GU0508K038502		3750				
DP-SMA-2	SS0387	WT	03-OCT-2005	UF	GU0510K038701		63.8				
DP-SMA-2	SS0387	WT	12-AUG-2005	UF	GU0508K038701		14000				
DP-SMA-2	SS0387	WT	22-AUG-2005	UF	GU0508K038702		13900				
DP-SMA-2	SS0387	WT	24-AUG-2005	UF	GU0508K038703		13300				
F-SMA-2	SS26757	WT	22-AUG-2005	UF	GU05082675701		6330				
LA-SMA-1 (A)	SS0263	WT	04-AUG-2005	UF	GU0508K026301		548				
LA-SMA-1 (A)	SS0263	WT	07-SEP-2005	UF	GU0509K026301		1030		1100		
LA-SMA-1 (A)	SS0263	WT	09-AUG-2005	UF	GU0508K026302		810		858		
LA-SMA-1 (A)	SS0263	WT	11-AUG-2005	UF	GU0508K026303		424				
LA-SMA-1 (A)	SS0263	WT	20-JUL-2005	UF	GU0507K026302		868		844		
LA-SMA-1 (A)	SS0263	WT	24-AUG-2005	UF	GU0508K026304		2360				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
LA-SMA-1 (B)	SS0264	WT	01-MAY-2005	UF	GU0505K026402		784				
LA-SMA-1 (B)	SS0264	WT	03-MAY-2005	UF	GU0505K026401		2340				
LA-SMA-1 (B)	SS0264	WT	15-JUL-2005	UF	GU0507K026401		1740				
LA-SMA-1 (B)	SS0264	WT	31-MAY-2005	UF	GU0506K026401		83.2				
LA-SMA-1.2	SS02645	WT	15-JUL-2005	UF	GU05070264501		5320				
LA-SMA-1.2	SS02645	WT	24-AUG-2005	UF	GU05080264501		3840				
LA-SMA-1.5(N)	SS02653	WT	11-JUN-2005	UF	GU05060265301		532				
LA-SMA-1.5(N)	SS02653	WT	15-JUL-2005	UF	GU05070265302		716				
LA-SMA-1.5(N)	SS02653	WT	26-JUL-2005	UF	GU05070265305		191				
LA-SMA-2	SS0265	WT	03-MAY-2005	UF	GU0505K026505		190				
LA-SMA-2	SS0265	WT	04-AUG-2005	UF	GU0508K026501		272				
LA-SMA-2	SS0265	WT	11-AUG-2005	UF	GU0508K026502		105				
LA-SMA-2	SS0265	WT	22-AUG-2005	UF	GU0508K026503		135				
LA-SMA-3	SS0266	WT	04-AUG-2005	UF	GU0508K026601		1020				
LA-SMA-3	SS0266	WT	15-JUL-2005	UF	GU0507K026601		221				
LA-SMA-3	SS0266	WT	20-JUL-2005	UF	GU0507K026602		794				
LA-SMA-3	SS0266	WT	28-SEP-2005	UF	GU0510K026601		471				
LA-SMA-4	SS0267	WT	11-AUG-2005	UF	GU0508K026701		5600				
LA-SMA-4	SS0267	WT	22-AUG-2005	UF	GU0508K026702		1840		2140		
LA-SMA-4	SS0267	WT	24-AUG-2005	UF	GU0508K026703		3490		3580		
LA-SMA-4	SS0267	WT	28-SEP-2005	UF	GU0510K026701		1860				
LA-SMA-5	SS0268	WT	03-MAY-2005	UF	GU0505K026801		732				
LA-SMA-5	SS0268	WT	04-AUG-2005	UF	GU0508K026801		1430				
LA-SMA-5	SS0268	WT	15-JUL-2005	UF	GU0507K026801		1010				
LA-SMA-5	SS0268	WT	24-AUG-2005	UF	GU0508K026803		7350				
LA-SMA-5	SS0268	WT	28-SEP-2005	UF	GU0510K026801		2720				
LA-SMA-5.2	SS026805	WT	04-AUG-2005	UF	GU05082680501		46100		50700		
LA-SMA-5.2	SS026805	WT	15-JUL-2005	UF	GU05072680501		3110				
LA-SMA-5.2	SS026805	WT	24-AUG-2005	UF	GU05082680502		22800				
LA-SMA-5.3	SS02681	WT	11-AUG-2005	UF	GU05080268101		1730		1720		

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
LA-SMA-5.3	SS02681	WT	15-JUL-2005	UF	GU05070268101		103				
LA-SMA-5.3	SS02681	WT	24-AUG-2005	UF	GU05080268102		1350				
LA-SMA-5.3	SS02681	WT	28-SEP-2005	UF	GU05100268101		2520				
LA-SMA-5.4	SS02683	WT	08-AUG-2005	UF	GU05080268301		4500		4810		
LA-SMA-5.4	SS02683	WT	15-JUL-2005	UF	GU05070268301		2050				
LA-SMA-5.4	SS02683	WT	16-AUG-2005	UF	GU05080268302		4370				
LA-SMA-5.4	SS02683	WT	20-JUL-2005	UF	GU05070268302		533		524		
LA-SMA-5.4	SS02683	WT	24-AUG-2005	UF	GU05080268303		157				
LA-SMA-5.4	SS02683	WT	28-SEP-2005	UF	GU05100268301		402				
LA-SMA-5.5	SS02685	WT	15-JUL-2005	UF	GU05070268501		1020				
LA-SMA-5.5	SS02685	WT	28-SEP-2005	UF	GU05100268501		3160		3340		
LA-SMA-6	SS0269	WT	22-AUG-2005	UF	GU0508K026901		4600				
LA-SMA-6.3	SS028	WT	22-AUG-2005	UF	GU05080K02801		8350				
LA-SMA-6.5	SS0287	WT	22-AUG-2005	UF	GU0508K028701		2960				
LA-SMA-10	SS037	WT	11-AUG-2005	UF	GU05080K03701		1650		1810		
LA-SMA-10	SS037	WT	24-AUG-2005	UF	GU05080K03702		693				
M-SMA-2	SS1984	WT	22-AUG-2005	UF	GU0508K198401		2600				
M-SMA-2	SS1984	WT	24-AUG-2005	UF	GU0508K198402		6180				
M-SMA-2	SS1984	WT	25-AUG-2005	UF	GU0508K198403		2530				
M-SMA-2	SS1984	WT	28-SEP-2005	UF	GU0509K198401		2420				
M-SMA-3	SS1985	WT	15-JUL-2005	UF	GU0507K198501		1250				
M-SMA-4	SS1987	WT	04-AUG-2005	UF	GU0508K198701		2720				
M-SMA-4	SS1987	WT	12-AUG-2005	UF	GU0508K198702		33.3				
M-SMA-4	SS1987	WT	15-JUL-2005	UF	GU0507K198701		1180		1250		
M-SMA-4	SS1987	WT	22-AUG-2005	UF	GU0508K198703		2450				
M-SMA-4	SS1987	WT	24-AUG-2005	UF	GU0508K198704		1130				
M-SMA-4	SS1987	WT	25-AUG-2005	UF	GU0508K198705		1210				
M-SMA-5	SS199	WT	12-AUG-2005	UF	GU05080K19901		848		892		
M-SMA-5	SS199	WT	15-JUL-2005	UF	GU05070K19901		847				
M-SMA-5	SS199	WT	22-AUG-2005	UF	GU05080K19902		2130				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
M-SMA-5	SS199	WT	24-AUG-2005	UF	GU05080K19903		2930				
M-SMA-8	E200	WT	03-MAY-2005	UF	GU05050E20001		1230		1340		
M-SMA-8	E200	WT	15-JUL-2005	UF	GU05070E20001		4850				
M-SMA-8	E200	WT	20-JUL-2005	UF	GU05070E20002		518				
M-SMA-8	E200	WT	24-APR-2005	UF	GU05040E20001		3030				
M-SMA-10	SS2002	WT	03-OCT-2005	UF	GU0510K200201		127				
M-SMA-11	SS2003	WT	12-AUG-2005	UF	GU0508K200301		1860				
M-SMA-11	SS2003	WT	15-JUL-2005	UF	GU0507K200301		742				
M-SMA-11	SS2003	WT	22-AUG-2005	UF	GU0508K200302		10900				
M-SMA-11	SS2003	WT	24-AUG-2005	UF	GU0508K200303		2080				
M-SMA-12	SS2004	WT	12-AUG-2005	UF	GU0508K200401		627				
M-SMA-12	SS2004	WT	23-AUG-2005	UF	GU0508K200402		632		780		
M-SMA-12	SS2004	WT	24-AUG-2005	UF	GU0508K200403		852				
M-SMA-12	SS2004	WT	29-SEP-2005	UF	GU0510K200401		136				
M-SMA-13	SS205	WT	03-OCT-2005	UF	GU05100K20501		237				
M-SMA-13	SS205	WT	12-AUG-2005	UF	GU05080K20501		1110				
M-SMA-13	SS205	WT	24-AUG-2005	UF	GU05080K20502		730				
PJ-SMA-1	SS2405	WT	04-AUG-2005	UF	GU0508K240501		4160				
PJ-SMA-1	SS2405	WT	06-AUG-2005	UF	GU0508K240502		2240				
PJ-SMA-1	SS2405	WT	12-AUG-2005	UF	GU0508K240503		1770				
PJ-SMA-1	SS2405	WT	18-JUL-2005	UF	GU0507K240501		1560				
PJ-SMA-1	SS2405	WT	24-AUG-2005	UF	GU0508K240504		4980				
PJ-SMA-1	SS2405	WT	29-SEP-2005	UF	GU0509K240501		822		914		
PJ-SMA-4	SS24253	WT	03-MAY-2005	UF	GU05050KPS401		593				
PJ-SMA-4	SS24253	WT	04-AUG-2005	UF	GU05080KPS401		14900				
PJ-SMA-4	SS24253	WT	16-APR-2005	UF	GU05040KPS401		1600				
PJ-SMA-4	SS24253	WT	18-JUL-2005	UF	GU05070KPS401		1510				
PJ-SMA-4	SS24253	WT	24-APR-2005	UF	GU05040KPS402		322				
PJ-SMA-4	SS24253	WT	27-MAY-2005	UF	GU05050KPS402		2480				
PJ-SMA-7	SS24210	WT	04-AUG-2005	UF	GU05082421001		47.5				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
PJ-SMA-7	SS24210	WT	12-AUG-2005	UF	GU05082421002		18000		17000		
PJ-SMA-7	SS24210	WT	15-JUL-2005	UF	GU05072421001		1350				
PJ-SMA-7	SS24210	WT	24-AUG-2005	UF	GU05082421003		8610				
PJ-SMA-15	E248	WT	09-OCT-2005	UF	GU05100E24801		1950				
PJ-SMA-15	E248	WT	12-AUG-2005	UF	GU05080E24801		571				
PJ-SMA-15	E248	WT	28-SEP-2005	UF	GU05090E24801		1960				
PJ-SMA-15	E248.5	WT	05-AUG-2005	UF	GU0508E248501		1160				
PJ-SMA-15	E248.5	WT	09-OCT-2005	UF	GU0510E248501		1690				
PJ-SMA-15	E248.5	WT	12-AUG-2005	UF	GU0508E248502		374				
PJ-SMA-15	E248.5	WT	15-JUL-2005	UF	GU0507E248501		10300				
PJ-SMA-15	E248.5	WT	24-APR-2005	UF	GU0504E248501		514		656		
PJ-SMA-15	E248.5	WT	29-SEP-2005	UF	GU0509E248501		147				
PJ-SMA-15	E249.5	WT	01-MAY-2005	UF	GU0505E249501		137				
PJ-SMA-15	E249.5	WT	03-MAY-2005	UF	GU0505E249502		376				
PJ-SMA-15	E249.5	WT	24-APR-2005	UF	GU0504E249502		24				
PJ-SMA-250	E250	WT	12-AUG-2005	UF	GU05080E25001		201				
PJ-SMA-250	E250	WM	23-MAR-2005	UF	GU05030M25001		3.5		6.5		4
Pratt-SMA-1	SS20142	WT	03-OCT-2005	UF	GU05102014201		7550				
Pratt-SMA-1	SS20142	WT	12-AUG-2005	UF	GU05082014201		746				
Pratt-SMA-1	SS20142	WT	22-AUG-2005	UF	GU05082014202		30000				
Pratt-SMA-1	SS20142	WT	24-AUG-2005	UF	GU05082014203		21300				
P-SMA-2	SS057	WT	24-AUG-2005	UF	GU05080K05701		3670				
P-SMA-2.2	SS0575	WT	03-MAY-2005	UF	GU0505K057501		2360				
P-SMA-2.2	SS0575	WT	04-AUG-2005	UF	GU0508K057501		837				
P-SMA-2.2	SS0575	WT	16-AUG-2005	UF	GU0508K057502		5180				
P-SMA-2.2	SS0575	WT	20-JUL-2005	UF	GU0507K057501		1.62				
P-SMA-2.2	SS0575	WT	25-APR-2005	UF	GU0504K057501		1890				
P-SMA-2.2	SS0575	WT	31-MAY-2005	UF	GU0505K057502		1340		1610		
P-SMA-3	SS054	WT	04-AUG-2005	UF	GU05080K05401		975		1040		
P-SMA-3	SS054	WT	07-SEP-2005	UF	GU05090K05401		2380				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2		EPA:160.2		EPA:160.2	
						SSC		SSC		SSC	
						mg/L		mg/L		mg/L	
						CS		DUP		TRP	
						Sym	Result	Sym	Result	Sym	Result
P-SMA-3	SS054	WT	11-AUG-2005	UF	GU05080K05402		1760				
P-SMA-3	SS054	WT	22-AUG-2005	UF	GU05080K05403		1290				
P-SMA-3	SS054	WT	24-AUG-2005	UF	GU05080K05404		2840				
P-SMA-3	SS054	WT	25-APR-2005	UF	GU05040K05401		2960				
R-SMA-1	SS00	WT	03-MAY-2005	UF	GU050500K0001		1600		1950		
R-SMA-1	SS00	WT	12-AUG-2005	UF	GU050800K0001		4520				
R-SMA-1	SS00	WT	24-AUG-2005	UF	GU050800K0002		3940				
R-SMA-1	SS00	WT	29-SEP-2005	UF	GU050900K0001		688				
S-SMA-1	K1222	WT	11-AUG-2005	UF	GU0508K122201		1030				
S-SMA-1	K1222	WT	24-AUG-2005	UF	GU0508K122202		4650				
S-SMA-1	K1222	WT	25-AUG-2005	UF	GU0508K122203		1640				
S-SMA-1	K1222	WT	28-SEP-2005	UF	GU0509K122201		4420				
S-SMA-2	E121	WT	04-AUG-2005	UF	GU05080E12101		1090				
S-SMA-2	E121	WT	12-AUG-2005	UF	GU05080E12102		828				
S-SMA-2	E121	WT	15-JUL-2005	UF	GU05070E12101		2550				
S-SMA-2	E121	WT	16-APR-2005	UF	GU05040E12101		600				
S-SMA-2	E121	WT	20-JUL-2005	UF	GU05070E12102		713				
S-SMA-3.5	SS12293	WT	05-AUG-2005	UF	GU05081229301		1950				
S-SMA-3.5	SS12293	WT	12-AUG-2005	UF	GU05081229302		6350		6980		
S-SMA-3.5	SS12293	WT	15-JUL-2005	UF	GU05071229301		4190		4430		
S-SMA-3.5	SS12293	WT	22-AUG-2005	UF	GU05081229303		3300		3360		
S-SMA-3.5	SS12293	WT	24-AUG-2005	UF	GU05081229304		6020				
S-SMA-3.5	SS12293	WT	25-AUG-2005	UF	GU05081229305		9320				
S-SMA-3.5	SS12293	WT	30-SEP-2005	UF	GU05101229301		7780		7480		
S-SMA-3.9	SS1235	WT	03-MAY-2005	UF	GU0505K123501		584				
S-SMA-3.9	SS1235	WT	12-AUG-2005	UF	GU0508K123501		444				
S-SMA-3.9	SS1235	WT	22-AUG-2005	UF	GU0508K123502		1350				
S-SMA-3.9	SS1235	WT	28-SEP-2005	UF	GU0509K123501		308				
S-SMA-4	SS1238	WT	03-MAY-2005	UF	GU0505K123801		333				
S-SMA-4	SS1238	WT	04-AUG-2005	UF	GU0508K123801		3440				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2		EPA:160.2		EPA:160.2	
						SSC		SSC		SSC	
						mg/L		mg/L		mg/L	
						CS		DUP		TRP	
						Sym	Result	Sym	Result	Sym	Result
S-SMA-4	SS1238	WT	22-AUG-2005	UF	GU0508K123802		758				
S-SMA-4	SS1238	WT	24-AUG-2005	UF	GU0508K123803		1540				
S-SMA-5	SS1245	WT	25-AUG-2005	UF	GU0508K124501		3300				
S-SMA-6	SS1248	WT	29-SEP-2005	UF	GU0510K124801		4210				
S-SMA-6	SS1248	WT	29-SEP-2005	UF	GU0510K124802		31600				
T-SMA-1	E201.3	WT	10-OCT-2005	UF	GU0510E201301		379				
T-SMA-1	E201.3	WT	12-AUG-2005	UF	GU0508E201301		806				
T-SMA-1	E201.3	WT	22-AUG-2005	UF	GU0508E201302		1080				
T-SMA-1	E201.3	WT	22-SEP-2005	UF	GU0509E201301		351		378		
T-SMA-1	E201.3	WT	24-AUG-2005	UF	GU0508E201303		162				
T-SMA-1	E201.3	WT	25-AUG-2005	UF	GU0508E201304		1450				
T-SMA-1	E201.3	WT	28-SEP-2005	UF	GU0509E201302		1200		1460		
T-SMA-3	SS20134	WT	04-AUG-2005	UF	GU05082013401		23300				
T-SMA-3	SS20134	WT	12-AUG-2005	UF	GU05082013402		24800				
T-SMA-3	SS20134	WT	15-JUL-2005	UF	GU05072013401		734		678		
T-SMA-3	SS20134	WT	25-AUG-2005	UF	GU05082013403		440				
T-SMA-4	SS20136	WT	12-AUG-2005	UF	GU05082013601		1830		2200		
T-SMA-4	SS20136	WT	15-JUL-2005	UF	GU05072013601		718				
T-SMA-5	SS20138	WT	03-OCT-2005	UF	GU05102013801		59.3				
T-SMA-5	SS20138	WT	24-AUG-2005	UF	GU05082013801		1240				
T-SMA-6	SS20140	WT	03-OCT-2005	UF	GU05102014001		15900				
T-SMA-6	SS20140	WT	24-AUG-2005	UF	GU05082014001		51500				
W-SMA-1	SS25203	WT	03-MAY-2005	UF	GU0505K252001		320				
W-SMA-1	SS25203	WT	04-AUG-2005	UF	GU05082520301		528				
W-SMA-1	SS25203	WT	15-JUL-2005	UF	GU05072520301		767				
W-SMA-1	SS25203	WT	27-MAY-2005	UF	GU05052520301		1430				
W-SMA-2	SS25205	WT	04-AUG-2005	UF	GU05082520501		6140				
W-SMA-2	SS25205	WT	11-AUG-2005	UF	GU05082520502		596		658		
W-SMA-2	SS25205	WT	15-JUL-2005	UF	GU05072520501		1480		1420		
W-SMA-2	SS25205	WT	24-AUG-2005	UF	GU05082520503		574				

Table B8. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Suspended Sediment Concentration

Station ID	Station Name	Sample Matrix	Sample Date	F/UF	Sample ID	EPA:160.2 SSC mg/L CS		EPA:160.2 SSC mg/L DUP		EPA:160.2 SSC mg/L TRP	
						Sym	Result	Sym	Result	Sym	Result
W-SMA-2	SS25205	WT	27-MAY-2005	UF	GU05052520501		678				
W-SMA-5	SS2528	WT	04-AUG-2005	UF	GU0508K252801		20.8				
W-SMA-5	SS2528	WT	04-SEP-2005	UF	GU0509K252801		1180				
W-SMA-5	SS2528	WT	11-AUG-2005	UF	GU0508K252802		54.7		55.5		
W-SMA-5	SS2528	WT	15-JUL-2005	UF	GU0507K252801		412				
W-SMA-5	SS2528	WT	28-SEP-2005	UF	GU0510K252801		37.9				
W-SMA-7	SS25243	WT	05-AUG-2005	UF	GU05082524301		22800		22700		
W-SMA-7	SS25243	WT	12-AUG-2005	UF	GU05082524302		8470				
W-SMA-7	SS25243	WT	24-AUG-2005	UF	GU05082524303		8300				
W-SMA-7	SS25243	WT	27-MAY-2005	UF	GU05062524301		4450		4770		
W-SMA-8	SS2523	WT	04-AUG-2005	UF	GU0508K252301		4550				
W-SMA-8	SS2523	WT	04-OCT-2005	UF	GU0510K252301		408				
W-SMA-8	SS2523	WT	12-AUG-2005	UF	GU0508K252302		1430				
W-SMA-8	SS2523	WT	24-AUG-2005	UF	GU0508K252303		102				

Table B9. FFCA Site-Specfic Storm Water Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag	Anyl Meth Code
2M-SMA-1	E243.5	04/16/05	WT	UF	CS	GF0504E243501	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.0002	ug/L			EPA:1613B
2M-SMA-1	E243.5	04/16/05	WT	UF	CS	GF0504E243501	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.0025	ug/L			EPA:1613B
2M-SMA-1	E243.5	04/24/05	WT	UF	CS	GU0504E243502	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00024	ug/L			EPA:1613B
2M-SMA-1	E243.5	05/27/05	WT	UF	CS	GU0505E243502	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00011	ug/L		J	EPA:1613B
2M-SMA-1	E243.5	06/11/05	WT	UF	CS	GU0506E243501	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00052	ug/L			EPA:1613B
3M-SMA-0.6	SS2457	09/23/05	WT	UF	CS	GU0509K245701	2691-41-0	HMX		0.79	ug/L	PX	NJ	SW-846:8330
3M-SMA-0.6	SS2457	09/23/05	WT	UF	CS	GU0509K245701	2691-41-0	HMX		0.79	ug/L	PX	J+	SW-846:8330
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	11097-69-1	Aroclor-1254		0.25	ug/L	P		EPA:608
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.0034	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.0012	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	39227-28-6	Hexachlorodibenzodioxin[1,2,3,4,7,8-]		0.00008	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	57653-85-7	Hexachlorodibenzodioxin[1,2,3,6,7,8-]		0.00016	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	19408-74-3	Hexachlorodibenzodioxin[1,2,3,7,8,9-]		0.0002	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	70648-26-9	Hexachlorodibenzofuran[1,2,3,4,7,8-]		0.00029	ug/L	E	J	EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	57117-44-9	Hexachlorodibenzofuran[1,2,3,6,7,8-]		0.000082	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	60851-34-5	Hexachlorodibenzofuran[2,3,4,6,7,8-]		0.00013	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.027	ug/L			EPA:1613B
CDB-SMA-4	E227	07/17/05	WT	UF	CS	GU05070E22701	39001-02-0	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]		0.0012	ug/L			EPA:1613B
CDB-SMA-4	E227	08/13/05	WT	UF	CS	GU05080E22702	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00011	ug/L			EPA:1613B
CDB-SMA-4	E227	08/13/05	WT	UF	CS	GU05080E22702	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.000095	ug/L			EPA:1613B
CDB-SMA-4	E227	08/13/05	WT	UF	CS	GU05080E22702	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00057	ug/L			EPA:1613B
CDB-SMA-4	E227	09/04/05	WT	UF	CS	GU05090E22701	35822-46-9	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]		0.00017	ug/L			EPA:1613B
CDB-SMA-4	E227	09/04/05	WT	UF	CS	GU05090E22701	67562-39-4	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]		0.000064	ug/L			EPA:1613B
CDB-SMA-4	E227	09/04/05	WT	UF	CS	GU05090E22701	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00084	ug/L		J+	EPA:1613B
CDV-SMA-1.5	SS2545	07/15/05	WT	UF	RE	GU0507K254501	98-95-3	Nitrobenzene		1.7	ug/L		J-	SW-846:8330
CDV-SMA-1.5	SS2545	07/15/05	WT	UF	RE	GU0507K254501	98-95-3	Nitrobenzene		1.7	ug/L		J-	SW-846:8330
CDV-SMA-1.5	SS2545	07/15/05	WT	UF	RE	GU0507K254501	98-95-3	Nitrobenzene		1.7	ug/L		J	SW-846:8330
CDV-SMA-1.5	SS2545	08/04/05	WT	UF	CS	GU0508K254501	99-65-0	Dinitrobenzene[1,3-]		0.69	ug/L	PX	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.38	ug/L	J	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.38	ug/L	J	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.33	ug/L	JP	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.33	ug/L	JP	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.33	ug/L	JP	J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.33	ug/L	JP	J-	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	2691-41-0	HMX		34.8	ug/L		J+	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	2691-41-0	HMX		34.8	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	2691-41-0	HMX		95	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	2691-41-0	HMX		95	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	2691-41-0	HMX		34.8	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	121-82-4	RDX		39.3	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	RE	GU0507K255701	121-82-4	RDX		39.3	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	121-82-4	RDX		16.8	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	121-82-4	RDX		16.8	ug/L		J+	SW-846:8330
CDV-SMA-2.4	SS2557	07/15/05	WT	UF	CS	GU0507K255701	121-82-4	RDX		16.8	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.2	ug/L	J	J-	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	19406-51-0	Amino-2,6-dinitrotoluene[4-]		0.2	ug/L	J	J-	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	2691-41-0	HMX		16.9	ug/L		J-	SW-846:8330

Table B9. FFCA Site-Specfic Storm Water Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag	Anyl Meth Code
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	2691-41-0	HMX		16.9	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	2691-41-0	HMX		16.9	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	2691-41-0	HMX		16.9	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	121-82-4	RDX		13.3	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	121-82-4	RDX		13.3	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	09/04/05	WT	UF	CS	GU0509K255701	121-82-4	RDX		13.3	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	10/04/05	WT	UF	CS	GU0510K255701	2691-41-0	HMX		1.6	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	10/04/05	WT	UF	CS	GU0510K255701	2691-41-0	HMX		1.6	ug/L		J-	SW-846:8330
CDV-SMA-2.4	SS2557	10/04/05	WT	UF	CS	GU0510K255701	121-82-4	RDX		1.5	ug/L		J	SW-846:8330
CDV-SMA-2.4	SS2557	10/04/05	WT	UF	CS	GU0510K255701	121-82-4	RDX		1.5	ug/L		J-	SW-846:8330
DP-SMA-0.3	SS0375	08/04/05	WT	UF	CS	GU0508K037501	NA	Diesel Range Organics		1100	ug/L			SW-846:8015A/B
DP-SMA-0.3	SS0375	08/12/05	WT	UF	CS	GU0508K037502	NA	Diesel Range Organics		720	ug/L		J	SW-846:8015A/B
DP-SMA-0.3	SS0375	08/22/05	WT	UF	CS	GU0508K037503	NA	Diesel Range Organics		460	ug/L		J-	SW-846:8015A/B
DP-SMA-0.3	SS0375	08/24/05	WT	UF	CS	GU0508K037504	NA	Diesel Range Organics		230	ug/L		J	SW-846:8015A/B
LA-SMA-2	SS0265	05/03/05	WT	UF	CS	GU0505K026505	11097-69-1	Aroclor-1254		6.7	ug/L			EPA:608
LA-SMA-2	SS0265	05/03/05	WT	UF	CS	GU0505K026505	11096-82-5	Aroclor-1260		2	ug/L			EPA:608
LA-SMA-2	SS0265	08/11/05	WT	UF	CS	GU0508K026502	11097-69-1	Aroclor-1254		4.8	ug/L		J-	EPA:608
LA-SMA-2	SS0265	08/11/05	WT	UF	CS	GU0508K026502	11097-69-1	Aroclor-1254		4.8	ug/L		J	EPA:608
LA-SMA-2	SS0265	08/11/05	WT	UF	CS	GU0508K026502	11096-82-5	Aroclor-1260		0.78	ug/L		J-	EPA:608
LA-SMA-2	SS0265	08/11/05	WT	UF	CS	GU0508K026502	11096-82-5	Aroclor-1260		0.78	ug/L		J	EPA:608
LA-SMA-2	SS0265	08/22/05	WT	UF	CS	GU0508K026503	11097-69-1	Aroclor-1254		7.6	ug/L			EPA:608
LA-SMA-2	SS0265	08/22/05	WT	UF	CS	GU0508K026503	11096-82-5	Aroclor-1260		1.3	ug/L	P		EPA:608
LA-SMA-3	SS0266	09/28/05	WT	UF	CS	GU0510K026601	11097-69-1	Aroclor-1254		0.076	ug/L	J		EPA:608
M-SMA-11	SS2003	07/15/05	WT	UF	CS	GU0507K200301	NA	Diesel Range Organics		2000	ug/L		J+	SW-846:8015A/B
M-SMA-11	SS2003	07/15/05	WT	UF	CS	GU0507K200301	NA	Diesel Range Organics		2000	ug/L		J-	SW-846:8015A/B
M-SMA-11	SS2003	08/12/05	WT	UF	CS	GU0508K200301	NA	Diesel Range Organics		370	ug/L		J	SW-846:8015A/B
M-SMA-11	SS2003	08/22/05	WT	UF	CS	GU0508K200302	NA	Diesel Range Organics		2500	ug/L		J-	SW-846:8015A/B
M-SMA-11	SS2003	08/24/05	WT	UF	CS	GU0508K200303	NA	Diesel Range Organics		360	ug/L			SW-846:8015A/B
M-SMA-8	E200	05/03/05	WT	UF	CS	GU05050E20001	11097-69-1	Aroclor-1254		0.22	ug/L			EPA:608
PJ-SMA-15	E248.5	04/24/05	WT	UF	CS	GU0504E248501	67-64-1	Acetone		8.3	ug/L			EPA:624
PJ-SMA-15	E248.5	04/24/05	WT	UF	CS	GU0504E248501	78-93-3	Butanone[2-]		2	ug/L	J		EPA:624
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	67-64-1	Acetone		50.8	ug/L			EPA:624
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	11097-69-1	Aroclor-1254		0.11	ug/L		J-	EPA:608
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	11097-69-1	Aroclor-1254		0.11	ug/L		J	EPA:608
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	11096-82-5	Aroclor-1260		0.095	ug/L	J	J-	EPA:608
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	11096-82-5	Aroclor-1260		0.095	ug/L	J	J	EPA:608
PJ-SMA-15	E248.5	07/15/05	WT	UF	CS	GU0507E248501	78-93-3	Butanone[2-]		8.4	ug/L			EPA:624
PJ-SMA-15	E248.5	09/29/05	WT	UF	CS	GU0509E248501	67-64-1	Acetone		9	ug/L			EPA:624
PJ-SMA-250	E250	08/12/05	WT	UF	CS	GU05080E25001	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00022	ug/L			EPA:1613B
PJ-SMA-7	SS24210	08/24/05	WT	UF	CS	GU05082421003	121-82-4	RDX		0.25	ug/L	J	J-	SW-846:8330
PJ-SMA-7	SS24210	08/24/05	WT	UF	CS	GU05082421003	121-82-4	RDX		0.25	ug/L	J	J-	SW-846:8330
P-SMA-3	SS054	08/11/05	WT	UF	CS	GU05080K05402	11097-69-1	Aroclor-1254		0.74	ug/L		J	EPA:608
P-SMA-3	SS054	08/11/05	WT	UF	CS	GU05080K05402	11097-69-1	Aroclor-1254		0.74	ug/L		J-	EPA:608
P-SMA-3	SS054	08/22/05	WT	UF	CS	GU05080K05403	11097-69-1	Aroclor-1254		0.15	ug/L	P		EPA:608
P-SMA-3	SS054	08/22/05	WT	UF	CS	GU05080K05403	11096-82-5	Aroclor-1260		0.07	ug/L	J		EPA:608
R-SMA-1	SS00	05/03/05	WT	UF	CS	GU050500K0001	NA	Diesel Range Organics		130	ug/L		J-	SW-846:8015A/B
R-SMA-1	SS00	05/03/05	WT	UF	CS	GU050500K0001	NA	Diesel Range Organics		130	ug/L		J-	SW-846:8015A/B

Table B9. FFCA Site-Specfic Storm Water Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag	Anyl Meth Code
R-SMA-1	SS00	05/03/05	WT	UF	CS	GU050500K0001	NA	Diesel Range Organics		130	ug/L		J-	SW-846:8015A/B
R-SMA-1	SS00	08/12/05	WT	UF	CS	GU050800K0001	NA	Diesel Range Organics		180	ug/L		J-	SW-846:8015A/B
R-SMA-1	SS00	08/12/05	WT	UF	CS	GU050800K0001	NA	Diesel Range Organics		180	ug/L		J	SW-846:8015A/B
R-SMA-1	SS00	08/24/05	WT	UF	CS	GU050800K0002	NA	Diesel Range Organics		220	ug/L		J-	SW-846:8015A/B
R-SMA-1	SS00	08/24/05	WT	UF	CS	GU050800K0002	NA	Diesel Range Organics		220	ug/L		J-	SW-846:8015A/B
R-SMA-1	SS00	09/29/05	WT	UF	CS	GU050900K0001	NA	Diesel Range Organics		140	ug/L	J	J-	SW-846:8015A/B
R-SMA-1	SS00	09/29/05	WT	UF	CS	GU050900K0001	NA	Diesel Range Organics		140	ug/L	J	J-	SW-846:8015A/B
S-SMA-1	K1222	08/11/05	WT	UF	CS	GU0508K122201	11097-69-1	Aroclor-1254		0.16	ug/L		J-	EPA:608
S-SMA-1	K1222	08/11/05	WT	UF	CS	GU0508K122201	NA	Diesel Range Organics		1100	ug/L	B		SW-846:8015A/B
S-SMA-1	K1222	08/24/05	WT	UF	CS	GU0508K122202	NA	Diesel Range Organics		430	ug/L			SW-846:8015A/B
S-SMA-1	K1222	08/25/05	WT	UF	CS	GU0508K122203	NA	Diesel Range Organics		570	ug/L			SW-846:8015A/B
S-SMA-1	K1222	08/25/05	WT	UF	RE	GU0508K122203	NA	Diesel Range Organics		540	ug/L			SW-846:8015A/B
S-SMA-1	K1222	09/28/05	WT	UF	CS	GU0509K122201	11097-69-1	Aroclor-1254		0.07	ug/L	J		EPA:608
S-SMA-1	K1222	09/28/05	WT	UF	CS	GU0509K122201	NA	Diesel Range Organics		760	ug/L		J-	SW-846:8015A/B
S-SMA-1	K1222	09/28/05	WT	UF	CS	GU0509K122201	NA	Diesel Range Organics		760	ug/L		J-	SW-846:8015A/B
S-SMA-2	E121	04/16/05	WT	UF	CS	GU05040E12101	11096-82-5	Aroclor-1260		0.027	ug/L	JP		EPA:608
S-SMA-2	E121	07/15/05	WT	UF	CS	GU05070E12101	11097-69-1	Aroclor-1254		0.64	ug/L		J	EPA:608
S-SMA-2	E121	07/15/05	WT	UF	CS	GU05070E12101	11096-82-5	Aroclor-1260		1.2	ug/L		J	EPA:608
S-SMA-2	E121	07/20/05	WT	UF	CS	GU05070E12102	11097-69-1	Aroclor-1254		0.43	ug/L	P		EPA:608
S-SMA-2	E121	07/20/05	WT	UF	CS	GU05070E12102	11096-82-5	Aroclor-1260		0.54	ug/L			EPA:608
S-SMA-2	E121	08/04/05	WT	UF	CS	GU05080E12101	11097-69-1	Aroclor-1254		0.056	ug/L	J		EPA:608
S-SMA-2	E121	08/04/05	WT	UF	CS	GU05080E12101	11096-82-5	Aroclor-1260		0.097	ug/L	J		EPA:608
S-SMA-3.5	SS12293	08/22/05	WT	UF	CS	GU05081229303	11097-69-1	Aroclor-1254		0.058	ug/L	J		EPA:608
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	50-32-8	Benzo(a)pyrene		0.4	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	205-99-2	Benzo(b)fluoranthene		0.55	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	207-08-9	Benzo(k)fluoranthene		0.34	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	218-01-9	Chrysene		0.46	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	206-44-0	Fluoranthene		0.82	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	85-01-8	Phenanthrene		0.51	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	08/24/05	WT	UF	CS	GU05081229304	129-00-0	Pyrene		0.94	ug/L	J	J	EPA:625
S-SMA-3.5	SS12293	09/30/05	WT	UF	CS	GU05101229301	11097-69-1	Aroclor-1254		0.1	ug/L	P		EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11097-69-1	Aroclor-1254		0.69	ug/L	J	J-	EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11097-69-1	Aroclor-1254		0.69	ug/L	J	J	EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11097-69-1	Aroclor-1254		0.69	ug/L	J	J	EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11096-82-5	Aroclor-1260		1.2	ug/L	J	J-	EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11096-82-5	Aroclor-1260		1.2	ug/L	J	J	EPA:608
S-SMA-5	SS1245	08/25/05	WT	UF	CS	GU0508K124501	11096-82-5	Aroclor-1260		1.2	ug/L	J	J	EPA:608
S-SMA-6	SS1248	09/29/05	WT	UF	CS	GU0510K124801	11097-69-1	Aroclor-1254		0.34	ug/L			EPA:608
S-SMA-6	SS1248	09/29/05	WT	UF	CS	GU0510K124801	11096-82-5	Aroclor-1260		0.7	ug/L			EPA:608
T-SMA-1	E201.3	08/24/05	WT	UF	CS	GU0508E201303	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.0003	ug/L			EPA:1613B
T-SMA-1	E201.3	08/25/05	WT	UF	CS	GU0508E201304	3268-87-9	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]		0.00021	ug/L			EPA:1613B
T-SMA-4	SS20136	08/12/05	WT	UF	CS	GU05082013601	90-12-0	Methylnaphthalene[1-]		0.282	ug/L	JPX	NJ	SW-846:8310
T-SMA-6	SS20140	08/24/05	WT	UF	CS	GU05082014001	11096-82-5	Aroclor-1260		0.16	ug/L		J	EPA:608
T-SMA-6	SS20140	10/03/05	WT	UF	CS	GU05102014001	11096-82-5	Aroclor-1260		0.21	ug/L	P	J	EPA:608
W-SMA-4	E252.8	08/12/05	WT	UF	RE	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J	SW-846:8330
W-SMA-4	E252.8	08/12/05	WT	UF	CS	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J-	SW-846:8330
W-SMA-4	E252.8	08/12/05	WT	UF	CS	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J	SW-846:8330

Table B9. FFCA Site-Specfic Storm Water Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag	Anyl Meth Code
W-SMA-4	E252.8	08/12/05	WT	UF	RE	GU0508E252801	2691-41-0	HMX		1.8	ug/L		J-	SW-846:8330
W-SMA-4	E252.8	08/12/05	WT	UF	RE	GU0508E252801	121-82-4	RDX		0.33	ug/L	J	J-	SW-846:8330
W-SMA-4	E252.8	08/12/05	WT	UF	RE	GU0508E252801	121-82-4	RDX		0.33	ug/L	J	J	SW-846:8330
W-SMA-4	E252.8	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J-	SW-846:8330
W-SMA-4	E252.8	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J	SW-846:8330
W-SMA-4	E252.8	08/24/05	WT	UF	CS	GU0508E252802	2691-41-0	HMX		1.2	ug/L		J	SW-846:8330
W-SMA-5	SS2528	07/15/05	WT	UF	CS	GU0507K252801	56-55-3	Benzo(a)anthracene		0.43	ug/L	J		EPA:625
W-SMA-5	SS2528	07/15/05	WT	UF	CS	GU0507K252801	218-01-9	Chrysene		0.39	ug/L	J		EPA:625
W-SMA-5	SS2528	07/15/05	WT	UF	CS	GU0507K252801	206-44-0	Fluoranthene		0.91	ug/L	J		EPA:625
W-SMA-5	SS2528	07/15/05	WT	UF	CS	GU0507K252801	85-01-8	Phenanthrene		0.7	ug/L	J		EPA:625
W-SMA-5	SS2528	07/15/05	WT	UF	CS	GU0507K252801	129-00-0	Pyrene		0.76	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	83-32-9	Acenaphthene		0.4	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	120-12-7	Anthracene		0.5	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	56-55-3	Benzo(a)anthracene		1.1	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	50-32-8	Benzo(a)pyrene		1.1	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	205-99-2	Benzo(b)fluoranthene		1.4	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	191-24-2	Benzo(g,h,i)perylene		0.79	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	207-08-9	Benzo(k)fluoranthene		0.55	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	218-01-9	Chrysene		1.3	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	206-44-0	Fluoranthene		2.3	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	86-73-7	Fluorene		0.34	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	193-39-5	Indeno(1,2,3-cd)pyrene		0.64	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	91-20-3	Naphthalene		0.35	ug/L	J		EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	85-01-8	Phenanthrene		1.8	ug/L			EPA:625
W-SMA-5	SS2528	08/04/05	WT	UF	CS	GU0508K252801	129-00-0	Pyrene		2.2	ug/L			EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	120-12-7	Anthracene		0.23	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	56-55-3	Benzo(a)anthracene		0.66	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	50-32-8	Benzo(a)pyrene		0.59	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	205-99-2	Benzo(b)fluoranthene		1	ug/L		J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	191-24-2	Benzo(g,h,i)perylene		0.43	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	218-01-9	Chrysene		0.66	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	206-44-0	Fluoranthene		1.4	ug/L		J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	193-39-5	Indeno(1,2,3-cd)pyrene		0.35	ug/L	J	J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	85-01-8	Phenanthrene		1	ug/L		J	EPA:625
W-SMA-5	SS2528	08/11/05	WT	UF	CS	GU0508K252802	129-00-0	Pyrene		1.4	ug/L		J	EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	120-12-7	Anthracene		0.35	ug/L	J		EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	50-32-8	Benzo(a)pyrene		1	ug/L		J	EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	205-99-2	Benzo(b)fluoranthene		2	ug/L		J	EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	218-01-9	Chrysene		1.2	ug/L			EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	206-44-0	Fluoranthene		2	ug/L			EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	86-73-7	Fluorene		0.22	ug/L	J		EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	85-01-8	Phenanthrene		1.6	ug/L			EPA:625
W-SMA-5	SS2528	09/04/05	WT	UF	CS	GU0509K252801	129-00-0	Pyrene		2.8	ug/L			EPA:625
W-SMA-7	SS25243	05/27/05	WT	UF	CS	GU05062524301	99-08-1	Nitrotoluene[3-]		0.4	ug/L	J	J	SW-846:8330
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	120-12-7	Anthracene		0.23	ug/L	J		EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	56-55-3	Benzo(a)anthracene		1	ug/L	J		EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	50-32-8	Benzo(a)pyrene		0.99	ug/L	J		EPA:625

Table B9. FFCA Site-Specfic Storm Water Monitoring, 2005
Analytical Results for Detected Organics

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	Analyte	Analyte Desc	Sym	Result	Units	Lab Qualifier	Validation Flag	Anyl Meth Code
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	205-99-2	Benzo(b)fluoranthene		2.1	ug/L			EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	191-24-2	Benzo(g,h,i)perylene		0.65	ug/L	J		EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	218-01-9	Chrysene		1.5	ug/L			EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	206-44-0	Fluoranthene		2.9	ug/L			EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	85-01-8	Phenanthrene		0.98	ug/L	J		EPA:625
W-SMA-8	SS2523	08/04/05	WT	UF	CS	GU0508K252301	129-00-0	Pyrene		2.2	ug/L			EPA:625
W-SMA-8	SS2523	08/12/05	WT	UF	CS	GU0508K252302	50-32-8	Benzo(a)pyrene		0.25	ug/L	J		EPA:625
W-SMA-8	SS2523	08/12/05	WT	UF	CS	GU0508K252302	207-08-9	Benzo(k)fluoranthene		0.33	ug/L	J		EPA:625
W-SMA-8	SS2523	08/12/05	WT	UF	CS	GU0508K252302	206-44-0	Fluoranthene		0.61	ug/L	J		EPA:625
W-SMA-8	SS2523	08/12/05	WT	UF	CS	GU0508K252302	129-00-0	Pyrene		0.55	ug/L	J		EPA:625
W-SMA-8	SS2523	10/04/05	WT	UF	CS	GU0510K252301	117-81-7	Bis(2-ethylhexyl)phthalate		3	ug/L	J		EPA:625
W-SMA-10	SS25245	08/04/05	WT	UF	RE	GU05082524501	2691-41-0	HMX		10.8	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	CS	GU05082524501	2691-41-0	HMX		6	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	CS	GU05082524501	2691-41-0	HMX		6	ug/L		J-	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	RE	GU05082524501	121-82-4	RDX		7.6	ug/L	BPX	JN+	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	CS	GU05082524501	121-82-4	RDX		1.6	ug/L	BPX	J-	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	CS	GU05082524501	121-82-4	RDX		1.6	ug/L	BPX	J	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	CS	GU05082524501	121-82-4	RDX		1.6	ug/L	BPX	JN+	SW-846:8330
W-SMA-10	SS25245	08/04/05	WT	UF	RE	GU05082524501	121-82-4	RDX		7.6	ug/L	BPX	J	SW-846:8330
W-SMA-10	SS25245	08/12/05	WT	UF	RE	GU05082524502	2691-41-0	HMX		3.6	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/12/05	WT	UF	RE	GU05082524502	2691-41-0	HMX		3.6	ug/L		J-	SW-846:8330
W-SMA-10	SS25245	08/12/05	WT	UF	CS	GU05082524502	2691-41-0	HMX		2.2	ug/L		J-	SW-846:8330
W-SMA-10	SS25245	08/12/05	WT	UF	CS	GU05082524502	2691-41-0	HMX		2.2	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/24/05	WT	UF	CS	GU05082524503	2691-41-0	HMX		1.6	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/24/05	WT	UF	CS	GU05082524503	2691-41-0	HMX		1.6	ug/L		J	SW-846:8330
W-SMA-10	SS25245	08/24/05	WT	UF	CS	GU05082524503	2691-41-0	HMX		1.6	ug/L		J-	SW-846:8330

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Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:900			EPA:900			EPA:901.1			EPA:901.1			EPA:901.1			EPA:901.1		
							Gross Alpha			Gross Beta			Cobalt-60			Cesium-137			Potassium-40			Sodium-22		
							pCi/L			pCi/L			pCi/L			pCi/L			pCi/L			pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
2M-SMA-1	E243.5	16-APR-2005	WT	UF	CS	GU0504E243501	1.44	0.691	2.34	31	1.61	3.71	-0.167	0.633	2.25	0.597	0.633	2.28	44.6	15.8	20.1	-0.512	0.568	1.96
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	CS	GU0505E243502	12.7	1.25	1.75	21.1	1.26	2.73	-0.0507	0.803	2.94	1.1	0.818	3.07	15.8	16.8	25.3	-0.762	0.721	2.51
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	CS	GU0506E243501	4.52	0.705	1.43				-0.313	0.783	2.74	0.238	0.851	2.95	20.7	9.46	36.3	-0.65	0.99	2.86
2M-SMA-1	E243.5	15-JUL-2005	WT	UF	CS	GU0507E243501	10.6	1.22	2.32	23.8	4.23	13.5	0.281	0.918	3.46	0.933	0.784	2.99	21.5	21.6	30.2			
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	CS	GU0506K243201	9.62	1.1	1.49	23.6	1.29	2.76	1.18	0.783	3.12	1.26	0.765	2.87	1.52	12.9	28	0.0971	0.786	2.9
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	CS	GU0506K243202	0.768	0.55	2.31	7.83	0.809	2.51	0.202	0.556	2.04	0.288	0.561	1.96	7.78	14.8	18.3	0.714	0.562	2.14
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	CS	GU0506K243203	7.63	1.25	3.21	6.2	0.706	1.93	-0.188	0.815	2.94	0.461	0.799	2.88	17.8	17.3	26.3	0.158	0.825	3.04
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	CS	GU0507K243201	30.7	2.05	2.16	45.8	5.23	14.8	1.77	1.09	3.79	0.381	0.958	3.48	106	20.3	34.4	-0.402	1.14	4.09
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	CS	GU0508K245901																		
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	CS	GU0508K245902	112	8.81	7.07	181	10.9	18.3	4	1.4	6.7	1.75	2.06	7.88				2.92	2.02	7.94
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0509K245901	54.8	7.47	10.3	134	8.16	14.1	2.02	1.93	6.86	-0.874	2	6.08	97.8	37.3	59.5	-0.746	1.92	6.91
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0510K245901	4.63	1.46	2.99	13.9	2.39	7.78	0.0791	1.29	4.65	0.12	1.25	4.32	15.7	29.1	37.1	-0.292	1.16	4.14
3M-SMA-0.6	SS2457	12-AUG-2005	WT	UF	CS	GU0508K245702	405	13.1	2.03	511	9.39	2.57	1.71	2	7.91	1.73	2.02	7.45	53.8	35.2	59.9	0.76	1.81	7.04
3M-SMA-0.6	SS2457	24-AUG-2005	WT	UF	CS	GU0508K245704	987	61.4	2.33	501	10.5	4.93				-1.47	1.68	5.71	42.1	35.5	55.9	-3.06	1.58	5.12
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0509K245702	12.3	2.1	2.98	18.6	2.5	7.31	1.7	1.19	4.49	0.205	1.12	3.89				2.24	1.07	3.84
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0510K245701	133	8.83	4.59	155	7.23	10.3	1.56	1.22	4.71	-2.01	1.29	3.55	14.7	20.5	42.7	2	1.17	4.62
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	CS	GU0508E055501																		
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	CS	GU0508E055503	43.1	3.21	1.79	26.2	2.96	7.72	-1.92	1.36	3.71	2.38	1.33	4.83	31.5	31	52.2	0.298	1.32	4.24
ACID-SMA-2	E056	24-AUG-2005	WT	UF	CS	GU05080E05602	153	16.9	18.4	164	10.5	21	0.983	1.08	4.03							0.232	1.17	4.2
ACID-SMA-2	E056	28-SEP-2005	WT	UF	CS	GU05090E05601	95.4	12.5	9.75	62.4	6.02	13.5	-0.987	1.36	4.71	1.34	1.13	4.21	94.9	23.6	44.5	-1.7	1.33	4.44
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	CS	GU0508K218801	7.08	1.87	3.76	26.8	1.34	3.1	-1.09	1.73	6.26	-1.04	2.05	6.24	38	44.4	60.5	0.274	1.25	5.17
CDB-SMA-4	E227	17-JUL-2005	WT	UF	CS	GU05070E22701																		
CDB-SMA-4	E227	28-SEP-2005	WT	UF	CS	GU05100E22701	106	10.9	11.8	247	12.2	16.7	-0.22	1.55	4.89	0.427	1.38	4.94	174	36.1	42.1	0.944	1.6	5.62
CDB-SMA-4	E227	09-OCT-2005	WT	UF	CS	GU05100E22702	31.2	4.47	8.42	69.4	4.24	8.43	2.96	1.34	5.32	-0.913	1.35	4.63	188	40.3	50.5	0.269	1.38	5.02
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	CS	GU05080K25501	23.5	3.29	4.48	30.4	1.54	3.62	6.78	1.67	9.47	4.17	2.44	9.24	59	36.9	93.5	0.435	2.47	8.12
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	CS	GU0508K037502	54.1	7.51	15.3	72.5	2.47	4.07				0.378	1.26	4.41	24.8	31.8	39.7	1.53	0.998	4.24
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	CS	GU0508K037503	15	2.05	2.62	28.4	2.33	4.94	-0.242	1.69	6.26	2.27	1.7	6.44				3.4	1.7	7.24
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	CS	GU0508K037504	64.5	8.33	10.6	114	7.64	15	0.835	1.45	5.34	0.235	1.29	4.53	35.7	31.2	52.1	-0.00999	1.35	4.87
DP-SMA-0.3	SS0375	04-SEP-2005	WT	UF	CS	GU0509K037501																		
DP-SMA-0.3	SS0375	28-SEP-2005	WT	UF	CS	GU0510K037501	19.9	3.25	5.5	39	3.68	8.81	0.918	1.01	3.77	11.3	2.62	3.7				1.32	1.14	4.22
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	CS	GU0508K038801	27.9	3.98	8.53	40.1	1.59	3.06	0.422	1.14	4.14	12.3	2.02	3.64				0.00611	1.06	3.79
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	CS	GU0508K038802	22	3.9	2.66	35	2.65	5.77	-2.13	1.92	6.59	0.958	1.77	6.7				-0.76	1.84	6.77
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	CS	GU0508K038803	47.2	4.83	4.53	49	3.71	7.01	0.311	1.47	5.36	1.67	1.34	5				-2.05	1.47	4.93
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	CS	GU0509K038801	13.4	2.77	5.9	26.2	3.17	8.62	3.01	1.38	5.05	-0.608	1.23	4.09	19.3	25.6	36.4	-0.374	1.45	4.25
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	CS	GU0508K038501	26.4	4.6	6.45	91	5.54	9.72	0.172	1.37	5.54	21.5	3.17	6.34	60.2	27.6	112	-0.274	1.81	6.83
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	CS	GU0508K038502	62.8	8.08	9.91	127	7.98	14	1.81	1.15	5.27	28.3	3.07	4.29				0.249	1.25	4.6
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	CS	GU0508K038701	48	5.38	7.47	71.5	2.41	3.19	-0.14	1.06	3.77	2.49	1.11	4.07	3.67	23.4	44.7	-0.138	1.05	3.74
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	CS	GU0508K038702	65.5	8.43	12.6	147	10.1	18.5	13.5	3.4	5.68	0.512	1.55	5.57	27.3	39.1	53.4	-1.22	1.72	6.04
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	CS	GU0508K038703	296	38.6	76.6	536	39.4	75	4.82	1.93	7.58	4.97	2.02	7.34	327	42.2	67.7	2.36	1.91	7.15
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	CS	GU0510K038701	41.2	5.8	8.32	81.6	6.49	14.1	1.49	1.07	3.98	0.968	1.04	3.63	77.6	28.6	30.9	0.383	1.02	3.69
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	CS	GU0507K026302	17.5	1.65	2.88	53.8	5.76	16	-1.22	0.923	3.08	-0.706	0.951	3.29	70	22.8	38.8	-0.37	0.994	3.63
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	CS	GU0508K026301	11.6	2.57	5.31	40.5	3.48	8.11	1.67	1.17	4.44	-1.05	1.09	3.72				0.704	1.22	4.46
LA-SMA-1 (A)	SS0263	11-AUG-2005	WT	UF	CS	GU0508K026303	32.2	5.51	11.4	58.6	3.83	6.31	0.316	1.14	4.1	0.599	1.06	3.76	12.7	27.5	38	-2.5	1.36	3.62
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	CS	GU0508K026304	46.9	7.92	18.7	69.6	8	22.5	1.8	1.27	4.77	0.123	1.01	3.5	16.1	26.9	40.8	1.2	1.09	4.11
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	CS	GU0505K026401																		
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	CS	GU0505K026402	9.74	0.978	1.44	34.6	1.32	2.56	2.62	0.995	3.4	-0.419	0.703	2.43				0.441	0.741	2.84
LA-SMA-1 (B)	SS0264	15-JUL-2005	WT	UF	CS	GU0507K026401	464	63.9	92.2	909	71.4	175	0.384	1.36	4.34	4.21	1.34	3.44	209	23.5	34.8	0.286	1.26	4.59
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	CS	GU05070264501	281	30	30.5	863	42.1	60.2	-0.667	1.1	3.85	6.13	1.92	2.82	120	23.1	35.4	0.897	1.02	3.63
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	CS	GU05080264501	118	17.1	21.7	312	19.1	30.9	1.12	1.52	5.7	3.68	1.55	5.95				-1.12	1.99	5.84
LA-SMA-10	SS037	11-AUG-2005	WT	UF	CS	GU05080K03701	81.3	13.5	7.18	129	3.03	3.38	4.64	1.3	5.14							-0.711	1.21	4.11
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	CS	GU0508K026701	172	14.2	11.2	126	4.56	7.28	2.44	1.51	5.6	0.0812	1.32	4.51				-0.0317	1.71	5.12
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	CS	GU0508K026702	74.4	6.65	6.47	88.8	7.26	5.39	-0.138	2.59	9.47	-0.28	2.37	8.29	79.7	31.8	93.5	3.95	2.45	9.29
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	CS	GU0508K026703	29.8	3.67	5.22	74.9	4.39	7.89	-1.06	1.44	4.99	-1.9	1.45	4.72	56	31.1	56.9	-0.722	1.36	4.81
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	CS	GU0505K026801	17.7	1.47	2.25	37.1	1.17	2.08	1.73	0.771	3.01	0.866	0.711	2.55				1.17	0.694	2.69
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	CS	GU0507K026801	67.4	4.24	3.69	92.5	7.64	18.6	2.37	0.69	2.78	1.03	0.678	2.42	89.2	15.6	19.1	0.731	0.623	2.34
LA-SMA-5	SS0268	04-AUG-2005	WT	UF	CS	GU0508K026801	46.8	5.71	8.05	81	5.39	10	0.858	1.17	4.31	1.34	1.27	4.53	30.6	22.1	38.5	-2.22	1.16	3.77
LA-SMA-5	SS0268	22-AUG-2005	WT	UF	CS	GU0508K026802																		

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:901.1 Neptunium-237 pCi/L			EPA:905.0 Strontium-90 pCi/L			EPA:906.0 Tritium pCi/L			HASL-300:AM-241 Am-241 pCi/L			HASL-300:ISOPU Pu-238 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
2M-SMA-1	E243.5	16-APR-2005	WT	UF	CS	GU0504E243501	-1.6	5.66	17.4	0.128	0.0795	0.331	114	62.8	206	0.00935	0.00676	0.03	0.00536	0.00536	0.037
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	CS	GU0505E243502	-8.83	6.71	21.9	0.114	0.0768	0.293	58.9	56.5	188	-0.00384	0.00599	0.044	0.015	0.00993	0.039
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	CS	GU0506E243501	11	6.43	21.9	0.0567	0.084	0.386	96.1	56.8	187	0.00422	0.0141	0.086	0.00727	0.00728	0.038
2M-SMA-1	E243.5	15-JUL-2005	WT	UF	CS	GU0507E243501	2.81	7.12	23.3	0.0211	0.0579	0.227	42.2	74.1	250	0.00908	0.0201	0.05	0.0335	0.0116	0.037
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	CS	GU0506K243201	-5.87	6.19	20.9	4.34	0.18	0.3	27.9	55.6	187	0.0125	0.00731	0.038	-0.0023	0.0069	0.048
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	CS	GU0506K243202	-3.02	4.35	14.3	0.213	0.0841	0.326	94.5	53.2	174	0.000604	0.00738	0.057	0.00243	0.00243	0.05
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	CS	GU0506K243203	-6.65	6.86	21.4	0.199	0.0844	0.331	38.4	65.5	221	-0.0106	0.00856	0.031	-0.00257	0.00772	0.053
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	CS	GU0507K243201	0.245	7.63	26.7	0.0917	0.0544	0.197	78.8	64.3	214	0.0182	0.013	0.039	0.00991	0.00992	0.051
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	CS	GU0508K245901							17.1	68.7	233						
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	CS	GU0508K245902	26.8	19.6	52.9	1.12	0.103	0.262				0.0272	0.0112	0.045	0.0146	0.0052	0.0379
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0509K245901	-12.1	12.5	39.3	0.27	0.0818	0.293	79.7	67	223	0.0172	0.00788	0.0562	0.00385	0.00609	0.04
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0510K245901	5.11	7.92	27.1	0.0341	0.063	0.295	79.7	65.1	216	-0.024	0.0125	0.0361	0.0035	0.00743	0.0364
3M-SMA-0.6	SS2457	12-AUG-2005	WT	UF	CS	GU0508K245702	3.33	12.9	45.6	0.263	0.0529	0.17	207	72.4	231	0.0486	0.0139	0.035	0.00934	0.00674	0.039
3M-SMA-0.6	SS2457	24-AUG-2005	WT	UF	CS	GU0508K245704	28	16.5	39	33.6	0.571	0.222	566	68.8	189	0.212	0.0291	0.0481	0.0266	0.0143	0.0502
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0509K245702	15.7	9.93	29.6	2.71	0.235	0.453	137	78	255	0.138	0.0215	0.0368	0.0154	0.0177	0.0639
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0510K245701							119	65.8	215				0.0223	0.013	0.0357
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	CS	GU0508E055501							77.1	60.9	202						
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	CS	GU0508E055503	8.26	8.19	28.1	2.54	0.167	0.318	156	58.7	187	3.11	0.196	0.036	0.825	0.173	0.535
ACID-SMA-2	E056	24-AUG-2005	WT	UF	CS	GU05080E05602	-2.47	8.28	26.3	0.297	0.0533	0.166				6.37	0.375	0.031	0.42	0.141	0.581
ACID-SMA-2	E056	28-SEP-2005	WT	UF	CS	GU05090E05601	0.769	10.6	31.4	0.16	0.0838	0.347				2.55	0.145	0.0403	0.13	0.0165	0.0337
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	CS	GU0508K218801	7.17	14.4	44.2	0.151	0.055	0.207	-5.49	65.5	224	-0.00472	0.00796	0.03	0.0103	0.0103	0.043
CDB-SMA-4	E227	17-JUL-2005	WT	UF	CS	GU05070E22701							141	63.2	205						
CDB-SMA-4	E227	28-SEP-2005	WT	UF	CS	GU05100E22701	16.7	7.17	16.8	0.0442	0.0707	0.325	39.3	63.1	213	0.129	0.0199	0.0313	0.112	0.0176	0.0517
CDB-SMA-4	E227	09-OCT-2005	WT	UF	CS	GU05100E22702	4.59	12	28.3	0.343	0.12	0.468	159	66.8	215	0.182	0.0277	0.033	0.156	0.024	0.0624
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	CS	GU05080K25501	5.81	22.7	51.7	0.271	0.0773	0.275	151	58.5	187	0.015	0.018	0.0343	0.00184	0.00412	0.0382
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	CS	GU0508K037502	1.61	8.25	26.4	0.589	0.0741	0.21	-35.8	65.1	225	0.0329	0.0134	0.035	-0.00203	0.00929	0.042
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	CS	GU0508K037503	-2.56	11.3	38.7	0.135	0.0641	0.245	180	65	207	0.047	0.0124	0.0404	0.0117	0.0126	0.0485
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	CS	GU0508K037504	14.1	8.18	27.1	0.237	0.0562	0.191	0	66.7	229	0.0528	0.0128	0.047	-3.41E-09	0.00945	0.0371
DP-SMA-0.3	SS0375	04-SEP-2005	WT	UF	CS	GU0509K037501							163	68.5	221						
DP-SMA-0.3	SS0375	28-SEP-2005	WT	UF	CS	GU0510K037501	-4.58	6	20.8	0.186	0.0694	0.259				0.0159	0.00909	0.0467	-0.00761	0.0108	0.0395
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	CS	GU0508K038801	10.8	8.29	24.9	0.28	0.0566	0.185	85.2	67.7	225	3.3	0.194	0.049	1.47	0.0848	0.035
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	CS	GU0508K038802	-2.3	12.1	38.1	0.571	0.0952	0.3	166	64.7	208	4.82	0.292	0.0349	2.84	0.124	0.0401
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	CS	GU0508K038803	4.12	7.52	26.4	0.0987	0.0479	0.19	121	68.7	225	2.57	0.144	0.0361	0.321	0.0283	0.0403
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	CS	GU0509K038801	24.5	8.04	26.2	-0.131	0.0884	0.458	197	63.2	200	4.48	0.231	0.0328	1.93	0.0841	0.0311
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	CS	GU0508K038501	6.28	13.4	44.6	13	0.345	0.29	251	65.2	203	3.42	0.21	0.0328	0.368	0.033	0.0449
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	CS	GU0508K038502	-13.1	8.93	29.7	9.93	0.268	0.277	81.8	68.8	229	9.07	0.434	0.0279	0.074	0.0167	0.0427
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	CS	GU0508K038701	6.28	5.92	21	0.499	0.0717	0.22	1150	88	221	0.419	0.0364	0.034	0.0163	0.0201	0.048
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	CS	GU0508K038702	0.905	11.3	36.4	1.41	0.11	0.249	1410	86.9	197	1.28	0.0862	0.0452	0.277	0.0432	0.0973
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	CS	GU0508K038703	17.7	12	41	1.29	0.148	0.429	813	81.6	213	2.82	0.16	0.0414	0.0232	0.0174	0.0601
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	CS	GU0510K038701	2.17	7.02	23.7	0.175	0.0685	0.26	1190	146	362	1.28	0.0904	0.0375	-0.0142	0.0511	0.294
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	CS	GU0507K026302	1.18	8.7	28.4	0.21	0.0434	0.14				0.0376	0.0137	0.064	0.0224	0.0112	0.058
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	CS	GU0508K026301	-6.82	6.28	21.3	0.0823	0.0526	0.22	116	62.2	203	0.00393	0.00969	0.042	0.00529	0.00808	0.037
LA-SMA-1 (A)	SS0263	11-AUG-2005	WT	UF	CS	GU0508K026303	7.14	8.41	25.1							0.0169	0.0068	0.034	0.0131	0.0107	0.045
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	CS	GU0508K026304	13.7	7.16	24.6	0.354	0.0697	0.225				0.027	0.00815	0.0379	-0.00516	0.00788	0.0357
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	CS	GU0505K026401							86.3	72.9	242						
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	CS	GU0505K026402	2.77	5.36	19.1	0.102	0.0697	0.281	116	73.8	243	-0.0185	0.0163	0.047	0.016	0.0141	0.055
LA-SMA-1 (B)	SS0264	15-JUL-2005	WT	UF	CS	GU0507K026401	4.65	8.07	27.7	2.12	0.135	0.251				0.442	0.0412	0.038	0.0363	0.0156	0.05
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	CS	GU05070264501	2.15	5.54	18.4	1.86	0.144	0.376	91.7	59.5	196	0.242	0.0284	0.035	0.0713	0.0332	0.106
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	CS	GU05080264501	4.01	12.3	37.8	0.525	0.0675	0.209	163	70.4	228	0.0348	0.0139	0.0385	0.0178	0.00846	0.0528
LA-SMA-10	SS037	11-AUG-2005	WT	UF	CS	GU05080K03701	-7.78	10.8	36.3				173	66.1	212	-0.0307	0.0395	0.127	0.00433	0.00685	0.045
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	CS	GU0508K026701	9.44	8.78	29.8							1.12	0.072	0.033	0.268	0.165	0.696
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	CS	GU0508K026702	13.3	21.9	45.2	0.18	0.0742	0.257				0.663	0.0497	0.035	0.186	0.0256	0.056
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	CS	GU0508K026703	11.6	10.3	32.1	0.334	0.0637	0.203	81.6	68.7	228	1.24	0.0782	0.0337	0.00724	0.0298	0.15
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	CS	GU0505K026801	10.7	5.89	17.2	0.0743	0.075	0.251				-0.00216	0.0128	0.035	0	0.00351	0.036
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	CS	GU0507K026801	12.5	5.47	16.7	0.244	0.0756	0.257				0.0644	0.0155	0.051	0.0211	0.0149	0.109
LA-SMA-5	SS0268	04-AUG-2005	WT	UF	CS	GU0508K026801	14.6	8.98	29.6	0.253	0.0685	0.254	117	62.9	206	0.0226	0.0106	0.036	0.0213	0.00744	0.044
LA-SMA-5	SS0268	22-AUG-2005	WT	UF	CS	GU0508K026802							222	68.4	216						

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	HASL-300:ISOPU			HASL-300:ISOU			HASL-300:ISOU			HASL-300:ISOU		
							Pu-239,240			U-234			U-235,236			U-238		
							pCi/L			pCi/L			pCi/L			pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
2M-SMA-1	E243.5	16-APR-2005	WT	UF	CS	GU0504E243501	0.0125	0.00474	0.031	0.495	0.0394	0.059	0.0506	0.0113	0.036	0.573	0.043	0.042
2M-SMA-1	E243.5	27-MAY-2005	WT	UF	CS	GU0505E243502	0.00561	0.00621	0.033	0.255	0.0257	0.059	0.0231	0.00676	0.036	0.248	0.0249	0.041
2M-SMA-1	E243.5	11-JUN-2005	WT	UF	CS	GU0506E243501	0.00363	0.00445	0.032	0.327	0.0288	0.06	0.0276	0.00889	0.037	0.411	0.0324	0.042
2M-SMA-1	E243.5	15-JUL-2005	WT	UF	CS	GU0507E243501	-0.00176	0.00584	0.031	0.399	0.0355	0.063	0.0562	0.0164	0.047	0.267	0.0297	0.045
2M-SMA-1	SS2432	27-MAY-2005	WT	UF	CS	GU0506K243201	0.0138	0.00565	0.04	0.415	0.0324	0.058	0.0134	0.00789	0.035	0.432	0.0328	0.041
2M-SMA-1	SS2432	13-JUN-2005	WT	UF	CS	GU0506K243202	0.00243	0.00421	0.043	0.128	0.0197	0.07	-0.00916	0.00794	0.043	0.137	0.0188	0.049
2M-SMA-1	SS2432	26-JUN-2005	WT	UF	CS	GU0506K243203	0.00515	0.0063	0.045	0.14	0.0221	0.072	0.0238	0.00898	0.044	0.123	0.0187	0.051
2M-SMA-1	SS2432	23-JUL-2005	WT	UF	CS	GU0507K243201	0.124	0.0188	0.043	2.61	0.182	0.133	0.232	0.0377	0.1	3.15	0.213	0.094
3M-SMA-0.5	SS2459	12-AUG-2005	WT	UF	CS	GU0508K245901												
3M-SMA-0.5	SS2459	24-AUG-2005	WT	UF	CS	GU0508K245902	0.0493	0.0132	0.032	17.3	0.995	0.161	1.79	0.146	0.121	36.8	2.07	0.114
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0509K245901	0.0366	0.0111	0.0338									
3M-SMA-0.5	SS2459	29-SEP-2005	WT	UF	CS	GU0510K245901	0.00525	0.00526	0.0307	1.25	0.0799	0.0682	0.152	0.0217	0.0513	2.67	0.149	0.0483
3M-SMA-0.6	SS2457	12-AUG-2005	WT	UF	CS	GU0508K245702	0.289	0.0269	0.033	65.9	3.7	0.859	10.1	0.798	0.647	456	24	0.609
3M-SMA-0.6	SS2457	24-AUG-2005	WT	UF	CS	GU0508K245704	0.604	0.0452	0.0424	214	17.9	7.26	28.2	3.86	5.55	1420	109	5.19
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0509K245702	0.271	0.0306	0.0539	331	22.9	4.59	65.5	5.55	3.46	2220	147	3.25
3M-SMA-0.6	SS2457	29-SEP-2005	WT	UF	CS	GU0510K245701	0.0704	0.0145	0.0301	18.6	1.32	0.24	3.29	0.287	0.18	121	8.28	0.17
ACID-SMA-2	E0555	05-AUG-2005	WT	UF	CS	GU0508E055501												
ACID-SMA-2	E0555	25-AUG-2005	WT	UF	CS	GU0508E055503	235	8.26	0.452	1.69	0.0851	0.0586	0.126	0.0185	0.0441	1.15	0.0636	0.0415
ACID-SMA-2	E056	24-AUG-2005	WT	UF	CS	GU05080E05602	106	3.99	0.491	9.36	0.502	0.179	0.821	0.0865	0.135	8.01	0.438	0.127
ACID-SMA-2	E056	28-SEP-2005	WT	UF	CS	GU05090E05601	27	0.931	0.0285									
CDB-SMA-2	SS2188	12-AUG-2005	WT	UF	CS	GU0508K218801	0.0185	0.00748	0.036	0.727	0.0583	0.109	0.0397	0.0147	0.0819	0.849	0.0631	0.077
CDB-SMA-4	E227	17-JUL-2005	WT	UF	CS	GU05070E22701												
CDB-SMA-4	E227	28-SEP-2005	WT	UF	CS	GU05100E22701	0.277	0.0288	0.0437	10.4	0.566	0.102	1.08	0.0872	0.0769	11.1	0.603	0.0723
CDB-SMA-4	E227	09-OCT-2005	WT	UF	CS	GU05100E22702	0.45	0.0429	0.0527	8.14	0.439	0.0782	0.418	0.0436	0.0589	8.07	0.436	0.0554
CDV-SMA-2	SS255	24-AUG-2005	WT	UF	CS	GU05080K25501	0.0533	0.0105	0.0322	1.69	0.103	0.0708	0.152	0.0221	0.0533	1.68	0.102	0.0501
DP-SMA-0.3	SS0375	12-AUG-2005	WT	UF	CS	GU0508K037502	0.0405	0.012	0.036	1.09	0.0858	0.125	0.0506	0.0177	0.0941	1.46	0.104	0.0885
DP-SMA-0.3	SS0375	22-AUG-2005	WT	UF	CS	GU0508K037503	0.245	0.0261	0.0409	2.79	0.165	0.0856	0.267	0.0332	0.0645	3.21	0.186	0.0606
DP-SMA-0.3	SS0375	24-AUG-2005	WT	UF	CS	GU0508K037504	-0.0214	0.00801	0.0313	2.47	0.15	0.0932	0.155	0.0265	0.0701	2.64	0.158	0.066
DP-SMA-0.3	SS0375	04-SEP-2005	WT	UF	CS	GU0509K037501												
DP-SMA-0.3	SS0375	28-SEP-2005	WT	UF	CS	GU0510K037501	0.297	0.0267	0.0333				0.367	0.0451	0.0852			
DP-SMA-0.9	SS0388	12-AUG-2005	WT	UF	CS	GU0508K038801	4.53	0.227	0.03	6.04	0.387	0.228	0.324	0.0617	0.172	3.88	0.269	0.162
DP-SMA-0.9	SS0388	22-AUG-2005	WT	UF	CS	GU0508K038802	10.6	0.395	0.0339	4.74	0.296	0.211	0.539	0.0738	0.159	3.34	0.224	0.149
DP-SMA-0.9	SS0388	24-AUG-2005	WT	UF	CS	GU0508K038803	1.18	0.0629	0.0341	1.99	0.121	0.0858	0.157	0.0302	0.0646	1.2	0.0833	0.0608
DP-SMA-0.9	SS0388	29-SEP-2005	WT	UF	CS	GU0509K038801	8.42	0.301	0.0263	3.82	0.206	0.0597	0.334	0.0329	0.0449	2.67	0.149	0.0423
DP-SMA-1	SS0385	22-AUG-2005	WT	UF	CS	GU0508K038501	2.41	0.112	0.038	1.85	0.107	0.064	0.153	0.023	0.0482	1.81	0.106	0.0453
DP-SMA-1	SS0385	24-AUG-2005	WT	UF	CS	GU0508K038502	0.351	0.0301	0.036	2.41	0.146	0.103	0.172	0.0286	0.0778	1.75	0.113	0.0731
DP-SMA-2	SS0387	12-AUG-2005	WT	UF	CS	GU0508K038701	4.17	0.219	0.041	28	1.59	0.524	2.34	0.254	0.394	20.3	1.19	0.371
DP-SMA-2	SS0387	22-AUG-2005	WT	UF	CS	GU0508K038702	11.9	0.541	0.0822	15.6	0.837	0.323	0.994	0.126	0.243	12.9	0.709	0.228
DP-SMA-2	SS0387	24-AUG-2005	WT	UF	CS	GU0508K038703	0.602	0.0479	0.0508	17.6	0.928	0.326	1.07	0.129	0.245	14.9	0.801	0.231
DP-SMA-2	SS0387	03-OCT-2005	WT	UF	CS	GU0510K038701	3.17	0.241	0.248				0.919	0.0929	0.129			
LA-SMA-1 (A)	SS0263	20-JUL-2005	WT	UF	CS	GU0507K026302	0.0336	0.0113	0.049	0.726	0.0527	0.065	0.0557	0.0124	0.049	0.76	0.0543	0.046
LA-SMA-1 (A)	SS0263	04-AUG-2005	WT	UF	CS	GU0508K026301	0.00176	0.0126	0.031	0.729	0.0515	0.062	0.0376	0.0105	0.047	0.824	0.0564	0.044
LA-SMA-1 (A)	SS0263	11-AUG-2005	WT	UF	CS	GU0508K026303	0.0349	0.012	0.038	0.999	0.0819	0.135	0.104	0.0268	0.102	0.95	0.0795	0.0958
LA-SMA-1 (A)	SS0263	24-AUG-2005	WT	UF	CS	GU0508K026304	-0.0258	0.00671	0.0301	1.25	0.0857	0.0852	0.121	0.0224	0.0642	1.31	0.0889	0.0604
LA-SMA-1 (B)	SS0264	03-MAY-2005	WT	UF	CS	GU0505K026401												
LA-SMA-1 (B)	SS0264	01-MAY-2005	WT	UF	CS	GU0505K026402	0.0133	0.00887	0.047	1.47	0.0944	0.079	0.127	0.0198	0.048	1.4	0.091	0.056
LA-SMA-1 (B)	SS0264	15-JUL-2005	WT	UF	CS	GU0507K026401				20	1.27	0.197	1.05	0.112	0.149	21.8	1.38	0.14
LA-SMA-1.2	SS02645	15-JUL-2005	WT	UF	CS	GU05070264501	0.361	0.0468	0.089	9.06	0.493	0.148	0.79	0.0789	0.111	10.4	0.559	0.104
LA-SMA-1.2	SS02645	24-AUG-2005	WT	UF	CS	GU05080264501	0.0915	0.0171	0.0446	2.24	0.149	0.132	0.193	0.036	0.0994	2.51	0.162	0.0935
LA-SMA-10	SS037	11-AUG-2005	WT	UF	CS	GU05080K03701	0.0649	0.0155	0.038	2.67	0.176	0.12	0.272	0.0397	0.09	3.08	0.198	0.085
LA-SMA-4	SS0267	11-AUG-2005	WT	UF	CS	GU0508K026701	60	3.16	0.587	18.1	1.15	0.353	1.74	0.19	0.266	18.5	1.17	0.25
LA-SMA-4	SS0267	22-AUG-2005	WT	UF	CS	GU0508K026702	66.7	2.52	0.047	10.3	0.652	0.159	0.804	0.0871	0.12	10.1	0.64	0.112
LA-SMA-4	SS0267	24-AUG-2005	WT	UF	CS	GU0508K026703	12.2	0.511	0.127	6.24	0.349	0.126	0.392	0.0492	0.0946	6.68	0.371	0.0889
LA-SMA-5	SS0268	03-MAY-2005	WT	UF	CS	GU0505K026801	1.09	0.0673	0.031	0.355	0.032	0.062	0.0489	0.0102	0.038	0.396	0.0341	0.044
LA-SMA-5	SS0268	15-JUL-2005	WT	UF	CS	GU0507K026801	13.7	0.786	0.092	3.87	0.253	0.137	0.161	0.0349	0.103	4.12	0.267	0.097
LA-SMA-5	SS0268	04-AUG-2005	WT	UF	CS	GU0508K026801	9.79	0.484	0.037	2.58	0.148	0.106	0.173	0.029	0.08	2.97	0.166	0.075
LA-SMA-5	SS0268	22-AUG-2005	WT	UF	CS	GU0508K026802												

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:900 Gross Alpha pCi/L			EPA:900 Gross Beta pCi/L			EPA:901.1 Cobalt-60 pCi/L			EPA:901.1 Cesium-137 pCi/L			EPA:901.1 Potassium-40 pCi/L			EPA:901.1 Sodium-22 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	CS	GU0510K026801	60	8.04	10.3	158	8.9	13.9	-0.11	1.33	4.84	1.93	1.61	5.87	83.1	28.9	54.7	3.56	1.49	6
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	CS	GU05072680501	888	65.1	42	1430	116	236	2.24	1.05	4.4	2.69	1.23	3.34	283	29	36.2	-2.07	1.07	3.42
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	CS	GU05082680501																		
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	CS	GU05082680502	195	22.7	36.4	355	37.7	100	2.31	2.34	9.31	6.92	2.23	9.07	138	51.1	72.2	0.414	2.37	8.96
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	CS	GU05070268101																		
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	CS	GU05080268101	32.5	4.21	4.99	53.6	2.11	4.01	-0.575	1.06	3.65	1.02	0.996	3.51				0.264	1.06	3.78
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	CS	GU05080268102	26.1	4.92	10.3	57.3	6.13	15.6	7.04	2.69	8.64	-0.655	1.88	6.55				2.47	1.55	6.75
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	CS	GU05100268101	82.8	9.3	9.34	143	9.28	16.9	1.7	1.21	4.59	-0.67	1.15	3.85				1.05	1.16	4.3
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	CS	GU05070268301	153	18.7	24.2	290	52.2	172	1.43	0.865	3.3				140	18.5	26.9	0.346	0.888	2.83
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	CS	GU05070268302																		
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	CS	GU05080268301																		
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	CS	GU05080268302	44.5	9.54	18.8	100	5.99	14.6	1.66	1.01	3.84				164	27.3	31.2	0.717	1.08	3.93
LA-SMA-5.4	SS02683	24-AUG-2005	WT	UF	CS	GU05080268303	254	37.4	53.3	377	19.2	46.7	5.31	1.83	7.26	9.63	4.55	6.11				1.66	2.05	5.3
LA-SMA-5.4	SS02683	28-SEP-2005	WT	UF	CS	GU05100268301	23.8	3.56	3.98	44.5	4.07	9.2	1.99	1.23	4.67	5.9	1.61	3.98	144	32.4	39	0.0159	1.25	4.45
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	CS	GU05070268501	61.2	3.7	3.44	85.6	6.71	14.7	1.58	1.11	4.24	7.62	1.77	3.52	333	27.7	32.5	0.366	0.987	3.63
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	CS	GU05100268501	55.7	6.69	6.28	101	7.43	16.1	0.543	1.11	4.04	6.1	2.32	3.53	133	27.7	38	0.0926	1.05	3.8
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	CS	GU05080K02801	1640	111	129	1280	106	233	2.81	1.94	7.84	23.4	3.37	6.77	343	48.5	52.7	1.07	1.7	6.66
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	CS	GU0508K028701	161	16.6	12.5	241	13.9	27.7	-0.678	1.4	4.89				124	33	36.7	-0.388	1.39	4.92
M-SMA-10	SS2002	03-OCT-2005	WT	UF	CS	GU0510K200201	7.71	1.75	3.85	7.52	1.96	7.33	1.82	0.938	3.66	-0.358	0.955	3.25	25.4	19	34.1	-1.27	1.22	3.49
M-SMA-11	SS2003	15-JUL-2005	WT	UF	CS	GU0507K200301	21.4	3.11	5.28	50.4	3.85	9.19	-0.661	1.01	3.51	2.42	1.93	3.74	16.7	23.4	33	1.72	1.16	4.19
M-SMA-11	SS2003	12-AUG-2005	WT	UF	CS	GU0508K200301	9.57	1.14	1.62	21.4	1.18	2.5	1.85	3.57	9.73	1.86	2.38	8.78	37.6	30.4	67	-1.63	2.27	8.06
M-SMA-11	SS2003	22-AUG-2005	WT	UF	CS	GU0508K200302	22.3	2.73	4.02	80.3	6.8	4.64	-2.29	2.07	7.1	2.59	3.26	6.69	35.4	34.7	62.8	1.14	1.74	7.05
M-SMA-11	SS2003	24-AUG-2005	WT	UF	CS	GU0508K200303	33	2.59	2.06	57.7	3.47	5.37	3.91	2.25	9.3	7.44	1.95	2.7				0.692	1.91	7.42
M-SMA-12	SS2004	12-AUG-2005	WT	UF	CS	GU0508K200401	4.8	0.824	1.54	12.9	0.993	2.6	1.18	2.06	7.66	-1.87	1.99	6.6	35.9	20.5	80.9	-0.591	2.09	7.39
M-SMA-12	SS2004	23-AUG-2005	WT	UF	CS	GU0508K200402																		
M-SMA-12	SS2004	29-SEP-2005	WT	UF	CS	GU0510K200401	6.43	1.82	4.3	7.27	1.7	6.21	0.104	1.36	4.96	1.05	1.3	4.72	2.44	23	46.3	-0.845	1.34	4.7
M-SMA-13	SS205	24-AUG-2005	WT	UF	CS	GU05080K20502	2290	71.1	8.87	2210	56.2	12.1	1.2	1.15	4.42	-0.757	1.28	4.3				-0.329	1.11	3.96
M-SMA-2	SS1984	22-AUG-2005	WT	UF	CS	GU0508K198401	14.4	2.25	4.53	41.2	2.83	2.93	3.74	2.39	10.1	0.737	2.25	8.44	25.9	31.2	121	1.26	2.58	9.69
M-SMA-2	SS1984	24-AUG-2005	WT	UF	CS	GU0508K198402	9.81	1.82	3.04	23.2	2.03	4.66	-0.195	1.46	5.27	4.52	1.41	5.35				0.461	1.48	5.17
M-SMA-2	SS1984	25-AUG-2005	WT	UF	CS	GU0508K198403	25	3.33	3.53	54.6	4.96	5.56	0.364	1.54	5.61	0.504	1.54	5.46				-0.064	1.57	5.67
M-SMA-3	SS1985	15-JUL-2005	WT	UF	CS	GU0507K198501	21.4	3.02	6.45	39.2	2.04	4.85	3.77	2.01	4.93	-0.982	1.14	3.93				0.215	1.32	4.25
M-SMA-4	SS1987	15-JUL-2005	WT	UF	CS	GU0507K198701	42	4.36	8.25	72.8	4.41	5.14	3.91	1.46	5.38	-0.291	1.41	4.2				0.398	1.21	4.55
M-SMA-4	SS1987	12-AUG-2005	WT	UF	CS	GU0508K198702	15.2	1.73	3.26	32.1	1.44	2.75	4.31	1.97	8.24	1.88	1.88	6.92	18	27.8	65.7	1.37	1.77	6.97
M-SMA-4	SS1987	22-AUG-2005	WT	UF	CS	GU0508K198703	12.9	1.93	3.34	30.9	1.69	3.4	7.99	1.74	4.07	1.4	1.01	3.61	47.5	21.6	36.3	0.572	1.03	3.7
M-SMA-4	SS1987	25-AUG-2005	WT	UF	CS	GU0508K198705	21.2	2.88	3.68	37	3.3	6.07	1.13	2.69	5.52	-0.649	1.22	4.16	61	17.2	70.7	0.413	1.39	5.14
M-SMA-5	SS199	12-AUG-2005	WT	UF	CS	GU05080K19901																		
M-SMA-5	SS199	22-AUG-2005	WT	UF	CS	GU05080K19902	37.9	4.35	2.15	73.5	5.28	4.8	-1.24	1.72	6.14	5.16	2.43	7.22	81.7	23.4	104	0.763	1.91	7.46
M-SMA-5	SS199	24-AUG-2005	WT	UF	CS	GU05080K19903	114	9.45	6.68	150	3.73	4.88	4.01	1.94	8.11	7.94	2.5	5.92	49	30.2	66.2	3.4	1.8	7.53
M-SMA-8	E200	24-APR-2005	WT	UF	CS	GU05040E20001	29.7	2.59	1.95	26.4	1.12	1.87	0.276	1.11	3.97	27.9	2.44	3.73	119	23	29.7	0.0788	1.03	3.2
M-SMA-8	E200	03-MAY-2005	WT	UF	CS	GU05050E20001	96.8	5.83	5.09	174	9.4	5.26	0.941	0.647	2.52	4.27	1.72	2.48	68.7	15.6	21.8	1.3	0.663	2.63
M-SMA-8	E200	15-JUL-2005	WT	UF	CS	GU05070E20001	232	13	9.54	381	11.9	17.2	1.3	1.45	4.25	53.6	3.57	3.94	217	22.7	28.1	1.48	1.09	4.42
M-SMA-8	E200	20-JUL-2005	WT	UF	CS	GU05070E20002	57.9	3.33	1.59	73.1	6.36	14.4	2.61	1.06	4.42	25.9	2.43	4.17	70.7	22.4	35.7	0.274	1.08	4.03
PJ-SMA-15	E248	12-AUG-2005	WT	UF	CS	GU05080E24801	39.1	5.57	5.16				10.5	2.15	3.65	0.0529	1.2	4.18				-2.42	1.21	3.95
PJ-SMA-15	E248	28-SEP-2005	WT	UF	CS	GU05090E24801	49	6.9	8.83	112	7.66	14.2	0.495	2.75	5.9	1.88	1.27	4.69	125	32.6	38.4	0.05	1.54	4.9
PJ-SMA-15	E248	09-OCT-2005	WT	UF	CS	GU05100E24801	110	10.5	11.5	195	10.3	14.3	0.399	1.21	4.37	-0.626	1.09	3.65				-1.09	1.1	3.73
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	CS	GU0507E248501	84.3	6.77	5.87	135	3.73	5.12	0.256	0.985	3.8	-1.64	0.98	3.19	154	27.4	46	0.812	1.03	4.09
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	CS	GU0508E248502	11	1.71	2.34	19.7	2.17	4.94	3.88	1.94	5.01	-1.26	1.2	3.95				2.61	0.969	4.51
PJ-SMA-15	E248.5	29-SEP-2005	WT	UF	CS	GU0509E248501	5.39	1.03	2.88	16.3	2.81	9.09	1.85	1.42	5.51	2.01	1.35	5	7.44	22.5	45.4	-0.265	1.43	5.14
PJ-SMA-15	E248.5	09-OCT-2005	WT	UF	CS	GU0510E248501	85.7	5.57	3.74	157	6.93	11.7	1.26	1.14	4.38	0.389	1.08	3.85	39.5	25.7	42	1.23	1.2	4.56
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	CS	GU0504E249501	19.1	1.44	1.82	36.1	1.48	2.9	0.294	1.15	4.38	1.02	1.14	4.24	14	19.3	33.2	-1.14	1.17	4.09
PJ-SMA-15	E249.5	24-APR-2005	WT	UF	CS	GU0504E249502	2.4	0.565	1.51	7.14	0.774	2.12	0.0398	0.923	3.53	0.387	0.924	3.42	19.7	18.8	31.9	0.39	0.892	3.53
PJ-SMA-15	E249.5	01-MAY-2005	WT	UF	CS	GU0505E249501	1.79	0.387	0.96	6.13	0.705	2.05	1.69	1.44	3.81	-0.989	0.808	2.66				-0.654	0.692	2.41
PJ-SMA-15	E249.5	03-MAY-2005	WT	UF	CS	GU0505E249502	2.05	0.51	1.51	3.9	0.684	2.07	-1.75	0.965	3.04	-0.616	0.861	3.01	22.6	19	28.7	-0.0244	0.897	3.24
PJ-SMA-15	E249.5	25-JUN-2005	WT	UF	CS	GU0506E249501																		
PJ-SMA-250	E250	23-MAR-2005	WM	UF	CS	GU05030M25001	1.25	0.517	1.64	4.39	0.534	1.56	-0.345	1	3.64	0.818	1.11	4.02	8.76	18.8	37.5	0.551	0.965	3.75
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	CS	GU05040KPS401																		
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	CS	GU05040KPS402																		

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:901.1 Neptunium-237 pCi/L			EPA:905.0 Strontium-90 pCi/L			EPA:906.0 Tritium pCi/L			HASL-300:AM-241 Am-241 pCi/L			HASL-300:ISOPU Pu-238 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	CS	GU0510K026801	20.4	11.4	38.5	0.0319	0.0679	0.317	132	75.4	247	0.00723	0.0105	0.0589	0.0236	0.0115	0.0408
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	CS	GU05072680501	0.627	9.09	31.6	0.0557	0.0657	0.245	0	64.6	221	0.0943	0.0187	0.038	0.0233	0.0155	0.048
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	CS	GU05082680501							153	62.6	201						
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	CS	GU05082680502	-4.77	14.7	47.3	2.09	0.138	0.241	227	60	186	0.0731	0.0253	0.08	0.0596	0.0169	0.0772
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	CS	GU05070268101							96	60.7	200						
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	CS	GU05080268101	6.74	6.68	22.7							0.103	0.019	0.038	0.0189	0.0124	0.043
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	CS	GU05080268102	21.2	13.1	47.1	0.273	0.0658	0.227	162	57.1	182	0.128	0.0233	0.0338	0	0.00195	0.0404
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	CS	GU05100268101	5.66	7.34	24.7	0.0873	0.0675	0.293	80.7	65.9	219	0.152	0.0278	0.0719	0.0416	0.0123	0.0392
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	CS	GU05070268301	11.1	7.09	18.6	3.06	0.156	0.306	-74.1	62.3	219	0.198	0.0277	0.049	0.0878	0.0179	0.063
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	CS	GU05070268302							39	62.7	212						
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	CS	GU05080268301							200	66.3	210						
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	CS	GU05080268302	4.19	7.13	24.1	1.08	0.121	0.315				0.06	0.0142	0.032	0.00202	0.0073	0.042
LA-SMA-5.4	SS02683	24-AUG-2005	WT	UF	CS	GU05080268303	0.929	16.5	35.3							0.199	0.0277	0.0331	0.0321	0.018	0.0833
LA-SMA-5.4	SS02683	28-SEP-2005	WT	UF	CS	GU05100268301	-3.74	6.29	21.5	0.828	0.128	0.332				0.0193	0.0128	0.0609	0.032	0.0134	0.0474
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	CS	GU05070268501	9.29	9.04	31.5	0.298	0.0798	0.266				0.25	0.0367	0.048	2.53	0.147	0.105
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	CS	GU05100268501	5.53	8.48	27.3	0.15	0.0635	0.244	0	62.9	216	0.165	0.0225	0.0391	0.0476	0.011	0.0412
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	CS	GU05080K02801	-1.7	13.5	45.7	6.12	0.224	0.274	492	65.8	184	67.3	4.33	0.76	5.55	0.883	1.9
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	CS	GU0508K028701	-4.84	7.78	27.1	3.81	0.161	0.201				0.303	0.0324	0.0318	0.106	0.0145	0.0353
M-SMA-10	SS2002	03-OCT-2005	WT	UF	CS	GU0510K200201	10.1	8.99	23.1	0.203	0.0761	0.292				0.00643	0.013	0.0481	0.00215	0.0048	0.0445
M-SMA-11	SS2003	15-JUL-2005	WT	UF	CS	GU0507K200301	3.27	9.47	32.9	0.0233	0.0939	0.316				0.0074	0.00911	0.037	0.0147	0.00638	0.038
M-SMA-11	SS2003	12-AUG-2005	WT	UF	CS	GU0508K200301	9.5	15.6	52.8	0.276	0.0599	0.188				0.0132	0.00673	0.039	0.0358	0.0131	0.046
M-SMA-11	SS2003	22-AUG-2005	WT	UF	CS	GU0508K200302	11.7	12.1	42.3	0.599	0.0647	0.177				0.0841	0.0155	0.0422	0.0413	0.013	0.0408
M-SMA-11	SS2003	24-AUG-2005	WT	UF	CS	GU0508K200303	40.3	13.4	43.9	1.88	0.146	0.301				0.0404	0.0122	0.044	0.0291	0.00899	0.0402
M-SMA-12	SS2004	12-AUG-2005	WT	UF	CS	GU0508K200401	24.7	12.5	43.1	-0.0646	0.0685	0.331	14.5	69.6	237	-0.00121	0.00919	0.043	0.0402	0.0145	0.049
M-SMA-12	SS2004	23-AUG-2005	WT	UF	CS	GU0508K200402							29.8	59.9	203						
M-SMA-12	SS2004	29-SEP-2005	WT	UF	CS	GU0510K200401	-4.94	9.88	31.3	0.0146	0.0642	0.312				0.0113	0.00559	0.0429	0.00722	0.0105	0.0375
M-SMA-13	SS205	24-AUG-2005	WT	UF	CS	GU05080K20502	5.19	8.23	28.1	0.552	0.0753	0.216				0.0108	0.00899	0.0345	0.00735	0.0104	0.0381
M-SMA-2	SS1984	22-AUG-2005	WT	UF	CS	GU0508K198401	-8.31	8.15	26.4	0.213	0.0752	0.274	121	63.2	206	0.0105	0.00991	0.0388	0.0309	0.0116	0.0401
M-SMA-2	SS1984	24-AUG-2005	WT	UF	CS	GU0508K198402	6.32	5.14	15.9	0.0244	0.0642	0.219	94.2	65.3	216	0.0983	0.0223	0.0503	0.0544	0.015	0.0513
M-SMA-2	SS1984	25-AUG-2005	WT	UF	CS	GU0508K198403	9.15	11.2	37.5	0.106	0.048	0.183				0.0175	0.00766	0.0347	0.00976	0.00705	0.0405
M-SMA-3	SS1985	15-JUL-2005	WT	UF	CS	GU0507K198501	-11.9	9.02	28.6	0.1	0.0716	0.236	-20.7	57.8	200	0.0371	0.0114	0.029	0.0756	0.0133	0.042
M-SMA-4	SS1987	15-JUL-2005	WT	UF	CS	GU0507K198701	16.1	8.69	31	0.175	0.136	0.449				0.0556	0.0132	0.032	0	0.00925	0.039
M-SMA-4	SS1987	12-AUG-2005	WT	UF	CS	GU0508K198702	-9.13	12.8	38.3	-0.0451	0.0523	0.249				0.0114	0.012	0.057	0.0116	0.00722	0.04
M-SMA-4	SS1987	22-AUG-2005	WT	UF	CS	GU0508K198703	11.9	5.79	17.6	0.0281	0.0753	0.255				0.00956	0.0125	0.0427	0.0227	0.0139	0.0393
M-SMA-4	SS1987	25-AUG-2005	WT	UF	CS	GU0508K198705	-0.628	8.69	29.1	0.0434	0.053	0.223				-0.00662	0.00584	0.0349	-1.64E-09	0.0077	0.0357
M-SMA-5	SS199	12-AUG-2005	WT	UF	CS	GU05080K19901							-71.8	67.1	235						
M-SMA-5	SS199	22-AUG-2005	WT	UF	CS	GU05080K19902	7.09	12.9	43.1	0.916	0.076	0.178	127	63.2	206	0.267	0.0289	0.0363	0.0273	0.013	0.0405
M-SMA-5	SS199	24-AUG-2005	WT	UF	CS	GU05080K19903	-3.91	11.9	40.4	1.78	0.134	0.319				0.525	0.0473	0.0326	0.0831	0.0131	0.0392
M-SMA-8	E200	24-APR-2005	WT	UF	CS	GU05040E20001	15	8.22	28	0.786	0.11	0.321	118	76.4	252	9.74	0.47	0.03	4.47	0.235	0.042
M-SMA-8	E200	03-MAY-2005	WT	UF	CS	GU05050E20001	6.9	7.48	20.7	1.11	0.106	0.275	116	74.1	244	6.74	0.389	0.064	3.61	0.156	0.041
M-SMA-8	E200	15-JUL-2005	WT	UF	CS	GU05070E20001	2.66	9.31	30.4	3	0.199	0.472	128	65.8	215	32.4	1.59	0.124	10.8	0.465	0.071
M-SMA-8	E200	20-JUL-2005	WT	UF	CS	GU05070E20002	11.4	8.84	28.9	1.16	0.0879	0.211	330	79.1	245	12.7	0.707	0.023	5.36	0.245	0.066
PJ-SMA-15	E248	12-AUG-2005	WT	UF	CS	GU05080E24801	-2.3	8.34	26.5	0.124	0.0669	0.272	423	83.4	257	0.0249	0.00972	0.042	0.00187	0.00324	0.039
PJ-SMA-15	E248	28-SEP-2005	WT	UF	CS	GU05090E24801	7.65	8.72	29.7	0.223	0.102	0.404	458	85.9	257	0.0386	0.0198	0.0421	0.0243	0.0237	0.0842
PJ-SMA-15	E248	09-OCT-2005	WT	UF	CS	GU05100E24801	4.24	7.4	25.1	0.144	0.0801	0.334	432	119	357	0.00231	0.0199	0.0425	0.0196	0.00954	0.0453
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	CS	GU0507E248501	12.6	9.44	25.6	0.289	0.14	0.456	156	64.4	208	1.65	0.0992	0.035	0.812	0.0625	0.07
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	CS	GU0508E248502	8.83	12.2	27.3	-0.0513	0.0831	0.38	333	63.5	197	0.171	0.0275	0.047	0.0213	0.0128	0.044
PJ-SMA-15	E248.5	29-SEP-2005	WT	UF	CS	GU0509E248501	-5.8	9.68	30.6	0.0483	0.098	0.464	300	77.3	240	0.0885	0.0174	0.0386	0.0118	0.0125	0.0409
PJ-SMA-15	E248.5	09-OCT-2005	WT	UF	CS	GU0510E248501	2.23	11.3	26.6	-0.0578	0.0791	0.396	255	73.7	231	0.452	0.0412	0.0333	0.285	0.0271	0.0394
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	CS	GU0504E249501	4.67	9	29.5	-0.0805	0.0659	0.312				0.214	0.0245	0.033	0.012	0.00667	0.036
PJ-SMA-15	E249.5	24-APR-2005	WT	UF	CS	GU0504E249502	1.05	6.98	24.9	0.0778	0.0789	0.352	116	74.9	247	0.104	0.0185	0.036	0.0113	0.0138	0.047
PJ-SMA-15	E249.5	01-MAY-2005	WT	UF	CS	GU0505E249501	8.79	6.06	21	0.337	0.0928	0.322	115	73.4	242	0.125	0.0196	0.029	0	0.0104	0.046
PJ-SMA-15	E249.5	03-MAY-2005	WT	UF	CS	GU0505E249502	-5.3	8.76	26.3	0.516	0.105	0.357	146	74.7	244	0.105	0.0197	0.035	0.0213	0.0141	0.049
PJ-SMA-15	E249.5	25-JUN-2005	WT	UF	CS	GU0506E249501							-37.9	62.8	218						
PJ-SMA-250	E250	23-MAR-2005	WM	UF	CS	GU05030M25001	8.21	5.79	20	0.745	0.128	0.387	102	67.2	221	0.0183	0.0197	0.058	-0.0134	0.00708	0.046
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	CS	GU05040KPS401							76.4	62.4	207						
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	CS	GU05040KPS402							145	75.4	247						

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	HASL-300:ISOPU Pu-239,240 pCi/L			HASL-300:ISOU U-234 pCi/L			HASL-300:ISOU U-235,236 pCi/L			HASL-300:ISOU U-238 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
LA-SMA-5	SS0268	28-SEP-2005	WT	UF	CS	GU0510K026801	4.16	0.17	0.0345									
LA-SMA-5.2	SS026805	15-JUL-2005	WT	UF	CS	GU05072680501	1.05	0.0704	0.041	15.6	0.847	0.119	1.25	0.101	0.089	16.5	0.893	0.084
LA-SMA-5.2	SS026805	04-AUG-2005	WT	UF	CS	GU05082680501												
LA-SMA-5.2	SS026805	24-AUG-2005	WT	UF	CS	GU05082680502	1.08	0.0838	0.0652	11.2	0.676	0.519	0.715	0.134	0.39	11.7	0.699	0.367
LA-SMA-5.3	SS02681	15-JUL-2005	WT	UF	CS	GU05070268101												
LA-SMA-5.3	SS02681	11-AUG-2005	WT	UF	CS	GU05080268101	5.64	0.226	0.037	3.58	0.218	0.135	0.285	0.0427	0.102	3.88	0.233	0.0958
LA-SMA-5.3	SS02681	24-AUG-2005	WT	UF	CS	GU05080268102	0.0525	0.0108	0.0341	3.16	0.176	0.0752	0.268	0.0317	0.0566	3.39	0.188	0.0532
LA-SMA-5.3	SS02681	28-SEP-2005	WT	UF	CS	GU05100268101	2.99	0.128	0.0331				0.36	0.0442	0.0827			
LA-SMA-5.4	SS02683	15-JUL-2005	WT	UF	CS	GU05070268301	0.708	0.0582	0.053	19.3	0.95	0.072	1.15	0.0801	0.054	20.9	1.03	0.051
LA-SMA-5.4	SS02683	20-JUL-2005	WT	UF	CS	GU05070268302												
LA-SMA-5.4	SS02683	08-AUG-2005	WT	UF	CS	GU05080268301												
LA-SMA-5.4	SS02683	16-AUG-2005	WT	UF	CS	GU05080268302	0.156	0.0202	0.035	10.4	0.523	0.114	0.751	0.0716	0.0862	11.5	0.573	0.081
LA-SMA-5.4	SS02683	24-AUG-2005	WT	UF	CS	GU05080268303	1.83	0.114	0.0704	17.8	0.805	0.148	1.48	0.114	0.111	21.1	0.944	0.105
LA-SMA-5.4	SS02683	28-SEP-2005	WT	UF	CS	GU05100268301	1.24	0.07	0.0401				2.01	0.129	0.0812			
LA-SMA-5.5	SS02685	15-JUL-2005	WT	UF	CS	GU05070268501	12.6	0.521	0.089	6.11	0.367	0.126	0.352	0.0464	0.095	6.53	0.39	0.089
LA-SMA-5.5	SS02685	28-SEP-2005	WT	UF	CS	GU05100268501	5.01	0.201	0.0348				0.308	0.0404	0.084			
LA-SMA-6.3	SS028	22-AUG-2005	WT	UF	CS	GU05080K02801	775	45.2	1.61	21	1.15	0.301	1.34	0.146	0.227	23.1	1.25	0.213
LA-SMA-6.5	SS0287	22-AUG-2005	WT	UF	CS	GU0508K028701	9.72	0.466	0.0298	13.6	0.738	0.115	0.707	0.0686	0.0864	8.47	0.473	0.0813
M-SMA-10	SS2002	03-OCT-2005	WT	UF	CS	GU0510K200201	0.0193	0.0138	0.0376	0.458	0.0388	0.0668	0.0596	0.0136	0.0503	0.555	0.0437	0.0473
M-SMA-11	SS2003	15-JUL-2005	WT	UF	CS	GU0507K200301	0.0954	0.0141	0.032	2.35	0.133	0.059	0.157	0.0221	0.044	2.94	0.162	0.041
M-SMA-11	SS2003	12-AUG-2005	WT	UF	CS	GU0508K200301	0.076	0.0151	0.039	1.66	0.111	0.094	0.141	0.03	0.071	2.06	0.133	0.066
M-SMA-11	SS2003	22-AUG-2005	WT	UF	CS	GU0508K200302	0.346	0.0308	0.0345	9.31	0.512	0.249	0.688	0.0926	0.188	11.1	0.595	0.177
M-SMA-11	SS2003	24-AUG-2005	WT	UF	CS	GU0508K200303	0.459	0.0399	0.034	3.16	0.166	0.0574	0.309	0.0309	0.0432	4.08	0.209	0.0406
M-SMA-12	SS2004	12-AUG-2005	WT	UF	CS	GU0508K200401	0.0236	0.0125	0.041	0.51	0.0388	0.055	0.0425	0.0104	0.042	0.579	0.0421	0.039
M-SMA-12	SS2004	23-AUG-2005	WT	UF	CS	GU0508K200402												
M-SMA-12	SS2004	29-SEP-2005	WT	UF	CS	GU0510K200401	0.0397	0.0126	0.0317				0.168	0.0213	0.0459			
M-SMA-13	SS205	24-AUG-2005	WT	UF	CS	GU05080K20502	0.228	0.0238	0.0322	3.98	0.222	0.0725	0.273	0.0318	0.0546	4.39	0.243	0.0514
M-SMA-2	SS1984	22-AUG-2005	WT	UF	CS	GU0508K198401	0.295	0.0276	0.0338	1.46	0.087	0.06	0.0778	0.0146	0.0451	1.46	0.0867	0.0424
M-SMA-2	SS1984	24-AUG-2005	WT	UF	CS	GU0508K198402	0.126	0.0269	0.0433	6.49	0.373	0.161	0.406	0.0626	0.122	7.49	0.423	0.114
M-SMA-2	SS1984	25-AUG-2005	WT	UF	CS	GU0508K198403	0.0117	0.00916	0.0342	1.6	0.101	0.0763	0.152	0.0249	0.0574	1.55	0.0991	0.054
M-SMA-3	SS1985	15-JUL-2005	WT	UF	CS	GU0507K198501	0.0837	0.0143	0.036	2.39	0.136	0.07	0.185	0.0245	0.053	2.39	0.136	0.05
M-SMA-4	SS1987	15-JUL-2005	WT	UF	CS	GU0507K198701	0.0472	0.0106	0.033	2.02	0.12	0.074	0.105	0.019	0.056	2.08	0.123	0.053
M-SMA-4	SS1987	12-AUG-2005	WT	UF	CS	GU0508K198702	0.0173	0.0104	0.034	0.714	0.0504	0.06	0.0338	0.00916	0.045	0.644	0.0468	0.042
M-SMA-4	SS1987	22-AUG-2005	WT	UF	CS	GU0508K198703	0.497	0.0356	0.0332	2.61	0.141	0.0587	0.162	0.0213	0.0442	2.46	0.134	0.0416
M-SMA-4	SS1987	25-AUG-2005	WT	UF	CS	GU0508K198705	0.012	0.00668	0.0302	1.19	0.0794	0.0708	0.1	0.0186	0.0533	1.28	0.0843	0.0501
M-SMA-5	SS199	12-AUG-2005	WT	UF	CS	GU05080K19901												
M-SMA-5	SS199	22-AUG-2005	WT	UF	CS	GU05080K19902	1.15	0.0626	0.0342	6.58	0.348	0.0787	0.555	0.0505	0.0593	7.89	0.412	0.0557
M-SMA-5	SS199	24-AUG-2005	WT	UF	CS	GU05080K19903	2.51	0.136	0.0331	8.21	0.417	0.0864	0.616	0.0553	0.0651	9.82	0.493	0.0612
M-SMA-8	E200	24-APR-2005	WT	UF	CS	GU05040E20001	6.47	0.331	0.035	3.23	0.209	0.145	0.259	0.04	0.089	3.1	0.203	0.103
M-SMA-8	E200	03-MAY-2005	WT	UF	CS	GU05050E20001				2.25	0.139	0.088	0.195	0.0267	0.054	2.07	0.129	0.063
M-SMA-8	E200	15-JUL-2005	WT	UF	CS	GU05070E20001	11.6	0.493	0.06	23	1.64	0.493	1.08	0.17	0.371	23.1	1.64	0.349
M-SMA-8	E200	20-JUL-2005	WT	UF	CS	GU05070E20002	7.87	0.342	0.056	2.61	0.176	0.127	0.144	0.0283	0.095	2.54	0.172	0.09
PJ-SMA-15	E248	12-AUG-2005	WT	UF	CS	GU05080E24801	-0.00187	0.00972	0.033	1.52	0.086	0.051	0.145	0.019	0.039	1.5	0.085	0.036
PJ-SMA-15	E248	28-SEP-2005	WT	UF	CS	GU05090E24801	0.0689	0.0196	0.0711	2.5	0.154	0.085	0.234	0.0309	0.064	2.88	0.173	0.0602
PJ-SMA-15	E248	09-OCT-2005	WT	UF	CS	GU05100E24801	0.0393	0.0142	0.0383	2.8	0.19	0.124	0.161	0.0307	0.0934	3.05	0.203	0.0878
PJ-SMA-15	E248.5	15-JUL-2005	WT	UF	CS	GU0507E248501	2.74	0.144	0.059	23.7	1.26	0.381	1.72	0.184	0.287	23.7	1.27	0.27
PJ-SMA-15	E248.5	12-AUG-2005	WT	UF	CS	GU0508E248502	0.217	0.0267	0.037	0.801	0.0541	0.058	0.0564	0.0118	0.044	0.706	0.0493	0.041
PJ-SMA-15	E248.5	29-SEP-2005	WT	UF	CS	GU0509E248501	0.0807	0.0146	0.0345	0.556	0.0451	0.0678	0.0577	0.014	0.0511	0.529	0.0437	0.048
PJ-SMA-15	E248.5	09-OCT-2005	WT	UF	CS	GU0510E248501	0.736	0.046	0.0333	5.56	0.295	0.0645	0.35	0.0356	0.0486	5.29	0.281	0.0457
PJ-SMA-15	E249.5	16-APR-2005	WT	UF	CS	GU0504E249501	0.242	0.0222	0.03	0.334	0.0332	0.074	0.0538	0.0118	0.045	0.336	0.0331	0.053
PJ-SMA-15	E249.5	24-APR-2005	WT	UF	CS	GU0504E249502	0.111	0.0171	0.04	1.51	0.0938	0.077	0.183	0.0234	0.047	1.54	0.0949	0.055
PJ-SMA-15	E249.5	01-MAY-2005	WT	UF	CS	GU0505E249501				0.236	0.0249	0.061	0.0546	0.0112	0.038	0.185	0.0214	0.043
PJ-SMA-15	E249.5	03-MAY-2005	WT	UF	CS	GU0505E249502				0.295	0.0297	0.068	0.0312	0.00903	0.041	0.32	0.0307	0.048
PJ-SMA-15	E249.5	25-JUN-2005	WT	UF	CS	GU0506E249501												
PJ-SMA-250	E250	23-MAR-2005	WM	UF	CS	GU05030M25001	0.00447	0.00774	0.039	0.0982	0.0182	0.079	0.00518	0.00519	0.048	0.129	0.0193	0.056
PJ-SMA-4	SS24253	16-APR-2005	WT	UF	CS	GU05040KPS401												
PJ-SMA-4	SS24253	24-APR-2005	WT	UF	CS	GU05040KPS402												

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:900 Gross Alpha pCi/L			EPA:900 Gross Beta pCi/L			EPA:901.1 Cobalt-60 pCi/L			EPA:901.1 Cesium-137 pCi/L			EPA:901.1 Potassium-40 pCi/L			EPA:901.1 Sodium-22 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	CS	GU05050KPS401	21.4	1.53	0.956	18.8	0.968	2.21				1.19	0.729	2.73	4.31	14.7	21.9	-0.385	0.771	2.71
PJ-SMA-4	SS24253	27-MAY-2005	WT	UF	CS	GU05050KPS402	24.8	2.06	3.58	31.2	1.39	2.54	-0.227	0.875	3.1	0.26	0.798	2.87	81.2	17.1	29.5	-1.01	0.849	2.86
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	CS	GU05070KPS401	6.67	1.82	5.05	21.1	3.03	9.87	2.6	0.803	3.18	1.37	1.5	2.61	190	19.7	25.9	-0.746	0.764	2.62
PJ-SMA-4	SS24253	04-AUG-2005	WT	UF	CS	GU05080KPS401	87.7	10.4	10.9	112	8.03	14.2	1.8	1.38	3.49	1.5	0.923	3.3	94	26.8	29.1	0.404	0.877	3.17
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	CS	GU05072421001	366	22.3	35.6	735	61.7	147	1.35	1.58	5.9	13.5	2.66	4.55	249	30.4	39.9	-1.04	1.51	5.19
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	CS	GU05082421001	71.6	8.96	9.96	170	9.05	15.1	0.0442	0.967	3.45	6.8	1.68	3.54	154	25.9	36.6	0.78	1.01	3.71
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	RE	GU05082421001	192	33.1	17.9	466	20.6	23.3	1.09	1.38	5.17	13	2.58	4.87	218	34.7	47.6	2.17	1.6	5.8
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	CS	GU05082421002	68.7	9.21	6.97	116	7.13	10.7	-0.89	1.24	4.29	10.1	1.65	4.21	185	32.4	40.2	-2.17	1.23	4.02
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	CS	GU05082421003	270	21.3	12.6	461	27.8	51	1.63	1.84	7.54				50.3	29	62.8	0.954	1.41	5.99
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	CS	GU05082014201	81.2	10.2	17.1	202	5.31	6.62	2.41	1.98	8.19	-4.32	1.86	5.63	48.6	31.4	62.8	1.17	2	7.88
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	CS	GU05082014202	79.5	10.4	20.1	222	13.8	21.1	0.333	2.48	9.33	-0.29	2.22	8.02	289	52.5	78.7	1.46	5.53	8.48
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	CS	GU05082014203	182	22.9	23.4	365	21.4	44.4	3.15	0.813	6.1	0.739	1.73	6.13	303	47.1	49.4	-0.62	1.47	5.24
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	CS	GU05102014201	23.1	4.24	6.48	40.3	4.9	14.2	3.2	1.19	4.72	-0.556	1.18	3.96	71.5	26.1	38.6	1.26	1.22	4.09
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	CS	GU0504K057501	18.2	1.38	1.79	29.8	2.02	3.1	-0.868	0.983	3.43	-1.17	0.923	3.08	84.8	18.8	36.8	0.354	1.04	3.56
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	CS	GU0505K057501	24.6	3.78	1.36	44.9	1.54	2.22	2.37	0.954	3.45	4.53	1.27	2.85	109	19.5	32	0.574	0.875	3.25
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	CS	GU0507K057501	12.5	1.84	2.72	37.7	4.96	14.5	1.45	1.24	4.93	0.327	1.09	3.97	108	29.3	34.7	1.54	1.09	4.47
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	CS	GU0508K057501	119	17.4	23.2	225	16.9	37.2	-1.13	1.1	3.64	1.84	1.67	3.48	193	32.9	35.7	0.987	1.13	4.05
P-SMA-3	SS054	25-APR-2005	WT	UF	CS	GU05040K05401	4.58	0.769	1.8	20.7	1.25	2.96	0.693	0.961	3.82	1.43	0.974	3.81				-0.942	1.09	3.8
P-SMA-3	SS054	11-AUG-2005	WT	UF	CS	GU05080K05402	132	16.3	18.9	218	12.4	10.4	1.2	1.26	4.65	2.14	1.32	4.78	133	29.1	39.1	-0.59	1.19	4.15
P-SMA-3	SS054	22-AUG-2005	WT	UF	CS	GU05080K05403	15.9	2.89	4.39	39	2.62	5.92	1.3	2.34	8.81	8.32	2.54	10				-0.159	2.11	7.71
P-SMA-3	SS054	24-AUG-2005	WT	UF	CS	GU05080K05404																		
P-SMA-3	SS054	07-SEP-2005	WT	UF	CS	GU05090K05401	58.8	9.06	18.8	84.1	6.5	15.5	2.67	2.06	8.48	2.23	1.92	7.26	52.4	31.5	54.1	0.216	3.39	6.79
S-SMA-2	E121	16-APR-2005	WT	UF	CS	GU05040E12101	19.3	1.54	1.62	44.7	1.97	4.03	0.496	0.911	3.51	-0.757	0.953	3.22	1.32	21.5	39.4	0.718	0.983	3.78
S-SMA-2	E121	15-JUL-2005	WT	UF	CS	GU05070E12101	26.6	2.25	2.36	63	2.45	4.85				1.15	1.02	3.83	45.6	13.5	56	-0.897	1.12	3.89
S-SMA-2	E121	20-JUL-2005	WT	UF	CS	GU05070E12102	11.3	1.12	1.43	19.3	4.32	15.8	3.56	1.07	4.59	-1.32	0.955	3.23	13	18.3	42.1	1.11	0.953	3.76
S-SMA-2	E121	04-AUG-2005	WT	UF	CS	GU05080E12101																		
S-SMA-2	E121	12-AUG-2005	WT	UF	CS	GU05080E12102	17.3	2.48	2.68	33.5	1.89	3.32	0.712	1.04	3.8	0.225	0.983	3.38				-0.0282	0.966	3.43
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	CS	GU05081229301	104	11.4	10.1	115	8.06	17.8	3.28	1.27	4.75	-0.398	1.18	3.95				0.665	1.2	4.24
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	CS	GU05081229302	201	28	39	422	34.4	78.5	-1.91	2.51	9.09	-0.125	2.26	8.3	170	37.9	78.2	-2.39	2.81	9.45
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	CS	GU05081229303	56.9	6.36	6.69	83.2	5.36	9.81				-0.41	1.08	3.64	148	26.7	35.9	0.00153	1.04	3.68
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	CS	GU0504K123501																		
S-SMA-3.9	SS1235	03-MAY-2005	WT	UF	CS	GU0505K123501	1.16	0.529	1.7	8.02	0.725	1.95	-0.283	0.939	3.46	2.06	0.921	3.73	25	12.4	50.6	2.1	0.885	3.15
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	CS	GU0508K123501																		
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	CS	GU0508K123502																		
S-SMA-4	SS1238	03-MAY-2005	WT	UF	CS	GU0505K123801	5.61	0.671	1.28	9.81	0.86	2.34	-0.912	1.04	3.64	1.45	1.19	4.46	34.3	25.6	43	0.155	1.06	3.96
S-SMA-4	SS1238	04-AUG-2005	WT	UF	CS	GU0508K123801	67.7	8.07	8.23	134	10.5	15.3	1.04	2.23	4.5	0.348	1.15	4.07	66.4	28	42.8	-1.54	1.18	3.96
S-SMA-4	SS1238	22-AUG-2005	WT	UF	CS	GU0508K123802	22.2	2.93	3.48	48	2.5	3.96	-3.24	1.68	5.24	-0.759	1.56	5.46				0.327	1.59	6.2
S-SMA-4	SS1238	24-AUG-2005	WT	UF	CS	GU0508K123803	39.9	4.66	6.36	83.5	4.8	7.48	-1.03	1.89	6.85	-0.862	1.79	6.39	133	42.3	84.7	4.14	2.04	8.72
T-SMA-1	E201.3	12-AUG-2005	WT	UF	CS	GU0508E201301	47.3	4.6	5.51	128	6.06	10	2.44	1.47	2.76	-0.484	0.968	3.24	24.7	24.7	32.2	-0.00617	0.915	3.25
T-SMA-1	E201.3	22-AUG-2005	WT	UF	CS	GU0508E201302																		
T-SMA-1	E201.3	24-AUG-2005	WT	UF	CS	GU0508E201303																		
T-SMA-1	E201.3	22-SEP-2005	WT	UF	CS	GU0509E201301																		
T-SMA-1	E201.3	28-SEP-2005	WT	UF	CS	GU0509E201302	32.3	5.57	8.91	55.9	5.8	13.8	-0.805	1.08	3.64	1.46	1.05	3.79				1.1	1.07	3.89
T-SMA-3	SS20134	15-JUL-2005	WT	UF	CS	GU05072013401	44.7	3.28	3.95	81.3	6.59	14.2	3.3	1.22	5.23	1.19	0.827	3.01	111	21.3	34.2	-1.32	0.962	3.24
T-SMA-3	SS20134	04-AUG-2005	WT	UF	CS	GU05082013401	24.2	3.55	4.99	54.2	3.73	7.12	0.254	1.7	4.16	0.261	1.05	3.65	82.1	29.4	32.2	0.814	1.88	4.1
T-SMA-3	SS20134	12-AUG-2005	WT	UF	CS	GU05082013402	32.8	5.61	10	43.4	2.48	6.05	-1.63	1.34	4.61	0.856	1.39	5	85.9	28.5	47.6	-0.209	1.52	5.19
T-SMA-3	SS20134	25-AUG-2005	WT	UF	CS	GU05082013403	3.87	1.05	3.01	5.5	1.11	3.91	-0.332	1.52	5.41	-2.1	1.74	5.67	58.4	20.4	80.1	1.39	1.73	6.41
T-SMA-4	SS20136	15-JUL-2005	WT	UF	CS	GU05072013601	14.2	1.3	2.22	52	5.46	14.2	2.03	0.773	2.98	0.575	1.54	2.64	162	19.2	24.3	0.353	0.735	2.63
T-SMA-6	SS20140	24-AUG-2005	WT	UF	CS	GU05082014001	321	38.1	20.7	489	26.8	40.4	-0.996	1.95	6.96	6.5	2.38	6.58	630	55.4	70.2	0.631	1.97	6.97
T-SMA-6	SS20140	03-OCT-2005	WT	UF	CS	GU05102014001	49.8	6.15	9.19	101	6.64	13.4	1.32	1.11	4.18	1.74	1.33	3.8	85.6	25.7	35.3	-0.922	1.12	3.82

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	EPA:901.1 Neptunium-237 pCi/L			EPA:905.0 Strontium-90 pCi/L			EPA:906.0 Tritium pCi/L			HASL-300:AM-241 Am-241 pCi/L			HASL-300:ISOPU Pu-238 pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	CS	GU05050KPS401	1.17	4.91	17.1	0.392	0.0747	0.238	87.3	73.7	244	-0.0195	0.0102	0.051	0	0.00782	0.043
PJ-SMA-4	SS24253	27-MAY-2005	WT	UF	CS	GU05050KPS402	-15.6	7	22.1	0.319	0.0807	0.288				0.0447	0.0232	0.135	-0.0076	0.0274	0.158
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	CS	GU05070KPS401	8.49	6.53	21.5	0.777	0.0646	0.168	0	64.9	222	-0.0115	0.0089	0.039	-0.0099	0.014	0.051
PJ-SMA-4	SS24253	04-AUG-2005	WT	UF	CS	GU05080KPS401	1.57	5.44	19	0.778	0.0708	0.187				0.0348	0.0123	0.035	-0.0204	0.0559	0.212
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	CS	GU05072421001	-12.6	10.3	33.8	2.47	0.134	0.24	0	71.1	243	0.315	0.0383	0.036	0.0732	0.0194	0.084
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	CS	GU05082421001	4.06	7.91	21.5	2.28	0.108	0.199	39.4	61.2	207	0.141	0.0197	0.033	0.0641	0.0224	0.078
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	RE	GU05082421001	4.34	5.52	15.5	3.57	0.156	0.219				0.136	0.0208	0.033	0.0165	0.0135	0.049
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	CS	GU05082421002	4.06	19.7	29.4				90.5	69.8	231	0.0607	0.0167	0.037	0.0117	0.0107	0.041
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	CS	GU05082421003	4.39	12.1	41.5	2.04	0.152	0.311	127	59.3	192	0.136	0.0203	0.04	0.0806	0.0149	0.0389
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	CS	GU05082014201	-2.04	12.2	41.3	40.7	0.735	0.28	-29.4	63.2	218	0.0199	0.00861	0.03	0.00796	0.0133	0.055
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	CS	GU05082014202	12.2	12.7	26.9	7.11	0.185	0.157				0.172	0.0444	0.107	3.75E-09	0.0294	0.163
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	CS	GU05082014203	23.5	14.2	40.5	41.2	0.674	0.212				0.0693	0.0167	0.0457	0.0654	0.0394	0.271
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	CS	GU05102014201	-1.44	7.31	24.3	10	0.368	0.239				0.0258	0.0127	0.0356	0.0685	0.0163	0.0592
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	CS	GU0504K057501	-1.51	8.26	26.7	0.377	0.0949	0.326	173	75.6	246	0.0755	0.0213	0.046	-0.00728	0.00892	0.076
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	CS	GU0505K057501	2.23	7	23.8	0.136	0.0792	0.328	87.2	73.6	244	0.0253	0.0131	0.076	0.0024	0.0072	0.05
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	CS	GU0507K057501	-8.98	11.1	32	21.3	0.347	0.164	40.4	65	219	0.0276	0.0112	0.034	0.0325	0.0155	0.096
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	CS	GU0508K057501	15.4	9.8	26.6	0.321	0.0632	0.219	40.3	62.7	212	0.0251	0.0112	0.033	0.0131	0.0127	0.045
P-SMA-3	SS054	25-APR-2005	WT	UF	CS	GU05040K05401	-0.298	6.93	24.3	0.205	0.0819	0.296	117	75.8	250	0.0176	0.0147	0.035	-0.00398	0.0113	0.041
P-SMA-3	SS054	11-AUG-2005	WT	UF	CS	GU05080K05402	0.141	15.4	29.3				-76.2	63.3	222	0.0111	0.00669	0.035	0.0184	0.00848	0.042
P-SMA-3	SS054	22-AUG-2005	WT	UF	CS	GU05080K05403	-22.5	20.7	61.6							0.0194	0.00949	0.046	-0.022	0.00987	0.046
P-SMA-3	SS054	24-AUG-2005	WT	UF	CS	GU05080K05404							188	58.4	184						
P-SMA-3	SS054	07-SEP-2005	WT	UF	CS	GU05090K05401	10.5	12.2	38.4	0.0436	0.0781	0.364	121	66.8	219	0.0414	0.0142	0.063	-0.0108	0.00942	0.0448
S-SMA-2	E121	16-APR-2005	WT	UF	CS	GU05040E12101	6.66	5.78	19.2	0.0876	0.0726	0.307	0	60.2	207	0.00442	0.00625	0.035	0.0151	0.00801	0.039
S-SMA-2	E121	15-JUL-2005	WT	UF	CS	GU05070E12101	14	10.3	27.5	0.304	0.0875	0.27	-29.4	59.5	206	-0.0344	0.0163	0.031	0.0141	0.0101	0.042
S-SMA-2	E121	20-JUL-2005	WT	UF	CS	GU05070E12102	7.9	6.39	20.9	-0.0195	0.0652	0.305	212	78.5	251	-0.00662	0.0242	0.093	0.00904	0.0202	0.094
S-SMA-2	E121	04-AUG-2005	WT	UF	CS	GU05080E12101							-125	67.1	241						
S-SMA-2	E121	12-AUG-2005	WT	UF	CS	GU05080E12102	-5.85	6.72	22.2	0.0263	0.0652	0.287				0.00907	0.00712	0.035	0.00445	0.0126	0.046
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	CS	GU05081229301	8.18	7.7	26	0.108	0.0525	0.208	80.8	63.9	212	0.0204	0.00989	0.036	0.0189	0.0148	0.065
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	CS	GU05081229302	20.4	12.9	28.6	0.233	0.0797	0.293	183	61.2	197	0.0112	0.00715	0.047	0.0386	0.0204	0.133
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	CS	GU05081229303	15.1	9.23	20.7							-0.0533	0.0285	0.105	-0.0117	0.013	0.049
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	CS	GU0504K123501							88.1	75.3	250						
S-SMA-3.9	SS1235	03-MAY-2005	WT	UF	CS	GU0505K123501	-0.979	8.38	27.1	0.831	0.0998	0.29				0.0233	0.0156	0.043	0.00738	0.00371	0.038
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	CS	GU0508K123501							533	75.7	219						
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	CS	GU0508K123502							106	56.8	185						
S-SMA-4	SS1238	03-MAY-2005	WT	UF	CS	GU0505K123801	8.75	9.3	32	0.257	0.0952	0.347	319	77.1	243	0.00816	0.0166	0.058	0.00429	0.0043	0.045
S-SMA-4	SS1238	04-AUG-2005	WT	UF	CS	GU0508K123801	-1.78	6.92	21.3	0.271	0.0516	0.176	80.1	63.3	210	0.019	0.00649	0.029	0.0017	0.00379	0.035
S-SMA-4	SS1238	22-AUG-2005	WT	UF	CS	GU0508K123802	-12.2	12.5	42.6	0.192	0.0702	0.241				0.0157	0.0168	0.059	0.0039	0.00828	0.04
S-SMA-4	SS1238	24-AUG-2005	WT	UF	CS	GU0508K123803	22.9	10.4	30.3	0.114	0.0715	0.287				0.006	0.0124	0.0333	-9.24E-10	0.00548	0.0402
T-SMA-1	E201.3	12-AUG-2005	WT	UF	CS	GU0508E201301	4.15	5.99	20.1	0.0346	0.0517	0.225				0.0768	0.0133	0.032	0.0457	0.0132	0.043
T-SMA-1	E201.3	22-AUG-2005	WT	UF	CS	GU0508E201302							119	62	202						
T-SMA-1	E201.3	24-AUG-2005	WT	UF	CS	GU0508E201303							174	61.3	195						
T-SMA-1	E201.3	22-SEP-2005	WT	UF	CS	GU0509E201301							219	63.8	205						
T-SMA-1	E201.3	28-SEP-2005	WT	UF	CS	GU0509E201302	22.2	8.11	27.2	-0.0539	0.0946	0.466	123	60.3	196	0.542	0.0471	0.04	0.0573	0.019	0.0425
T-SMA-3	SS20134	15-JUL-2005	WT	UF	CS	GU05072013401	11.2	7.88	27.5	0.775	0.102	0.285				-0.0397	0.0338	0.105	0.0143	0.0143	0.074
T-SMA-3	SS20134	04-AUG-2005	WT	UF	CS	GU05082013401	-0.231	6.82	21.5	0.667	0.0907	0.288				0.0635	0.0198	0.063	4.46E-09	0.0374	0.194
T-SMA-3	SS20134	12-AUG-2005	WT	UF	CS	GU05082013402	12.1	5.94	14.5	0.119	0.0576	0.221				0.0014	0.0101	0.049	0.00428	0.0205	0.089
T-SMA-3	SS20134	25-AUG-2005	WT	UF	CS	GU05082013403	20.1	11.3	38.4	-0.112	0.0511	0.251				0.00689	0.00693	0.0427	-0.00463	0.0122	0.048
T-SMA-4	SS20136	15-JUL-2005	WT	UF	CS	GU05072013601	-4.61	6.71	22.5	0.0174	0.066	0.252	-81.1	68.3	240	0.0227	0.0121	0.042	0.0021	0.00629	0.044
T-SMA-6	SS20140	24-AUG-2005	WT	UF	CS	GU05082014001	17.3	8.46	21.2	7.96	0.236	0.198	148	59.2	190	0.356	0.122	0.235	0.1	0.062	0.208
T-SMA-6	SS20140	03-OCT-2005	WT	UF	CS	GU05102014001	1.12	6.32	22.3	0.757	0.107	0.265	40	64.3	217	0.0742	0.0234	0.0806	0.0709	0.0203	0.0818

Table B10. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results for Radionuclide

Station ID	Station Name	Sample Date	Sample Matrix	F/UF	Lab Sample Type	Sample Id	HASL-300:ISOPU			HASL-300:ISOU			HASL-300:ISOU			HASL-300:ISOU		
							Pu-239,240			U-234			U-235,236			U-238		
							pCi/L			pCi/L			pCi/L			pCi/L		
							Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA	Result	Uncert	MDA
PJ-SMA-4	SS24253	03-MAY-2005	WT	UF	CS	GU05050KPS401	0.0188	0.00699	0.037	1.1	0.0767	0.081	0.16	0.0227	0.049	1.1	0.0767	0.057
PJ-SMA-4	SS24253	27-MAY-2005	WT	UF	CS	GU05050KPS402	0.0532	0.0229	0.133	7.1	0.324	0.087	0.424	0.0393	0.053	7.14	0.326	0.061
PJ-SMA-4	SS24253	18-JUL-2005	WT	UF	CS	GU05070KPS401	0.0247	0.0111	0.043	0.658	0.0478	0.06	0.039	0.0105	0.045	0.632	0.046	0.043
PJ-SMA-4	SS24253	04-AUG-2005	WT	UF	CS	GU05080KPS401	0.0102	0.0395	0.179	18	0.958	0.353	1.01	0.134	0.265	19.7	1.04	0.25
PJ-SMA-7	SS24210	15-JUL-2005	WT	UF	CS	GU05072421001	0.467	0.0511	0.071	10.6	0.583	0.107	0.804	0.0724	0.08	14.7	0.794	0.075
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	CS	GU05082421001	0.407	0.0431	0.066	6.42	0.321	0.061	0.415	0.0376	0.046	8.68	0.426	0.043
PJ-SMA-7	SS24210	04-AUG-2005	WT	UF	RE	GU05082421001	0.169	0.0251	0.041	6	0.392	0.154	0.312	0.0486	0.116	4.87	0.325	0.109
PJ-SMA-7	SS24210	12-AUG-2005	WT	UF	CS	GU05082421002	0.107	0.0167	0.034	16.1	0.968	0.276	0.85	0.108	0.208	22.8	1.34	0.195
PJ-SMA-7	SS24210	24-AUG-2005	WT	UF	CS	GU05082421003	0.667	0.0439	0.0329	5.58	0.32	0.195	0.395	0.0599	0.147	8	0.433	0.138
Pratt-SMA-1	SS20142	12-AUG-2005	WT	UF	CS	GU05082014201	0.0265	0.0113	0.047	4.68	0.298	0.203	0.396	0.0649	0.153	4.99	0.315	0.144
Pratt-SMA-1	SS20142	22-AUG-2005	WT	UF	CS	GU05082014202	0.471	0.0672	0.138	28.1	1.73	1.09	1.99	0.319	0.821	32.7	1.96	0.772
Pratt-SMA-1	SS20142	24-AUG-2005	WT	UF	CS	GU05082014203	0.248	0.0692	0.229	13.7	0.868	0.631	1.51	0.213	0.475	16.9	1.03	0.447
Pratt-SMA-1	SS20142	03-OCT-2005	WT	UF	CS	GU05102014201	0.02	0.00949	0.05	8.38	0.456	0.193	0.726	0.0841	0.145	8.95	0.483	0.136
P-SMA-2.2	SS0575	25-APR-2005	WT	UF	CS	GU0504K057501	0.28	0.0344	0.064	7.16	0.495	0.258	0.553	0.0762	0.158	7.17	0.496	0.183
P-SMA-2.2	SS0575	03-MAY-2005	WT	UF	CS	GU0505K057501				7.12	0.369	0.076	0.459	0.0407	0.047	7.2	0.373	0.054
P-SMA-2.2	SS0575	20-JUL-2005	WT	UF	CS	GU0507K057501	0.696	0.0678	0.081	5.84	0.425	0.201	0.293	0.0617	0.151	6.22	0.449	0.142
P-SMA-2.2	SS0575	04-AUG-2005	WT	UF	CS	GU0508K057501	0.226	0.0253	0.038	5.04	0.26	0.065	0.405	0.04	0.049	5.7	0.292	0.046
P-SMA-3	SS054	25-APR-2005	WT	UF	CS	GU05040K05401	0.00596	0.00911	0.035	3.08	0.228	0.212	0.453	0.0618	0.129	3	0.223	0.15
P-SMA-3	SS054	11-AUG-2005	WT	UF	CS	GU05080K05402	0.0205	0.00873	0.036	30.5	2.08	0.61	1.71	0.243	0.46	30.2	2.07	0.432
P-SMA-3	SS054	22-AUG-2005	WT	UF	CS	GU05080K05403	0.0132	0.00881	0.039	1.63	0.0995	0.07	0.114	0.0196	0.053	1.8	0.108	0.05
P-SMA-3	SS054	24-AUG-2005	WT	UF	CS	GU05080K05404												
P-SMA-3	SS054	07-SEP-2005	WT	UF	CS	GU05090K05401	0.0841	0.0182	0.0378	2.95	0.142	0.0709	0.236	0.0282	0.0534	3.12	0.148	0.0502
S-SMA-2	E121	16-APR-2005	WT	UF	CS	GU05040E12101	0.0151	0.00598	0.033	1.4	0.0846	0.061	0.127	0.0175	0.037	1.36	0.0822	0.043
S-SMA-2	E121	15-JUL-2005	WT	UF	CS	GU05070E12101	0.00808	0.007	0.035	1.04	0.0673	0.065	0.0682	0.016	0.049	0.95	0.0629	0.046
S-SMA-2	E121	20-JUL-2005	WT	UF	CS	GU05070E12102	0.0271	0.0143	0.079	1.57	0.097	0.072	0.108	0.019	0.054	1.54	0.0956	0.051
S-SMA-2	E121	04-AUG-2005	WT	UF	CS	GU05080E12101												
S-SMA-2	E121	12-AUG-2005	WT	UF	CS	GU05080E12102	0.00445	0.00771	0.039	1.45	0.0928	0.076	0.0863	0.0174	0.057	1.29	0.0847	0.054
S-SMA-3.5	SS12293	05-AUG-2005	WT	UF	CS	GU05081229301	0.0157	0.0144	0.055	2.34	0.135	0.072	0.21	0.0268	0.054	2.57	0.146	0.051
S-SMA-3.5	SS12293	12-AUG-2005	WT	UF	CS	GU05081229302	-0.00642	0.0401	0.113	12.5	0.672	0.201	1.07	0.107	0.151	13.4	0.715	0.142
S-SMA-3.5	SS12293	22-AUG-2005	WT	UF	CS	GU05081229303	0.028	0.00996	0.041	2.52	0.191	0.171	0.25	0.0442	0.129	2.98	0.219	0.121
S-SMA-3.9	SS1235	25-APR-2005	WT	UF	CS	GU0504K123501												
S-SMA-3.9	SS1235	03-MAY-2005	WT	UF	CS	GU0505K123501				1.24	0.0763	0.06	0.0754	0.0133	0.037	1.24	0.0762	0.043
S-SMA-3.9	SS1235	12-AUG-2005	WT	UF	CS	GU0508K123501												
S-SMA-3.9	SS1235	22-AUG-2005	WT	UF	CS	GU0508K123502												
S-SMA-4	SS1238	03-MAY-2005	WT	UF	CS	GU0505K123801				1.09	0.0889	0.123	0.0887	0.0203	0.075	1.3	0.1	0.087
S-SMA-4	SS1238	04-AUG-2005	WT	UF	CS	GU0508K123801	0.0339	0.00838	0.03	8.16	0.405	0.079	0.58	0.051	0.06	9.27	0.456	0.056
S-SMA-4	SS1238	22-AUG-2005	WT	UF	CS	GU0508K123802	0.0253	0.0131	0.034	2.34	0.125	0.083	0.179	0.0265	0.063	2.37	0.126	0.059
S-SMA-4	SS1238	24-AUG-2005	WT	UF	CS	GU0508K123803	0.00194	0.00581	0.0339	5.79	0.338	0.113	0.441	0.0515	0.0854	6.65	0.383	0.0803
T-SMA-1	E201.3	12-AUG-2005	WT	UF	CS	GU0508E201301	0.0954	0.0177	0.036	0.765	0.0523	0.061	0.0797	0.0149	0.046	0.806	0.0534	0.043
T-SMA-1	E201.3	22-AUG-2005	WT	UF	CS	GU0508E201302												
T-SMA-1	E201.3	24-AUG-2005	WT	UF	CS	GU0508E201303												
T-SMA-1	E201.3	22-SEP-2005	WT	UF	CS	GU0509E201301												
T-SMA-1	E201.3	28-SEP-2005	WT	UF	CS	GU0509E201302	1.77	0.103	0.0359	1.37	0.0837	0.0618	0.0977	0.0181	0.0465	1.39	0.0843	0.0437
T-SMA-3	SS20134	15-JUL-2005	WT	UF	CS	GU05072013401	0.05	0.0153	0.063	2.24	0.134	0.079	0.116	0.0206	0.06	2.42	0.143	0.056
T-SMA-3	SS20134	04-AUG-2005	WT	UF	CS	GU05082013401	0.0561	0.0675	0.164	16.2	0.937	0.568	1.27	0.189	0.427	17	0.975	0.402
T-SMA-3	SS20134	12-AUG-2005	WT	UF	CS	GU05082013402	0.0555	0.0168	0.075	5.24	0.371	0.443	0.341	0.0838	0.334	6.16	0.415	0.314
T-SMA-3	SS20134	25-AUG-2005	WT	UF	CS	GU05082013403	-0.00694	0.00834	0.0406	0.251	0.0274	0.0672	0.0273	0.0134	0.0506	0.245	0.0268	0.0476
T-SMA-4	SS20136	15-JUL-2005	WT	UF	CS	GU05072013601	0.0189	0.0113	0.037	2.36	0.133	0.068	0.14	0.021	0.051	2.63	0.147	0.048
T-SMA-6	SS20140	24-AUG-2005	WT	UF	CS	GU05082014001	1.36	0.137	0.176	54.5	3.35	2.03	3.86	0.607	1.52	49.1	3.07	1.43
T-SMA-6	SS20140	03-OCT-2005	WT	UF	CS	GU05102014001	0.295	0.0359	0.069	7.76	0.467	0.352	0.457	0.0882	0.265	6.88	0.424	0.249

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Table B11. 2005 Site-Specific Storm Water Monitoring, 2005
Summary of Radionuclides greater than DOE DCG

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	DCG	Units
2M-SMA-1	SS2432	2005	UF	RAD	Gross alpha	4	3	1	16	7.63	30.7	30	pCi/L
3M-SMA-0.5	SS2459	2005	UF	RAD	Gross alpha	3	3	2	57	4.63	112	30	pCi/L
3M-SMA-0.6	SS2457	2005	UF	RAD	Gross alpha	4	4	3	384	12.3	987	30	pCi/L
3M-SMA-0.6	SS2457	2005	UF	RAD	Uranium-238	4	4	2	1054	121	2220	600	pCi/L
ACID-SMA-2	E055.5	2005	UF	RAD	Gross alpha	3	3	3	53	36.1	79.9	30	pCi/L
ACID-SMA-2	E055.5	2005	UF	RAD	Plutonium-239/240	3	3	3	104.6	35.1	235	30	pCi/L
ACID-SMA-2	E056	2005	UF	RAD	Gross alpha	2	2	2	124	95.4	153	30	pCi/L
ACID-SMA-2	E056	2005	UF	RAD	Plutonium-239/240	2	2	1	66.5	27	106	30	pCi/L
CDB-SMA-1	SS2185	2004	UF	RAD	Gross alpha	4	4	2	27	8.73	38.2	30	pCi/L
CDB-SMA-2	SS2188	2004	UF	RAD	Gross alpha	1	1	1	79	78.7	78.7	30	pCi/L
CDB-SMA-4	E227	2005	UF	RAD	Gross alpha	2	2	2	69	31.2	106	30	pCi/L
DP-SMA-0.3	SS0375	2005	UF	RAD	Gross alpha	4	4	2	38	15	64.5	30	pCi/L
DP-SMA-0.9	SS0388	2005	UF	RAD	Gross alpha	4	4	1	28	13.4	47.2	30	pCi/L
DP-SMA-1	SS0385	2004	UF	RAD	Gross alpha	2	2	2	163	128	197	30	pCi/L
DP-SMA-1	SS0385	2005	UF	RAD	Gross alpha	2	2	1	45	26.4	62.8	30	pCi/L
DP-SMA-2	SS0387	2005	UF	RAD	Gross alpha	4	4	4	113	41.2	296	30	pCi/L
LA-SMA-1	SS0263	2005	UF	RAD	Gross alpha	4	4	2	27	11.6	46.9	30	pCi/L
LA-SMA-1	SS0264	2004	UF	RAD	Gross alpha	5	5	4	175	26.5	312	30	pCi/L
LA-SMA-1	SS0264	2005	UF	RAD	Gross alpha	2	2	1	237	9.74	464	30	pCi/L
LA-SMA-1.2	SS02645	2005	UF	RAD	Gross alpha	2	2	2	200	118	281	30	pCi/L
LA-SMA-3	SS0266	2004	UF	RAD	Gross alpha	4	4	1	21	8.15	56.4	30	pCi/L
LA-SMA-4	SS0267	2004	UF	RAD	Gross alpha	4	4	4	91	40.4	210	30	pCi/L
LA-SMA-4	SS0267	2004	UF	RAD	Plutonium-239/240	4	4	2	28.5	13.5	50.4	30	pCi/L
LA-SMA-4	SS0267	2005	UF	RAD	Gross alpha	3	3	2	92	29.8	172	30	pCi/L
LA-SMA-4	SS0267	2005	UF	RAD	Plutonium-239/240	3	3	2	46.3	12.2	66.7	30	pCi/L
LA-SMA-5	SS0268	2004	UF	RAD	Gross alpha	1	1	1	161	161	161	30	pCi/L
LA-SMA-5	SS0268	2004	UF	RAD	Plutonium-239/240	1	1	1	51.5	51.5	51.5	30	pCi/L
LA-SMA-5	SS0268	2005	UF	RAD	Gross alpha	4	4	3	48	17.7	67.4	30	pCi/L
LA-SMA-5.2	SS026805	2005	UF	RAD	Gross alpha	2	2	2	542	195	888	30	pCi/L
LA-SMA-5.2	SS026805	2005	UF	RAD	Gross beta	2	2	1	893	355	1430	1000	pCi/L
LA-SMA-5.3	SS02681	2005	UF	RAD	Gross alpha	3	3	2	47	26.1	82.8	30	pCi/L
LA-SMA-5.4	SS02683	2005	UF	RAD	Gross alpha	4	4	3	119	23.8	254	30	pCi/L
LA-SMA-5.5	SS02685	2005	UF	RAD	Gross alpha	2	2	2	58	55.7	61.2	30	pCi/L

Table B11. 2005 Site-Specific Storm Water Monitoring, 2005
Summary of Radionuclides greater than DOE DCG

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	DCG	Units
LA-SMA-6	SS0269	2004	UF	RAD	Gross alpha	1	1	1	127	127	127	30	pCi/L
LA-SMA-6.3	SS028	2005	UF	RAD	Americium-241	1	1	1	67.3	67.3	67.3	30	pCi/L
LA-SMA-6.3	SS028	2005	UF	RAD	Gross alpha	1	1	1	1640	1640	1640	30	pCi/L
LA-SMA-6.3	SS028	2005	UF	RAD	Gross beta	1	1	1	1280	1280	1280	1000	pCi/L
LA-SMA-6.3	SS028	2005	UF	RAD	Plutonium-239/240	1	1	1	775	775	775	30	pCi/L
LA-SMA-6.5	SS0287	2005	UF	RAD	Gross alpha	1	1	1	161	161	161	30	pCi/L
LA-SMA-10	SS037	2005	UF	RAD	Gross alpha	1	1	1	81	81.3	81.3	30	pCi/L
M-SMA-2	SS1984	2004	UF	RAD	Gross alpha	2	2	2	54	42.3	66	30	pCi/L
M-SMA-3	SS1985	2004	UF	RAD	Gross alpha	3	3	3	79	36.1	112	30	pCi/L
M-SMA-4	SS1987	2004	UF	RAD	Gross alpha	5	5	2	25	1	65	30	pCi/L
M-SMA-4	SS1987	2005	UF	RAD	Gross alpha	4	4	1	23	12.9	42	30	pCi/L
M-SMA-5	SS199	2004	UF	RAD	Gross alpha	2	2	2	220	202	237	30	pCi/L
M-SMA-5	SS199	2005	UF	RAD	Gross alpha	2	2	2	76	37.9	114	30	pCi/L
M-SMA-6	SS1991	2004	UF	RAD	Gross alpha	4	3	2	41	17.2	56	30	pCi/L
M-SMA-8	E200	2004	UF	RAD	Americium-241	4	4	1	18.7	7.02	44.5	30	pCi/L
M-SMA-8	E200	2004	UF	RAD	Gross alpha	4	4	3	223	26.8	751	30	pCi/L
M-SMA-8	E200	2005	UF	RAD	Americium-241	4	4	1	15.395	6.74	32.4	30	pCi/L
M-SMA-8	E200	2005	UF	RAD	Gross alpha	4	4	3	104	29.7	232	30	pCi/L
M-SMA-9	SS2001	2004	UF	RAD	Gross alpha	4	4	3	39	18	62.5	30	pCi/L
M-SMA-11	SS2003	2004	UF	RAD	Gross alpha	4	4	2	72	26.2	141	30	pCi/L
M-SMA-11	SS2003	2005	UF	RAD	Gross alpha	4	4	1	22	9.57	33	30	pCi/L
M-SMA-13	SS205	2004	UF	RAD	Gross alpha	4	4	4	214	50.3	604	30	pCi/L
M-SMA-13	SS205	2004	UF	RAD	Gross beta	4	4	1	408	117	1140	1000	pCi/L
M-SMA-13	SS205	2005	UF	RAD	Gross alpha	1	1	1	2290	2290	2290	30	pCi/L
M-SMA-13	SS205	2005	UF	RAD	Gross beta	1	1	1	2210	2210	2210	1000	pCi/L
PJ-SMA-7	SS24210	2005	UF	RAD	Gross alpha	4	4	4	224	68.7	366	30	pCi/L
PJ-SMA-15	E248	2005	UF	RAD	Gross alpha	3	3	3	66	39.1	110	30	pCi/L
PJ-SMA-15	E248.5	2004	UF	RAD	Gross alpha	1	1	1	132	132	132	30	pCi/L
PJ-SMA-15	E248.5	2005	UF	RAD	Gross alpha	4	4	2	47	5.39	85.7	30	pCi/L
PJ-SMA-4	SS24253	2005	UF	RAD	Gross alpha	4	4	1	35	6.67	87.7	30	pCi/L
Pratt-SMA-1	SS20142	2004	UF	RAD	Gross alpha	5	5	5	103	58.9	142	30	pCi/L
Pratt-SMA-1	SS20142	2005	UF	RAD	Gross alpha	4	4	3	91	23.1	182	30	pCi/L
P-SMA-2.2	SS0575	2005	UF	RAD	Gross alpha	4	4	1	44	12.5	119	30	pCi/L

Table B11. 2005 Site-Specific Storm Water Monitoring, 2005
Summary of Radionuclides greater than DOE DCG

Station ID	Station Name	Year	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results				
									Average	Minimum	Maximum	DCG	Units
P-SMA-3	SS054	2005	UF	RAD	Gross alpha	4	4	2	53	4.58	132	30	pCi/L
S-SMA-2	E121	2004	UF	RAD	Gross alpha	3	3	1	21	5.79	32	30	pCi/L
S-SMA-3.5	SS12293	2005	UF	RAD	Gross alpha	3	3	3	121	56.9	201	30	pCi/L
S-SMA-4	SS1238	2004	UF	RAD	Gross alpha	4	4	3	57	6.26	144	30	pCi/L
S-SMA-4	SS1238	2005	UF	RAD	Gross alpha	4	4	2	34	5.61	67.7	30	pCi/L
S-SMA-6	SS1248	2004	UF	RAD	Gross alpha	1	1	1	253	253	253	30	pCi/L
T-SMA-1	E201.3	2005	UF	RAD	Gross alpha	2	2	2	40	32.3	47.3	30	pCi/L
T-SMA-3	SS20134	2004	UF	RAD	Gross alpha	5	5	3	53	24.5	115	30	pCi/L
T-SMA-3	SS20134	2004	UF	RAD	Lead-210	1	1	1	34.8	34.8	34.8	30	pCi/L
T-SMA-3	SS20134	2005	UF	RAD	Gross alpha	4	4	2	26	3.87	44.7	30	pCi/L
T-SMA-5	SS20138	2004	UF	RAD	Gross alpha	2	2	2	32	32	32.4	30	pCi/L
T-SMA-6	SS20140	2005	UF	RAD	Gross alpha	2	2	2	185	49.8	321	30	pCi/L

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Table B12. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value
2M-SMA-1	SS2432	2005	Q3	7/23/2005	UF	GU0507K243201	RAD	Gross alpha		30.7	pCi/L			30 pCi/L
3M-SMA-0.5	SS2459	2005	Q3	8/24/2005	UF	GU0508K245902	RAD	Gross alpha		112	pCi/L			30 pCi/L
3M-SMA-0.5	SS2459	2005	Q3	9/29/2005	UF	GU0509K245901	RAD	Gross alpha		54.8	pCi/L		J-	30 pCi/L
3M-SMA-0.6	SS2457	2005	Q3	8/12/2005	UF	GU0508K245702	RAD	Gross alpha		405	pCi/L			30 pCi/L
3M-SMA-0.6	SS2457	2005	Q3	8/24/2005	UF	GU0508K245704	RAD	Gross alpha		987	pCi/L			30 pCi/L
3M-SMA-0.6	SS2457	2005	Q3	8/24/2005	UF	GU0508K245704	RAD	Uranium-238		1420	pCi/L			600 pCi/L
3M-SMA-0.6	SS2457	2005	Q3	9/29/2005	UF	GU0509K245702	RAD	Uranium-238		2220	pCi/L	X	J+, J-	600 pCi/L
3M-SMA-0.6	SS2457	2005	Q3	9/29/2005	UF	GU0510K245701	RAD	Gross alpha		133	pCi/L			30 pCi/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Gross alpha		153	pCi/L			30 pCi/L
ACID-SMA-2	E056	2005	Q3	8/24/2005	UF	GU05080E05602	RAD	Plutonium-239/240		106	pCi/L			30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Gross alpha		43.1	pCi/L			30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	8/25/2005	UF	GU0508E055503	RAD	Plutonium-239/240		235	pCi/L			30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Gross alpha		79.9	pCi/L			30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/28/2005	UF	GU0509E055502	RAD	Plutonium-239/240		43.7	pCi/L			30 pCi/L
ACID-SMA-2	E056	2005	Q3	9/28/2005	UF	GU05090E05601	RAD	Gross alpha		95.4	pCi/L		J-	30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Gross alpha		36.1	pCi/L			30 pCi/L
ACID-SMA-2	E055.5	2005	Q3	9/29/2005	UF	GU0509E055501	RAD	Plutonium-239/240		35.1	pCi/L			30 pCi/L
CDB-SMA-1	SS2185	2004	Q3	8/18/2004	UF	GU0408K218502	RAD	Gross alpha		38.2	pCi/L			30 pCi/L
CDB-SMA-1	SS2185	2004	Q4	10/5/2004	UF	GU0410K218501	RAD	Gross alpha		38.2	pCi/L			30 pCi/L
CDB-SMA-2	SS2188	2004	Q3	7/27/2004	UF	GU0408K218801	RAD	Gross alpha		78.7	pCi/L			30 pCi/L
CDB-SMA-4	E227	2005	Q3	9/28/2005	UF	GU05100E22701	RAD	Gross alpha		106	pCi/L			30 pCi/L
CDB-SMA-4	E227	2005	Q4	10/9/2005	UF	GU05100E22702	RAD	Gross alpha		31.2	pCi/L			30 pCi/L
DP-SMA-0.3	SS0375	2005	Q3	8/12/2005	UF	GU0508K037502	RAD	Gross alpha		54.1	pCi/L			30 pCi/L
DP-SMA-0.3	SS0375	2005	Q3	8/24/2005	UF	GU0508K037504	RAD	Gross alpha		64.5	pCi/L			30 pCi/L
DP-SMA-0.9	SS0388	2005	Q3	8/24/2005	UF	GU0508K038803	RAD	Gross alpha		47.2	pCi/L			30 pCi/L
DP-SMA-1	SS0385	2004	Q3	7/27/2004	UF	GU0408K038501	RAD	Gross alpha		197	pCi/L			30 pCi/L
DP-SMA-1	SS0385	2004	Q3	8/24/2004	UF	GU0408K038502	RAD	Gross alpha		128	pCi/L			30 pCi/L
DP-SMA-1	SS0385	2005	Q3	8/24/2005	UF	GU0508K038502	RAD	Gross alpha		62.8	pCi/L			30 pCi/L
DP-SMA-2	SS0387	2005	Q3	8/12/2005	UF	GU0508K038701	RAD	Gross alpha		48	pCi/L			30 pCi/L
DP-SMA-2	SS0387	2005	Q3	8/22/2005	UF	GU0508K038702	RAD	Gross alpha		65.5	pCi/L			30 pCi/L
DP-SMA-2	SS0387	2005	Q3	8/24/2005	UF	GU0508K038703	RAD	Gross alpha		296	pCi/L			30 pCi/L
DP-SMA-2	SS0387	2005	Q4	10/3/2005	UF	GU0510K038701	RAD	Gross alpha		41.2	pCi/L			30 pCi/L
LA-SMA-1	SS0264	2004	Q3	7/18/2004	UF	GU04080262501	RAD	Gross alpha		108	pCi/L			30 pCi/L
LA-SMA-1	SS0264	2004	Q3	8/11/2004	UF	GU0408K026401	RAD	Gross alpha		312	pCi/L			30 pCi/L
LA-SMA-1	SS0264	2004	Q3	8/18/2004	UF	GU0408K026402	RAD	Gross alpha		287	pCi/L			30 pCi/L
LA-SMA-1	SS0264	2004	Q3	8/19/2004	UF	GU0408K026403	RAD	Gross alpha		143	pCi/L			30 pCi/L
LA-SMA-1	SS0264	2005	Q3	7/15/2005	UF	GU0507K026401	RAD	Gross alpha		464	pCi/L			30 pCi/L
LA-SMA-1	SS0263	2005	Q3	8/11/2005	UF	GU0508K026303	RAD	Gross alpha		32.2	pCi/L			30 pCi/L
LA-SMA-1	SS0263	2005	Q3	8/24/2005	UF	GU0508K026304	RAD	Gross alpha		46.9	pCi/L			30 pCi/L

Table B12. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value
LA-SMA-1.2	SS02645	2005	Q3	7/15/2005	UF	GU05070264501	RAD	Gross alpha		281	pCi/L			30 pCi/L
LA-SMA-1.2	SS02645	2005	Q3	8/24/2005	UF	GU05080264501	RAD	Gross alpha		118	pCi/L			30 pCi/L
LA-SMA-10	SS037	2005	Q3	8/11/2005	UF	GU05080K03701	RAD	Gross alpha		81.3	pCi/L			30 pCi/L
LA-SMA-3	SS0266	2004	Q3	8/18/2004	UF	GU0408K026601	RAD	Gross alpha		56.4	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	RAD	Gross alpha		66.4	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	8/15/2004	UF	GU0408K026702	RAD	Plutonium-239/240		30.9	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	RAD	Gross alpha		210	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	8/18/2004	UF	GU0408K026703	RAD	Plutonium-239/240		50.4	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	9/4/2004	UF	GU0409K026701	RAD	Gross alpha		40.4	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2004	Q3	9/13/2004	UF	GU0409K026702	RAD	Gross alpha		46.6	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2005	Q3	8/11/2005	UF	GU0508K026701	RAD	Gross alpha		172	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2005	Q3	8/11/2005	UF	GU0508K026701	RAD	Plutonium-239/240		60	pCi/L			30 pCi/L
LA-SMA-4	SS0267	2005	Q3	8/22/2005	UF	GU0508K026702	RAD	Gross alpha		74.4	pCi/L		J-	30 pCi/L
LA-SMA-4	SS0267	2005	Q3	8/22/2005	UF	GU0508K026702	RAD	Plutonium-239/240		66.7	pCi/L		J	30 pCi/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	RAD	Gross alpha		161	pCi/L			30 pCi/L
LA-SMA-5	SS0268	2004	Q3	8/18/2004	UF	GU0408K026801	RAD	Plutonium-239/240		51.5	pCi/L			30 pCi/L
LA-SMA-5	SS0268	2005	Q3	7/15/2005	UF	GU0507K026801	RAD	Gross alpha		67.4	pCi/L			30 pCi/L
LA-SMA-5	SS0268	2005	Q3	8/4/2005	UF	GU0508K026801	RAD	Gross alpha		46.8	pCi/L		J-	30 pCi/L
LA-SMA-5	SS0268	2005	Q3	9/28/2005	UF	GU0510K026801	RAD	Gross alpha		60	pCi/L		J-	30 pCi/L
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	RAD	Gross alpha		888	pCi/L			30 pCi/L
LA-SMA-5.2	SS026805	2005	Q3	7/15/2005	UF	GU05072680501	RAD	Gross beta		1430	pCi/L			1000 pCi/L
LA-SMA-5.2	SS026805	2005	Q3	8/24/2005	UF	GU05082680502	RAD	Gross alpha		195	pCi/L			30 pCi/L
LA-SMA-5.3	SS02681	2005	Q3	8/11/2005	UF	GU05080268101	RAD	Gross alpha		32.5	pCi/L			30 pCi/L
LA-SMA-5.3	SS02681	2005	Q3	9/28/2005	UF	GU05100268101	RAD	Gross alpha		82.8	pCi/L			30 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	7/15/2005	UF	GU05070268301	RAD	Gross alpha		153	pCi/L			30 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	8/16/2005	UF	GU05080268302	RAD	Gross alpha		44.5	pCi/L			30 pCi/L
LA-SMA-5.4	SS02683	2005	Q3	8/24/2005	UF	GU05080268303	RAD	Gross alpha		254	pCi/L			30 pCi/L
LA-SMA-5.5	SS02685	2005	Q3	7/15/2005	UF	GU05070268501	RAD	Gross alpha		61.2	pCi/L			30 pCi/L
LA-SMA-5.5	SS02685	2005	Q3	9/28/2005	UF	GU05100268501	RAD	Gross alpha		55.7	pCi/L			30 pCi/L
LA-SMA-6	SS0269	2004	Q3	9/19/2004	UF	GU0409K026901	RAD	Gross alpha		127	pCi/L			30 pCi/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	RAD	Americium-241		67.3	pCi/L			30 pCi/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	RAD	Gross alpha		1640	pCi/L			30 pCi/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	RAD	Gross beta		1280	pCi/L			1000 pCi/L
LA-SMA-6.3	SS028	2005	Q3	8/22/2005	UF	GU05080K02801	RAD	Plutonium-239/240		775	pCi/L			30 pCi/L
LA-SMA-6.5	SS0287	2005	Q3	8/22/2005	UF	GU0508K028701	RAD	Gross alpha		161	pCi/L			30 pCi/L
M-SMA-11	SS2003	2004	Q3	8/20/2004	UF	GU0408K200303	RAD	Gross alpha		96	pCi/L			30 pCi/L
M-SMA-11	SS2003	2004	Q3	9/27/2004	UF	GU0409K200303	RAD	Gross alpha		141	pCi/L			30 pCi/L
M-SMA-11	SS2003	2005	Q3	8/24/2005	UF	GU0508K200303	RAD	Gross alpha		33	pCi/L			30 pCi/L
M-SMA-13	SS205	2004	Q3	8/15/2004	UF	GU04080K20502	RAD	Gross alpha		50.3	pCi/L			30 pCi/L

Table B12. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value
M-SMA-13	SS205	2004	Q3	8/19/2004	UF	GU04080K20503	RAD	Gross alpha		604	pCi/L			30 pCi/L
M-SMA-13	SS205	2004	Q3	8/19/2004	UF	GU04080K20503	RAD	Gross beta		1140	pCi/L			1000 pCi/L
M-SMA-13	SS205	2004	Q3	8/20/2004	UF	GU04080K20504	RAD	Gross alpha		84.4	pCi/L			30 pCi/L
M-SMA-13	SS205	2004	Q3	9/25/2004	UF	GU04090K20501	RAD	Gross alpha		119	pCi/L			30 pCi/L
M-SMA-13	SS205	2005	Q3	8/24/2005	UF	GU05080K20502	RAD	Gross alpha		2290	pCi/L			30 pCi/L
M-SMA-13	SS205	2005	Q3	8/24/2005	UF	GU05080K20502	RAD	Gross beta		2210	pCi/L			1000 pCi/L
M-SMA-2	SS1984	2004	Q3	7/27/2004	UF	GU0408K198401	RAD	Gross alpha		66	pCi/L			30 pCi/L
M-SMA-2	SS1984	2004	Q3	8/19/2004	UF	GU0408K198402	RAD	Gross alpha		42.3	pCi/L			30 pCi/L
M-SMA-3	SS1985	2004	Q3	7/27/2004	UF	GU0408K198501	RAD	Gross alpha		112	pCi/L			30 pCi/L
M-SMA-3	SS1985	2004	Q3	8/19/2004	UF	GU0408K198502	RAD	Gross alpha		89.4	pCi/L			30 pCi/L
M-SMA-3	SS1985	2004	Q3	9/27/2004	UF	GU0409K198501	RAD	Gross alpha		36.1	pCi/L			30 pCi/L
M-SMA-4	SS1987	2004	Q3	7/27/2004	UF	GU0408K198701	RAD	Gross alpha		36.6	pCi/L			30 pCi/L
M-SMA-4	SS1987	2004	Q3	8/11/2004	UF	GU0408K198702	RAD	Gross alpha		65	pCi/L			30 pCi/L
M-SMA-4	SS1987	2005	Q3	7/15/2005	UF	GU0507K198701	RAD	Gross alpha		42	pCi/L			30 pCi/L
M-SMA-5	SS199	2004	Q3	9/27/2004	UF	GU04090K19902	RAD	Gross alpha		202	pCi/L			30 pCi/L
M-SMA-5	SS199	2004	Q4	10/5/2004	UF	GU04100K19901	RAD	Gross alpha		237	pCi/L			30 pCi/L
M-SMA-5	SS199	2005	Q3	8/22/2005	UF	GU05080K19902	RAD	Gross alpha		37.9	pCi/L			30 pCi/L
M-SMA-5	SS199	2005	Q3	8/24/2005	UF	GU05080K19903	RAD	Gross alpha		114	pCi/L			30 pCi/L
M-SMA-6	SS1991	2004	Q3	8/11/2004	UF	GU0408K199101	RAD	Gross alpha		49	pCi/L			30 pCi/L
M-SMA-6	SS1991	2004	Q3	8/18/2004	UF	GU0408K199103	RAD	Gross alpha		56	pCi/L			30 pCi/L
M-SMA-8	E200	2004	Q3	8/11/2004	UF	GU04080E20001	RAD	Gross alpha		39.4	pCi/L			30 pCi/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Americium-241		44.5	pCi/L			30 pCi/L
M-SMA-8	E200	2004	Q3	8/18/2004	UF	GU04080E20002	RAD	Gross alpha		751	pCi/L			30 pCi/L
M-SMA-8	E200	2004	Q3	8/20/2004	UF	GU04080E20003	RAD	Gross alpha		74	pCi/L			30 pCi/L
M-SMA-8	E200	2005	Q2	5/3/2005	UF	GU05050E20001	RAD	Gross alpha		96.8	pCi/L			30 pCi/L
M-SMA-8	E200	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Americium-241		32.4	pCi/L			30 pCi/L
M-SMA-8	E200	2005	Q3	7/15/2005	UF	GU05070E20001	RAD	Gross alpha		232	pCi/L			30 pCi/L
M-SMA-8	E200	2005	Q3	7/20/2005	UF	GU05070E20002	RAD	Gross alpha		57.9	pCi/L			30 pCi/L
M-SMA-9	SS2001	2004	Q3	8/18/2004	UF	GU0408K200102	RAD	Gross alpha		62.5	pCi/L			30 pCi/L
M-SMA-9	SS2001	2004	Q3	9/27/2004	UF	GU0409K200102	RAD	Gross alpha		41.4	pCi/L			30 pCi/L
M-SMA-9	SS2001	2004	Q4	10/5/2004	UF	GU0410K200101	RAD	Gross alpha		35.8	pCi/L			30 pCi/L
PJ-SMA-15	E248.5	2004	Q3	8/10/2004	UF	GU0408E248501	RAD	Gross alpha		132	pCi/L			30 pCi/L
PJ-SMA-15	E248.5	2005	Q3	7/15/2005	UF	GU0507E248501	RAD	Gross alpha		84.3	pCi/L			30 pCi/L
PJ-SMA-15	E248	2005	Q3	8/12/2005	UF	GU05080E24801	RAD	Gross alpha		39.1	pCi/L			30 pCi/L
PJ-SMA-15	E248	2005	Q3	9/28/2005	UF	GU05090E24801	RAD	Gross alpha		49	pCi/L		J-	30 pCi/L
PJ-SMA-15	E248.5	2005	Q4	10/9/2005	UF	GU0510E248501	RAD	Gross alpha		85.7	pCi/L			30 pCi/L
PJ-SMA-15	E248	2005	Q4	10/9/2005	UF	GU05100E24801	RAD	Gross alpha		110	pCi/L			30 pCi/L
PJ-SMA-4	SS24253	2005	Q3	8/4/2005	UF	GU05080KPS401	RAD	Gross alpha		87.7	pCi/L		J-	30 pCi/L
PJ-SMA-7	SS24210	2005	Q3	7/15/2005	UF	GU05072421001	RAD	Gross alpha		366	pCi/L			30 pCi/L

Table B12. FFCA Site-Specific Storm Water Monitoring, 2005
Analytical Results greater than DOE DCG - Detail

Station ID	Station Name	Year	Quarter	Sample Date	F/UF	Sample ID	Anyl Suite	Analyte	Symbol	Result	Units	Lab Qualifier Flag	Validation Flag	DCG Value
PJ-SMA-7	SS24210	2005	Q3	8/4/2005	UF	GU05082421001	RAD	Gross alpha		192	pCi/L		J-	30 pCi/L
PJ-SMA-7	SS24210	2005	Q3	8/12/2005	UF	GU05082421002	RAD	Gross alpha		68.7	pCi/L			30 pCi/L
PJ-SMA-7	SS24210	2005	Q3	8/24/2005	UF	GU05082421003	RAD	Gross alpha		270	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2004	Q3	7/27/2004	UF	GU04082014201	RAD	Gross alpha		58.9	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2004	Q3	8/18/2004	UF	GU04082014203	RAD	Gross alpha		142	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2004	Q3	8/20/2004	UF	GU04082014204	RAD	Gross alpha		121	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2004	Q3	9/4/2004	UF	GU04092014201	RAD	Gross alpha		123	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2004	Q4	10/5/2004	UF	GU04102014201	RAD	Gross alpha		67.8	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2005	Q3	8/12/2005	UF	GU05082014201	RAD	Gross alpha		81.2	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2005	Q3	8/22/2005	UF	GU05082014202	RAD	Gross alpha		79.5	pCi/L			30 pCi/L
Pratt-SMA-1	SS20142	2005	Q3	8/24/2005	UF	GU05082014203	RAD	Gross alpha		182	pCi/L			30 pCi/L
P-SMA-2.2	SS0575	2005	Q3	8/4/2005	UF	GU0508K057501	RAD	Gross alpha		119	pCi/L		J-	30 pCi/L
P-SMA-3	SS054	2005	Q3	8/11/2005	UF	GU05080K05402	RAD	Gross alpha		132	pCi/L			30 pCi/L
P-SMA-3	SS054	2005	Q3	9/7/2005	UF	GU05090K05401	RAD	Gross alpha		58.8	pCi/L			30 pCi/L
S-SMA-2	E121	2004	Q3	9/27/2004	UF	GU04090E12101	RAD	Gross alpha		32	pCi/L			30 pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/5/2005	UF	GU05081229301	RAD	Gross alpha		104	pCi/L		J-	30 pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/12/2005	UF	GU05081229302	RAD	Gross alpha		201	pCi/L			30 pCi/L
S-SMA-3.5	SS12293	2005	Q3	8/22/2005	UF	GU05081229303	RAD	Gross alpha		56.9	pCi/L		J-	30 pCi/L
S-SMA-4	SS1238	2004	Q3	7/18/2004	UF	GU0408K123801	RAD	Gross alpha		47.1	pCi/L			30 pCi/L
S-SMA-4	SS1238	2004	Q3	8/6/2004	UF	GU0408K123802	RAD	Gross alpha		31.4	pCi/L			30 pCi/L
S-SMA-4	SS1238	2004	Q3	8/15/2004	UF	GU0408K123805	RAD	Gross alpha		144	pCi/L			30 pCi/L
S-SMA-4	SS1238	2005	Q3	8/4/2005	UF	GU0508K123801	RAD	Gross alpha		67.7	pCi/L		J-	30 pCi/L
S-SMA-4	SS1238	2005	Q3	8/24/2005	UF	GU0508K123803	RAD	Gross alpha		39.9	pCi/L			30 pCi/L
S-SMA-6	SS1248	2004	Q3	8/15/2004	UF	GU0408K124802	RAD	Gross alpha		253	pCi/L			30 pCi/L
T-SMA-1	E201.3	2005	Q3	8/12/2005	UF	GU0508E201301	RAD	Gross alpha		47.3	pCi/L			30 pCi/L
T-SMA-1	E201.3	2005	Q3	9/28/2005	UF	GU0509E201302	RAD	Gross alpha		32.3	pCi/L		J-	30 pCi/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	RAD	Gross alpha		43	pCi/L			30 pCi/L
T-SMA-3	SS20134	2004	Q3	7/27/2004	UF	GU04082013401	RAD	Lead-210		34.8	pCi/L			30 pCi/L
T-SMA-3	SS20134	2004	Q3	8/18/2004	UF	GU04082013404	RAD	Gross alpha		115	pCi/L			30 pCi/L
T-SMA-3	SS20134	2004	Q3	8/20/2004	UF	GU04082013405	RAD	Gross alpha		56.3	pCi/L			30 pCi/L
T-SMA-3	SS20134	2005	Q3	7/15/2005	UF	GU05072013401	RAD	Gross alpha		44.7	pCi/L			30 pCi/L
T-SMA-3	SS20134	2005	Q3	8/12/2005	UF	GU05082013402	RAD	Gross alpha		32.8	pCi/L			30 pCi/L
T-SMA-5	SS20138	2004	Q3	9/4/2004	UF	GU0409K201301	RAD	Gross alpha		32.4	pCi/L			30 pCi/L
T-SMA-5	SS20138	2004	Q4	10/11/2004	UF	GU0410K201301	RAD	Gross alpha		32	pCi/L			30 pCi/L
T-SMA-6	SS20140	2005	Q3	8/24/2005	UF	GU05082014001	RAD	Gross alpha		321	pCi/L			30 pCi/L
T-SMA-6	SS20140	2005	Q4	10/3/2005	UF	GU05102014001	RAD	Gross alpha		49.8	pCi/L			30 pCi/L

Attachment 3.

Summary of Watershed Scale and Site-Specific Corrective Actions/Best Management Practices Conducted at Sites during 2005

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Part A. Summary of Watershed Scale Corrective Actions/Best Management Practices Conducted at Sites during 2005

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Attachment 3.

Watershed Scale Corrective Actions/Best Management Practices Conducted at Sites during 2005

Watershed Scale Corrective Actions to Address wSAL Exceedances

- Pueblo Canyon Stream Bank Stabilization Project Status: Continued inspection of willows. Plans being considered for installation of additional willows during FY06 where practicable.
- Erosion Control and Support
  - Ongoing maintenance of Surface Water Tracking System (SWTS) database to enhance tracking/inspection capabilities including hand-held GPS units.
  - Use GIS capability for map and drainage analysis support with respect to contaminant source identification
- Provide data analysis and interpretation
  - Evaluated storm water data after four samples were collected at specific stations/sites to determine if concentrations exceed a standard, benchmark, or wSAL.
  - Demonstrate if the analyte is likely of LANL origin.
  - Compared result to existing background levels if available.
  - Determined the source and assign responsibility for the corrective action (i.e., source removal, BMPs, institutional controls, BATs, long-term stewardship or benthic studies)
- Continued development of FFCA Quality Assurance Plan
- Conducted inspection and maintenance of BMPs at SWMUs, AOCs and other sites throughout watershed
- An evaluation of Los Alamos Canyon low-head weir was conducted to assess the continued benefit of this structural control located near the eastern Laboratory boundary. A report is being developed to summarize the findings of this effort
- Participation in Pajarito Plateau Watershed Partnership (PPWP) for improvement watershed awareness and management on the plateau to include watershed scale storm water planning and support
- Construction General Permit (CGP) – The Laboratory's CGP requires that a Notice of Intent (NOI) be submitted for soil disturbing activities greater than 1 acre in size. During the past quarter, inspections and follow up BMP maintenance (where applicable) were conducted at approximately 38 separate construction projects within Sandia, Pajarito, Water, Los Alamos, Potrillo, Mortandad and Canon de Valle watersheds

Remedial Services Corrective Action Efforts

- The Environmental Remediation and Surveillance Program (ENV-ERS) submitted the Investigation Report for the Middle Mortandad/Ten Site Aggregate to the NMED on time as stipulated in the NMED Consent Order. This NMED deliverable is the first of its kind for the Laboratory and represents a substantial effort to identify and document the nature and extent of contamination, as well as potential risk to human health and the environment, associated with Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) in the Middle Mortandad/Ten Site aggregate. This aggregate, which is part of the Mortandad Watershed, includes 61 SWMUs and 24 AOCs. The report recommends 1) collection of a few additional samples to determine vertical extent of contamination within three areas of the aggregate and

2) a limited removal action to reduce risk associated with polyaromatic hydrocarbons within one area of the aggregate.

- On September 26 and 27, 2005, approximately 40 cubic yards of waste consisting of contaminated soil, concrete, and piping from six Potential Release Sites (PRSs) at TA-33 were shipped to NTS for final disposition. During the week of September 19, 2005, the Laboratory received certification from the Department of Energy to ship Low Level Waste (LLW) to the Nevada Test Site (NTS). The waste shipments mark a highly successful yearlong collaboration between the Laboratory's Nuclear Waste and Infrastructure Services Division's Solid Waste Operations Group (NWIS-SWO), the Environmental Remediation Services Program (ENV-ERS), and other key Laboratory organizations. The shipments exceeded an Appendix F Performance Measure that calls for the Laboratory to attain certification for NTS LLW shipments, and make at least two such shipments, before the end of FY05. Furthermore, having the ability to ship LLW to NTS will reserve more room for other programmatic wastes in the Laboratory's existing LLW pits at TA-54, Area G.

- Monitoring of springs, surface water, and sediment in White Rock Canyon has been conducted as a part of the Laboratory's Environmental Surveillance Program since the early 1970s. This year Laboratory personnel sampled 21 springs, 5 surface water sites, and 8 sediment locations. Sampling and monitoring of groundwater emerging from springs along the Rio Grande has been an important part of the Laboratory's Environmental Surveillance Program. This activity is now an important part of the Site-Wide Groundwater Monitoring Plan, soon to be finalized as a requirement of the NMED Consent Order.

  Personnel from the Water Quality and Hydrology Group (ENV-WQH) completed their annual White Rock Canyon sampling trip during the week of September 26-29. The participants this year included personnel from ENV-WQH, EES-9, CER-20, and San Ildefonso Pueblo. A separate sampling group, including personnel from the NMED DOE Oversight Bureau (NMED DOE/OB) and Concerned Citizens for Nuclear Safety (CCNS), was on the river completing sampling during this same period.

- ENV-WQH has implemented the interim storm water controls at Hillside 137 (see attached photos). Hillside 137 is on the north side of Los Alamos Canyon, and contains contaminants from the original TA-1 operations. These storm water controls consist of rock check dams, run-on diversion and a log crib wall at the bottom of the slope. These actions will bring the Laboratory into compliance with the MSGP. However, these should be considered as temporary solutions and ENV-WQH will continue working with the LA Inn owners on the long-term solution for this site. If the LA Inn owners are not able to obtain financing for their renovation plans, LANL and DOE will have to determine how to fund a long-term solution for this site.

- A Mitigation Action Plan (MAP) Annual Report has been prepared by the U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) Los Alamos Site Office (LASO). It is part of the *Special Environmental Analysis for the Department of Energy National Nuclear Security Administration, Actions Taken in Response to the Cerro Grande Fire at Los Alamos National Laboratory, Los Alamos, New Mexico* (SEA) (DOE 2000a) and must be completed to maintain compliance under the National Environmental Policy Act (NEPA). This Annual Report is made available upon request to the public as part of the implementation of the SEA MAP.

- **Mitigation Action for Restored Burned Areas**
  Restored burned areas that have been reseeded, as well as undergone other erosion hazard reduction actions, will be monitored annually for the next five years (through 2005), or until the site is stabilized. Repair, replacement, or repetition of these actions will be undertaken as needed until at least 90% revegetation is achieved or until post-fire storm event water flows approximate pre-fire flow rates according to modeling and monitoring results or as determined necessary through the development and implementation of institutional resource management plans in effect at the time.

- *Mitigation Status*
  ENV-WQH is responsible for carrying out this commitment. Approximately 1,300 burned acres (520 hectares) were treated on LANL property to minimize soil loss immediately after the Cerro Grande Fire. Almost all of the treatments were short-term best management practices (BMPs) to help stabilize soils on site until the native vegetation can reestablish. The Burned Area Rehabilitation Treatment (BART) Survey, a database monitoring and tracking system, has been developed to identify sites and generate reports of additional work needed. Total vegetation cover in Fall 2005 remains significantly less than in Fall 2001. Vegetation cover may be stabilizing from an initial peak that may have been maintained by seeded grasses growing in soil mulched with straw. The gradual loss of mulch and overall lack of precipitation may have lowered the potential for understory vegetation cover, despite having above-average precipitation this past year. Total ground cover is essentially the same between Fall 2001 and Fall 2005. Total ground cover represents all forms of cover that protect the soil from wind and water erosion. In 2003, a Revised Universal Soil Loss Equation was used to determine that, overall, total cover *SEA Mitigation Action Plan 2005 Annual Report February 10, 2006* was sufficient to prevent soil loss in excess of the Natural Resources Conservation Service acceptable rate of soil loss. This indicates that total and vegetative cover has recovered to a point that protection of the soil from excessive erosion has been achieved. Additional monitoring of these sites should not be necessary. Reports, to be released by ENV-WQH and -ECO in 2006, present and discuss results from both the BART Survey and the soil loss model results.

- **Mitigation Action for Constructed Flood Control and Erosion Damage Reduction**
  Removal of the constructed flood control and erosion damage reduction features (such as lowhead weirs, sediment detention basins, and articulated concrete mattresses) and the flood retention structure, along with other potential alternative actions, will be considered when storm event water flows have returned to pre-fire levels as denoted by vegetation recovery and modeling information. It is estimated that the storm event water flows will have returned to pre-fire levels over about the next 5 to 10 years (2005–2010); site conditions will be reviewed every two years to determine when post-fire storm event water flow levels have returned to pre-fire levels. Additional NEPA and other regulatory compliance would be necessary to facilitate making long-term DOE

decisions regarding these structures when these actions become ripe for consideration. If the structures are removed, recontouring and reseeding of these areas with appropriate site-specific seed mixtures would be conducted until these construction sites have been at least 90% revegetated or as determined appropriate through the implementation of institutional resource management plans in effect at the time.

- *Mitigation Status*
  NNSA is responsible for carrying out this commitment. NNSA issued the *Environmental Assessment on Proposed Future Disposition of Certain Flood and Sediment Retention Structures at Los Alamos National Laboratory* (DOE 2002) and a Finding of No Significant Impact in August 2002. LANL subject matter experts will continue to monitor storm events to determine when flows have returned to pre-fire levels or equilibrium. This information will be considered by NNSA in determining the scope and timing of flood control and erosion damage reduction structure removal actions. The environmental assessment also considered the effects of disposition of these structures after storm event water flow levels have returned to pre-fire levels or equilibrium. On average, the Pajarito Plateau receives 18.7 inches (47.6 cm) of precipitation annually. Precipitation was 26% less than average in 2000 (14.0 inches [35.1 cm]), 22% less in 2001 (14.6 inches [36.6 cm]), 37% less in 2002 (11.9 inches [29.7 cm]), and 48% less in 2003 (10.1 inches [25.2 cm]). Total storm water runoff measured from watersheds at LANL in 2000 was 2.2 times greater than the historic average in 2000, 0.5 times greater in 2001, 0.9 times less than average in 2002 and 22 times less than average in 2003 (Gallaher and Koch 2004). In general it appears that runoff yield has decreased from immediate post-fire values. However, because of rainfall variability, NNSA does not have sufficient data at this time to make that determination.

- **Mitigation Action for Water Pooling and Wetlands**
  Monitoring for development of water pooling and wetlands associated with the flood control structure and other erosion damage reduction features will be conducted for the lifetime of these structures. Evaluation of the form and function of these areas with respect to wildlife use, wildlife behavioral changes, habitat modification, and other ecological features will be performed. These areas will be managed, as appropriate, through the implementation of institutional resource management plans in effect at the time.

  Mitigation Status
  ENV-ECO is responsible for carrying out this commitment. Two large erosion control structures were constructed following the Cerro Grande Fire to control storm water runoff and sediment from burned areas. A gabion weir was constructed above the junction of State Road 4 and Hwy 502 in Los Alamos Canyon. Total station surveys conducted in 2002 and 2005 determined a net gain of 2,607 cubic yards (1,981 cubic meters) of sediment over the past three years. Sediment depths behind the Los Alamos Canyon weir range between 1 and 2.5 feet (0.3 and 0.75 meters). In Pajarito Canyon a large cement flood retention structure was constructed. Total station surveys conducted in 2002 and 2005 determined a net gain of 1,176 cubic yards (894 cubic meters) of

sediment over the past three years with a sediment accumulation of 2.0 feet (0.6 meters) from 2003 to 2005.

Biologists from the Army Corps of Engineers conducted a sitewide survey of wetlands at LANL. The area above the Los Alamos Canyon weir is not developed enough to be considered a jurisdictional wetland. The area behind the flood retention structure in Pajarito Canyon has received significant stormwater runoff and sediment deposition in 2005, however, there is no long-term water pooling. The Army Corps of Engineers survey did not identify this area as having any jurisdictional wetlands. The area behind the Los Alamos Canyon weir was severely disturbed during construction activities. Cottonwood and willow cuttings were planted in the riparian area and some of them have responded well. The upland area that was disturbed during construction was reseeded and has also responded well. There is now sufficient vegetation to support habitat for many of the bird and small animal species found on the Pajarito Plateau. The presence of standing water during part of the year also acts to attract wildlife to the site. The upland side slopes above the Pajarito Flood Retention Structure were seeded with a native species mix and recovery here has been favorable as well. This site probably receives more large mammal use than the Los Alamos Canyon site, as evident by the numerous elk and deer prints in the sediments.

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Part B. Summary of Site-Specific Corrective Actions/Best Management Practices Conducted at Sites during 2005

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Attachment 3. Summary of Site-Specific Corrective Actions/Best Management Practices Conducted at Sites during 2005

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
00-011(d)	Mortar impact area	73.8	LA/Pueblo	B-SMA-1	2004	Sample not recorded for this sampling period.	Mulch (Wood Chip) Check Dam (Log) Check Dam (Rock)	1/1/2000 5/19/2005 5/16/2005	10/11/2005	Rain Event			
00-017	Waste lines	67.5	LA/Pueblo	LA-SMA-1	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Check Dam (Rock) Gabions (Channel Stabilization) Check Dam (Log)	5/26/2005 5/26/2005 7/28/2005 7/11/2005 11/17/2005	10/11/2005 11/16/2005	Rain Event Routine	Installed check dam (log) above sampler.	11/17/2005	New Installation; Preventative Maintenance
00-018(a)	Sludge-bed wastewater treatment plant, Pueblo Canyon	42.8	LA/Pueblo	P-SMA-3	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Geotextile Seed Riprap(Outlet Protection)	11/3/2005 11/3/2005 11/3/2005 11/3/2005 11/3/2005	10/11/2005 10/13/2005	Rain Event Routine	Installed check dams (rock), gabions, riprap (general), geotextile, and seeding.	11/3/2005	New Installation
00-019	Wastewater treatment plant, central	51.5	LA/Pueblo	P-SMA-2.2	2005	Sample not recorded for this sampling period.	Berm (Earth) Berm (Base Course) Jute Matting Check Dam (Log) Check Dam (Rock) Riprap (Outlet Protection) Riprap (Outlet Protection)	1/1/1990 8/31/2005 1/1/2000 6/11/2005 6/11/2005 1/1/2000 8/26/2005	10/11/2005	Rain Event	Widened riprap (french drain) and filled in rill.	11/2/2005	Maintenance; Repair
00-030(g)	Septic system (near old Catholic Church parking lot)	47.2	LA/Pueblo	ACID-SMA-1	2005	Sample not recorded for this sampling period.	None	N/A	10/12/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
00-030(i)	Septic system	54.5	LA/Pueblo	LA-SMA-1.5	2005	Sample not recorded for this sampling period.	Gabion (Channel Stabilization) Straw Wattle	1/1/2000 11/17/2005	10/12/2005 11/16/2005	Rain Event Routine	Installed straw wattle.	11/17/2005	New Installation; Preventative Maintenance
01-001(c)	Septic Tank 137	76.5	LA/Pueblo	LA-SMA-4	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Straw Wattles Gabions (Channel Stabilization) Check Dams (Rock) Riprap (General) Check Dam (Log)	11/5/2004 11/5/2004 5/19/2005 8/24/2005 1/1/2000 11/10/2005 11/10/2005 11/15/2005	10/12/2005 10/11/2005 10/24/2005	Rain Event Routine	Installed check dams (rock) and riprap (general). Installed check dam (log) and removed sediment from sediment trap.	11/10/2005 11/15/2005	New Installation; Preventative Maintenance New Installation; Preventative Maintenance
01-001(d)	Septic Tank 138 (hillside)	74.5	LA/Pueblo	LA-SMA-5	2004	Sample not recorded for this sampling period.	Mulch (Hydro) Seeding (Permanent) Silt Fence Straw Bale Barrier Check Dam (Log)	11/7/2004 11/7/2004 11/7/2004 11/7/2004 11/15/2005	10/12/2005 10/11/2005	Routine	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-001(f)	Septic Tank 140 (hillside)	56.7	LA/Pueblo	LA-SMA-2	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Check Dam (Log) Check Dam (Rock) Gabion (Channel Stabilization) Check Dam (Rock) Check Dam (Log)	11/4/2004 11/4/2004 7/12/2005 7/19/2005 7/21/2005 7/21/2005 11/15/2005	10/11/2005 10/11/2005	Rain Event Routine	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-002(b)-00	Outfall TA-01 SWMU to be in TA-45	71.5	LA/Pueblo	ACID-SMA-2	2005	Sample not recorded for this sampling period.	Jute Matting Straw Wattles Jersey Barrier Check Dam (Log)	1/1/2000 1/1/2000 4/26/2005 11/15/2005	10/12/2005	Rain Event	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-003(a)	Landfill	79	LA/Pueblo	LA-SMA-3	2004	Sample not recorded for this sampling period.	Check Dam (Log)	11/15/2005	10/11/2005 10/11/2005	Rain Event Routine	Installed check dam (log) and removed sediment from sediment trap. Maintenance Scheduled	11/15/2005	New Installation; Preventative Maintenance New Installation; Pending
01-003(d)	Surface disposal site	49.5	LA/Pueblo	LA-SMA-5.2	2005	Sample not recorded for this sampling period.	Straw Wattles Check Dam (Log)	8/30/2005 11/15/2005	10/11/2005 10/11/2005	Rain Event Routine	Retrenched wattle and installed check dam (log) above sampler.	11/15/2005	Maintenance and New Installation; Preventative Maintenance

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
01-003(e)	Surface disposal site	83	LA/Pueblo	LA-SMA-5	2004	Sample not recorded for this sampling period.	Berm (Earth) Mulch (Hydro) Seeding (Permanent) Silt Fence Straw Bale Barrier Check Dam (Log)	2/1/1999 11/7/2004 11/7/2004 11/7/2004 11/7/2004 11/15/2005	10/12/2005 10/11/2005	Rain Event Routine	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-006(b)	Drainlines and outfall	76.5	LA/Pueblo	LA-SMA-2	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Log) Check Dam (Rock) Check Dam (Rock) Gabion (Channel Stabilization) Check Dam (Rock) Check Dam (Log)	11/4/2004 11/4/2004 5/19/2005 7/12/2005 7/13/2005 7/19/2005 7/21/2005 7/21/2005 11/15/2005	10/12/2005 10/11/2005	Rain Event Routine	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-006(b)	Drainlines and outfall	76.5	LA/Pueblo	LA-SMA-4	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Log) Check Dam (Rock) Check Dam (Rock) Gabion (Channel Stabilization) Check Dam (Rock) Check Dam (Log)	11/4/2004 11/4/2004 5/19/2005 7/12/2005 7/13/2005 7/19/2005 7/21/2005 7/21/2005 11/15/2005	10/12/2005 10/11/2005 10/24/2005	Rain Event Routine Routine	Installed check dam (log) and removed sediment from sediment trap.	11/15/2005	New Installation; Preventative Maintenance
01-006(c)	Drainlines and outfall	76.5	LA/Pueblo	LA-SMA-4	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Straw Wattles Check Dams (Rock) Riprap (General) Check Dam (Log)	11/4/2004 11/4/2004 5/19/2005 8/24/2005 11/10/2005 11/10/2005 11/15/2005	10/12/2005 10/11/2005 10/24/2005	Rain Event Routine Routine	Installed Check Dams and riprap (general). Installed check dam (log) and removed sediment from sediment trap.	11/10/2005 11/15/2005	New Installation; Preventative Maintenance New Installation; Preventative Maintenance
01-006(d)	Drainlines and outfall	76.5	LA/Pueblo	LA-SMA-4	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Straw Wattles Check Dams (Rock) Riprap (General) Check Dam (Log)	11/4/2004 11/4/2004 5/19/2005 8/24/2005 11/10/2005 11/10/2005 11/15/20052	10/12/2005 10/11/2005 10/24/2005	Rain Event Routine Routine	Installed Check Dams and riprap (general). Installed check dam (log) and removed sediment from sediment trap.	11/10/2005 11/15/2005	New Installation; Preventative Maintenance New Installation; Preventative Maintenance
01-006(n)	Drainlines and outfall	76.5	LA/Pueblo	LA-SMA-4	2004	Sample not recorded for this sampling period.	Silt Fence Straw Bale Barrier Straw Wattles Straw Wattles Check Dams (Rock) Riprap (General) Check Dam (Log)	11/4/2004 11/4/2004 5/19/2005 8/24/2005 11/10/2005 11/10/2005 11/15/2005	10/12/2005 10/11/2005 10/24/2005	Rain Event Routine Routine	Installed Check Dams and riprap (general). Installed check dam (log) and removed sediment from sediment trap.	11/10/2005 11/15/2005	New Installation; Preventative Maintenance New Installation; Preventative Maintenance
02-003(a)	Valve house and gaseous effluent line	57.6	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Seeding (Permanent) Straw Wattles Straw Wattles Check Dam (Log)	1/1/2000 8/15/2005 8/24/2005 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-003(e)	Holding tank (near reactor water boiler)	40.5	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Seeding (Permanent) Straw Wattles Straw Wattles Check Dam (Log)	1/1/2000 8/15/2005 8/24/2005 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-006(b)	Acid waste line	51.8	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Seeding (Permanent) Check Dam (Log)	1/1/1990 1/1/2000 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-007	Septic system	44.8	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Seeding (Permanent) Straw Wattles Check Dam (Log)	1/1/2000 1/1/2000 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
02-008(a)	Outfall	55.8	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Seeding (Permanent) Check Dam (Log)	1/1/2000 1/1/2000 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-009(a)	Non-intentional release	57	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Berm (Earth) Seeding (Permanent) Check Dam (Log)	1/1/2000 1/1/2000 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-009(b)	Non-intentional release	44.8	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Seeding (Permanent) Straw Wattles Straw Wattles Check Dam (Log)	1/1/2000 1/1/2000 8/24/2005 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-009(c)	Non-intentional release	51.3	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Berm (Earth) Jute Matting Seeding (Permanent)	1/1/2000 1/1/2000 1/1/2000	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
02-011(a)	Storm drain and outfall	57	LA/Pueblo	LA-SMA-5.5	2005	Sample not recorded for this sampling period.	Seeding (Permanent) Check Dam (Log)	1/1/2000 11/15/2005	10/12/2005 10/24/2005	Rain Event Routine	Installed four check dams (log) in channel.	11/15/2005	New Installation; Preventative Maintenance
03-003(m)	Storage area (capacitor banks) - PCB only site	46.3	Sandia	S-SMA-1	2004	Sample not recorded for this sampling period.	Riprap (Outlet Protection) Check Dam (Rock) Check Dam (Rock)	1/1/2000 1/1/2000 6/7/2005	10/13/2005	Rain Event			
03-009(a)	Surface disposal (soil fill)	61.3	Sandia	S-SMA-1	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Berm (Earth) Jute Matting	6/7/2005 1/1/2000 6/15/2005	10/14/2005	Rain Event			
03-009(d)	Surface disposal site	42.8	Pajarito	2M-SMA-1.4		Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Georidges / Enviroberms Riprap (General) Straw Wattles	8/01/1999 8/22/2005 1/1/2000 8/22/2005	10/13/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
03-010(a)	Vacuum repair shop (former location)-systematic release site	69	Pajarito	2M-SMA-1	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Check Dam (Rock) Jute Matting Riprap (Outlet Protection) Straw Wattles Splash Basin Riprap (General) Check Dam (Rock) Gabion (Channel Stabilization) Riprap (General) Riprap (Outlet Protection)	9/16/2005 7/22/2005 7/28/2005 1/1/2000 8/11/2005 8/11/2005 9/16/2005 9/16/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005	10/13/2005 10/24/2005	Rain Event Routine	Installed five check dams (rock), one gabion, a catch basin at the culver outlet, and lined channel with riprap.	10/12/2005	New installation; Preventative Maintenance.
03-012(b)	Operational release and outfall	65	Sandia	S-SMA-2	2004	Sample not recorded for this sampling period.	Berm (Earth)	01/01/2000	10/13/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
03-013(a)	Operational release	45	Sandia	S-SMA-0.2		Sample not recorded for this sampling period.	Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure Straw Wattles Riprap (Outlet Protection)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/1990	10/12/2005	Rain Event			
03-013(b)	Operational release	45	Sandia	S-SMA-0.2		Sample not recorded for this sampling period.	Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure Straw Wattles Riprap (Outlet Protection)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/1990	10/12/2005	Rain Event			
03-014(b2)	Outfall	46.3	Sandia	S-SMA-3.5	2005	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Check Dams (Rock) Gabions (Channel Stabilization) Check Dam (Rock) Riprap (General) Gabions (Channel Stabilization) Check Dams (Rock) Riprap (General)	5/19/2005 5/19/2005 11/1/2005 11/1/2005 11/1/2005 11/18/2005 11/18/2005 11/18/2005	10/14/2005 10/24/2005	Rain Event Routine	Installed six gabions, five check dams (rock), and lined washed out area with riprap.	11/18/2005	New Installation; Preventative Maintenance

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
03-014(c2)	Outfall	72	Sandia	S-SMA-3	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Reinforcement (Rock) Silt Dike	5/19/2005 5/19/2005 9/30/2004 9/30/2004	10/14/2005	Rain Event			
03-014(c2)	Outfall	72	Sandia	S-SMA-3.5	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Reinforcement (Rock) Silt Dike Gabions (Channel Stabilization) Check Dams (Rock) Riprap (General)	5/19/2005 5/19/2005 9/30/2004 9/30/2004 11/18/2005 11/18/2005 11/18/2005	10/14/2005 10/24/2005	Rain Event Routine	Installed six gabions, five check dams (rock), and lined washed out area with riprap.	11/18/2005	New Installation; Preventative Maintenance
03-029	Landfill	44.3	Sandia	S-SMA-1	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Mulch (Straw) Seeding (Permanent) Straw Bale Barrier Velocity Dissipation Device	6/7/2005 1/1/2000 8/22/2005 8/22/2005 1/1/2000 1/1/2000	10/14/2005	Rain Event			
03-045(b)	Industrial or sanitary wastewater treatment	65.8	Sandia	S-SMA-2	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting	1/1/2000 1/1/2000	10/13/2005	Rain Event			
03-045(c)	Outfall	57.7	Sandia	S-SMA-2	2004	Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000	10/13/2005	Rain Event			
03-052(f)	Storm drainage	45	Sandia	S-SMA-0.2		Sample not recorded for this sampling period.	Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure Straw Wattles Riprap (Outlet Protection)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/1990	10/12/2005	Rain Event			
03-054(b)	Outfall	65.8	Pajarito	2M-SMA-2	2005	Sample not recorded for this sampling period.	Riprap (General)	1/1/2000	10/13/2005	Rain Event			
03-054(e)	Outfall	89	Mortandad	M-SMA-1	2004	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Gabions (Slope Stabilization) Jute Matting	1/1/2000 1/1/2000 1/1/2000	10/13/2005	Rain Event			
03-055(a)	Outfall	61	Pajarito	2M-SMA-1.7		Sample not recorded for this sampling period.	Straw Wattles	9/12/2005	10/13/2005	Rain Event			
03-056(c)	Transformer storage area - PCB only site	45	Sandia	S-SMA-2	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Riprap (General)	6/7/2005 5/1/2001 1/1/2000	10/13/2005	Rain Event			
04-001	Firing site	45	Mortandad	T-SMA-7		Sample not recorded for this sampling period.	Mulch (Straw) Seeding (Permanent) Straw Wattles	7/1/2000 7/1/2000 7/1/2000					
04-002	Surface disposal	51.5	Mortandad	T-SMA-7		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/1/2000 7/1/2000 7/1/2000	10/19/2005	Rain Event			
04-003(a)	Outfall	57.3	Mortandad	CDB-SMA-0.1		Sample not recorded for this sampling period.	Straw Wattles	9/12/2005	10/19/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
04-003(b)	Outfall	51.5	Mortandad	T-SMA-7		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/1/2000 7/1/2000 7/1/2000	10/19/2005	Rain Event			
04-004	Soil contamination beneath buildings	57.3	Mortandad	CDB-SMA-0.1		Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting	1/1/2000 1/1/2000	10/19/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
05-001(a)	Former firing site	45	Mortandad	M-SMA-12.8		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/8/2000 7/8/2000 7/8/2000	10/19/2005	Rain Event			
05-001(b)	Former firing site	45	Mortandad	M-SMA-12.9		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/8/2000 7/8/2000 7/8/2000	10/19/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
05-001(c)	Former firing site	73.5	Mortandad	M-SMA-13	2004	10/3/2005	Silt Fence Straw Bale Barrier Check Dam (Log)	12/1/1998 12/1/1998 6/14/2005	10/19/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
05-004	Former septic system	49.7	Mortandad	M-SMA-12.6		Sample not recorded for this sampling period.	Channel (Vegetative) Channel (Earth) Mulch (Straw) Seeding (Permanent) Straw Wattles Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 8/26/2004 5/3/2001	10/19/2005	Rain Event			
05-005(a)	Former French drain	45	Mortandad	M-SMA-12.7		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/8/2000 7/8/2000 7/8/2000	10/19/2005	Rain Event			
05-005(b)	Outfall	53.7	Mortandad	M-SMA-12.5		Sample not recorded for this sampling period.	Contour Tree Felling Straw Wattles	1/1/2000 8/24/2005	10/19/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
05-006(b)	Soil contamination beneath former buildings	45	Mortandad	M-SMA-12.7		Sample not recorded for this sampling period.	Contour Tree Felling Straw Wattles	1/1/2000 8/24/2005	10/19/2005	Rain Event			
05-006(c)	Soil contamination beneath former buildings	53.7	Mortandad	M-SMA-12.5		Sample not recorded for this sampling period.	Contour Tree Felling Straw Wattles	1/1/2000 8/24/2005	10/19/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
05-006(e)	Soil contamination beneath former buildings	45	Mortandad	M-SMA-12.7		Sample not recorded for this sampling period.	Contour Tree Felling Straw Wattles	1/1/2000 8/24/2005	10/19/2005	Rain Event			
05-006(h)	Soil contamination beneath former buildings	45	Mortandad	M-SMA-12.9		Sample not recorded for this sampling period.	Contour Tree Felling Mulch (Straw) Seeding (Permanent) Straw Wattles	1/1/2000 7/2/2000 7/2/2000 7/2/2000	10/19/2005	Rain Event			
06-007(g)	Building and surface disposal	50.8	Pajarito	2M-SMA-1.6		Sample not recorded for this sampling period.	Check Dam (Rock) Concrete Debris Straw Wattles	1/1/2000 1/1/2000 7/3/2000					
07-001(b)	Firing site (inactive)	55.5	Pajarito	2M-SMA-3	2005	Sample not recorded for this sampling period.	Straw Wattles	7/1/2000					
07-001(c)	Firing site (inactive)	46.7	Pajarito	2M-SMA-3	2005	Sample not recorded for this sampling period.	Felled Trees Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000 1/1/2000					
07-001(d)	Firing site (inactive)	55.5	Pajarito	2M-SMA-3	2005	Sample not recorded for this sampling period.	Straw Wattles	7/1/2000					
08-005	Container storage area	51	Pajarito	STRM-SMA-2		Sample not recorded for this sampling period.	Sediment Trap	1/1/2000					
08-006(a)	Material disposal area (MDA Q)	55.5	Pajarito	STRM-SMA-3		Sample not recorded for this sampling period.	Berm (Earth)	1/1/2000					
08-009(d)	Industrial or sanitary wastewater treatment	40.2	Pajarito	STRM-SMA-1.5		Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000					
08-009(f)	Outfall	42	Pajarito	STRM-SMA-1		Sample not recorded for this sampling period.	Riprap (General)	1/1/2000					
09-004(g)	Settling tank	61.8	Pajarito	PJ-SMA-4	2005	Sample not recorded for this sampling period.	Geotextiles (Synthetic) Seeding (Permanent) Straw Wattles Check Dam (Rock) Jute Matting	6/27/2005 6/27/2005 6/1/2005 6/1/2005 12/5/2005	10/24/2005	Routine	Installed jute matting and seed.	12/5/2005	New installation; Preventative Maintenance.
09-004(o)	Settling tank	43.8	Pajarito	PJ-SMA-3		Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	1/1/2000 7/2/2000			Maintenance Scheduled		New Installation; Pending
09-005(a)	Septic system	51	Pajarito	STRM-SMA-4		Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Riprap (General) Silt Fence	1/1/2000 1/1/2000 1/1/2000					
09-005(g)	Septic tank	51	Pajarito	PJ-SMA-4	2005	Sample not recorded for this sampling period.	Geotextiles (Synthetic) Seeding (Permanent) Straw Wattles Straw Wattles Check Dam (Rock) Jute Matting	6/27/2005 6/27/2005 6/1/2005 1/1/2000 6/1/2000 12/5/2005	10/24/2005	Routine	Installed jute matting and seed.	12/5/2005	New installation; Preventative Maintenance.

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
09-009	Surface impoundment	58.8	Pajarito	PJ-SMA-2		Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Straw Wattles Check Dams (Rock)	1/1/2000 8/31/2004 7/2/2000 12/5/2005			Installed three check dams (rock) and two straw wattles.	12/5/2005	New installation
09-013	Material disposal area (MDA M)	56	Pajarito	PJ-SMA-1	2005	Sample not recorded for this sampling period.	Berm (Earth) Mulch (Straw) Sediment Trap Seeding (Permanent) Silt Dike Straw Wattles	8/1/1996 7/19/2000 7/19/2000 8/1/1999 1/1/2000 1/1/2000					
09-013	Material disposal area (MDA M)	56	Pajarito	STRM-SMA-5		Sample not recorded for this sampling period.	Berm (Earth) Mulch (Straw) Sediment Trap Seeding (Permanent) Silt Dike Straw Wattles	8/1/1996 7/19/2000 7/19/2000 8/1/1999 1/1/2000 1/1/2000					
11-001(c)	Firing site (inactive)	56.2	Water/Valle	W-SMA-6		Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000	11/16/2005	Rain Event			
11-003(b)	Air gun	55.5	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Berm (Asphalt) Check Dam (Log) Check Dam (Rock) Felled Trees Riprap (Outlet Protection) Splash Basin	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000					
11-004(a)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(a)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(b)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(b)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(c)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(c)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(d)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(d)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(e)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(e)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(f)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-004(f)	Drop tower - firing site (active)	56	Water/Valle	W-SMA-11	2005	Sample not recorded for this sampling period.	Check Dam (Log) Felled Trees	1/1/2000 1/1/2000					
11-005(c)	Outfall (inactive)	59	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
11-006(b)	Tank and/or associated equipment	52	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Felled Trees Jute Matting Riprap (General) Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 8/31/2004 1/1/2000 8/31/2004					
11-006(c)	Tank and/or associated equipment	68.8	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Check Dam (Log) Check Dam (Rock) Riprap (General)	1/1/2000 1/1/2000 3/29/2005			Maintenance Scheduled		New Installation; Pending

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
11-006(d)	Tank and/or associated equipment	74	Water/Valle	W-SMA-10	2005	Sample not recorded for this sampling period.	Riprap (General)	1/1/2000					
14-001(g)	Firing site - Open Burn/Open Detonation (active)	53.3	Water/Valle	CDV-SMA-6	2005	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000					
14-002(a)	Firing site (inactive)	46.3	Water/Valle	CDV-SMA-4		Sample not recorded for this sampling period.	Check Dam (Rock) Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000 1/1/2000					
14-002(d)	Firing site (inactive)	40.8	Water/Valle	CDV-SMA-6	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000					
14-002(e)	Firing site (inactive)	47.8	Water/Valle	CDV-SMA-6	2005	Sample not recorded for this sampling period.	Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000					
14-005	Incinerator (active)	57.3	Water/Valle	CDV-SMA-5		Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Straw Wattles	1/1/2000 1/1/2000 1/1/2000					
14-006	Tank and/or associated equipment	47.1	Water/Valle	CDV-SMA-6	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000					
14-009	Surface disposal site	53.7	Water/Valle	CDV-SMA-3		Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock) Riprap (General) Straw Bale Barrier Straw Wattles Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 9/20/2005					
14-010	Sump	51.5	Water/Valle	CDV-SMA-4		Sample not recorded for this sampling period.	Check Dam (Rock) Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000 1/1/2000					
15-006(c)	Firing site R-44 (inactive)	64.5	Pajarito	3M-SMA-0.5	2005	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000			Maintenance Scheduled		New Installation; Scheduled
15-007(b)	Material disposal area (MDA Z) landfill	40.2	Water/Valle	CDV-SMA-9		Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000					
15-008(a)	Surface disposal E/F Site	72	Water/Valle	PT-SMA-1		Sample not recorded for this sampling period.	Straw Wattles	1/1/2000					
15-008(b)	Surface disposal	67.2	Pajarito	3M-SMA-0.6	2005	Sample not recorded for this sampling period.	Silt Fence Straw Wattles Check Dam (Log)	1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Scheduled
15-008(d)	Surface disposal	69	Water/Valle	CDV-SMA-7		Sample not recorded for this sampling period.	Straw Wattles	9/20/2005					
15-008(f)	I-J Firing Site mounds at TA-36 (active)	57.3	Water/Valle	PT-SMA-2		Sample not recorded for this sampling period.	Berm (Asphalt) Check Dam (Rock)	1/1/2000 1/1/2000					
15-009(c)	Septic tank	71.5	Pajarito	3M-SMA-0.5	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Scheduled
15-009(e)	Septic system, E/F Site	44.7	Water/Valle	PT-SMA-0.5		Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000					
15-010(c)	Drainline	51.5	Water/Valle	W-SMA-14		Sample not recorded for this sampling period.	Straw Wattles	9/20/2005					
15-011(b)	Dry well	87	Water/Valle	CDV-SMA-8		Sample not recorded for this sampling period.	Straw Wattles	1/1/2000					
15-011(c)	Sump	87	Water/Valle	CDV-SMA-8		Sample not recorded for this sampling period.	Straw Wattles	1/1/2000					
15-014(g)	Industrial or sanitary wastewater treatment	55.5	Water/Valle	CDV-SMA-8		Sample not recorded for this sampling period.	Channel (Asphalt / Concrete) Check Dam (Rock)	1/1/2000 1/1/2000					
15-014(j)	Outfall	61.3	Water/Valle	CDV-SMA-8		Sample not recorded for this sampling period.	Channel (Asphalt / Concrete) Check Dam (Rock) Wetland (Artificial)	1/1/2000 1/1/2000 1/1/2000					
16-001(a)	Tank	67	Water/Valle	CDV-SMA-1	2005	Sample not recorded for this sampling period.	Riprap (Outlet Protection)	1/1/2000					
16-001(b)	Dry wells	45	Water/Valle	CDV-SMA-1	2005	Sample not recorded for this sampling period.	Riprap (Outlet Protection)	1/1/2000					
16-001(c)	Tank	45	Water/Valle	CDV-SMA-1	2005	Sample not recorded for this sampling period.	Riprap (Outlet Protection)	1/1/2000					

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
16-001(d)	Dry well	45.6	Water/Valle	na		Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
16-003(a)	Sump	55.5	Water/Valle	W-SMA-4	2005	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000	11/16/2005	Rain Even			
16-003(f)	Sump	56	Water/Valle	W-SMA-5	2005	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Check Dam (Rock) Riprap (Outlet Protection)	1/1/2000 8/31/2004 8/31/2004					
16-006(c)	Septic system	49.5	Water/Valle	W-SMA-8	2005	10/4/2005	Check Dam (Log) Check Dam (Rock) Straw Wattles	6/3/2005 6/3/2005 1/1/2000	11/16/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
16-006(g)	Septic tank	46	Water/Valle	W-SMA-3		Sample not recorded for this sampling period.	Straw Wattles	1/13/2006			Installed three straw wattles.	1/13/2006	New Installation
16-010(b)	Flash pad; RCRA unit (undergoing closure)	55.5	Water/Valle	CDV-SMA-2.4	2005	10/4/2005	Channel (Diversion) Check Dam (Rock) Riprap (Outlet Protection) Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000					
16-010(c)	Burn site 16-388 - RCRA Unit (active)	47	Water/Valle	CDV-SMA-2.5		Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting Riprap (General) Silt Fence Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000					
16-010(d)	Burn site 16-399 - RCRA unit (active)	50.3	Water/Valle	CDV-SMA-2.5		Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock) Riprap (General) Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
16-016(c)	Landfill	72	Water/Valle	CDV-SMA-2.4	2005	10/4/2005	Check Dam (Rock) Juniper Bale Riprap (General) Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
16-016(d)	Surface disposal site	44.5	Water/Valle	CDV-SMA-1.4	2005	Sample not recorded for this sampling period.	Jute Matting	1/1/2000					
16-016(g)	Surface disposal site	46.1	Water/Valle	W-SMA-8	2005	10/4/2005	Straw Wattles Check Dam (Log) Check Dam (Rock) Riprap (General) Mulch (Hydro) Silt Fence	1/1/2000 6/3/2005 6/3/2005 1/1/2000 9/20/2005 9/20/2005	11/16/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
16-018	Material disposal area (MDA P); RCRA unit (currently undergoing RCRA closure)	69.3	Water/Valle	CDV-SMA-2.4	2005	10/4/2005	Check Dam (Rock) Juniper Bale Reseed Riprap (General) Straw Bale Barrier Straw Wattles	8/31/2004 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
16-019	Material disposal area (MDA R)	82.5	Water/Valle	CDV-SMA-1.7	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000					
16-020	Silver recovery unit	61.3	Water/Valle	CDV-SMA-1.4	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting Mulch (Straw) Riprap (General) Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
16-021(c)	Industrial or sanitary wastewater treatment at 16-260	73.3	Water/Valle	CDV-SMA-2	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Straw Bale Barrier Straw Wattles Jute Matting	1/1/2000 1/1/2000 1/1/2000 1/1/2000 12/1/2005	11/01/2005	Routine	Installed jute matting throughout channel.	12/1/2005	New Installation; Preventative Maintenance.
16-026(a)	Outfall	73.5	Water/Valle	W-SMA-8	2005	10/4/2005	Straw Wattles Check Dam (Log) Check Dam (Rock) Gabions (Slope Stabilization) Riprap (General)	1/1/2000 6/3/2005 6/3/2005 1/1/2000 1/1/2000	11/16/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
16-026(c2)	Outfall, 16-462	61.8	Water/Valle	W-SMA-1	2005	Sample not recorded for this sampling period.	Straw Wattles Check Dam (Rock) Check Dam (Rock)	1/1/2000 1/1/2000 6/8/2005	11/16/2005	Rain Event			
16-026(h2)	Outfall, 16-360	61	Water/Valle	W-SMA-7	2005	Sample not recorded for this sampling period.	Straw Bale Barrier Straw Wattles Check Dam (Rock)	1/1/2000 1/1/2000 6/27/2005					
16-026(j)	Outfall, 16-226	40.2	Water/Valle	CDV-SMA-1.5	2005	Sample not recorded for this sampling period.	Straw Wattles	6/3/2005					
16-026(v)	Outfall	65.8	Water/Valle	W-SMA-1	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Rock)	6/8/2005 1/1/2000			Maintenance Scheduled		New Installation; Pending
16-026(z)	Outfall	49.6	Water/Valle	W-SMA-5	2005	Sample not recorded for this sampling period.	None	N/A					
16-028(a)	South drainage channel	51.5	Water/Valle	CDV-SMA-2.5		Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000			Maintenance Scheduled		New Installation; Pending
16-028(b)	Industrial or sanitary wastewater treatment, 16-370	83	Water/Valle	W-SMA-8	2005	10/4/2005	Berm (Base Coarse) Jute Matting Mulch (Hydro) Straw Wattles Check Dam (Log) Check Dam (Rock) Gabions (Channel Stabilization)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 6/3/2005 6/3/2005 1/1/2000	11/16/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
16-028(e)	Industrial or sanitary wastewater treatment	47.2	Water/Valle	W-SMA-2	2005	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000	11/16/2005	Rain Event			
16-029(s)	Sump	45.5	Water/Valle	CDV-SMA-0.5		Sample not recorded for this sampling period.	Berm (Earth)	1/1/2000			Maintenance Scheduled		New Installation; Pending
16-029(t)	Sump	41.5	Water/Valle	CDV-SMA-0.5		Sample not recorded for this sampling period.	Berm (Earth)	1/1/2000					
16-030(g)	Outfall	71	Water/Valle	W-SMA-9	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Mulch (Straw) Riprap (General) Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/16/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
18-003(c)	Septic system	62.3	Pajarito	TBD	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
18-010(d)	Outfall	46.2	Pajarito	TBD	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
18-010(f)	Outfall	62.3	Pajarito	TBD	2005	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Riprap (General)	1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
18-012(a)	Outfall	59.2	Pajarito	TBD	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
18-012(b)	Outfall	46.6	Pajarito	TBD	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
20-002(a)	Firing site	48.6	Sandia	S-SMA-3.9	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	8/22/2005 8/22/2005	11/14/2005	Rain Event			
20-002(c)	Firing site	73.8	Sandia	S-SMA-5	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Riprap (General) Silt Fence Straw Bale Barrier Straw Wattles	11/23/2004 11/23/2004 8/24/2005 11/23/2004 11/23/2004 5/12/2005	11/14/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
20-003(c)	Firing site	57.4	Sandia	S-SMA-5.1	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Rock) Straw Wattles	5/17/2005 8/25/2005 8/25/2005	11/14/2005	Rain Event			
21-011(c)	Tank and sump	54	LA/Pueblo	DP-SMA-0.9	2005	Sample not recorded for this sampling period.	Riprap (General) Run-On Diversion) Straw Wattles Riprap (General) Riprap (Outlet Protection) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 12/12/2005 12/12/2005 12/12/2005	12/5/2005	Routine	Installed riprap (general), catch basin, and check dams.	12/12/2005	New Installation; Preventative Maintenance
21-011(k)	Outfall	72	LA/Pueblo	DP-SMA-1	2004	10/3/2005	Berm (Earth) Silt Fence Straw Wattles Check Dam (Rock) Riprap (General)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 4/22/2005			Maintenance Scheduled		
21-013(b)	Surface disposal site	67	LA/Pueblo	LA-SMA-6	2004	Sample not recorded for this sampling period.	Asphalt / Concrete Straw Wattles Check Dam (Log)	1/1/2000 11/6/2004 11/21/2005	10/24/2005	Routine	Installed three check dams (log) above sampler.	11/21/2005	New installation; Preventative Maintenance.
21-013(g)	Surface disposal site	67	LA/Pueblo	LA-SMA-6	2004	Sample not recorded for this sampling period.	Georidges / Enviroberms Straw Wattles Check Dam (Log)	11/6/2004 11/6/2004 11/21/2005	10/24/2005	Routine	Installed three check dams (log) above sampler.	11/21/2005	New installation; Preventative Maintenance.
21-016(a)	Material disposal area (MDA T)	54	LA/Pueblo	DP-SMA-0.9	2005	Sample not recorded for this sampling period.	Riprap (General) Run-On Diversion) Straw Wattles Riprap (General) Riprap (Outlet Protection) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 12/12/2005 12/12/2005 12/12/2005	12/5/2005	Routine	Installed riprap (general), catch basin, and check dams.	12/12/2005	New Installation; Preventative Maintenance
21-016(b)	Material disposal area (MDA T)	54	LA/Pueblo	DP-SMA-0.9	2005	Sample not recorded for this sampling period.	Riprap (General) Run-On Diversion) Straw Wattles Riprap (General) Riprap (Outlet Protection) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 12/12/2005 12/12/2005 12/12/2005	12/5/2005	Routine	Installed riprap (general), catch basin, and check dams.	12/12/2005	New Installation; Preventative Maintenance
21-016(c)	Material disposal area (MDA T)	54	LA/Pueblo	DP-SMA-0.9	2005	Sample not recorded for this sampling period.	Riprap (General) Run-On Diversion) Straw Wattles Riprap (General) Riprap (Outlet Protection) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 12/12/2005 12/12/2005 12/12/2005	12/5/2005	Routine	Installed riprap (general), catch basin, and check dams.	12/12/2005	New Installation; Preventative Maintenance
21-024(e)	Septic system	56	LA/Pueblo	LA-SMA-6	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles Check Dam (Log)	1/1/2000 11/6/2004 11/21/2005	10/28/2005	Routine	Installed three check dams (log) above sampler.	11/21/2005	New installation; Preventative Maintenance.
21-024(h)	Septic system	54	LA/Pueblo	DP-SMA-2	2005	10/3/2005	Seeding (Permanent) Jute Matting Check Dams (Log)	12/7/2005 12/7/2005 12/7/2005			Installed seed, fertilizer, jute matting, and three check dams (log).	12/7/2005	New Installation
21-024(i)	Septic system	53.7	LA/Pueblo	LA-SMA-6.5	2005	Sample not recorded for this sampling period.	Brush Barrier Straw Wattles Check Dam (Rock)	1/1/2000 1/1/2000 11/22/2005	11/03/2005	Routine	Installed a large check dam (rock) 30' above sampler.	11/22/2005	New installation; Preventative Maintenance.
21-027(a)	Industrial or sanitary wastewater treatment	52	LA/Pueblo	LA-SMA-6.3	2005	Sample not recorded for this sampling period.	Berm (Asphalt)	1/1/2000					
21-027(d)	Drainline	45	LA/Pueblo	LA-SMA-6	2004	Sample not recorded for this sampling period.	Georidges / Enviroberms Straw Bale Barrier Straw Wattles Check Dam (Log)	11/6/2004 1/1/2000 11/6/2004 11/21/2005	10/28/2005	Routine	Installed three check dams (log) above sampler.	11/21/2005	New installation; Preventative Maintenance.
21-029	Soil contamination area	56.6	LA/Pueblo	DP-SMA-0.3	2005	Sample not recorded for this sampling period.	Jute Matting Silt Fence Straw Wattles Gabions (Channel Stabilization)	1/1/2000 1/1/2000 1/1/2000 12/13/2005	12/05/2005	Routine	Installed 2 gabions and a check dam (rock).	12/13/2005	New Installation; Preventative Maintenance.
22-014(b)	Sump	56	Pajarito	2M-SMA-1.5		Sample not recorded for this sampling period.	Straw Wattles	9/20/2005					

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
22-015(c)	Outfall	51.5	Pajarito	PJ-SMA-5		Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles Straw Wattles	1/1/2000 8/31/2004 9/20/2005					
26-001	Surface disposal site	65	LA/Pueblo	LA-SMA-9	2004	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000	11/14/2005	Rain Event			
32-004	Drainline and outfall	42	LA/Pueblo	LA-SMA-5.4	2005	Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock) Straw Bale Barrier Check Dam (Log)	1/1/2000 1/1/2000 1/1/2000 11/15/2005	11/14/2005 10/24/2005	Rain Event Routine	Installed check dams (log) above sampler.	11/15/2006	New Installation; Preventative Maintenance
33-004(d)	Septic system	56	Chaquehui	CHQ-SMA-2		Sample not recorded for this sampling period.	Check Dam (Rock) Georidges / Enviroberms Mulch (Wood Chip)	8/31/2005 1/01/2000 1/01/2000	10/24/2005	Rain Event			
33-004(h)	Outfall	56.6	Chaquehui	CHQ-SMA-1		Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock)	1/1/2000 9/8/2005	10/24/2005	Rain Event			
33-004(j)	Outfall	85	Chaquehui	CHQ-SMA-6		Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000	10/24/2005	Rain Event			
33-005(a)	Septic system	49	Chaquehui	CHQ-SMA-2		Sample not recorded for this sampling period.	Base Coarse Berm (Base Coarse) Check Dam (Rock) Jute Matting Straw Wattles	1/1/2000 1/1/2000 8/31/2005 1/1/2000 6/23/2005	10/24/2005	Rain Event			
33-005(b)	Septic system	49	Chaquehui	CHQ-SMA-2		Sample not recorded for this sampling period.	Base Coarse Berm (Base Coarse) Check Dam (Rock) Jute Matting Straw Wattles	1/1/2000 1/1/2000 8/31/2005 1/1/2000 6/23/2005	10/24/2005	Rain Event			
33-005(c)	Septic system	49	Chaquehui	CHQ-SMA-2		Sample not recorded for this sampling period.	Base Coarse Berm (Base Coarse) Check Dam (Rock) Jute Matting Straw Wattles	1/1/2000 1/1/2000 8/31/2005 1/1/2000 6/23/2005	10/24/2005	Rain Event			
33-006(a)	Firing site (inactive)	56	Chaquehui	CHQ-SMA-6		Sample not recorded for this sampling period.	Jute Matting (Poly) Straw Bale Barrier Check Dam (Rock) Check Dam (Rock) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 6/23/2005 8/31/2005	10/24/2005	Rain Event			
33-007(b)	Firing range (inactive)	59.3	Chaquehui	CHQ-SMA-5		Sample not recorded for this sampling period.	Berm (Earth) Georidges / Enviroberms Jute Matting Reinforcement (Rock) Riprap (General) Silt Fence Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
33-007(b)	Firing range (inactive)	59.3	Chaquehui	CHQ-SMA-6		Sample not recorded for this sampling period.	Berm (Earth) Georidges / Enviroberms Jute Matting Reinforcement (Rock) Riprap (General) Silt Fence Straw Bale Barrier Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/24/2005	Rain Event			
33-008(c)	Landfill	56	Chaquehui	CHQ-SMA-1		Sample not recorded for this sampling period.	Georidges / Enviroberms Mulch (Wood Chip) Check Dam (Rock)	1/1/2000 1/1/2000 6/22/2005	10/24/2005	Rain Event			
33-010(a)	Surface disposal	53.2	Ancho	A-SMA-6		Sample not recorded for this sampling period.	Straw Wattles	8/31/2005	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
33-010(b)	Surface disposal	45	Ancho	A-SMA-5		Sample not recorded for this sampling period.	Straw Wattles	8/31/2005	10/24/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
33-010(c)	Surface disposal	60.5	Chaquehui	CHQ-SMA-6		Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting (Poly) Silt Fence Straw Bale Barrier	1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/24/2005	Rain Event			
33-010(d)	Surface disposal	45	Ancho	A-SMA-4		Sample not recorded for this sampling period.	Straw Wattles	8/31/2005	10/24/2005	Rain Event			
33-010(f)	Surface disposal	47.2	Chaquehui	CHQ-SMA-3		Sample not recorded for this sampling period.	Straw Wattles	9/8/2005	10/24/2005	Rain Event			
33-010(g)	Surface disposal	47.8	Chaquehui	CHQ-SMA-6		Sample not recorded for this sampling period.	Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
33-010(g)	Surface disposal	47.8	Chaquehui	CHQ-SMA-7		Sample not recorded for this sampling period.	Mulch (Wood Chip) Straw Wattles	1/1/2000 1/1/2000	10/24/2005	Rain Event			
33-011(b)	Storage area	49	Chaquehui	CHQ-SMA-4.5		Sample not recorded for this sampling period.	Straw Wattles	9/6/2005	10/24/2005	Rain Event			
33-015	Incinerator	50.8	Chaquehui	CHQ-SMA-1		Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock)	1/1/2000 9/8/2005	10/24/2005	Rain Event			
33-016	Sump	54.5	Chaquehui	CHQ-SMA-4		Sample not recorded for this sampling period.	Straw Wattles	8/31/2005	10/24/2005	Rain Event			
35-003(d)	Wastewater treatment facility	59	Mortandad	Pratt-SMA-1	2004	10/3/2005	None	N/A			Maintenance Scheduled		New Installation; Scheduled
35-003(h)	Wastewater treatment facility	44.2	Mortandad	Pratt-SMA-1	2004	10/3/2005	None	N/A			Maintenance Scheduled		New Installation; Scheduled
35-003(l)	Wastewater treatment facility	59	Mortandad	Pratt-SMA-1	2004	10/3/2005	None	N/A			Maintenance Scheduled		New Installation; Scheduled
35-003(p)	Wastewater treatment facility	50.8	Mortandad	Pratt-SMA-1	2004	10/3/2005	Asphalt / Concrete Base Course	1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Scheduled
35-003(q)	Wastewater treatment facility	59	Mortandad	Pratt-SMA-1	2004	10/3/2005	None	N/A			Maintenance Scheduled		New Installation; Scheduled
35-003(r)	Outfall	87	Mortandad	Pratt-SMA-1	2004	10/3/2005	Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Scheduled
35-004(h)	Container storage area	50.8	Mortandad	Pratt-SMA-1	2004	10/3/2005	Base Coarse Berm (Earth)	1/1/2000 1/1/2000	10/28/2005	Rain Event	Maintenance Scheduled		New Installation; Scheduled
35-008	Surface disposal and landfill	61	Mortandad	M-SMA-10	2004	10/3/2005	Check Dam (Rock)	5/18/2005	10/26/2005	Rain Event			
35-014(e)	Oil Spill	61	Mortandad	M-SMA-10	2004	10/3/2005	Geotextiles (Natural) Check Dam (Rock)	1/1/2000 5/18/2005	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
35-014(e2)	Oil Spill	45.6	Mortandad	M-SMA-10.3		Sample not recorded for this sampling period.	Berm (Base Coarse)	1/1/2000	10/26/2005	Rain Event			
35-016(a)	Drains and outfalls	92	Mortandad	T-SMA-5	2004	10/3/2005	Berm (Earth) Wetland (Artificial) Check Dam (Rock) Check Dam (Rock)	1/1/2000 1/1/2000 9/1/2005 12/12/2005	10/28/2005 12/5/2005	Rain Event Sample Event	Installed three check dams (rock). Maintenance Scheduled	12/12/2005	New installation; Preventative Maintenance. New Installation; Pending
35-016(b)	Outfall	96	Mortandad	T-SMA-3	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Rock)	5/18/2000 12/12/2005	10/28/2005 12/5/2005	Rain Event Routine	Installed four native check dams (rock). Maintenance Scheduled	12/12/2005	New installation; Preventative Maintenance. New Installation; Pending
35-016(c)	Outfall	47.2	Mortandad	T-SMA-4	2004	Sample not recorded for this sampling period.	Outlet Protection (Rock)	1/1/2000	10/28/2005 12/5/2005	Rain Event Routine	Maintenance Scheduled		New Installation; Pending
35-016(d)	Outfall	76.5	Mortandad	T-SMA-4	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Retention Structure Riprap (Outlet Protection) Straw Wattles Check Dam (Rock)	3/15/2005 1/1/2000 1/1/2000 1/1/2000 3/15/2005 12/12/2005	10/28/2005 12/5/2005	Rain Event Routine	Installed three check dams (rock).	12/12/2005	New installation; Preventative Maintenance.
35-016(e)	Outfall	72	Mortandad	M-SMA-10	2004	10/3/2005	Straw Wattles Check Dam (Rock)	1/1/2000 5/18/2005	10/26/2005	Rain Event			
35-016(f)	Storm drain	76.5	Mortandad	M-SMA-9		Sample not recorded for this sampling period.	Straw Wattles Check Dam (Rock)	5/19/2005 5/19/2005	10/26/2005	Rain Event			
35-016(g)	Outfall	68.3	Mortandad	M-SMA-7	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Rock)	5/18/2005 1/1/2000	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
35-016(h)	Storm drain	76.5	Mortandad	M-SMA-6	2004	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Check Dam (Rock) Check Dam (Rock) Riprap (General)	1/1/2000 5/18/2005 1/1/2000 1/1/2000	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
35-016(h)	Storm drain	76.5	Mortandad	M-SMA-7	2004	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Check Dam (Rock) Check Dam (Rock) Riprap (General)	1/1/2000 5/18/2005 1/1/2000 1/1/2000	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
35-016(i)	Drains and outfalls	61	Mortandad	M-SMA-10.3		Sample not recorded for this sampling period.	Geotextiles (Natural)	1/1/2000	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
35-016(k)	Drains and outfalls	53	Mortandad	Pratt-SMA-1	2004	10/3/2005	Jute Matting Seeding (Permanent)	9/8/2005 9/8/2005	10/28/2005	Rain Event	Maintenance Scheduled		New Installation; Scheduled
35-016(l)	Storm drain	64	Mortandad	Pratt-SMA-1	2004	10/3/2005	Riprap (General)	1/1/2000	10/28/2005	Rain Event	Maintenance Scheduled		New Installation; Scheduled
35-016(m)	Drains and outfalls	72	Mortandad	Pratt-SMA-1	2004	10/3/2005	Gabions (Channel Stabilization) Geotextiles (Natural)	1/1/2000 1/1/2000	10/28/2005	Rain Event	Maintenance Scheduled		New Installation; Scheduled
35-016(n)	Storm drain	42.8	Mortandad	T-SMA-2.8		Sample not recorded for this sampling period.	Straw Wattles	9/8/2005	10/28/2005	Rain Event			
35-016(o)	Drains and outfalls	60.3	Mortandad	M-SMA-11	2004	Sample not recorded for this sampling period.	Riprap (Outlet Protection) Check Dam (Log) Check Dam (Rock)	1/1/2000 6/15/2005 6/15/2005	10/28/2005	Rain Event			
35-016(p)	Outfall	60.3	Mortandad	M-SMA-12	2004	Sample not recorded for this sampling period.	Georidges / Enviroberms Check Dam (Log) Check Dam (Rock)	5/25/2005 6/15/2005 6/15/2005	10/28/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
35-016(q)	Drains and outfalls	92	Mortandad	T-SMA-6	2004	10/3/2005	Berm (Earth) Geotextiles (Natural) Wetland (Artificial) Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 12/12/2005	10/28/2005 12/5/2005	Rain Event Sample Event	Installed four native check dams (rock).	12/12/2005	New installation; Preventative Maintenance.
36-001	Material disposal area (MDA AA)	45.7	Water/Valle	PT-SMA-4		Sample not recorded for this sampling period.	Check Dam (Rock) Gabions (Channel Stabilization) Riprap (General) Riprap (Outlet Protection) Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000					
36-003(b)	Septic system, I-J Site	50.2	Water/Valle	PT-SMA-2		Sample not recorded for this sampling period.	Georidges / Enviroberms Straw Wattles	1/1/2000 1/1/2000					
36-004(a)	Firing site (active)	48.5	Water/Valle	PT-SMA-3	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Jute Matting Jute Matting (Poly)	1/1/2000 1/1/2000 1/1/2000					
36-004(b)	Firing site (active)	57.3	Water/Valle	F-SMA-1	2005	Sample not recorded for this sampling period.	Berm (Earth) Channel (Diversion) Jersey Barrier	1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
36-004(c)	Firing site - open detonation (active)	68.3	Water/Valle	F-SMA-2	2005	Sample not recorded for this sampling period.	Berm (Earth) Channel (Diversion)	1/1/2000 1/1/2000					
36-004(e)	I-J Firing Site (active)	57.3	Water/Valle	PT-SMA-2		Sample not recorded for this sampling period.	Berm (Asphalt) Berm (Earth) Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
36-005	Surface disposal site	45.4	Water/Valle	F-SMA-2	2005	Sample not recorded for this sampling period.	Mulch (Wood Chip)	1/1/2000			Maintenance Scheduled		New Installation; Pending
36-006	Surface disposal site	78	Water/Valle	PT-SMA-3	2005	Sample not recorded for this sampling period.	None	N/A			Maintenance Scheduled		New Installation; Pending
36-008	NEW SWUM - Surface disposal area located near TA-36-1	52	Pajarito	3M-SMA-3		Sample not recorded for this sampling period.	Berm (Earth) Straw Wattles	1/1/2000 1/1/2000					
39-004(a)	Firing site	74	Ancho	A-SMA-1	2005	Sample not recorded for this sampling period.	Asphalt / Concrete Asphalt / Concrete	1/1/2000 1/1/2000	10/25/2005	Rain Event			
39-004(b)	Firing site	74.5	Ancho	A-SMA-2	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles	1/1/2000 1/1/2000	10/25/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
39-004(c)	Firing site 39-6 (open detonation) - RCRA Unit (active)	74.5	Ancho	A-SMA-3	2005	Sample not recorded for this sampling period.	Berm (Earth) Jute Matting	1/1/2000 1/1/2000	10/25/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
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39-004(d)	Firing site 39-57 (open detonation) - RCRA Unit (active)	74	Ancho	A-SMA-1	2005	Sample not recorded for this sampling period.	Berm (Earth) Retention Structure	1/1/2000 1/1/2000	10/25/2005	Rain Event			
39-004(e)	Firing site (active)	78.5	Ancho	A-SMA-2	2005	Sample not recorded for this sampling period.	Check Dam (Rock)	1/1/2000	10/25/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
40-003(a)	Scrap burn site - completed RCRA closure	46.3	Pajarito	PJ-SMA-11		Sample not recorded for this sampling period.	Check Dam (Rock)	9/20/2005					
40-003(b)	Burning area/open detonation (closure)	46.3	Pajarito	PJ-SMA-11		Sample not recorded for this sampling period.	Check Dam (Rock)	9/20/2005					
40-006(a)	Firing site (active)	56.2	Pajarito	PJ-SMA-10		Sample not recorded for this sampling period.	Berm (Base Course) Riprap (General)	1/1/2000 1/1/2000			Reconstructed berm and added a slight grade to direct flow to new riprap (french drain).	1/25/2006	Maintenance; Repair
40-006(b)	Firing site (active)	62	Pajarito	PJ-SMA-8	2005	Sample not recorded for this sampling period.	Berm (Earth) Straw Wattles	1/1/2000 1/1/2000					
40-006(c)	Firing site (active)	62	Pajarito	PJ-SMA-7	2005	Sample not recorded for this sampling period.	Berm (Earth) Straw Wattles	1/1/2000 1/1/2000					
40-009	Landfill	54.5	Pajarito	PJ-SMA-9		Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Straw Wattles	1/1/2000 8/31/2004 1/1/2000					
40-010	Surface disposal site	40.2	Pajarito	PJ-SMA-6		Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General) Check Dam (Rock) Straw Wattles	8/31/2004 8/31/2004 9/20/2005 9/20/2005					
42-001(a)	Incinerator (former location)	65.8	Mortandad	M-SMA-5	2004	Sample not recorded for this sampling period.	Berm (Base Coarse) Straw Wattles Check Dam (Rock)	1/1/2000 5/18/2005 5/18/2005	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
42-001(b)	Ash storage tank (former location)	65.8	Mortandad	M-SMA-5	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles Straw Wattles	5/18/2005 5/18/2005 9/8/2005	10/26/2005	Rain Event			
42-001(c)	Ash storage tank (former location)	65.8	Mortandad	M-SMA-5	2004	Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles Straw Wattles	5/18/2005 5/18/2005 9/8/2005	10/26/2005	Rain Event			
42-002(a)	Decontamination facility (former location)	65.8	Mortandad	M-SMA-5	2004	Sample not recorded for this sampling period.	Berm (Base Coarse) Straw Wattles Check Dam (Rock)	1/1/2000 5/18/2005 5/18/2005	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
42-002(b)	Decontamination facility driveway (former location)	65.8	Mortandad	M-SMA-5	2004	Sample not recorded for this sampling period.	Berm (Base Coarse) Straw Wattles Check Dam (Rock)	1/1/2000 5/18/2005 5/18/2005	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
45-001	Wastewater treatment facility	50.3	LA/Pueblo	ACID-SMA-2	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Jersey Barrier	1/1/2000 4/26/2005	10/12/2005	Rain Event			
45-004	Sanitary sewer outfall	50.2	LA/Pueblo	ACID-SMA-2	2005	Sample not recorded for this sampling period.	Silt Fence Check Dam (Rock) Check Dam (Rock) Jersey Barrier Jute Matting Seeding (Permanent)	1/1/2000 1/1/2000 8/22/2005 4/26/2005 8/22/2005 8/22/2005	10/11/2005	Rain Event			
46-002	Surface impoundment	52.8	Mortandad	CDB-SMA-2	2004	10/3/2005	Straw Wattles	5/18/2005	10/31/2005	Rain Event			
46-003(a)	Septic system	44.7	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Straw Wattles	9/12/2005					
46-003(b)	Septic system	55.5	Mortandad	CDB-SMA-1.6		Sample not recorded for this sampling period.	Check Dam (Rock) Riprap (General)	9/7/2005 9/7/2005					
46-003(e)	Septic system	50.8	Mortandad	CDB-SMA-1.6		Sample not recorded for this sampling period.	Straw Wattles	9/7/2005	10/31/2005	Rain Event			
46-004(a)	Waste line	49	Mortandad	CDB-SMA-1.1		Sample not recorded for this sampling period.	None	N/A	10/31/2005	Rain Event	Located under asphalt and building TA-46-31.		No Exposure

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
46-004(a2)	Outfall	49	Mortandad	CDB-SMA-1.3		Sample not recorded for this sampling period.	Straw Wattles Asphalt / Concrete Berm (Base Coarse) Check Dam (Rock) Felled Trees Georidges / Enviroberms Mulch (Straw) Reseed Riprap (General)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			
46-004(c2)	Outfall	49	Mortandad	CDB-SMA-0.2		Sample not recorded for this sampling period.	Check Dam (Rock) Straw Wattles Berm (Base Course) Riprap (General) Check Dam (Log) Contour Tree Felling Riprap (Outlet Protection)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 9/14/2005 1/1/2000 9/14/2005	10/31/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
46-004(d2)	Stack emissions	56	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	None	N/A	11/01/2005	Rain Event	Located under asphalt and building TA-46-24.		No Exposure
46-004(g)	Outfall / stack emissions	56	Mortandad	CDB-SMA-0.5		Sample not recorded for this sampling period.	Berm (Base coarse) Check Dam (Rock) Mulch (Straw) Reseed Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-004(h)	Outfall / stack emissions	56	Mortandad	CDB-SMA-1.5		Sample not recorded for this sampling period.	Berm (Base coarse) Check Dam (Rock) Gabions (Channel Stabilization) Mulch (Straw) Reseed Riprap (General) Straw Bale Barrier Straw Wattles Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 9/14/2005	11/01/2005	Rain Event			
46-004(m)	Outfall	49	Mortandad	CDB-SMA-0.5		Sample not recorded for this sampling period.	Straw Wattles Berm (Base Course) Check Dam (Rock) Mulch (Straw) Reseed	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-004(q)	Outfall	45	Mortandad	CDB-SMA-1.5		Sample not recorded for this sampling period.	Berm (Base Course) Check Dam (Rock) Gabions (Channel Stabilization) Mulch (Straw) Reseed Riprap (General) Straw Bale Barrier Straw Wattles Check Dam (Rock)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 9/14/2005	10/31/2005	Rain Event			
46-004(s)	Outfall		Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Straw Wattles Asphalt / Concrete Berm (Base Course) Berm (Earth) Check Dam (Rock) Jute Matting Mulch (Straw) Reseed	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-004(t)	Outfall	68.3	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Riprap (General)	1/1/2000	10/31/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
46-004(u)	Outfall	45	Mortandad	CDB-SMA-1.3		Sample not recorded for this sampling period.	Straw Wattles Berm (Base Course) Check Dam (Rock) Felled Trees Mulch (Straw) Reseed Riprap (General)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			
46-004(v)	Outfall	45	Mortandad	CDB-SMA-1.3		Sample not recorded for this sampling period.	Straw Wattles Berm (Base Course) Check Dam (Rock) Felled Trees Mulch (Straw) Reseed Riprap (General)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			
46-004(x)	Outfall	49	Mortandad	CDB-SMA-1.3		Sample not recorded for this sampling period.	Straw Wattles Berm (Base Course) Check Dam (Rock) Mulch (Straw) Reseed Reseed	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-004(y)	Outfall	49	Mortandad	CDB-SMA-1.1		Sample not recorded for this sampling period.	Berm (Base Course) Check Dam (Rock) Felled Trees Mulch (Straw) Reseed Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-004(z)	Outfall	49	Mortandad	CDB-SMA-1.1		Sample not recorded for this sampling period.	Straw Wattles Berm (Base Course) Check Dam (Rock) Mulch (Straw) Reseed Riprap (General)	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	10/31/2005	Rain Event			
46-005	Surface impoundment	52.8	Mortandad	CDB-SMA-1.7		Sample not recorded for this sampling period.	Straw Wattles Straw Wattles	8/25/2005 9/8/2005	10/31/2005	Rain Event			
46-006(d)	Operational release	49	Mortandad	CDB-SMA-1.1		Sample not recorded for this sampling period.	Asphalt / Concrete Asphalt / Concrete Asphalt / Concrete Berm (Asphalt) Berm (Base Coarse) Check Dam (Rock) Mulch (Straw) Reseed	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			
46-006(d)	Operational release	49	Mortandad	CDB-SMA-1.3		Sample not recorded for this sampling period.	Asphalt / Concrete Asphalt / Concrete Asphalt / Concrete Berm (Asphalt) Berm (Base Coarse) Check Dam (Rock) Mulch (Straw) Reseed	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			
46-006(d)	Operational release	49	Mortandad	CDB-SMA-1.5		Sample not recorded for this sampling period.	Asphalt / Concrete Asphalt / Concrete Asphalt / Concrete Berm (Asphalt) Berm (Base Coarse) Check Dam (Rock) Mulch (Straw) Reseed Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000	11/01/2005	Rain Event			

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
46-008(g)	Storage area	68.3	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Straw Wattles	9/12/2005	10/31/2005	Rain Event			
46-009(a)	Surface disposal	57	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Riprap (General) Check Dam (Rock)	1/1/2000 9/12/2005	11/1/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
46-009(b)	Surface disposal	70	Mortandad	CDB-SMA-2	2004	10/3/2005	Berm (Earth) Geotextiles (Natural) Straw Wattles	1/1/2000 1/1/2000 5/18/2005	10/31/2005	Rain Event			
48-003	Septic system	40.7	Mortandad	M-SMA-3.5		Sample not recorded for this sampling period.	Contour Tree Felling Straw Wattles Check Dam (Rock) Seeding (Permanent)	1/1/2000 1/1/2000 9/12/2005 9/12/2005	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
48-007(a)	Drains and outfalls	55.8	Mortandad	M-SMA-4	2004	Sample not recorded for this sampling period.	Berm (Earth) Gabions (Channel Stabilization) Gabions (Channel Stabilization) Gabions (Slope Stabilization) Jute Matting Outlet Protection (Rock) Riprap (General) Straw Wattles Check Dam (Rock) Riprap (Outlet Protection) Riprap (General) Jute Matt	1/1/2000 5/18/2005 1/1/2000 9/12/2005 1/1/2000 1/1/2000 1/1/2000 5/18/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005	10/26/2005	Rain Event	Installed check dams (rock) within channel leading to wetland , riprap (outlet protection) below culverts, riprap (general)) with in established channel, and installed jute matting above sampler.	10/28/2006	New Installation; Preventative Maintenance.
48-007(b)	Drains and outfalls	49.3	Mortandad	M-SMA-3.1		Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock) Mulch (Wood Chip) Reseed Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 5/9/2001	10/26/2005	Rain Event			
48-007(c)	Drains and outfalls	69.5	Mortandad	M-SMA-3	2004	Sample not recorded for this sampling period.	Silt Dike Berm (Base Course) Straw Wattles Check Dam (Rock) Riprap (Outlet Protection)	1/1/2000 1/1/2000 5/17/2004 1/1/2000 5/17/2004	10/26/2005	Rain Event			
48-007(d)	Drains and outfalls	55.8	Mortandad	M-SMA-4	2004	Sample not recorded for this sampling period.	Berm (Earth) Check Dam (Rock) Gabions (Channel Stabilization) Gabions (Channel Stabilization) Gabions (Slope Stabilization) Jute Matting Outlet Protection (Rock) Straw Wattles Check Dam (Rock) Riprap (Outlet Protection) Riprap (General) Jute Matting	1/1/2000 1/1/2005 1/1/2000 5/18/2005 9/12/2005 1/1/2000 1/1/2000 5/18/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005	10/26/2005	Rain Event	Installed check dams (rock) within channel leading to wetland , riprap (outlet protection) below culverts, riprap (general)) with in established channel, and installed jute matting above sampler.	10/28/2006	New Installation; Preventative Maintenance.
48-007(f)	Drains and outfalls	62	Mortandad	M-SMA-2	2004	Sample not recorded for this sampling period.	Straw Wattles Straw Wattles Check Dam (Rock) Check Dam (Rock)	5/17/2005 1/1/2000 5/17/2005 1/1/2000	10/26/2005	Rain Event			
48-010	Surface impoundment	62	Mortandad	M-SMA-4	2004	Sample not recorded for this sampling period.	Gabions (Channel Stabilization) Gabions (Channel Stabilization) Gabions (Slope Stabilization) Riprap (General Straw Wattles Straw Wattles Wetland (Artificial) Check Dams (Rock) Riprap (General) Riprap (Outlet Protection) Jute Matting	1/1/2000 5/18/2005 9/12/2005 1/1/2000 5/18/2005 1/1/2000 1/1/2000 10/28/2005 10/28/2005 10/28/2005 10/28/2005	10/26/2005	Rain Event	Installed check dams (rock) within channel leading to wetland , riprap (outlet protection) below culverts, riprap (general)) with in established channel, and installed jute matting above sampler.	10/28/2006	New Installation; Preventative Maintenance.

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
Site ID	Site Name	Erosion Matrix Score	Site Watershed	SMA ID	Monitoring Year Start	Storm Water Sample Dates	BMP Description	Date of Installation	Inspection Dates	Inspection Type	Maintenance Completed	Maintenance Date	Maintenance Type
49-001(a)	Material disposal area (MDA AB) (experimental shafts)	52.6	Water/Valle	W-SMA-13		Sample not recorded for this sampling period.	None	N/A	10/25/2005	Rain Event	Maintenance in accordance with wSAL Exceedance levels scheduled to be complete by the end of February to the beginning of March.		New Installation; Scheduled
49-001(g)	Material disposal area (MDA AB) (miscellaneous)	52.6	Water/Valle	W-SMA-12		Sample not recorded for this sampling period.	Check Dam (Rock) Felled Trees Riprap (General) Riprap (Outlet Protection) Silt Fence Straw Wattles	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Maintenance Scheduled		New Installation; Pending
49-005(a)	Landfill (east of Area 10)	53.7	Water/Valle	W-SMA-15		Sample not recorded for this sampling period.	Berm (Earth)	1/1/2000					
50-006(a)	Operational release	53.7	Mortandad	T-SMA-1	2004	10/10/2005	None	N/A	10/26/2005	Rain Event	Quarterly inspections & BMP installation/maintenance conducted per requirements of TA-50 MSGP SWPP Plan. BMP installation deferred due to safety issues.		
50-006(d)	Effluent discharge	43.8	Mortandad	M-SMA-8	2004	Sample not recorded for this sampling period.	Straw Wattles	1/1/2000	10/26/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
50-009	Material disposal area (MDA C)	43.8	Mortandad	T-SMA-1	2004	10/10/2005	None	N/A			Maintenance Scheduled		New Installation; Pending
53-002(a)	Disposal lagoon (NE, NW impoundments) (inactive)	47.8	LA/Pueblo	LA-SMA-10	2004	Sample not recorded for this sampling period.	Mulch (Straw) Riprap (Outlet Protection)	1/1/2000 1/1/2000	11/01/2005	Rain Event			
53-008	Storage area, Boneyard	61.8	LA/Pueblo	LA-SMA-10	2004	Sample not recorded for this sampling period.	Mulch (Straw) Riprap (Outlet Protection)	1/1/2000 1/1/2000	11/01/2005	Rain Event			
53-014	Soil Contamination, lead storage site II	80.5	Sandia	S-SMA-4	2004	Sample not recorded for this sampling period.	Check Dam (Rock)	05/17/2005	11/01/2005	Rain Event			
54-004	Material disposal area (MDA H)	45.6	Pajarito	PJ-SMA-14		Sample not recorded for this sampling period.	Berm (Earth) Sediment Trap	1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-014(d)	Material disposal area (MDA G) storage trenches A, B, C, D	66.5	Pajarito	PJ-SMA-15	2004	10/9/2005 10/9/2005	Jersey Barrier Sediment Trap Silt Fence	1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	62	Mortandad	CDB-SMA-4	2004	10/9/2005	Berm (Asphalt) Berm (Earth) Check Dam (Rock) Riprap (General) Sediment Trap Silt Fence Straw Bale Barrier Straw Wattles Weir	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-017	Material disposal area (MDA G) disposal pits 16, 22 (active before 11/19/80)	62	Pajarito	PJ-SMA-15	2004	10/9/2005 10/9/2005	Berm (Asphalt) Berm (Earth) Check Dam (Rock) Riprap (General) Sediment Trap Silt Fence Straw Bale Barrier Straw Wattles Weir	1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-018	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	52.6	Mortandad	CDB-SMA-4	2004	10/9/2005	Check Dam (Rock) Riprap (General) Sediment Trap Silt Fence	1/1/2000 1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-018	Material disposal area (MDA G) disposal pits 27-33,35-37 (active after 11/19/80)	52.6	Pajarito	PJ-SMA-15	2004	10/9/2005 10/9/2005	Check Dam (Rock) Riprap (General) Sediment Trap Silt Fence	1/1/2000 1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	53.7	Mortandad	CDB-SMA-4	2004	10/9/2005	Jersey Barrier Sediment Trap Silt Fence	1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		

Site Information				Monitoring Information			BMP Information		Inspection and Maintenance Information				
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54-020	Material disposal area (MDA G) disposal shafts (active after 11/19/80)	53.7	Pajarito	PJ-SMA-15	2004	10/9/2005 10/9/2005	Jersey Barrier Sediment Trap Silt Fence	1/1/2000 1/1/2000 1/1/2000			Inspections & BMP installation/maintenance conducted per requirements of TA-54 MSGP SWPP Plan.		
60-007(b)	Systematic or intent. prod. release	43.8	Sandia	S-SMA-3.6		Sample not recorded for this sampling period.	Sediment Trap	1/1/2000	11/14/2005	Rain Event			
61-007	Transformer site - systematic leak - PCB only site	43.8	LA/Pueblo	an		Sample not recorded for this sampling period.	None	N/A	11/01/2005	Rain Event	Site is located under asphalt and basecoarse.		No Exposure
72-001	Firing range	84.3	Sandia	S-SMA-6	2004	Sample not recorded for this sampling period.	Berm (Earth)	1/1/2000	11/14/2005	Rain Event			
73-001(a)	Landfill	85.5	LA/Pueblo	P-SMA-1	2004	Sample not recorded for this sampling period.	Mulch (Wood Chip) Riprap (General) Straw Wattles	1/1/2000 1/1/2000 9/12/2005	11/14/2005	Rain Event			
73-002	Incinerator surface disposal	56	LA/Pueblo	P-SMA-2	2005	Sample not recorded for this sampling period.	Berm (Base Course) Berm (Base Course) Channel (Diversion) Jute Matting Straw Wattles Check Dam (Rock) Riprap (General)	9/7/2004 1/1/2000 1/1/2000 1/1/2000 1/1/2000 6/4/2000 1/1/2000	11/14/2005	Rain Event			
73-004(d)	Septic tank (landfill)	46.7	LA/Pueblo	P-SMA-1	2004	Sample not recorded for this sampling period.	Straw Wattles	9/12/2005	11/14/2005	Rain Event			
73-006	Airport building outfalls	56	LA/Pueblo	P-SMA-2	2005	Sample not recorded for this sampling period.	Berm (Base Course) Berm (Base Course) Geotextiles (Natural) Straw Wattles	9/7/2004 1/1/2000 1/1/2000 1/1/2000	11/14/2005	Rain Event			
C-00-041	Asphalt and tar remnant site	42.8	LA/Pueblo	R-SMA-1	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Rock) Gabions (Channel Stabilization) Riprap (General)	1/1/2000 5/16/2005 5/16/2005 1/1/2000	10/11/2005	Rain Event			
C-15-004	Transformers - PCB only site	43.9	Water/Valle	PT-SMA-0.5		Sample not recorded for this sampling period.	Straw Wattles	9/20/2005					
C-15-007	Non-intentional release	51.5	Water/Valle	CDV-SMA-8		Sample not recorded for this sampling period.	Straw Wattles Wetland (Artificial) Straw Wattles	1/1/2000 1/1/2000 7/7/2005					
C-33-001	Transformer	56	Chaquehui	CHQ-SMA-1		Sample not recorded for this sampling period.	None	N/A	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
C-33-003	Soil contamination area	59	Chaquehui	CHQ-SMA-1		Sample not recorded for this sampling period.	None	N/A	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
C-33-003	Soil contamination area	59	Chaquehui	CHQ-SMA-2		Sample not recorded for this sampling period.	None	N/A	10/24/2005	Rain Event	Maintenance Scheduled		New Installation; Pending
C-36-001	Containment vessel	57.3	Water/Valle	PT-SMA-2		Sample not recorded for this sampling period.	Berm (Base Course)	1/1/2000					
C-36-003	Storm drainages	52	Pajarito	3M-SMA-3		Sample not recorded for this sampling period.	Berm (Earth) Straw Wattles	1/1/2000 1/1/2000					
C-41-004	Storm drains	52.8	LA/Pueblo	LA-SMA-5.3	2005	Sample not recorded for this sampling period.	Check Dam (Rock) Check Dam (Log)	11/22/2005	10/14/2005 11/21/2005	Rain Event Routine	Installed a large check dam(rock / log) 20' above sampler.	11/22/2005	New Installation; Preventative Maintenance.
C-43-001	Outfall	45.4	LA/Pueblo	LA-SMA-1.2	2005	Sample not recorded for this sampling period.	Berm (Base Course) Straw Wattles Gabions (Slope Stabilization) Check Dam (Rock) Check Dam (Log)	1/1/2000 7/26/2005 7/26/2005 7/26/2005 11/17/2005	10/11/2005 11/16/2005	Rain Event Routine	Installed two check dams (log) above sampler.	11/17/2005	New installation; Preventative Maintenance.
C-46-001	One-time spill	68.3	Mortandad	CDB-SMA-1		Sample not recorded for this sampling period.	Riprap (Outlet Protection)	1/1/2000	10/31/2005	Rain Event			