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2007 Interim Facility-Wide Groundwater Monitoring Plan

Los Alamos
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EXECUTIVE SUMMARY

This "Interim Facility-Wide Groundwater Monitoring Plan" fulfills a requirement of the March 1, 2005, Compliance Order on Consent (hereafter, the Consent Order). Los Alamos National Laboratory (the Laboratory) will collect and analyze groundwater and surface water samples at specific locations and for specific constituents in order to fulfill the requirements of the Consent Order. Groundwater-level data will also be collected because they are critical to understanding groundwater occurrence and movement. Four modes of water will be monitored: base flow (persistent surface water), alluvial groundwater, intermediate-perched groundwater, and regional aquifer groundwater.

The monitoring conducted under this plan is being used to enhance the general understanding of the groundwater within and beneath the Laboratory. These data are being used for characterization purposes to support corrective measures work being conducted at numerous sites around the Laboratory and to support ongoing operations. The monitoring is conducted both within and outside of current Laboratory boundaries. Monitoring within current Laboratory boundaries takes place in seven major watersheds: Los Alamos Canyon/Pueblo Canyon, Sandia Canyon, Mortandad Canyon, Pajarito Canyon, Water Canyon/Cañon de Valle, Ancho/Chaquehui/Frijoles Canyons, and White Rock Canyon. Monitoring outside the Laboratory boundaries is conducted (1) in areas that Laboratory operations have been conducted in the past (e.g., Guaje Canyon and Rendija Canyon), and (2) in areas that historically have not been affected by Laboratory operations. To ensure that water leaving the Laboratory does not pose an unacceptable risk to human and ecological receptors, this plan also includes monitoring in areas downgradient of the Laboratory and outside Laboratory boundaries (e.g., the Rio Grande and springs in White Rock Canyon).

Monitoring locations derive from Table XII-5 of the Consent Order and represent changes made in the 2006 and current version of the Interim Plan. The locations, analytical suites, and frequency of monitoring reflect each watershed's technical and regulatory status. Wells that do not have representative data due to the effects of residual drilling fluids are monitored for a limited suite of "indicator" constituents that allow for tracking of the geochemical conditions over time.

Monitoring data will be published in periodic reports submitted to the New Mexico Environment Department.

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Acronyms and Abbreviations

AK	acceptable knowledge
AOC	area of concern
bgs	below ground surface
CdV	Cañon de Valle
CMI	Corrective Measures Implementation
CMS	Corrective Measures Study
Consent Order	Compliance Order on Consent
DDT	dichlorodiphenyltrichloroethane
DO	dissolved oxygen
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
DP	Delta Prime
DQO	data-quality objective
DRO	diesel range organic
ECR	Environmental Characterization and Remediation Group
ENV	Environmental Stewardship Division
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration project
ERS	Environmental Remediation and Surveillance Program
ESP	Environmental Surveillance Program
FFCA	Federal Facility Corrective Action
FY05	fiscal year 2005
FY06	fiscal year 2006
FY07	fiscal year 2007
GRO	gasoline range organic
HE	high explosives
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (high-melting explosive)
HWP	Hydrogeologic Workplan
IDL	instrument detection limit
IDW	investigation-derived waste
IFGWMP	Interim Facility-Wide Groundwater Monitoring Plan
Interim Plan	Interim Facility-Wide Groundwater Monitoring Plan
Laboratory	Los Alamos National Laboratory
LANL	Los Alamos National Laboratory
LANSCE	Los Alamos Neutron-Science Center
LASO	Los Alamos Site Office
LCMS/MS	liquid chromatography-mass spectroscopy/mass spectroscopy

LIR	Laboratory Implementation Requirement
MCIR	Mortandad Canyon Investigation Report
MCL	maximum contaminant level
MDA	material disposal area
MDL	method detection limit
Model SOW	National Nuclear Security Administration Service Center Analytical Management Program's Model Statement of Work
Module VIII	Module VIII of the Laboratory's Hazardous Waste Facility Permit
NIST	National Institute of Standards and Technology
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NNSA	National Nuclear Security Administration
NOI	Notice of Intent to Discharge
NPDES	National Pollutant Discharge Elimination System
ORP	oxygen-reduction potential
OU	operable unit
PCB	polychlorinated biphenyl
PETN	pentaerythritol tetranitrate
PPE	personal protective equipment
PRS	potential release site
QA	quality assurance
QP	quality procedure
RCRA	Resource Conservation and Recovery Act
RDX	hexahydro-1,3,5,trinitro-1,3,5-triazine (research department explosive [cyclonite])
RFI	RCRA facility investigation
RLWTF	Radioactive Liquid Waste Treatment Facility
SC	specific conductance
SMCL	Secondary Maximum Contaminant Level
SOP	standard operating procedure
SOW	statement of work
SR	sampling round
SVOC	semivolatile organic compound
SWMU	solid waste management unit
SWRC	Solid Waste Regulatory Compliance
SWSC	Sanitary Wastewater Systems Consolidation
SWWS	Sanitary Wastewater Systems Plant
TA	technical area
TAL	total analyte list [EPA]

TDS	total dissolved solids
TKN	total Kjeldahl nitrogen
TNT	2,4,6 trinitrotoluene (dynamite)
TSS	total suspended solids
USGS	U.S. Geological Survey
USFS	U.S. Forest Service
VOC	volatile organic compound
WCSF	waste stream characterization form
WQCC	Water Quality Control Commission
WQH	Water Quality and Hydrology Group
WWTP	waste water treatment plant

1.0 INTRODUCTION

This is the second annual submittal of the Interim Facility-Wide Groundwater Monitoring Plan (Interim Plan; IFGMP) for Los Alamos National Laboratory (the Laboratory, or LANL). The Interim Plan fulfills the groundwater monitoring requirement IV.A.3.b of the March 1, 2005, Compliance Order on Consent (hereafter, the Consent Order). Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to the New Mexico Environment Department (NMED) in accordance with U.S. Department of Energy (DOE) policy.

Groundwater monitoring has been conducted at the Laboratory for over 50 yr starting with U.S. Geological Survey (USGS) water-supply studies in 1945 and Laboratory groundwater quality monitoring in 1949. The first groundwater-monitoring network consisted of water-supply wells, several observation wells, and springs. The monitoring network continued to evolve through the years as various environmental programs installed additional wells, primarily in the shallow alluvial systems, as potential monitoring points.

Between 1997 and 2005 the Laboratory implemented a sitewide hydrogeologic characterization program, described in the Laboratory's "Hydrogeologic Workplan" (HWP) (LANL 1998, 059599). The primary objective of this characterization was to sufficiently refine the understanding of the area's hydrogeologic systems and to improve the ability to design and implement an integrated sitewide groundwater monitoring plan.

1.1 Purpose

The Interim Plan will monitor to

- determine the presence and fate and transport of known legacy-waste contaminants,
- determine efficacies of remedies, and
- validate proposed corrective measures.

All of these objectives collectively assist the Laboratory in determining any potential adverse impacts to the regional aquifer that would affect the use of the aquifer as a drinking water source.

In addition, monitoring produces data that are required to evaluate risk and to assess regulatory compliance. Although the Interim Plan does not specifically address how the data that are collected will be used in those evaluations, the design of the monitoring network is based on conceptual models of potential sources, hydrogeologic pathways, and receptors. The data collected are intended to be useful in all reporting requirements under the Consent Order.

The primary changes in this version of the Interim Plan are updates to monitoring (e.g., monitoring frequency analyte suite) and based on conceptual models in investigation reports for Mortandad Canyon and Water Canyon watersheds. Additional updates include incorporation of the approved Notice of Intent to Discharge (NOI) for management of investigation-derived waste (IDW) (see Figure C-1 in Appendix C) and an update to procedures associated with sample collection.

1.2 Scope

This plan describes the objective for monitoring, the locations of sampling stations, the frequency of sampling, the measurements taken at each location, and the analyses included in the groundwater-monitoring plan. Four modes of water are monitored and are as follows:

- Base flow—persistent surface water that is maintained by precipitation, snowmelt, effluent, and other sources
- Alluvial groundwater—water within the alluvium in the bottom of the canyons
- Intermediate-perched groundwater—localized saturated zones within the vadose zone
- Regional groundwater—deep, laterally continuous groundwater beneath the Pajarito Plateau

Groundwater will be routinely monitored by collecting samples at wells and springs and by analyzing for specific constituents. Groundwater monitoring refers to gathering data not only for water-quality analysis but also to measure water-level. Water-level data are critical to understanding groundwater occurrence, movement, and groundwater's relationship with recharge and municipal pumping.

Surface water at the Laboratory is divided into three types, or matrices. Each of the three flow types might be collected at a single location within a time span of as little as a week, depending on weather conditions. At times, the flow might represent a combination of these components. The three types are as follows.

- Base flow—persistent, but not necessarily perennial, stream flow. This stream flow is present for periods of weeks or longer. The water source may be effluent, springs, or shallow groundwater in canyons.
- Snowmelt—flowing water that is present because of melting snow. This type of water often may be present for several weeks or more (persistent) but in some years may not be present at all.
- Storm runoff—flowing water that is present in response to rainfall. These flow events are generally short lived, with flows lasting from less than an hour to several days.

Storm runoff and snowmelt will be monitored by the Laboratory under the auspices of the 2005 Federal Facility Compliance Agreement (Administrative Order Docket No. CWA-06-2005-1701) (FFCA) entered into between Environmental Protection Agency (EPA) and DOE on February 3, 2005, and the Administrative Order (Docket No. CWA-06-2005-1734) entered into between EPA and the University of California on March 14, 2005, and will not be monitored as part of the Interim Plan. Base flow (persistent water) and in some cases persistent flow derived from snowmelt will be monitored under the Interim Plan.

Monitoring under the Interim Plan will take place in seven major watersheds or watershed groupings and White Rock Canyon. These are Los Alamos Canyon/Pueblo Canyon, Sandia Canyon, Mortandad Canyon, Pajarito Canyon, Water Canyon/Cañon de Valle, and the combined watersheds of Ancho/Chaquehui/Frijoles Canyons. Monitoring outside the boundaries occurs in areas that Laboratory operations have affected in the past (e.g., Guaje Canyon and Rendija Canyon) or that have not been affected by Laboratory operations to provide baseline data. To ensure that water leaving the Laboratory does not pose an unacceptable risk, this plan also includes monitoring in areas outside the Laboratory that may be impacted by the Laboratory (e.g., the Rio Grande and springs in White Rock Canyon). Figure 1.2-1 is a map of the areas included in this Interim Plan.

1.3 Reporting

The data collected under this Interim Plan are submitted to NMED in periodic monitoring reports (PMRs). The reports are submitted in accordance with Section IV.A.6 of the Consent Order. The data in reports submitted to NMED are posted to a database and then to an external website (http://wqdbworld.lanl.gov/) as data are delivered from the analytical laboratory. Data that are not validated before posting are marked as "provisional" until validation is completed.

Periodic monitoring reports present groundwater and base-flow data, including both characterization (the first three sampling events in a new well) and subsequent monitoring data. Beginning with approval of this Interim Plan revision, PMRs will include an appendix that deals with well rehabilitation data and information.

Also starting with approval of this Interim Plan, PMRs will be submitted on a quarterly basis. Each PMR will include all available watershed monitoring data (plus the previous three rounds of data) in a format consistent with the existing approved PMR format.

1.4 Regulatory Context

This Interim Plan fulfills groundwater monitoring requirements of the Consent Order as described in the introduction. In addition to the Consent Order, the Laboratory is required to perform groundwater monitoring to satisfy other regulatory requirements. These other requirements are summarized below, including references to documentation of monitoring results. This Interim Plan does not include the activities needed to satisfy these other requirements (unless these other requirements can be satisfied by monitoring performed under the Interim Plan). As described in Section 1.6, the Laboratory has an integrated approach to groundwater monitoring. Activities needed to satisfy these other requirements, therefore, may be conducted in conjunction with monitoring performed under the Interim Plan.

1.4.1 New Mexico Water Quality Control Commission Regulations

A 20.6.2. New Mexico Administrative Code (NMAC) Groundwater Discharge Permit currently exists at the Laboratory for the Technical Area (TA) 46 Sanitary Wastewater Systems (SWWS) Plant (plan number DP-857). An application has been submitted for a second permit for the TA-50 Radioactive Liquid Waste Treatment Facility (RLWTF). Groundwater monitoring is performed at wells located in Cañada del Buey and Mortandad Canyon under the NMED-approved plan (DP-857) and in support of the application (DP-1132), respectively. This monitoring began under DP-857 in 1992 and is expected to continue indefinitely with appropriate modification made as discharge conditions change over time (e.g., monitoring may be moved to Sandia Canyon since the TA-46 SWWS Plant has never discharged into Cañada del Buey). Quarterly reports of monitoring results are submitted to the NMED Groundwater Bureau for both the current (DP-857) and the pending (DP-1132) plans.

1.4.2 DOE Environmental Protection Programs

Groundwater monitoring has been conducted in compliance with DOE orders related to environmental protection. DOE Order 450.1 requires an environmental management system at DOE facilities to include surveillance groundwater monitoring and reporting. Surveillance monitoring has been performed at the Laboratory since the 1970s under previous orders, and results are documented in annual reports. Currently, the Laboratory conducts groundwater-surveillance monitoring from wells located within the Laboratory boundaries and at off-site locations. These wells include alluvial, intermediate-perched, and regional aquifer wells. Some of the off-site monitoring is performed under an agreement with Los Alamos

County, which owns and operates water-supply wells within and near the Laboratory. Additional monitoring is performed under cooperative agreements with the San Ildefonso Pueblo and the City of Santa Fe. Results of surveillance monitoring are reported in annual environmental surveillance reports and are included in the calculation of radionuclide dose exposures found in those reports. These reports contain descriptions of the surveillance monitoring network, key results and trends, and quality assurance.

1.4.3 Hazardous Waste Facility Permit

Several of the waste management units at the Laboratory are regulated units under the Resource Conservation and Recovery Act (RCRA) and are subject to groundwater monitoring requirements under 40 CFR 264 Subpart F, as administered through the Laboratory's Hazardous Waste Facility Permit. Under Section IV.A.1 of the Consent Order. These requirements will be met through implementation of the groundwater-monitoring requirements of the Consent Order, including implementation of the Interim Plan.

Formerly, groundwater monitoring and sampling requirements were contained in Module VIII of the Laboratory's Hazardous Waste Facility Permit (Module VIII), which EPA issued and revised in 1994. Section C.1 of Module VIII required the Laboratory to install a total of 14 alluvial wells in Pueblo, Los Alamos, Sandia, Mortandad, Potrillo, Fence, and Water Canyons to determine the extent of downgradient saturation and contamination. In addition, Section C.2 of Module VIII required the Laboratory to continue the groundwater monitoring being conducted by the Environmental Surveillance Program (ESP) to demonstrate protection of the regional aquifer. The investigation requirements of Module VIII required the Laboratory to conduct a program to characterize the hydrogeologic conditions at the Laboratory (Task III.A.1) and to conduct a groundwater investigation to characterize any plumes of contamination (Task III.C.1). In response to these investigation requirements, the Laboratory developed the HWP, which was approved by NMED. Under the HWP, the Laboratory installed regional wells and conducted four rounds of sampling following construction of new wells. Results of this sampling were reported in separate geochemistry reports for each well, in quarterly data reports submitted to NMED as formerly required by Module VIII, and in the "Synthesis of Hydrogeologic Workplan Activities (1998–2004)" (Collins et al. 2005, 092028).

Groundwater sampling was also conducted as part of NMED-approved investigation work plans prepared under Module VIII. Alluvial groundwater sampling was conducted under the NMED-approved work plan addendum for the investigation of Los Alamos Canyon and Pueblo Canyon (LANL 2002, 070235). Sampling results were included in the "Los Alamos and Pueblo Canyons Investigation Report" submitted to NMED in April 2004. In addition, groundwater sampling has been conducted as part of the NMED-approved investigation of Solid Waste Management Unit (SWMU) 16-021(c) (the 260 Outfall), with results reported in the investigation reports for that SMWU (LANL 1998, 059891; LANL 2003, 077965). The groundwater monitoring requirements of Module VIII have now been superseded and replaced by the requirements of the Consent Order.

1.5 Approach to Monitoring Network Design

In addition to Consent Order requirements, the Interim Plan used EPA guidance provided in "Guidance for Monitoring at Hazardous Waste Sites: Framework for Monitoring Plan Development and Implementation" (EPA 2004, 088486). This guidance outlines a six-step process that covers planning, implementation, and completion of monitoring activities. However, the guidance is for monitoring at sites where remedial action is occurring or has been implemented and is therefore somewhat premature for the status of the corrective action program at the Laboratory. The Interim Plan generally follows the first four steps that cover development and design. The first three steps involve defining the objective, plan hypothesis, and decision rules for the monitoring. The fourth step focuses on designing the monitoring network. The Consent Order calls for the monitoring network to be developed from those locations presented in Table XII.5. Monitoring frequency and determination of analytical suites are presented below.

The interim nature of this work plan reflects an evolving monitoring network. The network is currently undergoing area-specific evaluations pursuant to requirements included in an April 5, 2007, letter from NMED that directs the evaluations (NMED 2007, 095999). Each annual update will provide for addition of new wells as they are constructed; removal of old wells as they are abandoned; and optimization of monitoring locations, frequencies, and analytes based on results of the prior year and on ongoing network evaluations.

General descriptions of the watershed are presented for each watershed in Appendix A. These descriptions present the current state of knowledge for each watershed and are the foundation for the monitoring strategy.

As shown in Figure 1.5-1, watershed monitoring on the Pajarito Plateau has been grouped into four categories.

- Interim monitoring in watersheds that have not undergone investigation activities under the Canyons investigation process described in Section IV.B of the Consent Order. Monitoring objectives are to collect data to identify and track contaminants and to form a preliminary conceptual model for the watershed.
- Watersheds that are currently being investigated under the Canyons investigation process. Monitoring objectives are to determine the extent of contamination and develop a detailed conceptual model of the watershed.
- Watersheds for which the Canyons investigations process has been completed and which are undergoing post-investigation interim monitoring. Monitoring objectives include tracking contaminant fate and transport and refining the conceptual model of the watershed in support of pending corrective measures evaluation decision points.
- Long-term monitoring to evaluate performance of corrective measures and evaluating long-term trends of contaminants and their movement in groundwater. Currently, no watersheds are in long-term monitoring.

Recommendations for the analytical suites for each watershed and locations within the watershed were determined by evaluating past Laboratory operations, investigation-derived information, and monitoring results. For this version of the Interim Plan, screening was conducted only on data from the Los Alamos and Pueblo Canyons and on data from Mortandad Canyon and Water Canyon watersheds because the level of understanding of processes within those watersheds supports updates to the monitoring requirements. Other watersheds do not have changes in the monitoring from the previous Interim Plan because they are in a characterization phase. Minor changes to the monitoring are included for all watersheds. For example, wells that have completed the four quarters of monitoring conducted after installation will default to the suite and frequency for other wells for the same hydrologic zone. For this version of the Interim Plan, data from 2004 to the present were screened for comparison to half the lowest applicable standard (see Table 1.7-1). The 2004 through present period of record builds on the screening of 2000 through 2005 record that was conducted for the previous version of the Interim Plan. The analytical data screening results are included on a CD and in Appendix B. Bar plot figures included in Appendix B are also used to illustrate the screening results.

The majority of monitoring wells contained in the Interim Plan are equipped with pressure transducers to aid in understanding the hydrologic system. Pressure transducers are typically set to record on an hourly basis.

1.6 Integration of Groundwater Monitoring at the Laboratory

All groundwater monitoring is conducted as an integrated activity that uses the same operating procedures, analytical contracts, and data-management systems. All LANL groundwater data are available for public viewing on the web (http://wqdbworld.lanl.gov/).

The Interim Plan will be updated annually to incorporate new information collected within a watershed. Locations, analytes, and sampling frequencies will be evaluated and updated appropriately to ensure adequate monitoring. Information gained through characterization efforts, aquifer test results, network assessments, and water-quality data will be used to refine the monitoring for each watershed as appropriate.

1.7 Data-Review Process

This section describes the process for screening the monitoring data. The purpose of the screening is to determine the distribution of constituents that guide the choice of monitored analytes and monitoring frequency in each of the watersheds that were updated in this Interim Plan.

1.7.1 Data Review, Analytical Methods, and Field Methods

The results of the screening for the Mortandad Canyon and Water Canyon watersheds and for organic compounds in Los Alamos and Pueblo (LA/P) Canyon watershed are used to update the monitoring for each of the three watersheds. Only organic compounds are screened for the LA/P watershed since the only changes to monitoring in that watershed are for those compounds. Results of the data-review process and statistical summaries are presented in Appendix B. The analytical methods used for each analyte are listed in Appendix C, Table C-1. Appendix C also includes the quality procedures followed for measuring water levels and collecting water samples (Tables C-2 and C-3) as well as investigation derived waste management procedures.

The data-review process consists of compiling the water-quality data set, determining detect status, screening the data against applicable standards, and producing summary statistics to identify constituents of potential concern in each watershed. Water-quality data summary statistics and bar plots for each water type and constituent group (metals, general inorganics, and organics) are included in Appendix B for the Mortandad Canyon and Water Canyon watersheds and organics only for Los Alamos Canyon.

Table 1.7-1 contains the regulatory standards for the various water sample types by screening category. The numerical standards for each constituent are presented in Table B-1, Appendix B. Data results were screened against the lowest applicable regulatory standard or risk-based value. The standards apply to data depending on the type of field preparation applied during collection (filtered or unfiltered) and the mode of the water, groundwater, or persistent surface water. For example, the standard for mercury in surface water applies to total mercury. Each combination of water mode/field preparation is referred to as a screening category. The standards for filtered samples are those applicable to the dissolved contaminant fraction, and standards for unfiltered samples are those applicable to the total contaminant. The terms “nonfiltered” and “unfiltered” may be used interchangeably in this document.

Quality control samples including laboratory blanks, spikes, and replicates were removed for screening purposes. The detection status for an analytical result was established using the combined set of validation qualifiers and reason codes assigned during data validation and the qualifier from the analytical laboratory.

A screen against regulatory standards was performed separately on each screening category from the combined set of samples for each of the three watersheds screened in this report. The term "standard" refers to the minimum applicable standard. Summary information is provided in each table with a summary of samples including the total number of samples for the analyte, the numbers and rates (percent) of detects and nondetects, the count of detection limits greater than the standard, the minimum, maximum, and median (50^{th} percentile) detected concentration, the count of detected concentrations greater than the standard, the count and rate (percent) of detected concentrations greater than ½ the standard. The standard is listed by name (abbreviation) and level. The tables also summarize the results by location, including the count of locations with available data (all locations with data are screened), the count of locations with a detected concentration greater than the standard, the count of locations with a detected concentration greater than ½ the standard, and a list of the locations with a detected concentration greater than the standard. The screening tables for each water mode for each watershed are included on a CD in Appendix B. Pages in the file are labeled filtered metals, nonfiltered metals, filtered, filtered general inorganics, nonfiltered general inorganics, and nonfiltered organics. A description of the applicable standards used in the screen and abbreviations is included in footnotes to each table.

For chemical analysis of water samples, the Laboratory uses commonly accepted analytical methods that are called for under federal regulations (such as the Clean Water Act) and that are approved by EPA (Appendix C). Analytical methods and method detection limits are provided in Appendix C, Table C.4. The Laboratory is responsible for acquiring analytical services that support monitoring activities. The analytical laboratory statement of work (SOW) follows the National Nuclear Security Administration Service Center's Analytical Management Program's Model Statement of Work (Model SOW) for analytical services. The SOW provides contract laboratories the general quality assurance guidelines specified in the Model SOW and also includes specific requirements and guidelines for analyzing surface water, groundwater, and sediment samples.

Field methods follow the procedures listed in Appendix C, Tables C-2 and C-3. All of the procedures are available on the Laboratory's website (http://erproject.lanl.gov/documents/procedures/qps.html). Field procedures follow guidelines from USGS water sample collection methods and industrial standards common to environmental sample collection and field measurements.

1.8 Sampling Frequency and Schedule

The Interim Plan proposes monitoring frequencies for each watershed as described in the summary tables for each watershed. A sampling schedule for each watershed will be established to ensure fulfillment of the monitoring frequency during the implementation year of this Interim Plan.

Sampling in each watershed will occur within a 21-day time frame, and groundwater levels will be measured using automated pressure transducers installed in each sampled well.

1.9 Indicator Monitoring

Some perched intermediate-perched and regional groundwater monitoring wells in the monitoring network have screened intervals within aquifer zones that are affected by residual drilling fluids used during initial drilling operations. These wells have varying utility in the monitoring network and are currently being assessed as part of area-specific (e.g., TA-54, Mortandad Canyon) well network evaluations pursuant to requirements in NMED's letter dated April 5, 2007 (NMED 2007, 095999). Pending final resolution of those evaluations, specific analyte suites will be implemented to enable a time-series evaluation of the geochemical performance of each of the affected screened intervals. These suites consist of indicator constituents (e.g., iron, manganese, sulfate, sulfide, sodium, barium, organic carbon, nitrate, zinc, alkalinity, and uranium) that provide a basis for tracking trends in performance. This indicator suite is presented and described in Tables 2.3-1 through 8.3-1. The results of the indicator suite monitoring will be presented in future periodic monitoring reports in a section specific to those data and the evaluation of data trends in the subject wells.

1.10 Water-Level Monitoring

To address the requirement of Section IX.B.2.h.i of the Consent Order to measure groundwater levels in all wells in a given watershed within 24 hours, automated pressure transducers are installed in all sampled wells. These data are available for any 24-h period and, therefore, meet the requirement for these measurements to be completed across all watersheds within 14 days of the commencement of the specified water-level measuring event as required by the Consent Order. The Laboratory's standard operating procedures (SOPs) for use of transducers requires field verification of the transducer data with periodic manual measurements (see Appendix C for details). The field verification will be conducted in accordance with these SOPs.

2.0 LOS ALAMOS WATERSHED

2.1 Introduction

The Los Alamos Canyon/Pueblo Canyon watersheds are located at the northern end of the Laboratory (Figure 1.2-1). The watershed heads on U.S. Forest Service (USFS) land in the Sierra de los Valles to the west and northwest of the Laboratory. The highest point in the watershed is at the summit of Pajarito Mountain at an elevation of 3182 m (10,441 ft). The watershed extends eastward from the headwaters across the Pajarito Plateau for about 30.4 km (18.9 mi) to its confluence with the Rio Grande at an elevation of 1678 m (5504 ft).

2.2 Background

The Los Alamos Canyon/Pueblo Canyon watershed encompasses approximately 57 mi^2. It includes Los Alamos, Pueblo, Delta Prime (DP), and Acid Canyons. Bayo, Guaje, Rendija, and Barrancas Canyons (collectively known as the North Canyons) are smaller tributary canyons in the watershed. The watershed contains numerous springs, perennial and ephemeral stream segments, and alluvial groundwater. Portions of Los Alamos townsite, Los Alamos County, Santa Fe County, and San Ildefonso Pueblo tribal lands are located within the Los Alamos Canyon/Pueblo Canyon watershed. Laboratory operations have been associated with the release of treated and untreated effluent into the watershed since the establishment of the Laboratory in the 1940s up to the present. Runoff from SWMUs and areas of concern (AOCs) at former and current TA-00, -01, -02, -03, -19, -21, -31, -41, -43, -53, -72, and -73 have contributed to contaminant releases within the watershed. Metals, perchlorate, nitrates, hydrocarbons, and radionuclides have been detected in groundwater within the watershed. DP Canyon joins Los Alamos Canyon east of TA-21. TA-02, -41, and -43 are located within Los Alamos Canyon south of the Los Alamos townsite. TA-21, -73, and former TA-01 are located on the mesa north of Los Alamos Canyon. TA-62, -61, -53, and -72 are located south of Los Alamos Canyon.

Pueblo Canyon is located on the north side of the Los Alamos townsite and extends from the Jemez Mountains to its confluence with Los Alamos Canyon, approximately 4.5 mi east of the Los Alamos townsite at the intersection of State Highways 502 and 4. TA-72 and -73 and former TA-01 and -45 are located from west to east along the mesa south of Pueblo Canyon. Acid Canyon joins Pueblo Canyon from the south opposite former TA-45. Documented discharges and releases into the watershed were primarily in the form of contaminated wastewater generated during research and manufacturing operations on the surrounding mesas in the vicinity of the Los Alamos townsite. In addition, discharges and releases of contaminants were documented in Los Alamos Canyon resulting from operations conducted at TA-02 and -41. Releases also originate from debris generated during TA-01 demolition activities and deposited on hillsides located above Los Alamos Canyon, opposite the townsite. Laboratory operations that have affected Pueblo Canyon include the release of contaminants to Pueblo Canyon through Acid Canyon from former TA-01 and -45. Activities at TA-02, -21, -41, -53, and former TA-01 released contaminants into Los Alamos Canyon and its tributary side canyons (DP Canyon and the undesignated canyon located east of TA-53). Past Laboratory operations released both hazardous constituents and radionuclides.

Bayo, Guaje, Rendija, and Barrancas Canyons are located north of Laboratory land. The only active TA in the canyons is TA-74, a portion of which is located in Bayo and Barrancas Canyons. The approximately 18 SWMUs and AOCs in these drainages are primarily related to mortar impact areas, firing ranges, and releases of treated effluent. Surface-water flow in upper Guaje Canyon is perennial and extends for about 3 mi. In 1996, two shallow test holes were drilled approximately 3 mi east of the perennial flow between the Los Alamos and Guaje faults. Each borehole penetrated saturation from near ground surface to total depth (23 ft and 103 ft below ground surface [bgs], respectively). Regional aquifer water-supply wells in Guaje Canyon were first installed in the early 1950s. In recent years, additional replacement wells were drilled. The depths to water at these wells vary depending on their location. Depth to water in the lower portion of the canyon tends to be shallow (100–200 ft bgs), while water levels in the upper portion near the Rendija Canyon confluence have water-table depths ranging from 400 to 500 ft bgs. Surface water flow in Rendija and Barrancas Canyons is ephemeral and normally flows only during the summer monsoon season. Contaminant sources are primarily associated with upper Rendija Canyon. The results of surface-water sampling conducted in these canyons have periodically detected metals, organics, and radionuclides.

The primary Laboratory activities in these canyons have involved water supply: the Guaje reservoir is no longer operable, and the Guaje well field (now operated by Los Alamos County) currently includes five water-supply wells. The wells in this field also extend to lower Rendija Canyon. Rendija Canyon contained a small-arms firing range and several sites used as mortar impact areas. Past Laboratory activities are described in more detail in the “RFI Work Plan for the North Canyons” (LANL 2001, 071060) and the “RFI Work Plan for OU 1071” (LANL 1992, 007667). TA-10 was used as a firing site from 1943 to 1961 for tests with explosive compounds and radioactive materials. The site included a radiochemistry laboratory. While in operation, the TA-10 sites in Bayo Canyon were investigated for environmental impacts. The site was decontaminated and decommissioned in 1960. TA-10 was the site of an extensive Formerly Utilized Sites Remedial Action Program investigation in 1976 (Mayfield et al. 1979, 011717). In the mid-1990s, the site was studied under the “RFI Work Plan for Operable Unit 1079” (LANL 1992, 007668). RCRA facility investigation (RFI) activities included shrapnel removal and investigation, remediation, or deferred action for several potential release sites (PRSs). A second RFI work plan was written in 2001 (LANL 2001, 071060). Only one sampling location, base flow at Guaje Canyon, will be sampled under the Interim Plan. No groundwater or spring locations will be sampled in Guaje, Rendija, or Barrancas Canyon under the Interim Plan.

NMED approved a work plan for the investigation of Los Alamos Canyon and Pueblo Canyon in 1997. An addendum to the Los Alamos Canyon and Pueblo Canyon investigation work plan was submitted to and approved by NMED in 2002. In accordance with the NMED-approved investigation work plan and addendum, the Laboratory has conducted investigations of contamination in Los Alamos Canyon and Pueblo Canyon. In 2002, the Laboratory conducted an Interim Action in the South Fork of Acid Canyon (a tributary of Pueblo Canyon) in accordance with an Interim Action Plan approved by NMED in 2002.

Table A-1 in Appendix A summarizes the conceptual model for the Los Alamos Canyon/Pueblo Canyon watershed.

2.3 Monitoring Objectives

The monitoring for Los Alamos Canyon presented in this Interim Plan is based in part on results and conclusions presented in the “Los Alamos and Pueblo Canyons Investigation Report” (LANL 2004, 087390). The investigation report only addressed surface water and alluvial groundwater; thus, the information in the report mainly supports recommendations for those zones. Changes to the monitoring frequency are based on updated frequency-of-detection information presented in Appendix B of this report.

Frequency-of-detection tables for organic compounds (including pesticides, polychlorinated biphenyls [PCBs], volatile organic compounds [VOCs], and dioxins) are shown in Appendix B. The data indicate either no detections or very infrequent detection during the last 2 yr of monitoring, possibly related to infrequent, but normal, errors that occur in laboratory analysis. Based on these results, an annual monitoring frequency for organic compounds will be conducted for most locations in all water types. Exceptions are for locations where organic compounds data remain important for on-ongoing evaluations of trends.

Recently installed intermediate-perched and regional wells have undergone the initial quarterly characterization sampling and will now be monitored in a manner consistent with other wells. Other aspects of the monitoring in the LA/P watershed have not been changed from the 2006 Interim Plan.

2.4 Scope of Activities

2.4.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for base-flow monitoring are presented in Table 2.3-1. Locations are shown in Figure 2.3-1.

Base flow in upper Los Alamos Canyon will be sampled at six existing gaged sites: four in Los Alamos Canyon (E026, E030, E042, and E050) and two in DP Canyon (E038 and E039).

Base flow in Pueblo Canyon will be sampled at four locations. Pueblo above Acid (E055) monitors base flow above the Acid Canyon confluence and can be used for assessing the impacts of townsite runoff into Pueblo Canyon. Gage station E056 located in Acid Canyon above the confluence with Pueblo Canyon monitors water quality at the mouth of Acid Canyon. “Pueblo 3” is located below the Bayo wastewater treatment plant, and results from this location will allow assessment of downcanyon trends of contaminants originating in Acid Canyon. “Pueblo above State Highway 502” serves as a “boundary” monitoring station.

Base-flow sampling station E110 in lower Los Alamos Canyon will be used to measure water quality above the confluence of Los Alamos Canyon with the Rio Grande.

2.4.2 Alluvial Groundwater

Sampling locations, frequency, analytes, and the rationale for alluvial groundwater monitoring are presented in Table 2.3-1. Locations are shown in Figure 2.3-1. The screening tables for Los Alamos and Pueblo Canyons are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Eleven alluvial wells—LAO-B, LAO-0.3, LAO-0.6, LAO-1, LAO-1.6g, LAO-1.8, LAUZ-1, LAO-2, LAO-3a, LAO-4.5c, and LAO-5 (or LAO-6 or -6a dependent on saturation)—will be monitored in upper Los Alamos Canyon. In Pueblo Canyon, five alluvial wells will be monitored: PAO-1, PAO-2, PAO-3, PAO-4, and APCO-1.

2.4.3 Intermediate-Perched Groundwater

Sampling locations, frequency, analytes, and the rationale for intermediate-perched groundwater monitoring are described in this section and presented in Table 2.3-1. Locations are shown in Figure 2.3-1. The screening tables for Los Alamos and Pueblo Canyons are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Wells in upper Los Alamos Canyon, R-7, LAOI(a)-1.1, LAOI-3.2, LAOI-3.2a, LAOI-7, R-6i, and R-9i, are screened in intermediate-perched groundwater and will be sampled under the Interim Plan. In Pueblo Canyon, there are five wells screened in intermediate-perched groundwater: R-5, TW-2A, POI-4, R-3i, and TW-1A.

2.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for regional aquifer groundwater monitoring are presented in Table 2.3-1. Locations are shown in Figure 2.3-1. The screening tables for Los Alamos and Pueblo Canyons are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Four wells, R-6, R-7, R-8, and R-9, are screened in the regional aquifer in upper Los Alamos Canyon and are included in the Interim Plan. Three wells, R-2, R-4, and R-5, are screened in the regional aquifer in Pueblo Canyon and are included in the Interim Plan. Regional aquifer sampling in lower Los Alamos Canyon will be accomplished by sampling springs that discharge from the regional groundwater, described in Section 8, White Rock Canyon.

2.4.5 Springs

Sampling locations, frequency, analytes, and the rationale for spring monitoring are presented in Table 2.3-1. Locations are shown in Figure 2.3-1. The screening tables for Los Alamos and Pueblo Canyons are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

DP Spring Basalt Spring, Los Alamos Spring, and GU-0-0.01 Spring will be monitored as part of the Interim Plan.

3.0 SANDIA WATERSHED

3.1 Introduction

Sandia Canyon is located within the central part of the Laboratory (Figure 1.2-1) The canyon heads on Laboratory property within TA-03 at an elevation of approximately 7300 ft and trends east-southeast across the Laboratory, Bandelier National Monument, and San Ildefonso Pueblo. Sandia Canyon empties into the Rio Grande in White Rock Canyon at an elevation of 5450 ft.

3.2 Background

The area of Sandia Canyon watershed is approximately 5.5 mi^2. The head of the canyon is located on the Pajarito Plateau at TA-03. Perennial stream flow and saturated alluvial aquifer conditions occur in the upper and middle portions of the canyon system because sanitary wastewater and cooling tower effluent discharge to the canyon from operating facilities. A wetland of approximately 7 acres has developed as a result of the wastewater and cooling tower effluent discharge. The only known perennial spring in the watershed (Sandia Spring) is located in lower Sandia Canyon near the Rio Grande. TAs located in the Sandia Canyon watershed include TA-03, -20, -53, -60, -61, and -72. Approximately 264 SWMUs and AOCs are within these TAs. Table A-2 (Appendix A) summarizes information for the Sandia Canyon Watershed.

A current conceptual model is presented in the “Interim Measures Investigation Report for Chromium Contamination in Groundwater” (LANL 2006, 094431). This report presents the results of an investigation conducted in summer and fall of 2006 that included a surface water-balance study, core-hole drilling to characterize the vadose zone, and installation of five alluvial wells and one intermediate-perched groundwater monitoring well.

3.3 Monitoring Objectives

The objectives of the current monitoring for Sandia Canyon are to determine the nature and extent of contamination in the watershed and to refine the conceptual model for fate and transport of contaminants that were historically released into Sandia Canyon.

The monitoring objectives are predominantly guided at this stage by the requirements of the “Addendum to the Work Plan for Sandia Canyon and Cañada del Buey” (LANL 2007, 095454). The objectives include characterization of the nature and extent of all potential contaminants released into the watershed including chromium and related contaminants. Special considerations include the spatial distribution of different chromium species and an evaluation of potential isotopic fractionation along the groundwater flow path. The monitoring table does not include a specific detail on the chromium isotope analyses since those are considered a test case until initial data are reviewed to verify the applicability of the methodology to the conditions present at this site.

3.4 Scope of Activities

The monitoring for surface water and all groundwater is shown in Table 3.3-1. The monitoring locations, frequency, and suite reflect the ongoing characterization phase as required by the “Addendum to the Work Plan for Sandia Canyon and Cañada del Buey” submitted to NMED on March 6, 2007 (LANL 2007, 095454).

3.4.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for base-flow monitoring are presented in Table 3.3-1. Locations are shown in Figure 3.3-1.

Base-flow sampling stations include the South Fork of Sandia Canyon at gage station E122, Sandia Canyon below the wetland at gage station E123, and a location approximately 2 mi downcanyon at the terminus of persistent base flow (near the new location of gage station E124).

The sampling locations at gage E122 and E123 bound the wetland and should provide information on potential changes in contamination attributable to conditions in the wetland. The next downcanyon monitoring point will provide additional information on potential changes in contaminants along the flow path and also assesses potential contributions from TA-60 and TA-61.

3.4.2 Alluvial Groundwater

Sampling locations, frequency, analytes, and the rationale for alluvial groundwater monitoring are presented in Table 3.3-1. Locations are shown in Figure 3.3-1.

Alluvial monitoring well locations include SCA-1, SCA-2, SCA-3, SCA-4, and SCA-5. These were installed as part of the "Interim Measures Work Plan for Chromium Contamination in Groundwater" (LANL 2006, 091987). Alluvial monitoring wells SCO-1 and SCO-2 are located in the lower portion of Sandia Canyon on Laboratory property and have not historically produced groundwater in sufficient quantities for sampling. However, SCO-1 and SCO-2 will continue to be monitored for the presence of groundwater, and if water is present, samples will be collected for analysis.

3.4.3 Intermediate-Perched Groundwater

Sampling locations, frequency, analytes, and the rationale for intermediate-perched groundwater monitoring are presented in Table 3.3-1. Locations are shown in Figure 3.3-1.

A new intermediate-perched groundwater monitoring well (SCI-1) was installed as part of the "Interim Measures Work Plan for Chromium Contamination in Groundwater" (LANL 2006, 091987). Well R-12, Screens 1 and 2 are intermediate-perched groundwater screens. As of the date of this submittal, R-12, Screens 1 and 2, are not equipped with a sampling system. However, the Laboratory's plan is to install a two-screen sampling system, at which time the well will be incorporated into the monitoring conducted under this Interim Plan.

3.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for monitoring the regional aquifer groundwater are presented in Table 3.3-1. Locations are shown in Figure 3.3-1.

Regional wells R-11, R10, and R-10a, and R-12, Screen 3 are screened in the regional aquifer beneath Sandia Canyon. All of these wells, except R-12, Screen 3, are being monitored as described in Table 3.3-1. Well R-12, Screen 3 is currently not being monitored because of issues associated with residual drilling fluids and other factors related to well rehabilitation efforts as described in the "Pilot Well Rehabilitation Study Summary Report," submitted to NMED on March 16, 2007 (LANL 2007, 095889).

3.4.5 Springs

Sandia Spring, the only spring located in the Sandia Canyon watershed, is monitored as part of the group of springs in White Rock Canyon described in Section 8 of this plan.

4.0 MORTANDAD WATERSHED

4.1 Introduction

Mortandad Canyon is an east-to-southeast trending canyon that heads on the Pajarito Plateau near the main Laboratory complex at TA-03 at an elevation of 7380 ft (Figure 1.2-1). The drainage extends about 9.6 mi from its headwaters to its confluence with the Rio Grande at an elevation of 5440 ft. The canyon crosses San Ildefonso Pueblo land for several miles before joining the Rio Grande (LANL 1997, 056835). Figure 4.3-1 shows the location of the Mortandad Canyon watershed and its tributary canyons.

4.2 Background

The Mortandad Canyon watershed is located in the central portion of the Laboratory and covers approximately 10 mi^2. San Ildefonso Pueblo is directly adjacent to a portion of the Laboratory's eastern boundary and includes the eastern end of Mortandad Canyon. The Mortandad Canyon watershed contains several tributary canyons that have received contaminants released during Laboratory operations. The most prominent tributary canyons include Ten Site Canyon, Pratt Canyon, Effluent Canyon, and Cañada del Buey.

Current and former TAs located in the Mortandad Canyon watershed include TA-03, -04, -05, -18, -35, -42, -46, -48, -50, -51, -52, -54, -55, and -59. The primary sources of contamination in this watershed are attributed to past releases of contaminants from outfalls and spills at TA-35 and TA-50, including the RLWTF at TA-50. Metals and VOCs have historically been released into the canyon. Nitrates, perchlorate, molybdenum, and radionuclides, which are not addressed under the Consent Order, are some of the contaminants that have been detected in Mortandad Canyon alluvial groundwater. Perchlorate and nitrate contamination is present in the vadose zone beneath the portion of Mortandad Canyon below the confluence of Ten Site Canyon. Nitrate, perchlorate, chromium, and tritium are detected in intermediate-perched groundwater and also occur in the regional groundwater.

Table A-3 in Appendix A summarizes the conceptual model for the Mortandad Canyon watershed. Surface water and alluvial groundwater in Mortandad Canyon are derived from three sources: the RLWTF outfall at TA-50, other outfalls, and runoff from precipitation. Persistent surface water generally occurs from the TA-50 outfall downcanyon to a location above the sediment traps (LANL 2006, 094161). Alluvial groundwater storage is limited in the upper reaches but increases downcanyon in wider and thicker alluvial deposits. Lesser sources in upper Effluent Canyon create localized areas of surface water and likely minor alluvial groundwater. The extent of alluvial saturation in Mortandad is dependent on variations in the runoff sources and thus varies interannually. The underlying vadose zone and saturated zones have the same mobile constituents, indicating a hydrologic connection with the alluvial groundwater.

Improvement in effluent quality from the RLWTF has had a direct effect on surface water and alluvial groundwater quality (e.g., 2004 Environmental Surveillance report). For example, nitrate and perchlorate (the primary contaminants in the surface water and alluvial groundwater show rapid and steady overall decline in concentration at the monitoring locations in the upper canyon where the aquifer volume is small, indicating rapid flushing of the alluvium. Farther downcanyon changes in the contaminant concentrations in the alluvial groundwater are also declining but at a slower rate due to the larger volume of the aquifer in that portion of the canyon.

Changes in the intermediate-perched groundwater over time are less well known because monitoring has not been conducted for a sufficiently long period to evaluate trends.

4.3 Monitoring Objectives

The monitoring for Mortandad Canyon reflects the current understanding on the nature and extent and conceptual model for contamination in and beneath the watershed as described in the Mortandad Canyon Investigation Report (MCIR) (LANL 2006, 094161). The conceptual model indicates that contaminants in the surface water and alluvial groundwater have shown marked decrease in concentration due to improvements in the treatment processes at the TA-50 RLWTF (see Figures 7.2-17, 7.2-18, and 7.2-25 in the MCIR). Box plots showing the spatial distribution of variations in contaminant concentrations, and time-series plots illustrating the trends in contaminant concentrations are both included in Appendix D of this work plan. The steadily decreasing trend of the contaminant concentrations in the surface water and alluvial groundwater supports a semiannual monitoring frequency to obtain data sufficient to verify the predicted decreasing trend. The box plots show support an evaluation of redundancy in monitoring locations as described below in Sections 4.4.1 and 4.4.2.

The vadose-zone data from characterization core holes and monitoring-well drilling in Mortandad Canyon (presented in the MCIR), indicate that migration of contaminants into the vadose zone beneath the alluvium is limited primarily to mobile constituents such as nitrate, perchlorate, tritium, chromium, and possibly a few organic compounds. This is also supported by the groundwater-data screening results and frequency-of-detection tables for the intermediate-perched and regional groundwater shown in Appendix B of the MCIR. The constituents known to be predominantly located in the vadose zone and in the intermediate-perched and regional groundwater such as perchlorate, nitrate, chromium, and potentially the volatile organic compound 1,4-dioxane should be monitored quarterly into the future to support the assessment and refinement of the conceptual model for vadose-zone migration. The monitoring recommendations for the intermediate-perched and regional groundwater reflect this approach. Additional reductions in monitoring frequency are based on the absence of detection, or very-low sporadic detection rates, for other contaminant types such as high explosives, semivolatile organic compounds (SVOCs), pesticides, and dioxins/furans as shown in the frequency-of-detection tables in Appendix B. These consitituents will be monitored on an annual basis.

4.4 Scope of Activities

4.4.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for base-flow monitoring are presented in Table 4.3-1. Locations are shown in Figure 4.3-1. The screening tables for Mortandad Canyon are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Base flow will be sampled at the following locations in the Mortandad watershed: reaches E-1FW, in Effluent Canyon; TS-1W and TS-2E in Ten Site Canyon; and M-1W, M-1E, and two locations in reach M-2E in Mortandad Canyon including at gage station E200. This group of locations provides good coverage in the watershed for bounding potential SWMU or AOC contaminant sources.

This list of surface water locations represents a reduction in locations based on the information presented in the box plots in Appendix D. The box plots show that spatial variability is such that the overall downcanyon trend can be represented with fewer locations that were sampled under the 2006 Interim Plan. The specific locations that were eliminated include E-1W SW and E-1E SW.

4.4.2 Alluvial Groundwater

Sampling locations, frequency, analytes, and the rationale for alluvial groundwater monitoring are presented in Table 4.3-1. Locations are shown in Figure 4.3-1. The screening tables for Mortandad Canyon are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Alluvial groundwater locations selected for monitoring include the following wells: MCO-0.6, MCA-1, MCO-2, MCA-5, MCO-4B, MCO-5, MCO-6, MCO-7, MCO-7.5, and MT-2 in Mortandad Canyon, TSCA-6 and TSWB-6 in Ten Site Canyon, and wells CDBO-1 through -9 in Cañada del Buey.

This list of wells represents a reduction in the number of monitoring locations from the 2006 Interim Plan. The box plots show that spatial variability is such that the overall downcanyon trend can be represented with fewer locations that were sampled under the 2006 Interim Plan. The specific locations that were eliminated include MCA-2, MT-1, MT-3, and MT-4.

4.4.3 Intermediate-Perched Groundwater

Sampling locations, frequency, analytes, and the rationale for intermediate-perched groundwater monitoring are presented in Table 4.3-1. Locations are shown in Figure 4.3-1. The screening tables for Mortandad Canyon are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Intermediate-perched groundwater will be sampled from wells MCOBT-4.4, MCOI-4, MCOI-5, MCOI-6. Sampling at these wells is dependent on sufficient water, and sometimes constituents within the analytical suite are prioritized based on the amount of water obtained during the sampling event. MCOI-8 has been eliminated from the monitoring because the very-small amount of water being observed in the well sits only in the sump and does not provide sufficient water to be considered representative of conditions in the groundwater.

4.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for regional aquifer groundwater monitoring are presented in Table 4.3-1. Locations are shown in Figure 4.3-1. The screening tables for Mortandad Canyon are included in Appendix B and electronically on the CD. Summary figures of the screening results are shown in Appendix B.

Regional aquifer wells R-1, TW-8, R-13, R-14, R-15, R-16, R-21, R-28, R-33, and R-34 in the Mortandad Canyon watershed are included in this work plan and reflect the monitoring requirements in the "Addendum to the Work Plan for Sandia Canyon and Cañada del Buey," submitted to NMED on March 6, 2007 (LANL 2007, 095454).

5.0 PAJARITO CANYON WATERSHED

5.1 Introduction

Pajarito Canyon is located on the Pajarito Plateau in the central part of the Laboratory (Figure 1.2-1). The canyon heads in the Santa Fe National Forest, approximately 4.6 km (2.9 mi) west of the Laboratory boundary at an elevation of approximately 10,434 ft (3180 m), and trends east-southeast across the Laboratory and Los Alamos County. It empties into the Rio Grande in White Rock Canyon at an elevation of 5422 ft (1653 m). The primary Laboratory use of the Pajarito Canyon watershed has been as the canyon-bottom location for the Los Alamos Critical Experiments Laboratory at TA-18 and for mesa-top surface and subsurface Material Disposal Areas (MDAs) F and Q at TA-06, M at TA-09, and G, H, J, and L at TA-54. A detailed description and data summary for Pajarito Canyon potential contaminants are contained within the work plan for Pajarito Canyon (LANL 1998, 058820).

5.2 Background

The area of Pajarito Canyon watershed is approximately 13 mi^2. The TAs located within this watershed include TA-03, -06, -07, -08, -09, -14, -15, -18, -22, -23, -27, -36, -40, -46, -50, -54, -55, -58, -59, -64, -65, -66, -67, and -69. The contaminant release history from approximately 379 SWMUs and AOCs includes releases from outfalls, septic systems, spills, open detonations from firing sites, and MDAs. Laboratory-related contamination has been detected in Pajarito Canyon water samples obtained from perennial and ephemeral streams, alluvial groundwater, and springs supplied by intermediate-perched groundwater from the Bandelier Tuff. The Pajarito Canyon conceptual model is briefly discussed below and summarized in Table A-4 in Appendix A.

5.3 Monitoring Objectives

The monitoring for Pajarito Canyon reflected in the Interim Plan is consistent with the NMED-approved “Work Plan for Pajarito Canyon” (LANL 1998, 059577; NMED 2005, 091288). The Pajarito Canyon work plan focuses on watershed-scale characterization of surface-water base flow, springs, alluvial groundwater, intermediate-perched groundwater, and regional groundwater. The Pajarito work plan calls for installation of 13 new alluvial wells to provide coverage throughout the upper watershed, including the Twomile and Threemile basins. Additionally, 6 surface water base-flow locations and 10 springs are included in the monitoring scope. The Pajarito Canyon Work Plan calls for two characterization sampling rounds. However, an additional two sampling rounds will be performed to provide sufficient data to support an evaluation of future monitoring needs. Therefore, a quarterly monitoring frequency is being conducted in the Pajarito watershed. Existing and future monitoring locations are presented in Table 5.3-1 and Figure 5.3-1. Pending further refinement of the conceptual model for the Pajarito Canyon watershed, the monitoring in this plan represents a continuation of the monitoring presented in the 2006 version of the IFGMP.

Several intermediate-perched and regional wells in the Pajarito watershed have screens affected to different degrees by residual drilling fluids that produce unreliable results for many constituents. Individual locations and screens are discussed in the “Well Screen Analysis Report, Rev. 2” 4 (LANL 2007 095999). The Interim Monitoring Plan calls for collection of groundwater from these screens and analysis of specific constituents that are not affected by residual drilling fluids in order to assess temporal trends in the geochemical performance of each potentially affected well screen interval.

Surface water and all groundwater will be sampled within a 21-day sampling window. Groundwater levels and surface water flow will be measured simultaneously.

5.4 Scope of Activities

5.4.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for base-flow monitoring are presented in Table 5.3-1. Locations are shown in Figure 5.3-1.

Base flow in perennial and intermittent portions of Pajarito Canyon, Twomile Canyon, and Threemile Canyon will be monitored seasonally. Six base-flow sampling locations—Pajarito 0.5 mi above State Highway 501 (PBF-B), Pajarito below confluence of South and North Anchor East Basin (PBF-1), Two Mile Canyon below TA-59 (PBF-2), Two Mile above Pajarito at E244 (PBF-3) and Pajarito above Two Mile, at E243 (PBF-4), and Pajarito below TA-18 (PBF-5)—are included in this plan. These locations were selected based on proximity to (1) potential contaminant release sites; (2) gaging stations where long-term base flow patterns and water-quality data can be compared; and (3) canyon segments lacking gaging stations but where perennial or intermittent (>20 days/yr) flow is expected.

5.4.2 Alluvial Groundwater

Sampling locations, frequency, analytes, and the rationale for alluvial groundwater monitoring are presented in Table 5.3-1. Locations are shown in Figure 5.3-1.

Alluvial groundwater monitoring locations in the Pajarito watershed will include 13 new alluvial wells: PCAO-B, PCAO-2, PCAO-3, PCAO-4, PCAO-5, PCAO-6, PCAO-7a, PCAO-7b, PCAO-7c, 3MAO-1, 3MAO-2, TMO-1, and PCAO-8, and 6 existing wells: 18-MW-8, 18-MW-9, 18-MW-11, 18-MW-18, PCO-2, and PCO-3. The inclusion of the group of 18-MW series wells is beyond that required in the NMED-approved “Work Plan for Pajarito Canyon” (LANL 1998, 059577; NMED 2005, 091288) but are considered potentially useful for more specific monitoring near buildings or other structures associated with TA-18. The alluvial wells at TA-18 are screened at similar depths and are close together, creating a high-density network with many duplicative locations (Figure 5.3-1). In order to avoid duplication of locations at TA-18, a transect of new wells (PCAO-7a, PCAO-7b, and PCAO-7c), located directly downgradient from TA-18, is scheduled for installation and will monitor for any contamination emanating from the facility.

5.4.3 Intermediate-Perched Groundwater

Sampling locations, frequency, analytes, and the rationale for intermediate-perched groundwater monitoring are presented in Table 5.3-1. Locations are shown in Figure 5.3-1.

Monitoring of the intermediate-perched groundwater beneath Pajarito Canyon is currently being conducted in wells R-23i, R-19 screen 2, and the wells associated with investigations at SWMU-3-010(a) (03-B-9, 03-B-10, 03-B-13; previously identified as 03-MW-2, 03-MW-2, 03-MW-2, respectively).

R-19 screen 1 has been dry but will be checked, and a sample will be collected if sufficient groundwater is available. Groundwater from R-19 screen 2 as well as R-23i will be collected under the Interim Plan.

5.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for regional aquifer groundwater monitoring are presented in Table 5.3-1. Locations are shown in Figure 5.3-1.

Seven wells penetrating the regional aquifer in the Pajarito Canyon watershed will be monitored: R-17, R-18, R-19, R-20, R-22, R-23, and R-32. Well and well screens known to be impacted by the effects of residual drilling fluids will be monitored for the indicator analyses as discussed in Section 1.9 of this Interim Plan.

5.4.5 Springs

Sampling locations, frequency, analytes, and the rationale for springs monitoring are presented in Table 5.3-1. Locations are shown in Figure 5.3-1. Geologic units, groundwater sources, and estimated flow data for the springs in the Pajarito Canyon Watershed can be found in Appendix D, Table D-4.

Ten spring locations—PC-Spring, Homestead Spring, Starmer Spring, Anderson Spring, Keiling Spring, Charlie Spring, Bulldog Spring, TW-1.72 Spring, Threemile Spring, and TA-18 Spring—are included in the Interim Plan. These springs will be monitored for the full analytical suite required in the approved Pajarito work plan.

6.0 WATER CANYON/CAÑON DE VALLE WATERSHED

6.1 Introduction

The headwaters of the Water Canyon/Cañon de Valle watershed occur along the eastern flank of the Jemez Mountains, near the western margin of the Pajarito Plateau (Figure 1.2-1). The discharge point of the watershed is at the Rio Grande on the eastern edge of the Plateau. The major canyons in the watershed include Water Canyon, Cañon de Valle, Potrillo Canyon, and Fence Canyon. There are also numerous smaller canyons and arroyos.

6.2 Background

The Water Canyon/Cañon de Valle watershed is located in the southern portion of the Laboratory and encompasses an area of approximately 19 mi^2. Cañon de Valle, located in the western portion of the Pajarito Plateau, is the main tributary to Water Canyon. The heads of both canyons are located in the Sierra de Los Valles. The watershed includes numerous springs, ephemeral and perennial surface water flow, and alluvial groundwater systems. Tributaries that may contribute contamination to Water Canyon include Indio, Fence, and Potrillo Canyons which join Water Canyon on the eastern side of the Laboratory. The TAs located within this watershed include TA-09, -11, -14, -15, -16, -28, -36, -37, -39, -49, -67, -68, -70, and -71. This portion of the Laboratory has been used for weapons testing, explosives testing, and explosives production and has received effluent from outfalls containing explosive compounds, metals, and VOCs. Storm-water runoff from firing sites, open burn/open detonation units, surface-disposal sites, and other SWMUs and AOCs may have contributed to the contamination detected within the watershed. The contaminants detected in soil, rock, and sediment samples obtained from various locations within the watershed during previous investigations include barium and other RCRA metals, explosive compounds, VOCs, and radionuclides, which are not addressed under the Consent Order. Results of the 260 Outfall Corrective Measures Study (CMS) investigation show the drainage channel below the outfall and the canyon bottom, as well as surface water, alluvial groundwater, and deep perched groundwater, are contaminated with explosive compounds including hexahydro-1,3,5,trinitro-1,3,5-triazine research department explosive) (RDX), octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (high-melting explosive) (HMX) , 2,4,6 trinitrotoluene (dynamite) (TNT), and barium (LANL 2003, 085531). The barium contamination results from an explosive compound, baratol, which is a mixture of $Ba(NO_3)_2$ and TNT. Barium and RDX are chemicals of interest in this watershed because of the documented releases of these chemicals, and the spatial and temporal distributions help to interpret the site conceptual model.

Because the Water Canyon/Cañon de Valle watershed is so extensive, and potential sources of contaminants change across the Pajarito Plateau, the watershed conceptual model (Table A-5 in Appendix A) is described in three sections: (1) Upper Water Canyon and Cañon de Valle, (2) Middle Water Canyon (near TA-49), and (3) Lower Water, Fence, and Potrillo Canyons.

6.3 Monitoring Objectives

The monitoring network for the Water Canyon/ Cañon de Valle watershed is focused on both areas of known contamination in the Upper Cañon de Valle watershed and on broad, initial characterization for constituents not known to be widely used in the upper Cañon de Valle area and in other areas of the watershed. Thus, it reflects current knowledge about nature and extent of contamination, particularly that which is associated with Consolidated Unit 16-021(c)-99 (the TA-16-260 Outfall) and the current conceptual model for contaminant releases and fate and transport from that and other sites. The current status of this knowledge is presented in two investigation reports for Consolidated Unit 16-021(c)-99 (LANL 2003, 077965; LANL 2006 093798), the “Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99” (LANL 2007, 096003) and the recently completed “Evaluation of the Suitability of Wells near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021-99” (LANL 2007, 095787). Concentrations of key contaminants such as RDX and barium appear to be decreasing slightly in alluvial groundwater and springs, although short-term changes in flow rate associated with drought and recharge associated with floods and snowmelt make analysis of such trends equivocal. Regional aquifer RDX concentrations are also decreasing. Initial characterization sampling for a wide range of constituents that are not expected to be present due to releases from TA-16 operations (e.g., fission product radionuclides, SVOCs, pesticides, PCBs, dioxins/furans) have been completed, and such constituents have not been detected beyond sporadic, low-level detections likely attributable to infrequent, but normal, analytical issues as shown in the frequency-of-detection tables in Appendix B. Thus, the objective of the current monitoring for Cañon de Valle and Water Canyon is to continue to provide CMS monitoring information for the watershed and to refine the conceptual model and delineate the nature and extent of contaminants that were released in the upper watershed. The current monitoring scope presented in this work plan reflects the requirements of the Consent Order as well as additional constituents necessary for basic watershed characterization. Surface water and groundwater, with the exception of newly installed wells, will continue to be monitored semiannually for the majority of constituents. It is recommended that the frequency of analyses for those constituents that are not expected to have been released from TA-16 (fission product radionuclides, SVOCs, pesticides, PCBs, dioxins/furans) and which have not been consistently detected in monitoring sampling to date be reduced to an annual frequency.

Continued semiannual monitoring for constituents known to have been released to groundwater at TA-16 is recommended for the following reasons. Intensive quarterly monitoring over the past decade under characterization and corrective measure investigations has resulted in an extensive pool of data and the development of a detailed conceptual model of the watershed. The alluvial wells and springs in Cañon de Valle have been sampled on a quarterly basis from 1997 to 2006. Beginning in 2000, deeper monitoring wells were drilled into the intermediate-perched and regional aquifers in the Cañon de Valle / Water Canyon watershed and were sampled quarterly from their installation until initiation of the sitewide monitoring program. The sampling conducted in this watershed has characterized contaminant spatial and temporal trends as described in the investigation and corrective measures implementation (CMI reports cited above. Because of the extensive data collected during the past decade, continued semiannual monitoring for the major constituents released from TA-16 is recommended for surface water and all groundwater in the watershed. New wells will be monitored quarterly.

6.4 Scope of Activities

6.4.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for base-flow monitoring are presented in Table 6.3-1. Locations are shown in Figure 6.3-1. The screening tables for the Water Canyon/Cañon de Valle Watershed are included in Appendix B. Summary figures of the screening results are shown in Appendix B.

Base flow in perennial and intermittent portions of Water Canyon, Cañon de Valle, and Potrillo Canyon will be monitored twice a year to capture flow variability. The sampling locations, Water below State Highway 501 (E252), Cañon de Valle below MDA P (E256), and Water at Beta, are from an existing network of gaging stations and surface water monitoring locations where long-term base-flow patterns indicate perennial or intermittent (>20 days/yr) flow. A new location located between E252 and Water at Beta is also included in the network.

6.4.2 Alluvial Groundwater

Sampling locations, frequency, analytes, and the rationale for alluvial groundwater monitoring are presented in Table 6.3-1. Locations are shown in Figure 6.3-1. The screening tables for the Water Canyon/Cañon de Valle Watershed are included in Appendix B. Summary figures of the screening results are shown in Appendix B.

Alluvial groundwater monitoring locations are situated in Water Canyon and Cañon de Valle. Five alluvial wells in Cañon de Valle (16-2655, 16-2656, 16-2657, 16-2658, and 16-2659) as well as three alluvial wells in Martin Canyon (16-6293, 16-6294, and 16-6295) and Fishladder Canyon (16-25278, 16-25279, 16-25280) will be monitored. Three alluvial wells in lower Water Canyon (WCO-1, WCO-2, and WCO-3) are typically dry but will be checked and sampled if they produce sufficient water.

6.4.3 Intermediate-Perched Groundwater

Sampling locations, frequency, analytes, and the rationale for intermediate-perched groundwater monitoring are presented in Table 6.3-1. Locations are shown in Figure 6.3-1.

The screening conducted as described in Section 1.7 identified several metal constituents (arsenic, beryllium, chromium, iron, manganese, and nickel) were detected above the threshold. No general inorganic or organic constituents were detected above the threshold. The screening tables for the Water Canyon/Cañon de Valle (CdV) Watershed are included in Appendix B and electronically on CD. Summary figures of the screening results are shown in Appendix B.

Five wells, CdV-16-1(i), CdV-16-2(i), R-25, CdV-37-2, and CdV-15-3, in the upper Water Canyon watershed are completed to access intermediate-perched groundwater. These wells were originally sited to characterize an area where effluent containing explosive compounds was released into the canyons. CdV-R-37-2 screen 1 and CdV-R-15-3 screens 1, 2, and 3 have been dry since drilling. If pressure measurements suggest that groundwater is present, samples will be collected. Intermediate-perched wells CdV-16-1(i) and CdV-16-2(i) are new wells and have recently undergone characterization sampling.

Contaminants have been observed in intermediate-perched groundwater at R-25 screens 1 and 2. This zone will be monitored for constituents not affected by drilling fluids and indicator constituents that infer changes in impacted groundwater in the vicinity of the screen.

6.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for regional aquifer groundwater are presented in Table 6.3-1. Locations are shown in Figure 6.3-1. The screening tables for the Water Canyon/Cañon de Valle Watershed are included in Appendix B and electronically on CD. Summary figures of the screening results are shown in Appendix B.

Wells that access regional groundwater include R-25, R-26, R-27, CdV-15-3, and CdV-37-2. Well and well screens known to be impacted by the effects of residual drilling fluids will be monitored for the indicator analyses as discussed in Section 1.9 of this Interim Plan.

6.4.5 Springs

Sampling locations, frequency, analytes, and the rationale for springs monitoring are presented in Table 6.3-1. Locations are shown in Figure 6.3-1. The screening tables for the Water Canyon/Cañon de Valle Watershed are included in Appendix B and electronically on CD. Summary figures of the screening results are shown in Appendix B.

Nine springs and seeps are present in the Water Canyon/Cañon de Valle Watershed. Seven of the springs—Peter Spring, SWSC, Burning Ground, Fish Ladder Seep, Hollow, Martin, and Water Canyon Gallery—are located in the upper portion of the watershed. Because of their proximity to PRSs and the presence of explosive compounds and barium contamination, Burning Ground Spring, Peter Seep, Fish Ladder Seep, SWSC Spring, and Martin Spring have been selected for monitoring. Hollow Spring was not selected for monitoring because of irregular and small discharge volumes. Water Canyon Gallery and CdV Headwaters were selected as background spring locations.

The principal springs in the watershed are Burning Ground, SWSC, and Martin. These springs have been sampled on a quarterly basis since 1997.

7.0 ANCHO/CHAQUEHUI/FRIJOLES CANYONS WATERSHEDS

7.1 Introduction

Ancho Canyon

Ancho Canyon is located in the southeastern part of the Laboratory (Figure 1.2-1). TA-33, located south of Ancho Canyon on a mesa near the Rio Grande, was used as a firing site and for tritium operations. PRSs include landfills and septic systems. TA-39 is located on the floor of middle Ancho Canyon, and it was used for open-air testing of explosive compounds. PRSs in this TA include five firing sites, a number of landfills, and septic systems. More detailed information about the operational history and the PRSs can be found in the “RFI Work Plans for Operable Unit 1122” (LANL 1992, 007671) and the “RFI Work Plan for Operable Unit 1132” (LANL 1993, 015316).

TA-49 is located on a mesa in the upper part of the Ancho Canyon drainage, and part of the area drains into Water Canyon. TA-49 was used for underground hydronuclear testing in the early 1960s. The testing consisted of criticality, equation-of-state, and calibration experiments involving special nuclear materials.

The testing produced large inventories of radioactive and hazardous materials, such as isotopes of uranium and plutonium, lead, and beryllium; explosives such as TNT, RDX, HMX; and barium nitrate. Much of this material remains in shafts on the mesa top. Further information about activities and PRSs at TA-49 can be found in Purtymun and Stoker (Purtymun and Stoker 1987, 006688) and the “RFI Work Plan for Operable Unit 1144” (LANL 1992, 007670). The RFI work plan also describes the planned investigations that focus on identifying and quantifying migration of contaminants from the shafts.

Chaquehui Canyon

Chaquehui Canyon is situated south of the mesa occupied by TA-33. One monitoring location (Doe Spring) is located in the lower watershed at the mouth of the canyon. Doe Spring is presented in Section 8 (White Rock Canyon).

Frijoles Canyon

Frijoles Canyon lies on USFS and National Park Service lands south of the Laboratory. The canyon lies adjacent to the Laboratory boundary near the Rio Grande but is separated from TA-33 by Chaquehui Canyon. Sampling locations are shown on Figure 7.3-1 and on the White Rock Canyon location map (Figure 8.3-1).

7.2 Background

Ancho Canyon is located in the southern portion of the Laboratory, and its area is approximately 7 mi^2. The Ancho Canyon watershed is located entirely within TA-33, -39, -49, and -70 and contains approximately 33 SWMUs and AOCs. Contaminants that have been detected in sediments, surface water, or shallow groundwater during previous investigations conducted in the watershed include mercury and other metals, explosive compounds, organic constituents, and radionuclides.

The Chaquehui Canyon watershed is located in the southeast portion of the Laboratory at TA-33. Approximately 61 SWMUs and AOCs in the watershed vary from inactive industrial outfalls to MDAs. Surface water flow is ephemeral; however, two springs are present along the south-facing wall of the main drainage. Contaminants above background levels have been detected in samples of sediments and surface water obtained in the canyon.

Indio Canyon, a south-entering subbasin to Water Canyon, originates on Laboratory property and extends for about 3 mi to its confluence with Water Canyon. The drainage basin is located in TA-39. Contaminants above background levels have been detected in sediments and surface-water samples obtained from the canyon.

Potrillo and Fence Canyons are part of the Water Canyon/Cañon de Valle watershed. The confluence of these two canyons is near State Highway 4. TA-15, -36, -68, and -71 are located within these canyons. There are approximately 53 SWMUs and AOCs within the watershed. The SWMUs and AOCs vary from inactive septic tanks to open-detonation firing sites. Contaminants above background levels have been detected in sediments and surface-water samples obtained from the canyons.

7.3 Monitoring Objectives

The primary monitoring objective of 2007 monitoring in Ancho/Chaquehui/Frijoles Canyon is to provide information in advance of the detailed characterization to be conducted in the 2009–2010. Characterization results are to be reported in the Ancho, Chaquehui, Indio Canyons investigation report due in 2011 under the Consent Order. Monitoring purpose and scope will be reassessed in 2009 based on the need for support of the detailed characterization work scheduled in 2009 and 2010. Pending further refinement of the conceptual model for the the Ancho, Chaquehui, and Frijoles Canyon watersheds, the monitoring in this plan represents a continuation of the monitoring presented in the 2006 version of the IFGMP.

7.4 Scope of Activities

Ancho Canyon

Monitoring locations in Ancho Canyon are situated near or downstream from areas of past Laboratory weapons-testing activities. Most monitoring locations in Ancho Canyon access the regional aquifer. Three decades of water-quality records from regional wells in this area (DT-5A, DT-9, and DT-10) and recent data from R-31 show no substantial changes in water chemistry or the presence of Laboratory contaminants in the regional aquifer.

7.4.1 Base Flow

Frequency, analytes, and the rationale for base-flow monitoring at Ancho at the Rio Grande are presented in Table 7.3-1. The location is shown in Figure 7.3-1.

One base-flow monitoring point, Ancho at Rio Grande, is sampled in the Ancho Canyon watershed.

7.4.2 Alluvial Groundwater

No data are available to evaluate the alluvial groundwater system in the Ancho Canyon watershed. Two locations at TA-39 (39-UM-3 and 39-DM-6) were included in the 2006 IFGMP and will be retained in this plan. These locations will be checked for groundwater semiannually, and samples will be collected if water is present.

7.4.3 Intermediate-Perched Groundwater

The upper screen of R-31 (screen 1) was set in an intermediate-perched groundwater that has produced no water. This screen will be checked semiannually and a sample collected if water is present.

7.4.4 Regional Aquifer Groundwater

Sampling locations, frequency, analytes, and the rationale for regional aquifer groundwater monitoring are presented in Table 7.3-1. Locations are shown in Figure 7.3-1.

Test Wells DT-5A, DT-9, DT-10, and R-31 are the regional wells monitored in this watershed.

7.5 Springs

Ancho Canyon

Monitoring at Ancho Spring is discussed in the White Rock Canyon monitoring tables.

Chaquehui Canyon

There are no base-flow or groundwater sampling locations within Chaquehui Canyon. Chaquehui Canyon Springs are described in Section 8, White Rock Canyon.

Frijoles Canyon

Locations in Frijoles Canyon are for the most part remote from potential contaminant sources and serve as boundary or water-supply monitoring points. Sampling locations in Frijoles Canyon are for base flow only with no groundwater locations included in the Interim Plan. The three-decade water-quality record for base flow in this area shows no substantial changes or Laboratory contaminants.

Water-quality monitoring over several decades in the Frijoles Canyon watershed shows no impact exceeding screening criteria from Laboratory sources.

7.5.1 Base Flow

Sampling locations, frequency, analytes, and the rationale for regional base-flow monitoring are presented in Table 7.3-1. Locations are shown in Figures 7.3-1 and 8.3-1.

Flow in Frijoles Canyon is perennial. Base flow will be monitored semiannually at the gaging station Rio de los Frijoles at Bandelier (E350) and annually in the stream just above the Rio Grande.

8.0 WHITE ROCK CANYON

8.1 Introduction

The White Rock Canyon Springs are located along the Rio Grande at the eastern border of the Laboratory and on Los Alamos County and San Ildefonso Pueblo lands (Figure 1.2-1). The springs serve as monitoring points to detect possible discharge of contaminated groundwater from beneath the Laboratory into the Rio Grande.

8.2 Background

In the southern portion of the canyon, tritium operations took place at TA-33 which borders the Rio Grande to the east. The “RFI Work Plan for OU 1122” (LANL 1992, 007671) describes environmental concerns at TA-33. To the north of TA-33 lies TA-70, a buffer area where no Laboratory activities have occurred. Adjoining TA-70 to the north is low- to moderate-density residential areas in White Rock, a mix of private property, and Los Alamos County land. A municipal sanitary treatment plant discharges effluent into Mortandad Canyon just above the river at the northern county boundary. San Ildefonso Pueblo property borders Los Alamos County on the north; this land is undeveloped. San Ildefonso Pueblo operates numerous water supply wells on both sides of the Rio Grande, and the City of Santa Fe operates the Buckman well field on the east side of the Rio Grande across from White Rock. Table A-6 in Appendix A summarizes the conceptual model for the White Rock Canyon watershed.

8.3 Monitoring Objectives

The monitoring objectives for the White Rock Canyon springs are to continue surveillance for potential Laboratory impacts to the groundwater as expressed at the spring discharge points in White Rock Canyon. Pending further refinement of the conceptual model for the White Rock Canyon Springs, the monitoring in this plan represents a continuation of the monitoring presented in the 2006 version of the IFGMP.

Most locations in White Rock Canyon sample the regional aquifer, where flow rates are low and little variation occurs beyond cyclical annual changes. In addition, a 25-yr record of water-quality data for the springs shows little change. Figure 8.3-1 shows the sampling locations in White Rock Canyon.

8.4 Scope of Activities

Water-quality monitoring over several decades in the White Rock Canyon watershed shows little or no impact from Laboratory sources. The analytes selected for monitoring are chosen based on data screening against applicable standards (threshold rate), on possible source terms from Laboratory activities, and on the need to conduct annual monitoring for a broad range of analytes to determine trends.

8.4.1 Base Flow

Base-flow locations entering White Rock Canyon are discussed in their respective watersheds.

8.4.2 Springs

Sampling locations, frequency, analytes, and the rationale for monitoring springs are presented in Table 8.3-1. Locations are shown in Figure 8.3-1.

9.0 REFERENCES

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Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau; the U.S. Department of Energy–Los Alamos Site Office; the U.S. Environmental Protection Agency, Region 6; and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

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NMED (New Mexico Environment Department), October 11, 2005. “Approval with Modifications, Pajarito Canyon Work Plan,” New Mexico Environment Department letter to D. Gregory (DOE LASO) and D. McInroy (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2005, 091288)

NMED (New Mexico Environment Department), April 5, 2007. “Well Evaluations for Intermediate and Regional Wells,” New Mexico Environment Department letter to D. Gregory (DOE LASO) and D. McInroy (LANL) from J.P. Bearzi (NMED HWB), Santa Fe, New Mexico. (NMED 2007, 095999)

Purtymun, W.D., and A.K. Stoker, November 1987. “Environmental Status of Technical Area 49, Los Alamos, New Mexico,” Los Alamos National Laboratory report LA-11135-MS, Los Alamos, New Mexico. (Purtymun and Stoker 1987, 006688)

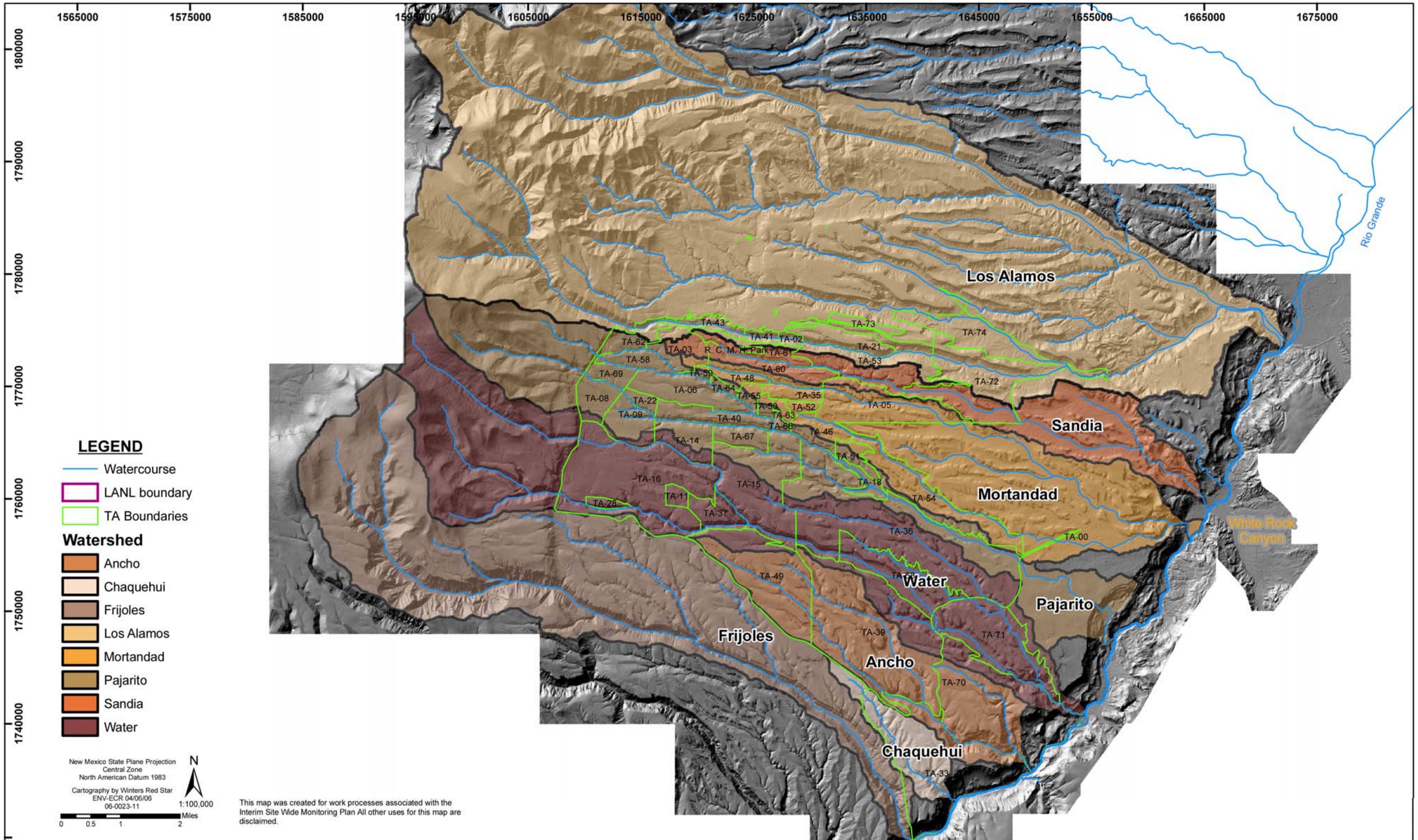

Figure 1.2-1 Canyons of Los Alamos National Laboratory and the Pajarito Plateau

Current (2007) Watershed Status and Groundwater Monitoring Modes

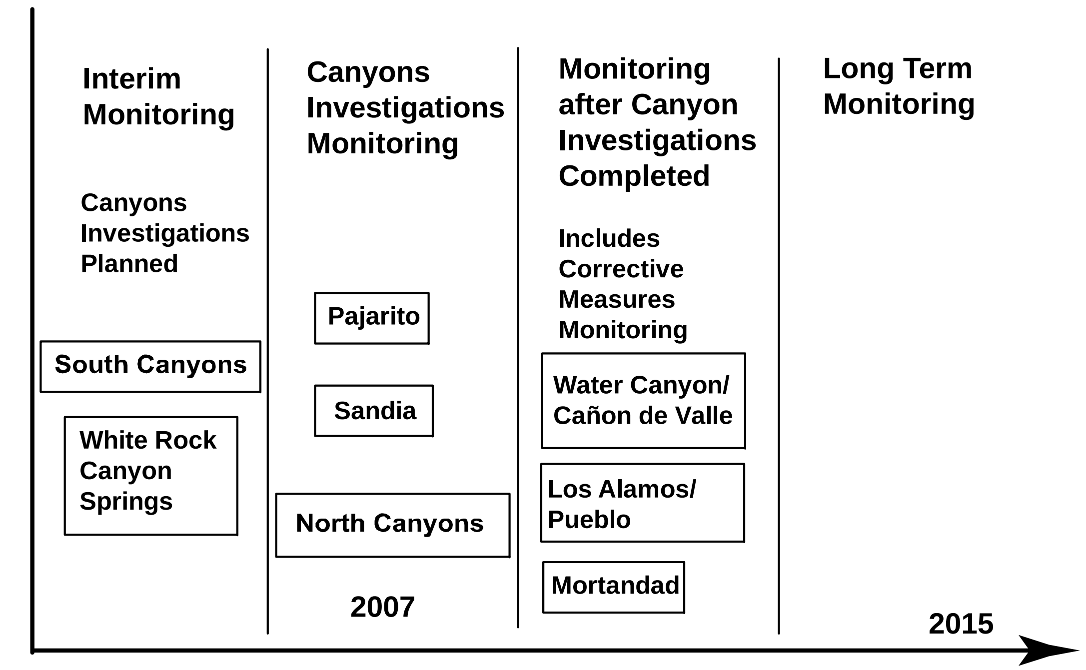

Figure 1.5-1 Watershed grouping and monitoring strategy

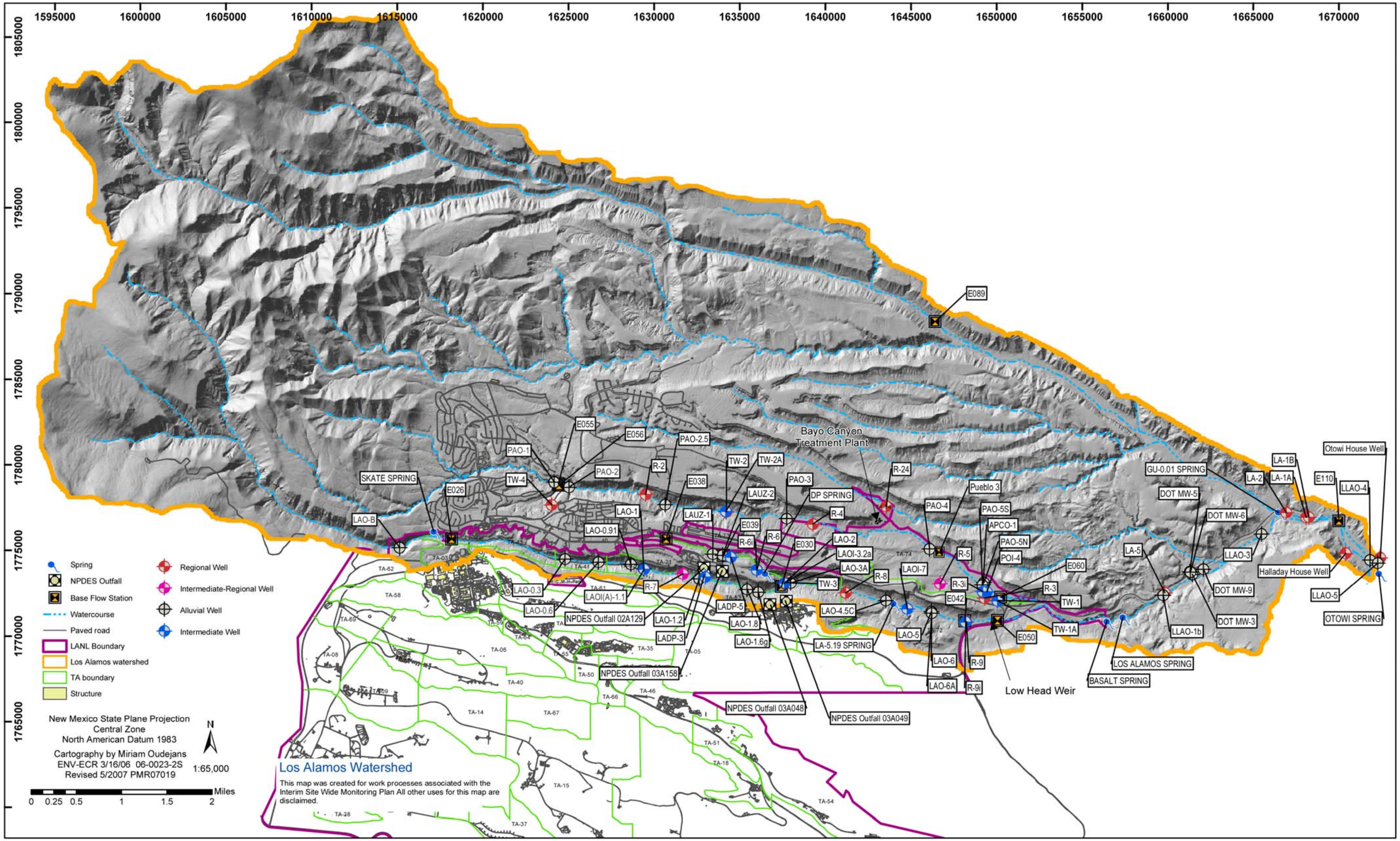

Figure 2.3-1 Los Alamos Watershed

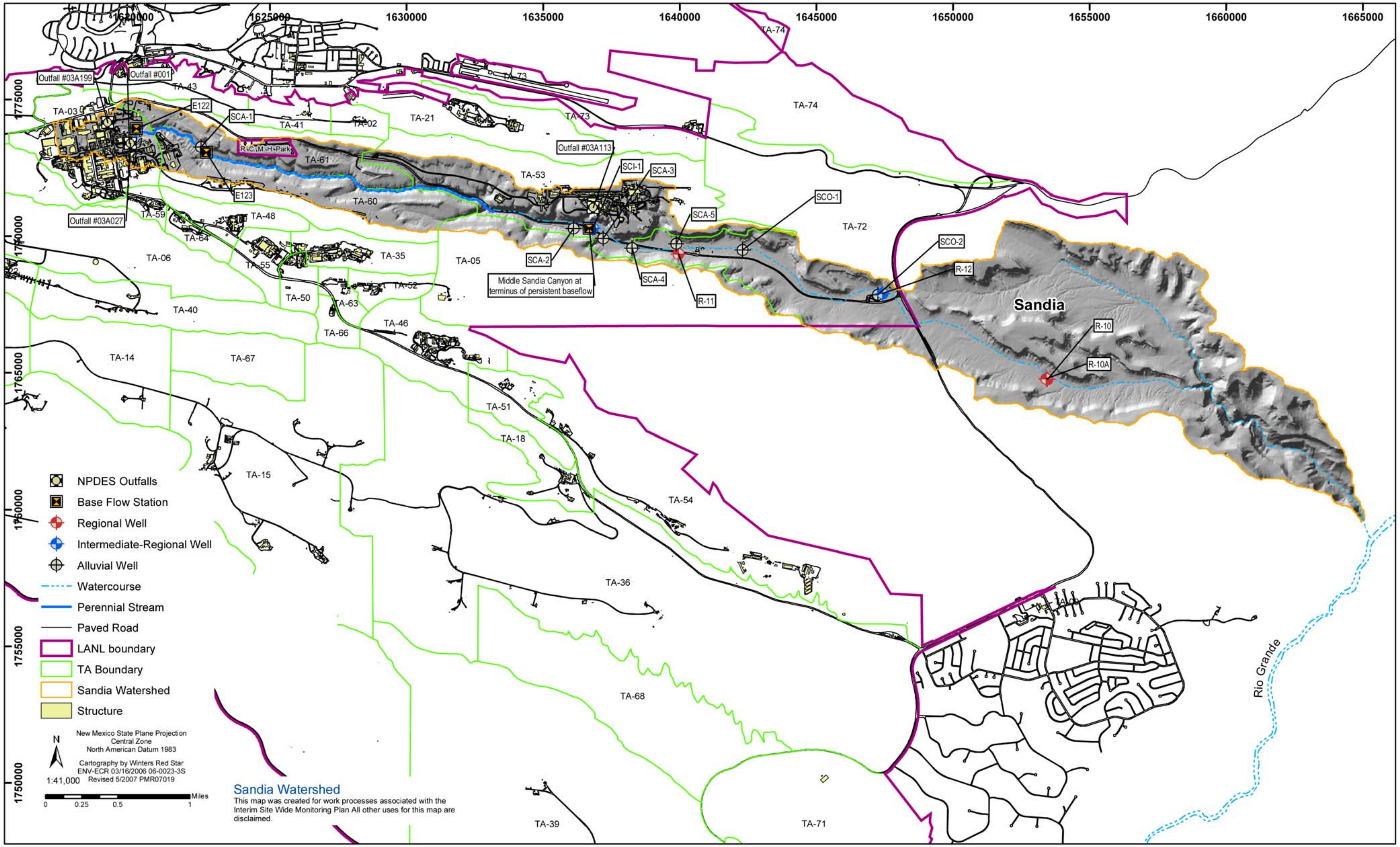

Figure 3.3-1 Sandia Watershed

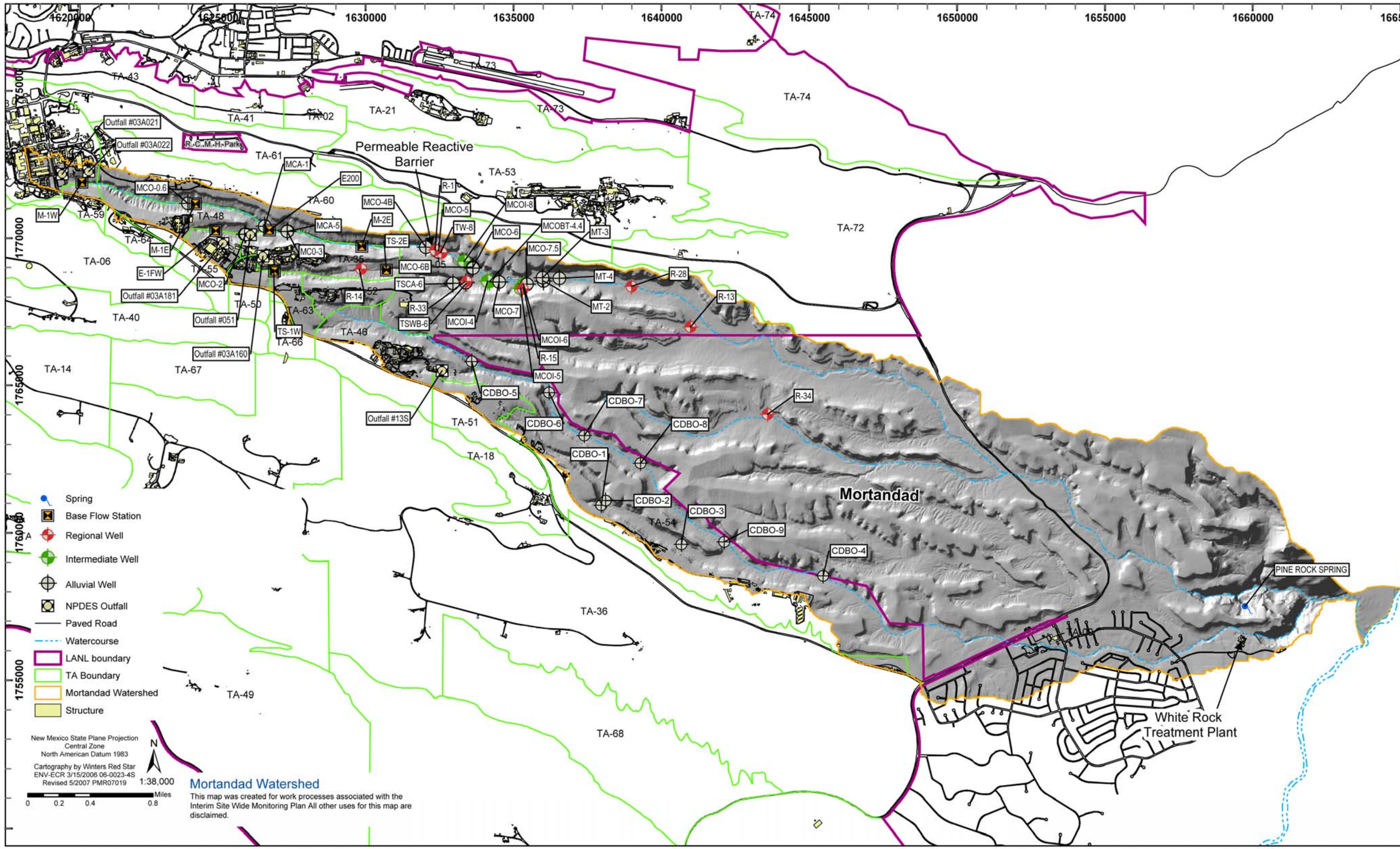

Figure 4.3-1 Mortandad Watershed

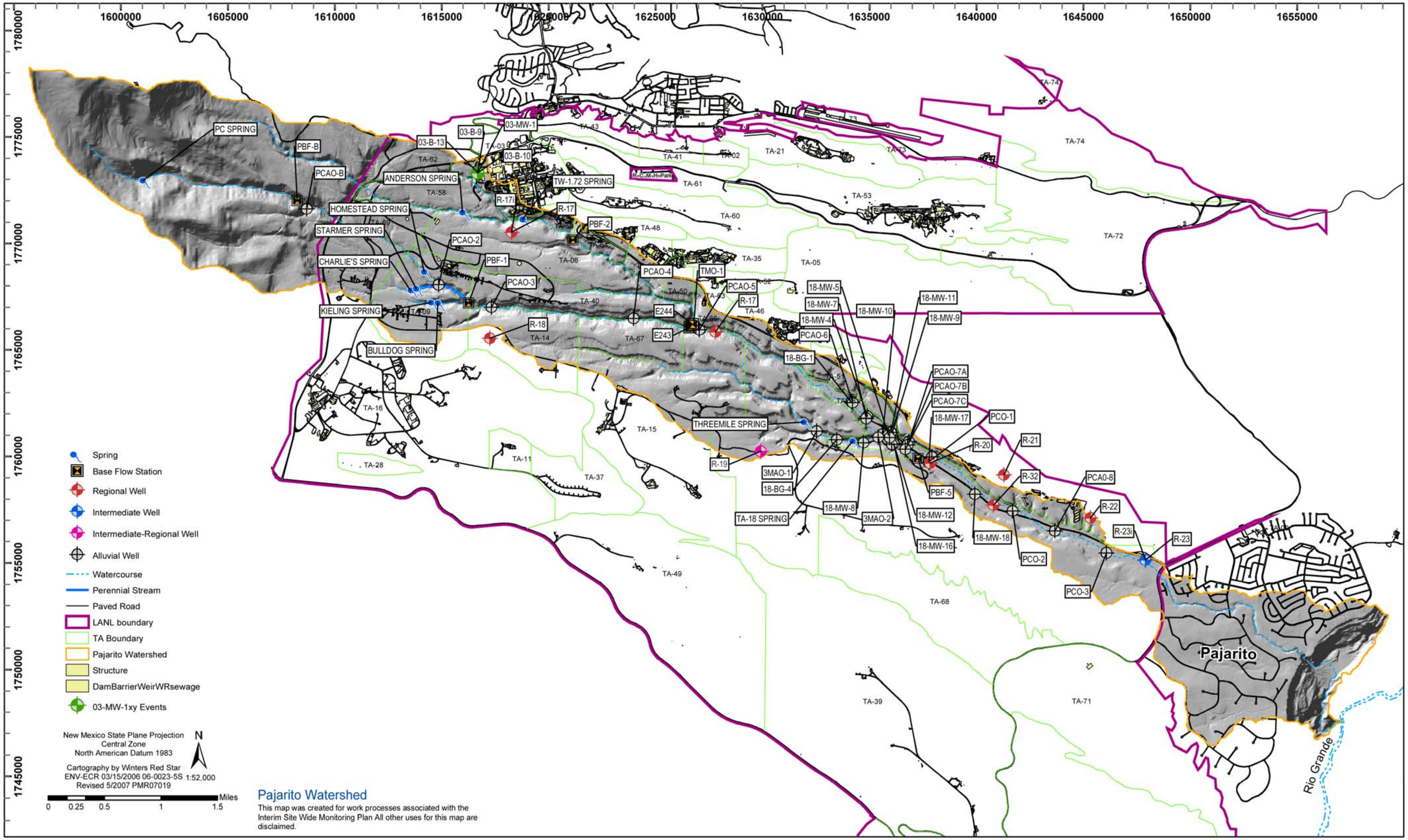

Figure 5.3-1 Pajarito Watershed

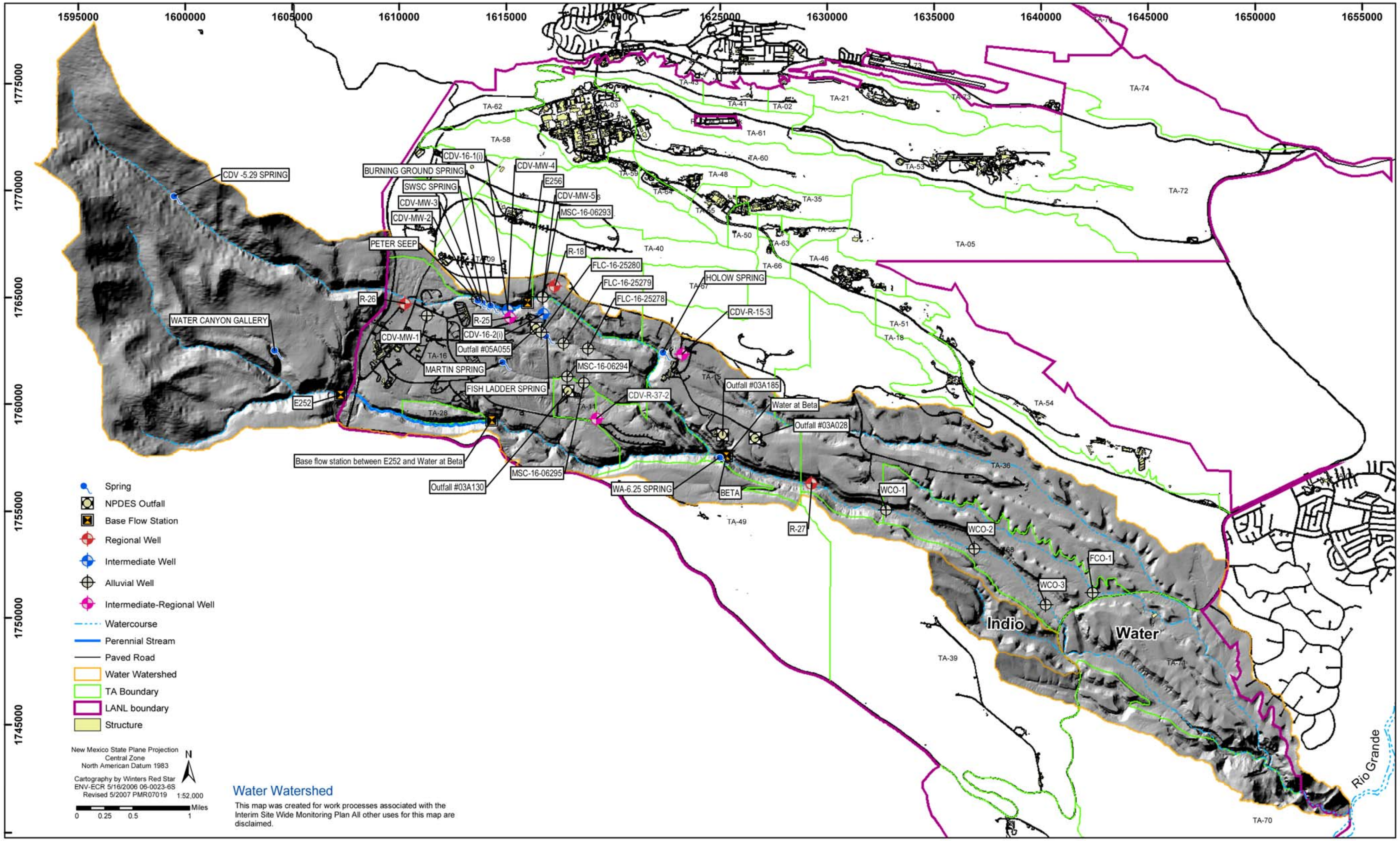

Figure 6.3-1 Water Watershed

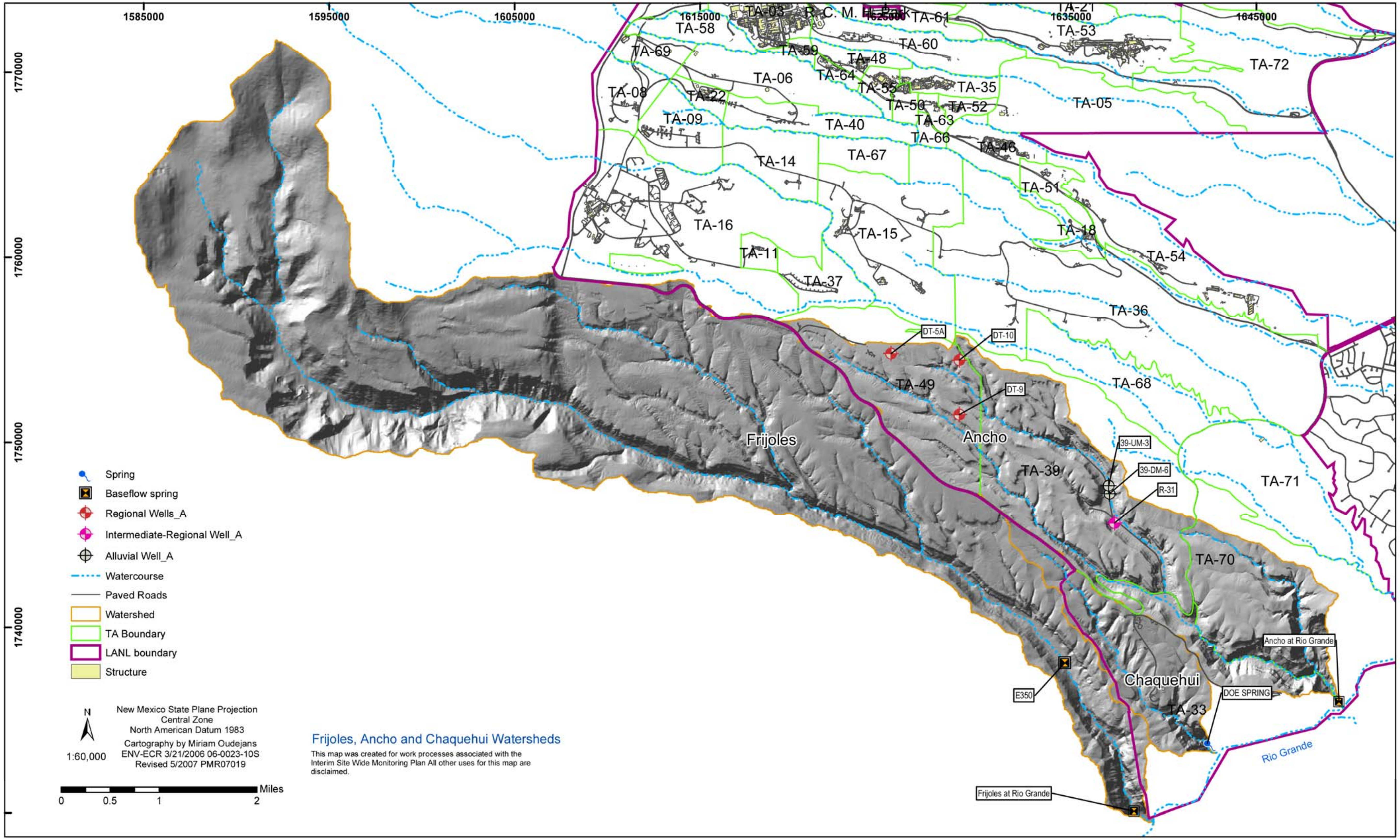

Figure 7.3-1 Frijoles, Ancho, and Chaquehui Watersheds

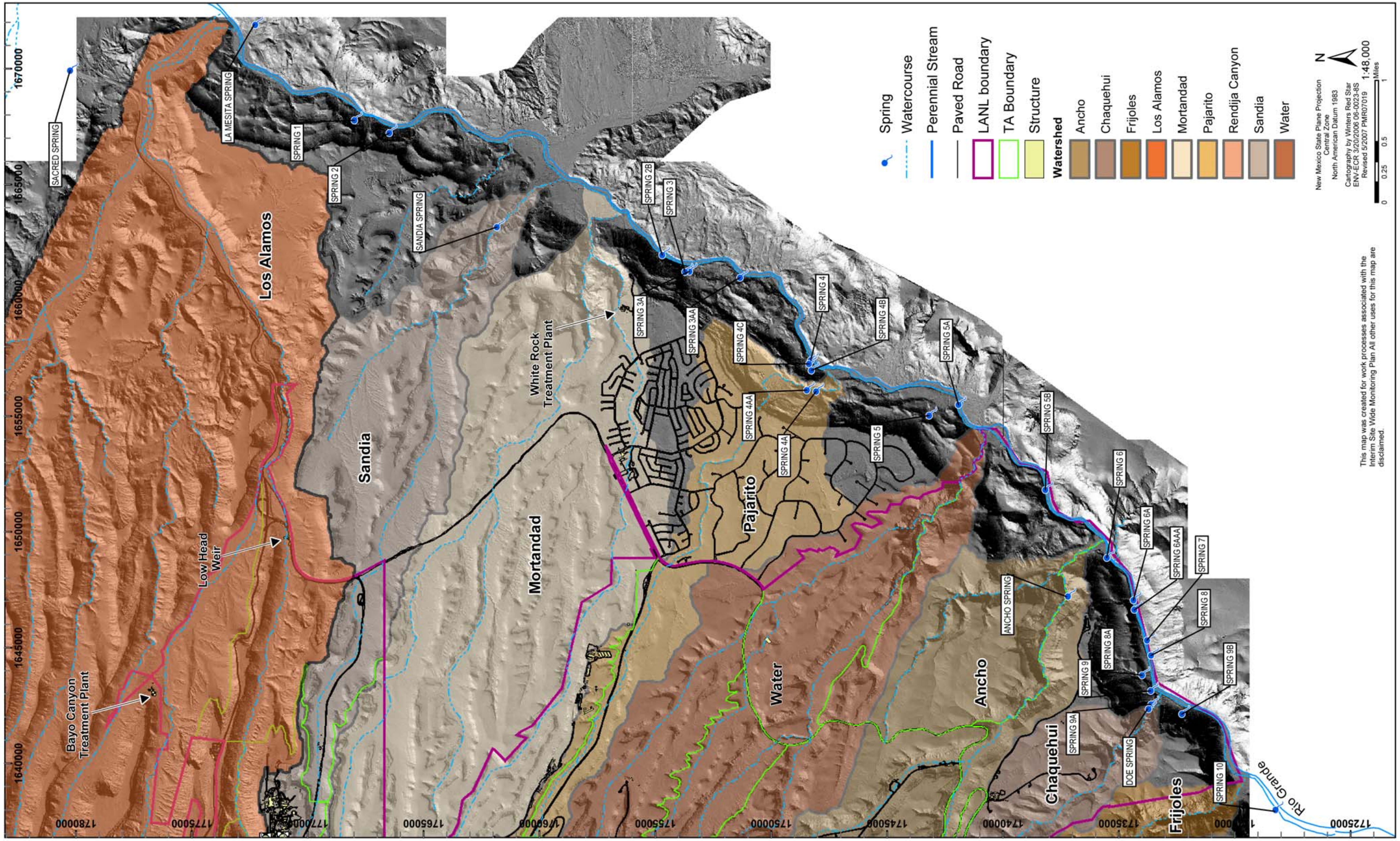

Figure 8.3-1 White Rock Canyon

Table 1.7-1
Applicable Standards Used in Watershed Screening

Type	Group	Abbrev	Source	Standard	Potentially applicable to			
					Surface Water		Groundwater	
					Filtered	Unfiltered	Filtered	Unfiltered
Standard	WQCC	LWF	NMAC 20.6.4	Livestock Watering (Filtered)	x			
Standard	WQCC	LWU	NMAC 20.6.4	Livestock Watering (Unfiltered)		x		
Standard	WQCC	WHU	NMAC 20.6.4	Wildlife Habitat (Unfiltered)		x		
Standard	WQCC	Ir	NMAC 20.6.4	Irrigation Standard (Filtered)	x			
Standard	WQCC	AqAcF	NMAC 20.6.4	Aquatic Life Acute (Filtered) 100-mg/L Hardness[a]	x			
Standard	WQCC	AqAcU	NMAC 20.6.4	Aquatic Life Acute (Unfiltered) 100-mg/L Hardness[a]		x		
Standard	WQCC	HHF	NMAC 20.6.4	Human Health Standards Ephemeral (Filtered)	x			
Standard	WQCC	HHU	NMAC 20.6.4	Human Health Ephemeral Standards (Unfiltered)		x		
Standard	WQCC	AqChrF	NMAC 20.6.4	Aquatic Life Chronic[b] (Filtered) 100 mg/L Hardness[a]	x			
Standard	WQCC	AqChrU	NMAC 20.6.4	Aquatic Life[b] (Unfiltered) 100- mg/L Hardness[a]		x		
Standard	WQCC	HHPF	NMAC 20.6.4	Human Health Standard[b] Perennial (Filtered)	x			
Standard	WQCC	HHPU	NMAC 20.6.4	Human Health Standard[b] Perennial (Unfiltered)		x		
Risk-ecological	DOE	BCG		DOE Biota Concentration Guides (BCG)	x	x		
Standard	WQCC	GWHH	NMAC 20.6.2	Groundwater Human Health Standards, Other Standards for Domestic Water Supply and Standards for Irrigation Use			x	x
Standard	EPA	MCL	CFR 264.94	EPA Maximum Contaminant Level (MCL)			x	x
Standard	EPA	SMCL	www	EPA Secondary Maximum Contaminant Level (SMCL) radionuclides only			x	x

Table 1.7-1 (continued)

Type	Group	Abbrev	Source	Standard	Potentially applicable to			
					Surface Water		Groundwater	
					Filtered	Unfiltered	Filtered	Unfiltered
Risk-human	DOE	DCG	Order 5400.5	DOE 4 mrem Drinking Water Derived Concentration Guides (DCG)	x	x	x	x
Risk-human	EPA Reg 6	Reg6	www	EPA Region 6 Tap Water	x	x	x	x

[a] Hardness-dependent criteria calculated using 100-mg/L $CaCO_3$.

[b] Aquatic Life Chronic and Human Health Perennial standards apply to perennial surface waters in designated portions of listed canyons (NMAC 20.6.4 Sections 126 & 127).

RCRA MCLs not in Consent Order, but are applicable.

- The EPA Region 6 Tap Water values for Cancer Endpoint have been adjusted from 10-6 to 10-5 risk level.
- Stormwater samples are not included.
- Water screen steps:
  a) Assemble list of analytes by field preparation (F, NF) and water type (e.g., surface water, alluvial groundwater, etc.)
  b) Compare to minimum standard that applies for the field preparation and water type (EPA Region 6 Tap Water values and EPA MCLs are used in the absence of other standards)

Table 2.3-1
Los Alamos Watershed Interim Monitoring Plan

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics[d]	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP , pH,SC,T,Trb
Upper Los Alamos Canyon (includes DP Canyon)																			
Los Alamos below the Ice Rink (E026)	Typically persistent flow. Monitors background water quality.	Base flow	C	S	A	A	A	S			A		S	S		S	A	S	S
Los Alamos above DP Canyon (E030)	Seasonally intermittent flow. Persistent flow typically only during spring runoff. Monitors potential effects of Technical Area (TA) -01, -02, and -41.	Base flow	C	S	A	A	A	S			A		S	S		S	A	S	S
DP above TA-21 (E038)	Monitors base-line water quality in DP Canyon associated with townsite runoff. Monitors water quality upgradient from potential effects from SWMU 21-011(k) in reach DP-2.	Base flow	C	S	S	S+dro	A	S			A		S	S		S	A	S	S
DP below Meadow at TA-21 (E039)	Monitors water quality associated with contaminants in reach DP-2 associated with SWMU 21-011(k).	Base flow	C	S	A	A	A	S			A		S	S		S	A	S	S
Los Alamos above SR-4 (E042)	Ephemeral. Persistent flow uncommon, typically only during robust spring runoff. Monitors potential effects from DP and upper Los Alamos Canyons and water quality above the low head weir. Data from this location can be used to evaluate weir performance.	Base flow	C	S	A	A	A	S			A		S	S		S	A	S	S
Los Alamos below LA Weir (E050)	Ephemeral. Monitors water quality at Laboratory boundary and influence of low-head weir on surface-water quality.	Base flow	C	S	A	A	A	S			A		S	S		S	A	S	S
DP Spring	Monitors impact on water quality from secondary contaminant sources in DP Canyon sediments.	Alluvial Spring	S	S	S	S	A	S			A		S	S		S	A	S	S
LAO-B	Monitors background alluvial groundwater quality.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-0.3	Monitors base line water quality downcanyon of townsite runoff, and provides base line for assessing potential effects of TA-01, -02, and -41.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-0.6	Monitors for potential effects from TA-41 and 02.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-1	Monitors potential impact of TA -01, -02, and -4, and sediment contamination in upcanyon reaches	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-1.6g	Monitors molybdenum contamination historically associated with TA-53 outfall.	Alluvial	C	S	A	A	A				A		S	S		S	A		S
LAO-1.8	Monitors molybdenum contamination historically associated with TA-53 outfall	Alluvial	C	S	A	A	A				A		S	S		S	A		S
LAUZ-1	Monitors groundwater contamination associated with contaminated sediments in Reach DP-2	Alluvial	C	A	A	A	A				A		S	S		S	A		S

Table 2.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[f]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Upper Los Alamos Canyon (includes DP Canyon)																			
LAO-2	Most downcanyon alluvial groundwater monitoring point in DP Canyon. Monitors cumulative effects of contaminants in DP Canyon. Shows some mixing of alluvial groundwater from upper portions of Los Alamos Canyon.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-3a	Monitors net effect of mixing of groundwater from Los Alamos and DP Canyons.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-4.5c	Monitors for indications of downcanyon migration of contamination below Los Alamos/DP Canyon confluence.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAO-5, LAO-6, LAO-6a	Monitors potential contaminant migration from upper canyon and serves as facility boundary monitoring location. One or more of these wells may be dry so they are grouped as one location. The well with sufficient saturation will be sampled.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LAOI(a)-1.1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan. Background well.	Intermediate	C	S	S	S	A				A		S	S		S	A		S
R-7, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan.	Intermediate	C	S	S	S	A				A		S	S		S	A		S
R-7 screen 2[d]	Screen in this zone does not produce groundwater. No samples were collected during characterization phase sampling. The screen will be checked and sampled if water is present.	Intermediate	C	S	S	S	A				A		S	S		S	A		S
LAOI-3.2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan.	Intermediate	C	S	S	S	A				A	S		S		S	A		S
LAOI-3.2a	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan.		C	S	S	S	A				A	S		S		S	A		S

Table 2.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[f]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Upper Los Alamos Canyon (includes DP Canyon																			
R-9i, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Intermediate	C										S		S				S
R-9i screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Intermediate	C										S		S				S
R-6i	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan.	Intermediate	C	S	S	S	A				A	S		S		S	A		S
LAOI-7	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan	Intermediate	C	S	S	S	A				A	S		S		S	A		S
R-7, screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										S		S				S
R-6	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan. Suite downgraded from 2006 monitoring plan.	Regional	C										S		S				S
R-8, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this plan	Regional	C	S	S	S	A				A		S	S		S	A		S
R-8, screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Suite upgraded from 2006 monitoring plan.	Regional	C	S	S	S	A				A		S	S		S	A		S
R-9	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan	Regional	C	S	S	S	A				A		S	S		S	A		S

Table 2.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suitef	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Pueblo Canyon (includes Acid Canyon)																			
Guaje above Rendija Canyon (E089)	Lower extent of perennial flow in Guaje Canyon. Background base flow location	Base flow	S	S	A	A	A				A		S	S		S	A	S	S
Pueblo above Acid (E055)	Base line for Pueblo Canyon. Monitoring for assessing impacts of townsite runoff.	Base flow	C	S	A	A	A				A		S	S		S	A	S	S
Acid Above Pueblo (E056)	Monitors persistent surface water as baseline above confluence of Acid Canyon	Base flow	C	S	A	A	A				A		S	S		S	A	S	S
Pueblo 3	Base line for water quality below Bayo Wastewater Treatment Plant. Monitors downcanyon trend of contaminants measured at Reach AC-3 SW (Acid Weir).	Base flow	S	S	A	A	A			S	A		S	S		S	A	S	S
Pueblo above SR-502 (E060)	Boundary location	Base flow	C	S	A	A	A			S	A		S	S		S	A	S	S
PAO-1	Monitors groundwater immediately above Acid Canyon, the dominant source of contamination in Pueblo Canyon	Alluvial	C	A	A	A	A				A		S	S		S	A		S
PAO-2	Monitors groundwater immediately below Acid Canyon, the dominant source of contamination in Pueblo Canyon.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
PAO-3	Monitoring at a mid-canyon location	Alluvial	C	A	A	A	A			S	A		S	S		S	A		S
Pueblo Canyon (includes Acid Canyon)																			
PAO-4	Monitoring below Bayo WWTP to evaluate influence of effluent	Alluvial	C	A	A	A	A			S	A		S	S		S	A		S
APCO-1	Monitoring below Bayo WWTP to evaluate influence of effluent releases and impact of nutrients associated with waste water discharge. Most downcanyon monitoring point in Pueblo Canyon.	Alluvial	C	S	S	S	A			S	A		S	S		S	A		S
POI-4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Intermediate	C	S	S	S	A				A		S	S		S	A		S
R-5, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen dry, no available groundwater. A groundwater sample will be collected if water is detected.	Intermediate		S	S	S	A			S	A		S	S		S	A		S

Table 2.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[f]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Pueblo Canyon (includes Acid Canyon)																			
R-5, screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Indicator constituent suite pending outcome of network assessment.	Intermediate	C										S		S				S
R-2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	A				A		S	S		S	A		S
R-4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	A			S	A		S	S		S	A		S
R-5, screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C										S		S				S
R-5, screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										S		S				S
R-24	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	A			S	A		S	S		S	A		S
Lower Los Alamos Canyon																			
Los Alamos Canyon near Otowi Bridge (E110). Formerly Los Alamos above Rio (E110)	Measure water quality near confluence of Los Alamos Canyon and Rio Grande.	Baseflow	S	S	S	S	A				A		S	S		S	A	S	S
Basalt Spring	First groundwater monitoring point on San Ildefonso land.	Intermediate Spring	S	S	S	S	A				A		S	S		S	A	S	S
Los Alamos Spring	Basalt Spring is thought to represent intermediate groundwater. This location will provide monitoring for the intermediate zone in lower Los Alamos Canyon.	Intermediate Spring	S	S	S	S	A				A		S	S		S	A	S	S
GU-0.01 Spring	Located at confluence of Guaje and lower Los Alamos Canyon. Monitors for potential contaminants in Guaje Canyon.	Spring	S	S	S	S	A				A		S	S		S	A	S	S

Table 2.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[f]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
LLAO-1b	Monitoring upper portion of San Ildefonso Pueblo reach. Water quality is consistent with Basalt Spring.	Alluvial	C	A	A	A	A				A		S	S		S	A		S
LLAO-4	Monitors lower San Ildefonso Pueblo reach near confluence with Rio Grande. Water quality appears to reflect mixing with regional groundwater near the river.	Alluvial	C	A	A	A	A				A		S	S		S	A		S

a Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

b Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

c Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

d General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

e Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

f HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 3.3-1
Sandia Watershed Interim Monitoring Plan

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water level or Flow[a]	Analytical Suites															
				Metals[b, e]	Organics[b]						Radionuclides[b, c]			General Inorganics[b, d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Sandia Watershed																			
South Fork of Sandia Canyon at E122	Monitors water quality of baseflow that is predominantly from effluent from National Pollution Discharge Elimination System outfall 01A-001. Serves as base line for comparison to downcanyon changes in water quality.	Base flow	Q	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A	Q	Q
Sandia below Wetlands (E123)	Monitors water quality of flow from wetland.	Base flow	Q	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A	Q	Q
Middle Sandia Canyon at terminus of persistent baseflow	Most downcanyon characterization of water quality before surface water infiltrates into alluvium.	Base flow	Q	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A	Q	Q
SCA-1	One of a group of new alluvial wells installed under Chromium Interim Measures Work Plan. SCA-1 characterizes lower wetland area.	Alluvial	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCA-2	One of a group of alluvial wells installed under Chromium Interim Measures Work Plan. SCA-2 is located at the upper portion of the lower canyon where the valley floor first opens up and alluvial storage is available.	Alluvial	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCA-3	One of a group of alluvial wells installed under Chromium Interim Measures Work Plan. SCA-3 is located just below gage station E124.	Alluvial	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCA-4	One of a group of alluvial wells installed under Chromium Interim Measures Work Plan. SCA-4 is located approximately mid-way between SCA-3 and the eastern-most drainage from the TA-53 complex.	Alluvial	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCA-5	One of a group of alluvial wells installed under Chromium Interim Measures Work Plan. SCA-5 is located just downcanyon of the eastern-most drainage from the TA-53 complex.	Alluvial	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCO-1	Typically dry well since installed. Will be sampled if groundwater is present during sampling events.	Alluvial	Q	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
SCO-2	Typically dry well dry since installed. Will be sampled if groundwater is present during sampling events	Alluvial	Q	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-12, screen 1	This is the shallowest and most productive of the two intermediate screens at R-12.	Intermediate	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-12, screen 2	Water-level data only. Water quality data from screen 1.	Intermediate	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q

Table 3.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites: Metals[b,c]: TAL Metals + Cyanide & Mo	Organics[b]: VOC +TICs	Organics[b]: SVOC +TICs	Organics[b]: Pesticides	Organics[b]: PCB	Organics[b]: HEXP[f]	Organics[b]: Dioxins/Furans	Radionuclides[b,c]: RAD	Radionuclides[b,c]: Tritium	Radionuclides[b,c]: Low Level Tritium	General Inorganics[b, d]: Gen Inorganics	General Inorganics[b, d]: EES6 Screening Suite[g]	General Inorganics[b, d]: Low Level Perchlorate (LCMSMS)	General Inorganics[b, d]: Stable Isotopes	General Inorganics[b, d]: Suspended Sediment Concentration	Field Data[b]: DO,ORP, pH,SC,T,Trb
Sandia Watershed																			
SCI-1	New intermediate well installed under the Chromium Interim Measures Work Plan.	Intermediate	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-10, Screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-10, Screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-10a	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-11	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	Q	Q	Q	Q		Q		Q	Q		Q	A		Q
R-12, screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										S			S			S

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 4.3-1
Mortandad Canyon Watershed Interim Monitoring Plan

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b, c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Mortandad Canyon Watershed																			
E-1FW	Upper portion of Effluent Canyon. Surface water base line for Effluent tributary to Mortandad Canyon.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
Mortandad below Effluent Canyon (E200)	First surface water monitoring location in Mortandad below Effluent Canyon confluence.	Base flow	S	S	A	A	A			A	A	A		S		S	A	S	S
M-1W	Upper Mortandad Canyon. Surface water base line for Mortandad Canyon.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
M-1E	Measures cumulative upper Mortandad potential impacts just above confluence of Effluent Canyon.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
M-2E	Addresses distal end of persistent surface water in watershed. Target west end of reach for more consistent water.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
TS-1W	Monitors head of Ten Site drainage and potential local impacts from MDA C.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
TS-2E	Monitors cumulative impacts from TA-35 including Pratt Canyon.	Base flow	S	S	A	A	A			A	A		A	S		S	A	S	S
Pine Rock Spring	New spring under characterization.	Unknown	S	S	A	A	A			A	A		A	S		S	A	S	S
CDBO-1	No water found since installation. No samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-2	No water found since installation. No samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-3	No water found since installation. No samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S

Table 4.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites: Metals[b, c]															Field Data[b]
				Metals[b, c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Mortandad Canyon Watershed (continued)																			
CDBO-4	No water found since installation. No samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-5	No water found since installation. No samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-6	Monitoring required in Sanitary Wastewater Systems (SWS) Discharge Permit	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-7	Does not commonly have sufficient saturation to sample, but will be sampled if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-8	No water found since installation, no samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
CDBO-9	No water found since installation, no samples have been collected. Will collect sample if water is present.	Alluvial	S	S	A	A	A			A	A		A	S		S	A		S
MCO-0.6	Alluvial groundwater base line for upper Mortandad Canyon.	Alluvial	C	S	A	A	A			A	A		A	S		S	A		S
MCA-1	New well. Most downcanyon monitoring point in Mortandad Canyon before confluence of Effluent Canyon.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCO-2	Monitors potential contaminants in Effluent Canyon above the TA-50 outfall.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCA-5	New well, replacement for MCO-3. Monitors trends in alluvial groundwater quality following upgrades to the wastewater treatment facility.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCO-4B	Monitors trends in alluvial groundwater quality following upgrades to the wastewater treatment facility.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCO-5	Monitors trends in alluvial groundwater quality following upgrades to the wastewater treatment facility.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCO-6	MCO-6 is a better screen placement/configuration than MCO-6B.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
TSCA-6	New well in lower Ten Site Canyon. Integrates potential alluvial groundwater impacts from Ten Site Canyon.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S

Table 4.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
MCO-7	Near recent downcanyon extent of alluvial saturation. Monitors trends in alluvial groundwater quality following upgrades to the wastewater treatment facility.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCO-7.5	Monitors distal portion of alluvial groundwater saturation. Monitors trends in alluvial groundwater quality following upgrades to the wastewater treatment facility.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MT-2	These wells may not have saturation, but sample one of the three (MT-2, MT-3, or MT-4) if groundwater is present.	Alluvial	C	S	A	A	A			A	A	A		S		S	A		S
MCOI-8	This well does not show groundwater above the base of the screen. Only small amounts of water are appearing in the sump. The indicator suite will be analyzed until further notice.	Intermediate	C									S				S			S
MCOI-4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Intermediate	C	Q	Q	A	A			A	A	Q		Q		Q	A		Q
MCOBT-4.4	Recently not producing sufficient water to sample. Will be sampled if sufficient saturation is available.	Intermediate	C	Q	Q	A	A			A	A	Q		Q		Q	A		Q
MCOI-5	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Intermediate	C	Q	Q	A	A			A	A	Q		Q		Q	A		Q
MCOI-6	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Intermediate	C	Q	Q	A	A			A	A	Q		Q		Q	A		Q
R-1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Background well.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
TW-8	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-14, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q

Table 4.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
R-14, screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	Q							A			Q		Q				Q
R-33, screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite upgraded from 2006 Interim Plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-33, screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite upgraded from 2006 Interim Plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-15	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-16r	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.		C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-16 Screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C							A			Q		Q				Q
R-16 Screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-16 Screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C							A			Q		Q				Q
R-28	Part of interim monitoring network. Shows highest chromium concentration in regional groundwater. Key part of ongoing chromium investigation.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-13	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Background well.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q

Table 4.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
R-21	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Background well.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q
R-34	Located on San Ildefonso land. Monitors regional groundwater beneath lower Mortandad Canyon. Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	Q	Q	A	A			A	A		Q	Q		Q	A		Q

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 5.3-1
Pajarito Canyon (includes Two Mile and Three Mile Canyons Watershed Interim Monitoring Plan

Locations	Rationale for Selection of Locations	Surface Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b, c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Pajarito Watershed (includes Two Mile and Three Mile Canyons)																			
Pajarito 0.5 mi above SR-501 (PBF-B)	Background location in Pajarito Canyon. Located approx. 0.5 miles above State Road 502. Provides a basis for comparison to data from downstream locations.	Base Flow	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Pajarito below confluence of South and North Anchor East Basin (PBF-1)	Surface water in Pajarito Canyon below the confluences of South and North Anchor East Basin (below E242.5). Location selected to monitor potential cumulative impacts of PRSs in Anchor East basin.	Base Flow	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Two Mile Canyon below TA-59 (PBF-2)	Surface water in Twomile Canyon below TA-59. Location selected to monitor potential cumulative impacts of PRSs in upper Twomile basin.	Base Flow	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Two Mile above Pajarito (E244). Formerly PBF-3	Surface water base flow collected at gage station E244. Location selected to monitor potential cumulative impacts from upper Pajarito basin.	Base Flow	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Pajarito above Two Mile (E243). Formerly PBF-4.	Surface water baseflow collected at gage station E243. Location selected to monitor potential cumulative impacts from upper Twomile basin.	Base Flow	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Pajarito below TA-18 (PBF-5)	Surface water in Pajarito below TA-18. Location selected to monitor below TA-18 at road crossing near R-20.	Base Flow	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
PC Spring	Probably regional groundwater. Provides background water quality.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Homestead Spring	Likely spring with largest discharge. Downgradient of TA-9 (MDA M).	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Starmer Spring	Speculated to be intermediate water in Bandelier Tuff. Provides base line water quality upgradient of HE facilities.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Anderson Spring	Located in Twomile Canyon downgradient of TA-68 and above potential sources of contamination in TA-03.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Kieling Spring	Spring with history of HE contamination. Downgradient of TA-09.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Charlie's Spring	Monitors potential contamination from TA-08 area.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q
Bulldog Spring	Spring with history of HE contamination. Downgradient of TA-09.	Spring	S	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A	Q	Q

Table 5.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
TW-1.72 Spring	In Twomile Canyon, downgradient of TA-03 facilities.	Spring	S	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A	Q	Q
Threemile Spring	In Threemile Canyon, upgradient of TA-18 and downgradient of TA-15 firing site facilities.	Spring	S	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A	Q	Q
TA-18 Spring	In Threemile Canyon, upgradient of TA-18 and downgradient of TA-16 firing site facilities.	Spring	S	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A	Q	Q
18-BG-1/PCAO-6	Either use BG-1 or new well PCAO-6 to characterize base line relative to TA-18, New well PCAO-6 will be installed a little east of BG-1.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
3MAO-1/18-BG-4	Either use existing BG-4 or new installation. New well 3MAO-1 will be located just east of confluence with South Fork Three Mile Canyon. Characterizes cumulative potential impacts of PRSs in Three Mile Canyon and is base line relative to TA-18.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
18-MW-9	18-MW-9 included to monitor for potential contaminants associated with bldgs 18-31, 18-189, 18-29, and 18-37.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
18-MW-11	18-MW-11 included to monitor for potential contaminants associated with bldgs 18-147, 18-001, and 18-256.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
18-MW-8	In Three Mile Canyon downgradient of Critical Assembly Building in TA-18	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
18-MW-18	Useful monitoring point for potential releases associated with historical sewage lagoons on lower Pajarito Canyon.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCO-2	Will be included to monitor distal extent of alluvial groundwater saturation in lower Pajarito watershed. Maintains long-term record at that location.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCO-3	Will be included to monitor distal extent of alluvial groundwater saturation in lower Pajarito watershed. Maintains long-term record at that location.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCAO-B	New background well planned for upper Pajarito Canyon. Located west of State Road 4.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q

Table 5.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
PCAO-2	New well planned in Pajarito Canyon below the confluence of Starmer's Gulch. Monitors potential impacts of group of PRSs in the upper basin. Part of a group of new alluvial wells to be installed under NMED-approved work plan for Pajarito Canyon.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCAO-3	New well planned in Pajarito Canyon below the confluence of South Anchor East Basin. Monitors potential impacts of group of PRSs in the upper basin (mostly within TA-08). Part of a group of new alluvial wells to be installed under NMED-approved work plan for Pajarito Canyon.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCAO-4	New well planned in Pajarito Canyon approx. 800 meters above confluence with Twomile Canyon. Monitors potential impacts from PRSs in TA-40.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCAO-5	New well planned in Pajarito Canyon located just below the confluence of Twomile Canyon. Also located above the flood retention structure.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
PCAO-7a, 7b, 7c	Transect of new wells planned in Pajarito Canyon to characterize potential impacts from TA-18. The wells will be installed in a transect to capture potential variability in saturation or water quality.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
3MAO-2	New well planned within TA-18 at mouth of Three Mile Canyon. Characterizes potential impacts of TA-18 PRSs that are located within Three Mile Canyon.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q		Q	Q		Q	A		Q
TMO-1	New well planned at mouth of Two Mile Canyon. Characterizes cumulative potential impacts of PRSs throughout Twomile Basin.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q			Q		Q	A		Q
PCAO-8	New well planned near PCTH-5 (between PCO-2 and PCO-3). Characterizes potential impacts from runoff associated with TA-54.	Alluvial	C	Q	Q	Q	Q	Q	Q^{HMX}		Q	Q		Q		Q	A		Q
03-B-9	Near TA-3, SM-30. Monitored in support of project at SWMU 3-010(a).	Intermediate	Q	Q	Q	Q	Q	Q	Q^{HMX}		Q	Q		Q		Q	A		Q
03-B-10	Near TA-3, SM-30. Monitored in support of project at SWMU 3-010(a).	Intermediate	Q	Q	Q	Q	Q	Q	Q^{HMX}		Q	Q		Q		Q	A		Q
03-B-13	Near TA-3, SM-30. Monitored in support of project at SWMU 3-010(a).	Intermediate	Q	Q	Q	Q	Q	Q	Q^{HMX}		Q	Q		Q		Q	A		Q

Table 5.3-1 (continued)

				Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
R-19, screen 1	Dry. A sample will be collected if groundwater is present.	Intermediate	Q	Q	Q	Q	Q	Q	Q[HMX]		Q		A	Q		Q	A		Q
R-19, screen 2	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Intermediate	C										Q		Q				Q
R-23i, Screen 1	Part of interim monitoring network pending future well network assessment.	Intermediate	C	Q	Q	Q	Q	Q	Q[HMX]		Q	Q		Q		Q	A		Q
R-23i, Screen 2	Part of interim monitoring network pending future well network assessment. Indicator constituent suite pending outcome of network assessment.	Intermediate	C										S			S			S
R-17, Screen 1	Part of interim monitoring network pending future well network assessment. Indicator constituent suite pending outcome of network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A		Q
R-17, Screen 2	Part of interim monitoring network pending future well network assessment. Indicator constituent suite pending outcome of network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A		Q
R-18	Part of interim monitoring network pending future well network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A		Q
R-19, screen 3	Part of interim monitoring network pending future well network assessment.	Regional	C						Q[HMX]				Q		Q		A		Q
R-19, screen 4	Part of interim monitoring network pending future well network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A		Q
R-19 screen 5	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										Q		Q				Q
R-19 screen 6	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										Q		Q				Q

Table 5.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
R-19 screen 7	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										Q		Q				Q
R-20, screen 1	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Offline as of this writing, pending final resolution of path forward. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								Q		Q				Q
R-20, screen 2	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Offline as of this writing, pending final resolution of path forward. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								Q		Q				Q
R-20, screen 3	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Offline as of this writing, pending final resolution of path forward. Suite downgraded from 2006 monitoring plan. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								Q		Q				Q
R-22, screen 1	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										Q		Q				Q
R-22, screen 2	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		Q	Q		Q	A		Q
R-22, screen 3	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Suite downgraded from 2006 monitoring plan. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								Q		Q				Q

Table 5.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
R-22, screen 4	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C										Q		Q				Q
R-22 screen 5	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								Q		Q				Q
R-23	Part of interim monitoring network pending future well network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		A	Q		Q	A		Q
R-32, screen 1	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C	Q	Q	Q	Q	Q	Q[HMX]		Q		A	Q		Q	A		Q
R-32, screen 3	Part of interim monitoring network pending future well network assessment. Screen in this zone is impacted by residual drilling fluids. Suite downgraded from 2006 monitoring plan. Indicator constituent suite pending outcome of network assessment.	Regional	C		Q								A		Q				Q

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 6.3-1
Water (Includes Cañon del Valle, Potrillo Canyon, and Fence Canyon) Watershed Interim Monitoring Plan

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites: Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Water Watershed (includes Cañon del Valle, Potrillo Canyon, and Fence Canyon)																			
Water above SR-501 (E252)	Characterization for CME	Base flow	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
Cañon de Valle (CdV) below MDA P (E256).	Characterization for CME	Base flow	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
Base flow station between E252 and Water at Beta	Characterization for CME	Base flow	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
Water at Beta.	Characterization for CME	Base flow	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
CdV-5.29 Spring	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
Water Canyon Gallery	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
Peter Spring	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
SWSC Spring	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
Burning Ground Spring	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
Fish Ladder Seep	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
Martin Spring	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
WA-625	Characterization for CME	Spring	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
CdV-16-2655	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
CdV-16-2656	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
CdV-16-2657	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
CdV-16-2658	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
CdV-16-2659	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}	A	A		A	S		S	A	S	S
MSC-16-06293	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}				A	S		S	A	S	S
MSC-16-06294	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}				A	S		S	A	S	S
MSC-16-06295	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}				A	S		S	A	S	S
CdV-16-25278	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
CdV-16-25279	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
CdV-16-25280	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
MSC-16-06295	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}				A	S		S	A	S	S
CdV-16-25278	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S

Table 6.3-1 (continued)

				Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
CdV-16-25279	Characterization for CME	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
CdV-16-25280	Characterization for corrective measures evaluation.		C	S	S	A	A	A	S^{HMX}		A		A	S		S	A	S	S
WCO-1	Well historically dry. Will be sampled if sufficient saturation is present.	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
WCO-2	Well historically dry (except for 2005). Will be sampled if sufficient saturation is present.	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
WCO-3	Well historically dry. Will be sampled if sufficient saturation is present.	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
FCO-1	Well dry since installed. Check for water during the wet seasons and sample if sufficient water is present.	Alluvial	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-25, Screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Intermediate	C						S^{HMX}				S		S				S
R-25, Screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Intermediate	C						S^{HMX}				S		S				S
CdV-37-2	Dry, no groundwater. Will collect a sample if water is present.	Intermediate	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-16-1(i), Screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Intermediate	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-16-2(i)r, Screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite downgraded from 2006 monitoring plan.	Intermediate	C						S^{HMX}				S		S				S
CdV-15-3[d], Screens 1-3	Dry, no groundwater. A sample will be collected if groundwater is present.	Intermediate	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-15-3, Screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-15-3 Screen 5	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C						S^{HMX}				S		S				S

Table 6.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
CdV-15-3 Screen 6	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-26, Screen 1	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-26, Screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-25, Screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C						S^{HMX}				S		S		A		S
R-25, Screen 5	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Screen in this zone is impacted by residual drilling fluids. Indicator constituent suite pending outcome of network assessment.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-25, Screen 6	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-25, Screen 7	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-25, Screen 8	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
R-27	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-37-2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite downgraded from 2006 monitoring plan.	Regional	C						S^{HMX}				S		S				S

Table 6.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
CdV-37-2 Screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	A	A	A	S^{HMX}		A		A	S		S	A		S
CdV-37-2 Screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite downgraded from 2006 monitoring plan.	Regional	C						S^{HMX}				S		S				S

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constituents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 7.3-1
Frijoles, Ancho and Chaquehui Watersheds Interim Monitoring Plan

				Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer[a]	Water level or Flow	TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Ancho Watershed																			
Ancho at Rio Grande	Historical annual sampling site	Base flow	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
39-UM-3	Historically dry. Will collect groundwater sample in the event water is present.	Alluvial	S	S	S	S	S	S	S^{HMX}		S		S	S		S	S		S
39-DM-6	Historically dry. Will collect groundwater sample in the event water is present.	Alluvial	S	S	S	S	S	S	S^{HMX}		S		S	S		S	S		S
R-31,[d] screen 1	Dry. Will check each time well is sampled and collect a groundwater sample if water is present	Intermediate	S	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S
DT-5A	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S
DT-9	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S
DT-10	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S
R-31, Screen 2	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan. Suite downgraded from 2006 monitoring plan.	Regional	C						S^{HMX}				S		S				S
R-31, Screen 3	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C						S^{HMX}				S		S				S
R-31, Screen 4	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S
R-31, Screen 5	Part of interim monitoring network pending well network assessment described in Section 1.5 of this work plan.	Regional	C	S	S	S	S	S	S^{HMX}		A		S	S		S	A		S

Table 7.3-1 (continued)

Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer[a]	Water level or Flow	Analytical Suites: Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]					Field Data[b]
				TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Chaquehui Canyon																			
Doe Spring	See Table 8.3-1																		
Frijoles Canyon																			
Rio de los Frijoles at Bandelier (E350)	Annual sampling at this location.	Base flow	S	S	S	S	S	S			A		S	S		S	A	S	S
Frijoles at Rio Grande	Perimeter station for LANL	Base flow	A	A	A	A	A	A			A		A	A		A	A	S	A

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year).
Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Table 8.3-1
White Rock Canyon and Rio Grande Watershed Interim Monitoring Plan

				Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]				General Inorganicsb[d]			Field Data[b]	
Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suite[g]	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
White Rock Canyon and Rio Grande																			
Sacred Spring	Offsite spring, monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
La Mesita Spring	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 1	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 2	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Sandia Spring (new location)	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 2B	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 3	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 3A	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 3AA	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 4	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 4B	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 4C	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 4A	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}	A	A		S	S		S	A	S	S
Spring 4AA	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}	A	A		S	S		S	A	S	S
Spring 5	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}	A	A		S	S		S	A	S	S
Ancho Spring	Monitors regional aquifer downgradient from LANL.	Spring	S	S	S	S	A	A	S^{HMX}		A		S	S		S	A	S	S
Spring 5A	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}	A	A		A	A		A	A	A	A
Spring 5B	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}	A	A		A	A		A	A	A	A

Table 8.3-1 (continued)

				Analytical Suites															
				Metals[b,c]	Organics[b]						Radionuclides[b,c]			General Inorganics[b,d]				Field Data[b]	
Locations	Rationale for Selection of Locations	Surface-Water Body or Source Aquifer	Water Level or Flow[a]	TAL Metals + Cyanide & Mo	VOC +TICs	SVOC +TICs	Pesticides	PCB	HEXP[f]	Dioxins/Furans	RAD	Tritium	Low Level Tritium	Gen Inorganics	EES6 Screening Suiteg	Low Level Perchlorate (LCMSMS)	Stable Isotopes	Suspended Sediment Concentration	DO,ORP, pH,SC,T,Trb
Spring 6	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}	A	A		A	A		A	A	A	A
Spring 6A	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 6AAA	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 7	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 8	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 8A	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 9	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 9A	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 9B	Monitors regional aquifer downgradient from LANL. Background location.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Doe Spring	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A
Spring 10	Monitors regional aquifer downgradient from LANL.	Spring	A	A	A	A	A	A	A^{HMX}		A		A	A		A	A	A	A

[a] Sampling frequency: C = continuous; Q= quarterly (4 times/year at set time periods); S= semiannual (2 times/year at set time periods); A = annual (1 time a year). Continuous monitoring for groundwater refers to the measurement of groundwater-level measurements by a transducer placed in a well and programmed to collect groundwater-level measurements at highly frequent intervals (e.g., every 60 min daily throughout the year). Continuous stream-flow monitoring refers to the measurement of stream flow by a base-flow stream gage that is programmed to collect stream-flow measurements at highly frequent intervals.

[b] Nonfiltered and filtered samples will be collected for general inorganics (excluding anions) and metals. Anions and perchlorate samples will be filtered. Samples collected for radionuclide analysis will be filtered and nonfiltered for all water media, excluding tritium, which is nonfiltered only. Organic constitutents are nonfiltered for all water media. Stable isotope samples are nonfiltered as well. Field parameters pH, turbidity (Trb), specific conductance (SC), dissolved oxygen (DO), and temperature (T) will be measured at all locations. Oxidation-reduction potential (ORP) will be measured if a flow-through cell is utilized and will not be measured in surface water, spring water, or water collected from Westbay sampling systems unless specified.

[c] Rad (radiological) suite includes gross alpha, gross beta, alpha spec, strontium-90, and generic or low-level tritium.

[d] General inorganic analytes include major ions, TDS, select trace metals (trace elements); trace anions, silica, nitrate+nitrate (as N), total Kjeldahl nitrogen (TKN), total organic carbon, and total suspended solids (TSS) in base-flow samples..

[e] Metals analysis includes the 23 TAL (target analyte list) metals, plus total cyanide and molybdenum where specified. Analyses of trace elements and metals will be the same as in the Environmental Surveillance Program (2001 and past years) plus select additional analytes.

[f] HMX = Designates analysis for the RDX degradation compound hexahydro-1-nitro-3, 5-dinitro-1,3,5-trinizine (MNX), hexahydro-1,3-dinitroso-3-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX).

Appendix A

Watershed Conceptual Models

Tables

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Table A-1
Los Alamos Canyon and Pueblo Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
Surface Water	Flow	Perennial flow originates from springs and interflow through hillslope soils in the upper watershed. The downcanyon extent of perennial flow is variable but generally terminates in the upper portions of Los Alamos Canyon west of Technical Area (TA) 41. The magnitude of snowmelt runoff is the predominant factor affecting the duration and extent of surface water flow. The remainder of upper Los Alamos Canyon down to its confluence with Pueblo Canyon has intermittent surface water flow. Segments that have persistent flow for most of the year or during periods of extended snowmelt runoff sometimes exhibit interrupted flow. Delta Prime (DP) Canyon is ephemeral, although some persistent surface water is sometimes observed in small, shallow bedrock pools, generally less than a few meters across, which are filled by runoff originating in the southeastern portion of the Los Alamos townsite. Flow sometimes exists for very short distances in Reach DP-2 because of discharge of groundwater stored within alluvium, and immediately above, in Reach DP-4, where groundwater discharges at DP Spring.	Surface water flow in upper Pueblo and Acid Canyons is generally ephemeral with runoff events caused by summer storms. Locally persistent surface water flow in the upper canyon is associated with townsite runoff and snowmelt runoff. Gage data (E055) are available for 2002 and 2003, showing that surface water rarely flows through the length of upper Pueblo Canyon; only 14 days of this flow occurred in 2002. In the South Fork of Acid Canyon, the channel is bedrock dominated, and stormwater runoff and periodic releases of water from the Walkup Center swimming facility result in small pools of water that persist for several weeks or even months in narrow and confined and/or shaded canyon areas. In lower Pueblo Canyon, effluent-dependent flow is present for about 3 km in lower Pueblo Canyon from the discharge from the Los Alamos County Wastewater Treatment Plant (WWTP). The flow extends to the confluence with Los Alamos Canyon. In water year 2002, gaging station E060 below the WWTP measured 357 days of flow (Shaull et al. 2002, 085499).	Surface water flow in lower Los Alamos Canyon is from Basalt Spring and a lesser amount from LA Spring. The flow from Basalt Spring and the downcanyon extent of surface water flow depends on the amount of water that is discharged from the WWTP. At times of high discharge, flow can be continuous for approximately 7.5 km to the confluence with the Rio Grande. During periods of low discharge, flow may only extend from 1 to 3 km. Within approximately 1–2 km of the confluence with the Rio Grande, surface water flow is common and believed to be related to discharge of deep groundwater to the surface.

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
Springs	Flow	Discharge at DP Spring is highly variable, generally ranging from 0 to less than 1 gal./min, and has been observed to respond rapidly to stormwater runoff from upper DP Canyon. Surface water flow generally extends for less than 50 ft downcanyon from the point where spring flow joins the stream channel.	There are no springs in Pueblo Canyon.	Basalt Spring is recharged by water from the WWTP in Pueblo Canyon. It has variable estimated discharge rates ranging from 1 to 10 gal./min. LA Spring discharges along the south slope of the canyon approximately 300 meters downstream of Basalt Spring.
Alluvial Groundwater	Extent/Hydrology	Alluvial saturation extends from west of the Los Alamos National Laboratory (LANL or the Laboratory) boundary downcanyon for variable distances. During dry years, and especially during years with limited spring snowmelt runoff, saturation may not extend to LAO-4c. Alluvial monitoring wells as far down upper Los Alamos Canyon as LAO-4.5c had water for sampling for the first three of four Resource Conservation and Recovery Act facility investigation (RFI) sampling rounds conducted in 2001 and 2002. LAO-6a, the most downcanyon alluvial monitoring well in upper Los Alamos Canyon, only had water sufficient for sampling during the round of sampling conducted in the spring of 2001. Monitoring well LAO-B, located on U.S. Forest Service land approximately 0.7 km west of the Laboratory boundary, shows very consistent water levels throughout the year with little interannual variability.	Alluvial groundwater occurs in two distinct modes. Wells located upcanyon of the WWTP show groundwater level variations closely tied to precipitation and associated flood events and to winter and spring snowmelt. The extent of saturation is seasonally variable, but often extends downcanyon to the portion of the canyon where effluent from the Bayo WWTP is discharged into the canyon. Below the WWTP, saturated conditions occur year-round, but the degree of saturation is variable because of changes in runoff and the volume of effluent released throughout the year. The variation in water-level elevations downcanyon of the WWTP is controlled primarily by seasonal routing of effluent for uses such as irrigation for the municipal golf course.	Groundwater saturation in most of lower Los Alamos Canyon down to the area around LLAO-4 is related to infiltration of surface water discharged from Basalt Spring, which is hydrologically linked to surface water discharged from the Bayo WWTP into Pueblo Canyon (LANL 1995, 050290). Groundwater levels in the upper portion of lower Los Alamos Canyon are highly variable and are related to seasonal variations in discharge rates from the WWTP and to floods from upper Los Alamos and Pueblo Canyons. In the lowermost portion of lower Los Alamos Canyon, the water-level record from LLAO-5 shows relatively constant saturation with much less variability than is exhibited in the upper portions of lower Los Alamos Canyon. The geochemistry of groundwater from LLAO-5 indicates that alluvial groundwater in the lower-most portion of the watershed represents mixing of waters from Los Alamos Canyon and regional groundwater discharging to the Rio Grande.

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
	Extent/Hydrology (cont.)	Further downcanyon, alluvial groundwater levels show rapid response to heavy precipitation in the summer and fall. Water levels also rise in response to late winter and early spring snow melt runoff. This recharge mechanism is not entirely caused by infiltration from the stream bed, but may also be related to underflow within the alluvium. In DP Canyon, two separate alluvial saturated zones exist: one in Reach DP-2 and the other in Reach DP-4. In general, groundwater level variations in DP Canyon are directly related to runoff generated in the Los Alamos townsite throughout the year. Alluvial groundwater monitoring wells in Reach DP-2 consistently show some amount of saturation. The second saturated zone is separated from Reach DP-2 by a bedrock-dominated portion of the canyon. Intermittent flow from DP Spring recharges the alluvium in Reach DP-4. This alluvial groundwater is a component of the groundwater observed in well LAO-2 at the confluence of DP and Los Alamos Canyons. Contaminants unique to the portion of upper Los Alamos Canyon above the confluence with DP Canyon (e.g., molybdenum) are detected in LAO-2, indicating that mixing of groundwater from distinct sources occurs in this area.		
	Depth/Thickness			

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
Intermediate Groundwater	Extent/Hydrology	Intermediate-depth perched groundwater beneath Los Alamos Canyon has variable depth and lithology of the saturated zones. Intermediate-depth groundwater was encountered near the top of the Puye Formation (below the Guaje Pumice Bed) at approximately 680 ft below ground surface (bgs) in R-7 in the Guaje Pumice Bed, at 325 ft in LADP-3, and at 295 ft in LAOI(A)-1.1. Deeper saturation was also encountered at about 317 ft in the Puye Formation in borehole LAOI(A)-1.1 within the Guaje Pumice Bed. Intermediate-depth perched groundwater was also encountered during drilling of supply well O-4 near the confluence with DP Canyon (Stoker et al. 1992, 058718). Zones of intermediate-depth perched groundwater occur within Cerros del Rio Basalts at approximately 179 ft and 264 ft at well R-9i in the lower portion of upper Los Alamos Canyon.	Intermediate-depth groundwater occurs beneath Pueblo Canyon. At Test Well 2A, in the middle portion of Pueblo Canyon, the perched groundwater occurs within the Puye Formation at a depth of approximately 120 ft bgs. In lower Pueblo Canyon, in TW-1A and POI-4 perched groundwater was encountered within Cerros del Rio basalts at a depth of about 188 ft bgs. This intermediate perched zone may be one source of water contributing to the flow from Basalt Spring in Los Alamos Canyon.	.
	Depth/Thickness			
Regional Aquifer	Depth/Hydrology	Depth to the regional aquifer in upper Los Alamos Canyon is about 900 ft bgs in the Puye Formation at R-7 in the upper portion of the canyon and 688 ft bgs in Santa Fe Group basalts at R-9 in the lower portion of upper Los Alamos Canyon (Broxton et al. 2001, 071250; Stone et al. 2002, 072717).	Depth to the regional aquifer is known from several locations in Pueblo Canyon and ranges from approximately 890 ft bgs at R-2 in upper Pueblo Canyon to approximately 650 ft bgs at TW-1 in lower Pueblo Canyon. Historical data indicate that recharge pathways between alluvial groundwater and deeper zones of saturation exist beneath Pueblo Canyon. A discussion of the data is presented below.	Discussions of regional groundwater beneath lower Los Alamos Canyon are presented in a section of the monitoring plan that addresses San Ildefonso Pueblo and White Rock Canyon.
Contaminants	Potential Sources	TA-01, TA-02, TA-41, TA-21	TA-00, TA-01, and TA-45	

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
	Type	TA-01 Hillsides 137, 138, and 140 received discharges from septic tank outfalls from 1943 to the late 1950s. Radionuclides are the primary contaminants at these hillside sites, although some metals contamination is also present. TA-02 housed a series of research nuclear reactors, including the Omega West Reactor, which was a source of tritium releases into alluvial groundwater. Other solid waste management units (SWMUs) at TA-02 include leach fields for water boiler reactors. Cesium-137 and strontium-90 are the primary contaminants associated with the leach fields, and strontium-90 has historically been detected in alluvial groundwater monitoring wells downcanyon of the site. TA-41 was used for weapons development and long-term studies of weapon subsystems. The primary contaminant sources are a septic system and a sewage treatment plant. Initial data from these SWMUs indicate radionuclides at levels above background, but characterization of TA-41 is incomplete. TA-21 was the site of a plutonium processing plant and polonium and tritium research laboratories. Outfalls were the primary source of radionuclide contaminants in DP and upper Los Alamos Canyons. Radionuclides, particularly cesium-137 and strontium-90, are the primary contaminants discharged from this outfall.		

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
	Type (cont.)	TA-53 includes a proton accelerator and associated experimental and support buildings used for research with subatomic particles; it is the current site of the Los Alamos Neutron Science Center (LANSCE) (LANL 1994, 034756). The accelerator became fully operational in 1974. Occasional releases occurred from three surface impoundments at the east end of TA-53, referred to as Consolidated Unit 53-002(a)-99. These releases have contributed contamination to an unnamed tributary drainage to Los Alamos Canyon. The impoundments received sanitary, radioactive, and industrial wastewater from various TA-53 buildings as well as septic tank sludge from other Laboratory buildings. The northern impoundments were active from the early 1970s to 1993. The southern impoundment was active from 1985 to 1998. Inorganic chemicals, organic chemicals, and radionuclide contaminants have been identified at the impoundments and in the drainage (LANL 1998, 058841).		

Table A-1 (continued)

Conceptual Model Element	Characteristic	Upper Los Alamos Canyon (including DP Canyon)	Pueblo Canyon (including Acid Canyon)	Lower Los Alamos Canyon
	Type (cont.)	SWMU 21-018(a), Material Disposal Area (MDA) V received liquid waste effluent from laundry operations and includes three absorption beds on the south side of DP Mesa that sometimes overflowed into Los Alamos Canyon (LANL 1991, 007529; LANL 1996, 054969). Sediment sampling in 1946 documented that plutonium from this source was entering the main channel in Los Alamos Canyon (Kingsley 1947, 004186). Additional outfalls that discharged off the south rim of DP Mesa include those from SWMUs 21-023(c), 21-024(b), 21-024(c), 21-024(i), and 21-027(a) (LANL 1991, 007529; (LANL 1995, 052350). SWMU 21-029, the DP Tank Farm, was a fuel distribution station with above-ground and underground fuel tanks from 1946 to 1985. Diesel range organic and gasoline range organic hydrocarbon contamination was identified at two areas of bedrock seeps in the DP Canyon channel and observed to periodically form a sheen in surface water adjacent to the site (LANL 1996, 052270; LANL 2001, 071303; LANL 2001, 073436). The other MDAs at TA-21 are not considered to contribute important releases into the canyons.	Septic tank outfall occurred on the south rim of Acid Canyon in the 1940s and contained plutonium-239/240 and polychlorinated biphenyls (PCBs). Former Pueblo Canyon WWTP operated from 1951 to 1991. Sludge from the Pueblo Canyon WWTP contained metals at levels above background. Former Central WWTP operated from 1947 to 1961. Metals and organic chemicals, including mercury and dichlorodiphenyl-trichloroethane were contaminants identified at the outfalls. Outfalls from former TA-01 and former TA-45 were the most significant sources of radionuclide and other contamination in Acid and Pueblo Canyons. TA-45 was the site of the first radioactive liquid waste treatment facility (RLWTF). TA-01 outfalls into Acid Canyon were not treated. Plutonium-239/240 is the primary contaminant, although other radionuclides, metals, and some organic chemicals are also present	

Table A-2
Sandia Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Upper Sandia Canyon (from TA-03 to bottom of State Highway 4 hill, west TA-53)	Middle Sandia Canyon (bottom of Truck Route hill to State Highway 4)	Lower Sandia Canyon (State Highway 4 to Rio Grande)
Surface Water	Flow	Flow is mainly from effluent discharges (about 330,000 gal./day). Flow is perennial for 2 to 2.5 mi from TA-03 (gage E123) to the western edge of TA-53 Intermittent for short reach near bottom of Truck Route hill and stream flow loss is pronounced.	Ephemeral at gage stations E124 and E125	Lower Sandia Canyon is ephemeral except for an intermittent reach of a few hundred yards supported by Sandia Spring approximately 0.5 mi from the Rio Grande.
Springs	Name	There are no springs in this reach.	There are no springs in this reach.	Sandia Spring discharges ~1gal./min approximately 0.5 mi from Rio Grande
Alluvial Groundwater	Extent	No alluvial wells presently in this reach. Alluvial saturation is likely within limited alluvial sediments because of effluent discharges.	Absent in eastern portion of reach. Test drilling in western portion suggests saturation in canyon south of LANSCE, but no alluvial wells are currently located in this portion of the canyon. Several new wells are planned for installation in 2006.	Not known; likely dry except below Sandia Spring
	Depth/Thickness			
Intermediate Groundwater	Extent/Hydrology	No information available. Some intermediate water likely to be present beneath stream channel because of perennial flow conditions.	Lateral extent not certain; however, R-11, R-12, and PM-1 encountered an intermediate perched zone. Test drilling suggests limited saturation in Cerro Toledo south of LANSCE at 30 to 60 ft depth.	R-10 and R-10a identified intermediate water in this area.
	Depth/Thickness		Zone in R-12 from 443 to 519 ft depth. Water level stabilized at 424 ft.	Intermediate zone was encountered at approximately 340 ft bgs.
Regional Aquifer	Depth/Hydrology	No regional aquifer wells in this reach of canyon	Penetrated by four wells in this reach: R-12, PM-1, PM-3, and R-11. Encountered at 805 ft in R-12. Higher static water level in PM-1 suggests upward flow near State Highway 4. Large-scale pumping at PM-1 and PM-3 may pull water in from adjacent canyons: Los Alamos or Mortandad.	R-10 and R-10a show regional groundwater at approximately 671 ft bgs.

Table A-3
Mortandad Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	**Flow**	Mortandad Canyon and its tributaries are ephemeral. With the exception of gaging station E200, which measures flow created by discharge of treated effluent from the TA-50 RLWTF, all other gaging stations measured flow only in response to precipitation. In the period 1995–2002, gage E200 measured flow 64% of the year, whereas the other gages (E202, E203, E204) measured no flow. Operating National Pollutant Discharge Elimination System (NPDES)-permitted outfalls associated with Mortandad Canyon include 051 associated with the TA-50 RLWTF; 03A-021 associated with the Chemistry and Metallurgy Research Laboratory at TA-03; 03A-022 associated with the Sigma Building at TA-03; 03A-045 associated with the Rad Chem Laboratory at TA-48; 03A-160 associated with Antares Target Hall at TA-35; 03A-181 associated with a utility building at TA-55; and 04A-166 associated with water supply well Pajarito Mesa #5. Cañada del Buey within the Laboratory boundary is ephemeral, based on flow data from three gages: E218, E230, and E225. In the period from 1995 to 2002, the number of days of flow per year ranged from 38 at the gage near TA-46 to zero near MDA G. Cañada del Buey east of the Laboratory, has effluent-supported flow from the Los Alamos County sewage treatment plant in White Rock, which discharges into Cañada del Buey about 2 mi upstream of its confluence with Mortandad Canyon, and results in effluent-supported surface flow that regularly extends to the Rio Grande. Operational NPDES-permitted outfalls associated with Cañada del Buey include 13S associated with the TA-46 Sanitary Wastewater Systems Consolidation (SWSC) Plant (effluent is sampled at 13S but not discharged; all SWSC effluent is routed to TA-03) and 04A-118 associated with water supply well Pajarito Mesa #4.
Springs	**Name**	No springs are present in the Mortandad Canyon.
Alluvial Groundwater	**Extent**	Based on water levels observed in Mortandad Canyon alluvial wells, a saturated zone in the alluvium extends downstream from the TA-50 RLWTF outfall for approximately 2.2 mi. The easternmost extent of saturation in the alluvium is estimated near wells MCO-8 and MCO-8.2. In Cañada del Buey, nine alluvial wells were installed, but only two occasionally contain groundwater.
	Depth/Thickness	The saturated portion of the Mortandad Canyon alluvium is generally less than 10 ft thick and there is considerable variation in saturated thickness depending on the amount of precipitation and runoff in any particular year. Groundwater flow velocity in the alluvium varies from about 60 ft/day in the upper canyon to about 7 ft/day in the lower canyon and has been estimated to be 30 to 40 ft/day between MCO-5 and MCO-8.2.
Intermediate Groundwater	**Extent/Hydrology**	Perched groundwater was encountered during drilling of R-15 and MCOBT-4.4 in two different stratigraphic levels within the Cerros del Rio basalt. The lateral extent of these intermediate-depth perched zones is unknown.
	Depth/Thickness	At MCOBT-4.4, a single screen set in a perched zone within the upper Puye Formation/Cerros del Rio basalt at a depth of 524 ft bgs. In R-15, perched groundwater was encountered at a depth of 646 ft bgs in the lower portion of the Cerros del Rio basalt.

Table A-3 (continued)

Conceptual Model Element	Characteristic	Description
Regional Aquifer	**Depth/Hydrology**	The regional water table occurs within the Puye Formation in the Mortandad Canyon watershed. In Ten Site Canyon, approximately 3700 ft west of the confluence with Mortandad Canyon, the regional aquifer was encountered at a depth of 1182 ft in well R-14. In Test Well 8, located in Mortandad Canyon approximately 1300 ft west of the confluence with Ten Site Canyon, the regional aquifer occurs at a depth of 994 ft. The regional aquifer was encountered at a depth of 964 ft in R-15, located in Mortandad Canyon approximately 2000 ft east of the confluence with Ten Site Canyon. In well R-13, located approximately 5800 ft east-southeast of R-15, the regional aquifer was encountered at a depth of 833 ft. Flow in the regional aquifer is generally west to east with some deviation due to pumping the Pajarito Mesa well field. However, the flow tends to come back toward the east due to pumping of other wells. Average flow velocity for the regional aquifer in the vicinity of Mortandad Canyon is estimated to be about 95 ft/yr.
Contaminants	**Potential Sources**	A description of potential release sites (PRSs) in the Mortandad watershed is provided in "Work Plan for Mortandad Canyon." The canyon passes through or is adjacent to current Laboratory TA-03, -05, -35, -46, -48, -50, -51, -52, -54, -55, -59, -60, and -63. PRSs in Cañada del Buey are provided in the "Work Plan for Sandia Canyon and Cañada del Buey." Cañada del Buey has been a buffer zone for surface and subsurface material disposal areas at TA-54 and for effluent disposal, mostly from former TA-04. It also received discharges from TA-46, -51, and -52. Outfall discharges into Mortandad Canyon are described in the "Work Plan for Mortandad Canyon." Mortandad Canyon and its tributaries have received effluent from the Laboratory since the early 1950s. Outfall discharges into the Cañada del Buey drainage are described in the Work Plan for Sandia Canyon and Cañada del Buey. Cañada del Buey received effluent from the Laboratory from the 1950s to the 1990s.
	Type	TA-03 activities include administrative offices and support facilities plus various division laboratories and technical shops. TA-05 contains some physical support facilities, tests wells, and environmental monitoring and buffer areas. TA-35 activities include research laboratories for nuclear safeguards research and development, reactor safety, laser fusion, optical sciences, pulsed-power systems, high energy physics, tritium fabrication, metallurgy, ceramic technology, and chemical plating. TA-46 activities include research laboratories for applied photochemistry and organic and materials chemistry plus environmental management operations and the Sanitary Wastewater System Facility. TA-48 activities include research on nuclear and radiochemistry, geochemistry, biochemistry, and actinide chemistry. TA-50 activities include management and processing of industrial liquid and radioactive liquid wastes and it houses the RLWTF. TA-51 activities include environmental research and experimental studies for radioactive waste storage. TA-52 activities include research on nuclear reactor performance and safety. TA-54 activities include radioactive solid and hazardous chemical waste management and disposal operations. TA-55 activities include plutonium processing and research on plutonium metallurgy. TA-59 activities include occupational health and safety management, environmental management, and emergency management. TA-60 contains physical support and infrastructure facilities including the Test Fabrication Facility and Rack Assembly and the Alignment Complex. TA-63 contains physical support facilities and activities include environmental and waste management functions and facilities. The effluent discharged from TA-03, TA-35, TA-48, and TA-50 has contained a variety of contaminants, including nitrate, perchlorate, chromium, tritium, cesium-137, strontium-90, americium-241, and several isotopes of uranium and plutonium.

Table A-4
Pajarito Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Pajarito Canyon	Twomile Canyon	Threemile Canyon
Surface Water	Flow	Surface water occurs in Pajarito Canyon mostly as intermittent flow. Short reaches of perennial flow occur downstream of spring discharges in Starmers Gulch and below the 4-series springs in White Rock Canyon. Surface water flow is ephemeral in central Pajarito Canyon between the confluences with Twomile and Threemile Canyons. Flow is also ephemeral through White Rock.	Flow is ephemeral west of TA-03 and is possibly intermittent from TA-03 to the confluence with Pajarito Canyon.	Threemile Canyon is ephemeral except for a possibly intermittent reach supported by springs above the confluence of Threemile and Pajarito Canyons.
Springs	Name	In the western portion of Pajarito Canyon, springs issue from canyon slopes above the alluvium. The probable source of these springs is the upper part of the Tshirege Member of the Bandelier Tuff. Typical discharge rates are approximately 1 to 15 gal./min. Springs include PC, Homestead, Upper Starmer, Charlies, Garvey, Perkins, Starmer, and Josie Springs, Keiling, and Bulldog Springs.	Springs issue from the canyon floor of upper Twomile Canyon in TA-03 and -58. These springs include Hanlon, Anderson, SM-30, SM-30A, and TW-1.72 Springs.	There are two springs on the floor of Threemile Canyon. These springs include Threemile and TA-18 Springs.

Table A-4 (continued)

Conceptual Model Element	Characteristic	Pajarito Canyon	Twomile Canyon	Threemile Canyon
Alluvial Groundwater	Extent	There are no alluvial wells in western Pajarito Canyon, so information about the nature and extent of alluvial groundwater is limited. Most likely, infiltration of surface water creates a saturated zone where alluvium is present from the Pajarito fault zone across the Laboratory to White Rock. Alluvial wells have been installed between TA-18 and State Highway 4. These wells demonstrate the presence of alluvial groundwater in this part of Pajarito Canyon. The drilling of seven test holes in 1985 showed that the saturation in lower Pajarito Canyon does not extend laterally under Mesita del Buey near MDAs G and L (Devaurs 1985, 007416; Devaurs and Purtymun 1985, 007415). Three of the alluvial test holes were completed as groundwater monitoring wells (PCO-1, -2, and -3). An additional 20 alluvial wells were installed between 1990 and 1998 by the Environmental Restoration (ER) Project as part of the RFI for TA-18.	There are no alluvial wells in Twomile Canyon, and the extent of alluvial groundwater, if present, is unknown.	Alluvial groundwater has been documented in lower Threemile Canyon at 18-BG-1 and 18-MW-8.
	Depth/Thickness	Wells PCO-1, -2, and -3 are probably representative of alluvial groundwater between TA-18 and State Highway 4. When installed, depth to water was 1.3 ft in PCO-1, 6.3 ft in PCO-2, and 3.1 ft in PCO-3 (Purtymun 1995, 045344). Assuming continuous saturation in the alluvium, the saturated thickness is about 9.7 ft in PCO-1, 2.7 ft in PCO-2, and 8.9 ft in PCO-3. The saturated thickness varies seasonally, with no water present in dry years.	No data	In well 18-BG-4, the water level was 2.5-ft bgs.

Table A-4 (continued)

Conceptual Model Element	Characteristic	Pajarito Canyon	Twomile Canyon	Threemile Canyon
Intermediate Groundwater	Extent/Hydrology	Intermediate perched water is likely to occur beneath Pajarito Canyon, but knowledge of its extent and quality is incomplete. Perched water was indicated during the drilling of PM-2 and SHB-4 in the vicinity of TA-18. At PM-2, a “show of water at 335 ft” was noted in the Otowi Member of the Bandelier Tuff during the cable-tool drilling (Cooper et al. 1965, 008582). In SHB-4, the core tube and core from the top of the Otowi Member from about 125 ft to 145 ft were wet when they came out of the hole (Gardner et al. 1993, 012582). Test Holes 5 and 6 were drilled in 1950 to detect perched groundwater in Pajarito Canyon south of TA-54. Test Hole 5 was drilled through the Bandelier Tuff and into basalts at a total depth of 263 ft. Test Hole 6 was also drilled through the tuff and into basalts to a total depth of 300 ft ((Griggs and Hem 1964, 092516). These dry test holes indicate that perched water does not occur in the upper part of the vadose zone in this part of the canyon. Between 2000 and 2002 regional wells R-20, R-22, R-23, and R-32 were installed in lower Pajarito Canyon. Perched intermediate water was not identified during the drilling of wells R-20, R-22, and R-32. However, at R-23, near the eastern Laboratory boundary, there were indications that perched intermediate water may be present in Cerros del Rio basalt. However, R-23 is only screened in the regional aquifer.	Well 03-MW-1 is a 28-ft-deep mesa-top well that samples shallow intermediate perched water near building SM-30 at TA-03. A thin zone of saturation occurs in tuffs of the upper Tshirege Member.	Characterization well R-19, located on the mesa south of Threemile Canyon, had indications of possible perched water at depths of 834 to 840 ft and 894 to 912 ft (Broxton et al. 2001, 071254).. Both zones were screened in the completed well, but only the 894- to 912-ft interval (screen 2) in the Puye Formation yields water.
	Depth/Thickness	See above.	Depth to water in well 03-MW-1 is 20 ft.	See above.

Table A-4 (continued)

Conceptual Model Element	Characteristic	Pajarito Canyon	Twomile Canyon	Threemile Canyon
Regional Aquifer	Depth/Hydrology	Based on Laboratory water level maps, the general direction of groundwater flow in the regional aquifer is east to southeast in the vicinity of Pajarito Canyon. Depth to the regional aquifer is known in Pajarito Canyon at supply well PM-2 and in characterization wells R-20, -22, -23, and -32. The nonpumping water level for PM-2 in 2001 was at a depth of 855 ft. In 2002, the top of the regional water table was at a depth of 826 ft in R-20, 890 ft in R-22, 828 ft in R-23, and 776 ft in R-32. R-23 is completed with a single well screen, R-20 and R-32 have three well screens, and R-22 has five well screens. The upper portion of the regional aquifer probably discharges at Spring 4A in White Rock Canyon.	There are no regional aquifer wells associated with Twomile Canyon.	Well R-19 is located on the mesa south of Threemile Canyon. It is downgradient from firing site IJ in TA-36 and is upgradient of TA-18. In addition to two screens in the vadose zone (described above), R-19 has five screens in the regional aquifer.
Contaminants	Potential Sources	TA-08, -09, -15, -22, -36, -36, -40, and -54	TA-03, -06, -40, -48, -55, -59, -64, and -69	TA-15, -18, and -36
	Type	Metals, radionuclides, high explosives (HE), volatile organic compounds (VOCs), and anions	Mercury, tritium, and VOCs	HE, VOCs

Table A-5
Water Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Upper Water Canyon & Cañon de Valle	Middle Water Canyon	Lower Water, Fence, and Potrillo Canyons
Surface Water	Flow	*Water Canyon*: Perennial from State Highway 501 to the eastern edge of TA-28. Intermittent surface water occurs in upper Water Canyon (gage E252) primarily in the spring. *Cañon de Valle:* Perennial from Peter Seep to gage E256. Intermittent surface water exists from natural and anthropogenic sources to gage E262.	Ephemeral at gage station E265.2	Lower Water Canyon is ephemeral, except for a perennial reach supported by Spring 5AA near the confluence of Water and Potrillo Canyons. Potrillo Canyon and Fence Canyon are entirely ephemeral.
Springs	Flow	Armistead Spring and American Spring, west of LANL, and SWSC, Burning Ground, Martin, and the Hollow (on LANL property) and others in the upper reaches of Cañon de Valle	No springs are in the vicinity of TA-49, except for the seep near the Beta hole.	Spring 5AA in lower Water Canyon. No springs in Potrillo Canyon or in Fence Canyon.
Alluvial Groundwater	Extent/Hydrology	*Water Canyon*: Some alluvial groundwater may be present near the headwaters. Because of the limited addition of water, lack of springs and seeps, and rare discharge from tributary canyons, the occurrence and duration of alluvial groundwater likely decreases downcanyon. *Cañon de Valle*: Alluvial groundwater system near SWSC and Burning Ground Springs is perennial. Alluvial water in Martin Canyon and the Fishladder drainage is intermittent.	Alluvial groundwater is in WCM-1 and WCM-2, but no water is present in WCO-1, WCO-2, and WCO-3, although water was found in WCO-2 in 2005. In most years, the downstream extent of alluvial groundwater may be between the WCM-2 and WCO-1.	*Potrillo*: One known occurrence of alluvial groundwater in Potrillo Canyon in moisture access hole POTM-2. Several other boreholes have been drilled near this area to define the extent of the groundwater found in POTM-2, but all are dry. *Fence:* No occurrences of alluvial groundwater have been documented for Fence Canyon. However, only one well was installed, well FCO-1, located near State Highway 4. Based on physiography, no alluvial water is expected.
	Depth/Thickness	Alluvium is typically less than10 ft thick; however, saturation does extend into the tuff.		

Table A-5 (continued)

Conceptual Model Element	Characteristic	Upper Water Canyon & Cañon de Valle	Middle Water Canyon	Lower Water, Fence, and Potrillo Canyons
Intermediate Groundwater	Extent/Hydrology	Lateral extent of the deep perched zone has not been determined; however, in R-25 and SHB-3, a thick perched zone was encountered. Shallower, disconnected, and transient zones of perched saturation have been identified elsewhere within the TA-16 mesa.	No perched water was encountered in any of the holes and all holes have remained dry with the exception of core hole CH-2. DT-5, DT-5P, and four core holes (CH-1, CH-2, CH-3, and CH-4) were drilled to depths of 300 to 500 ft at the main experimental area, and more than 50 experimental holes were drilled as deep as 142 ft in Areas 1, 2, 2A, 2B, 3, and 4 from 1959 to 1961. CH-2 may have an undetected natural perched zone; however, this seems unlikely because this recharge pathway apparently developed more than a decade after the hole was completed.	*Water*: None found in the two existing CDV wells (CDV-R-15 and CDV-R-37) *Potrillo and Fence*: The presence of perched water cannot be determined from available data.
	Depth/Thickness	R-25: 711-1132 ft		
Regional Aquifer	Depth/Hydrology	R-25 encountered the regional aquifer at 1286 ft.		Water supply well PM-2: 730 ft below the bottom of Potrillo Canyon and 620 ft below the bottom of Fence Canyon.
Contaminants	Potential Sources	TA-08, -09, -11, -14, -15, and -16	TA-49	TA-14, -15, -36
	Type	HE, barium, solvents	Isotopes of uranium and plutonium, lead, beryllium, and explosives such as 2,4,6-trinitrotoluene (TNT), hexahydro-1,3,5-trinitro-1,3,5-triazine,1,3,5,7-tetranitro-1,3,5,7-tetrazocine, and barium nitrate	Nitrated organic compounds such as TNT, nitrocellulose, trinitramines, and pentaerythritol tetranitrate. Metals may also be associated with the explosives (uranium, barium, beryllium, lithium hydride, lead, mercury, copper, and zinc). Soils in several of these operational areas have high levels of uranium contamination.

Table A-6
White Rock Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Flow from regional aquifer springs supports perennial surface water flow in several canyons just above where they reach the Rio Grande: Sandia, Pajarito, Ancho, and Chaquehui Canyons. Except for Sandia Canyon, these flows reach the Rio Grande. A municipal sanitary treatment plant discharges effluent into Mortandad Canyon just above the river at the northern county boundary.
Springs	Name	Springs near the Rio Grande represent natural discharge from the regional aquifer. Regional aquifer springs are present just above the Rio Grande in Sandia, Pajarito, Ancho, and Chaquehui Canyons. Los Alamos Canyon and Water Canyon do not have significant springs in their lower reaches. A small seep (Otowi Spring) emerges along the Rio Grande bank south of Los Alamos Canyon. A small seep (Spring 5AA) issues from the Totavi Lentil in lower Water Canyon, but seldom has sufficient water for sampling. Springs discharge from two geologic units: the Tesuque Formation and the Totavi Lentil (the lower part of the Puye Formation). The Tesuque Formation consists of sandstones, siltstones, and interbedded basalts. The Totavi Lentil is a channel-fill deposit made up of grain sizes ranging from gravel to boulders. Purtymun divided the springs into four groups based on geologic unit and chemistry. Group I springs discharge from the Totavi Lentil on the west side of the river. Water is dominated by calcium bicarbonate with sulfate and chloride of about 4 mg/L and total dissolved solids (TDS) averages 163 mg/L. These springs follow the outcrop of the Totavi Lentil, increasing their elevation above the river in a downstream direction. These higher elevation springs generally occur on the flanks of or in the bottom of canyons where erosion has exposed the Totavi Lentil. Group II springs discharge from coarse-grained Tesuque Formation sediments on both sides of the river. These springs have sodium bicarbonate water with about 3 mg/L of sulfate and chloride, and TDS averages 183 mg/L. Group III springs discharge from fine-grained Tesuque Formation sediments on the west side of the river. These springs also have sodium bicarbonate water with about 10 mg/L of sulfate, 3 mg/L of chloride, and TDS averages 215 mg/L. Group IV springs discharge from fine-grained Tesuque Formation sediments on the east side of the river near faults and basalt flows. These springs have varied chemistry with higher TDS than the other springs, of 270 to 500 mg/L. Most of the springs discharge close to the elevation of the Rio Grande, although some springs discharge at elevations several tens of feet above the Rio Grande. There are different hypotheses about the meaning of the elevation of springs above the river. One hypothesis is the elevations could reflect channeling of discharge from the regional aquifer along the higher-permeability Totavi Lentil, combined with the increase in elevation of the water table with distance west of the river. Another hypothesis of spring occurrence is that the elevation of springs above the river could reflect local variations in permeability and geology related to numerous landslides along the canyon walls. A third hypothesis is that the elevation of some springs above the river indicates that they discharge from perched groundwater located above the regional aquifer.

Table A-6 (continued)

Conceptual Model Element	Characteristic	Description
Alluvial Groundwater	Extent	Alluvial groundwater is not present in the White Rock Canyon area. However, household wells in Los Alamos Canyon (Halladay and Otowi) and household wells nearer the Rio Grande probably draw their water from Santa Fe Group sediments but may draw water in part from alluvium in these drainages.
	Depth/Thickness	Not applicable
Intermediate Groundwater	Extent/Hydrology	Perched intermediate groundwater may not be present in the White Rock Canyon area. However, an alternative hypothesis about White Rock Canyon spring origin is that the elevation of some springs above the river indicates that they discharge from perched groundwater located above the regional aquifer.
	Depth/Thickness	Not applicable
Regional Aquifer	Depth/Hydrology	The Rio Grande is the major groundwater discharge point for the regional aquifer underlying the Pajarito Plateau. The river gains flow through White Rock Canyon (Purtymun 1995, 045344), indicating that the local water table lies above the river. The Buckman well field lies adjacent to the Rio Grande on the east bank and includes eight pumping wells. These wells draw their water from Santa Fe Group sediments. Water in these wells is quite old, having passed through the deeper portion of the basin fill sediments where it acquired a higher load of dissolved solutes. San Ildefonso Pueblo draws water from more than 10 community and household wells located on both sides of the Rio Grande. Little information on depth or geology for these wells is available. Many of these wells probably draw their water from Santa Fe Group sediments. At least two of the San Ildefonso wells are uncapped artesian wells.
Contaminants	Potential Sources	TA-33 borders the Rio Grande, a site where tritium activities formerly occurred. The low- to moderate-density residential area of White Rock borders the Rio Grande to the north of the Laboratory boundary in White Rock Canyon. A municipal sanitary treatment plant discharges effluent into Mortandad Canyon just above the river at the northern county boundary.
	Type	TA-33 was used as a firing site and for production of tritium. PRSs include landfills, septic systems, and burn areas It is situated on a mesa top and is being investigated by the ER Project as Operable Unit 1122. If contaminants are released from TA-33, they may impact Ancho Canyon, Chaquehui Canyon, or the Rio Grande. The discharge from the municipal treatment plant is the primary surface water source and has a strong impact on the chemistry of the water that enters the Rio Grande from Mortandad Canyon, leading to higher TDS, nitrate, chloride, sulfate, and some metals.

Table A-7
Guaje Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Guaje Canyon heads in the Sierra de los Valles and is part of the Los Alamos Canyon watershed. Guaje Canyon contains an interrupted stream with a perennial reach extending from springs located upstream of Guaje Reservoir to some distance downstream of the reservoir. An intermittent reach extends farther downstream to the confluence with lower Los Alamos Canyon. Snowmelt runoff does not reach the Rio Grande. Guaje Canyon crosses San Ildefonso Pueblo land and continues to its confluence with lower Los Alamos Canyon, approximately a mile west of the Rio Grande. Rendija Canyon heads on the flanks of the Sierra de los Valles and contains an ephemeral stream. Barrancas Canyon heads on the Pajarito Plateau and has intermittent and ephemeral flow. No springs have been found in any of these canyons. Base flow has been monitored at the station Guaje Canyon located below the reservoir for several decades. Gaging stations in these canyons include Guaje above Rendija, Rendija above Guaje, and Guaje at State Highway 502. For many gages, flow information is not available. These gages do not yet have an established rating curve.
Springs	Name	None
Alluvial Groundwater	Extent	Only two alluvial wells have been installed in Guaje Canyon to investigate the presence of alluvial groundwater. These wells were completed in the perennial reach of the canyon, and alluvial groundwater was encountered near the stream level. For Rendija and Barrancas Canyons, no alluvial wells have been installed and no alluvial groundwater is known.
	Depth/ Thickness	Not applicable
Intermediate Groundwater	Extent/ Hydrology	No intermediate groundwater wells have been installed, and no groundwater is known to exist in these canyons. Drilling of the water supply wells in Rendija and Guaje canyons has not found any intermediate groundwater.
	Depth/ Thickness	Not applicable
Regional Aquifer	Depth/ Hydrology	The regional aquifer occurs in the Puye Formation and the Santa Fe Group near Guaje Canyon. The regional aquifer probably includes rocks of the Tschicoma Formation in the western part of the canyons. The regional aquifer supplies water to the wells of the Guaje well field. Groundwater flow in the regional aquifer is from the northwest, so no Laboratory contaminant sources are located upgradient of Guaje Canyon sites. The aquifer lies at depths of about 230 to 570 ft in the Guaje well field.
Contaminants	Potential Sources	These canyons are north of the Laboratory and likely not affected by contamination. However, Rendija Canyon contained a small arms firing range and several sites used as mortar impact areas.
	Type	Metals, HE

Table A-8
Bayo Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Bayo Canyon is part of the Los Alamos Canyon watershed. Bayo Canyon heads on the Pajarito Plateau on land owned by Los Alamos County and extends across the northeast portion of the Laboratory (TA-74), crosses San Ildefonso Pueblo land to the east, and terminates at its confluence with lower Los Alamos Canyon near Totavi. Surface water flow in Bayo Canyon is ephemeral and intermittent and there are no springs in the vicinity. Stream loss caused by infiltration into the underlying alluvium and evapotranspiration typically prevents surface flow from discharging to Los Alamos Canyon. The only gaging station in Bayo Canyon is Bayo below TA-10.
Springs	Name	None
Alluvial Groundwater	Extent	No alluvial groundwater was encountered during drilling of about 90 boreholes at the TA-10 site in upper Bayo Canyon.
	Depth/ Thickness	Not applicable
Intermediate Groundwater	Extent/ Hydrology	None known
	Depth/ Thickness	Not applicable
Regional Aquifer	Depth/ Hydrology	The regional aquifer occurs in the Puye Formation and the Santa Fe Group in the vicinity of Bayo Canyon. The regional aquifer probably includes rocks of the Tschicoma Formation in the western part of the canyons. The regional aquifer supplies water to the wells of the Guaje well field. The aquifer lies at depths of about 230 to 570 ft in the Guaje well field.
Contaminants	Potential Sources	Former radiochemistry laboratory and firing sites at Bayo Canyon Site, TA-10
	Type	Strontium-90 and other constituents

Table A-9
Ancho Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Ancho Canyon heads on the Pajarito Plateau and for the most part has ephemeral flow. The canyon has two main branches, the northern one known as North Ancho Canyon. Gaging stations include Ancho above north fork Ancho, Ancho north fork below State Highway 4, and Ancho below State Highway 4. These stations have shown little flow. The average discharge for Ancho below State Highway 4 from 7 years of record is 0.005 cubic feet per second (cfs) or 3.6 acre-ft/yr. No other information on surface water quality or flows is available. The only perennial section of the canyon is near the Rio Grande.
Springs	Name	Beginning less than a mile above the Rio Grande, Ancho Canyon is perennial, with flow fed by Ancho Spring, a regional aquifer spring.
Alluvial Groundwater	Extent	Little is known about the presence of alluvial groundwater in Ancho Canyon. Ancho Canyon contains thick alluvium that could host perched groundwater, and three boreholes (ASC-15, ASC-16, and ASC-18) drilled by the ER Project encountered 4 ft to 9 ft of saturation in alluvium below MDA Y. Several boreholes drilled downgradient of MDA Y encountered no alluvial groundwater, suggesting the occurrence of alluvial groundwater in this area is limited in extent.
	Depth/Thickness	Not applicable
Intermediate Groundwater	Extent/Hydrology	No intermediate perched zones have been found beneath Ancho Canyon, although further borehole information may change this. ER borehole DMB-1, drilled between Building 69 and the administrative area at TA-39, penetrated 119 ft of Bandelier Tuff and 5 ft of Cerros del Rio basalts. No intermediate-depth perched water was encountered in this hole, but clay-lined fractures and vesicles in the basalt suggest that periodic passage of groundwater through these rocks may occur. A test hole (TH-7) drilled 10 ft into basalts in Ancho Canyon below State Highway 4 was dry. The hole was drilled in 1950 and has since been plugged. R-31 was drilled in TA-39 in the north fork of Ancho Canyon. A screen was placed from 439 to 454 ft at a possible perched zone, based on water seen in a borehole video. The zone has been dry since and no water samples have been collected from it.
	Depth/Thickness	Not applicable
Regional Aquifer	Depth/Hydrology	Groundwater flow in the regional aquifer beneath Ancho Canyon is to the east and southeast, toward the Rio Grande. The regional aquifer lies at about 1000 to 1170 ft beneath the mesa at TA-49 and is within the Cerros del Rio basalt, the underlying Puye Fanglomerate, “Totavi” gravels, and possibly the Santa Fe Group. Regional aquifer characterization well R-31 in TA-39 found the regional aquifer at about 530 ft within the Cerros del Rio basalt, the underlying Puye Fanglomerate, and Totavi gravels. Postdrilling water quality sampling has not been completed at this well.
Contaminants	Potential Sources	Firing sites and underground testing sites at TA-49 and TA-39
	Type	HE, radionuclides, metals
	Depth/Thickness	Not applicable
	Depth/Thickness	Not applicable

Table A-10
Chaquehui Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Chaquehui Canyon heads on the Pajarito Plateau and contains an ephemeral stream in its upper portion. About 0.5 mi above the Rio Grande, Doe Spring, a regional aquifer spring, maintains a short perennial reach. Farther down the drainage, Springs 9 and 9A maintain perennial flow that extends 0.25 mi to the Rio Grande. Gaging stations in Chaquehui Canyon include Chaquehui at TA-33 and Chaquehui tributary at TA-33. No flow data were available in 2002. The gaging stations have insufficient data to establish flow-rating curves.
Springs	Name	Springs issue from basalts near the Rio Grande in the area of Chaquehui Canyon (Springs 8A, 9, 9A, 9B, and Doe). These springs are located 130–200 ft above the Rio Grande, and they may represent discharge points for intermediate-depth perched water bodies. Alternatively, these springs may represent discharge from the regional aquifer in White Rock Canyon. Spring sampling is covered in the White Rock Canyon spring portion of the Interim Plan.
Alluvial Groundwater	Extent	Little is known about the presence of alluvial groundwater in Chaquehui Canyon. Much of Chaquehui Canyon is unlikely to contain perched alluvial groundwater because most of its course forms a steep narrow drainage through basalts that are swept free of alluvium by runoff. Purtymun reported that there was water perched locally in the alluvium but provided no basis for this statement. Purtymun probably refers to alluvium downstream of Doe Spring and Springs 9 and 9A.
	Depth/Thickness	Not applicable
Intermediate Groundwater	Extent/Hydrology	No intermediate groundwater is known in Chaquehui Canyon; however, there has been no drilling in the area.
	Depth/Thickness	Not applicable
Regional Aquifer	Depth/ Hydrology	Characterization well R-31 in TA-39 (Ancho Canyon) found the regional aquifer at about 530 ft within the Cerros del Rio basalt, the underlying Puye Fanglomerate, and Totavi gravels.
Contaminants	Potential Sources	TA-33 was used as a firing site and for production of tritium. PRSs include landfills, septic systems, and burn areas.
	Type	Tritium

Table A-11
Frijoles Canyon Watershed Conceptual Model

Conceptual Model Element	Characteristic	Description
Surface Water	Flow	Frijoles Canyon lies south of Laboratory land and heads within the Sierra de los Valles. Rito de los Frijoles is a perennial stream that originates in the upper canyon and extends to the Rio Grande. The stream originates from springs in upper Frijoles Canyon. A gaging station in Frijoles Canyon is Rito de los Frijoles at Bandelier. In 2002 there were 365 days with flow, a total volume of 439 acre-ft, and a maximum flow of 19 cfs.
Springs	Name	One regional aquifer spring, Spring 10, discharges at the edge of the Rio Grande south of Frijoles stream. The spring has a very low discharge and is difficult to sample separately from river water.
Alluvial Groundwater	Extent	No wells have been drilled into the alluvium in Frijoles Canyon. Purtymun and Adams note that the alluvium is probably thin, on the order of 6 m or less. The presence of perennial surface flow suggests a large extent of alluvial saturation.
	Depth/Thickness	Not applicable
Intermediate Groundwater	Extent/Hydrology	No intermediate groundwater is known to exist in the area of Frijoles Canyon; however, no wells have been drilled.
	Depth/Thickness	Not applicable
Regional Aquifer	Depth/Hydrology	No regional aquifer wells are located in Bandelier National Monument. The nearest wells are in Ancho Canyon and are described in that part of the plan.
Contaminants	Potential Sources	Septic systems at Bandelier National Monument
	Type	Fecal coliform

A-12 REFERENCES

The following list includes all documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ER ID number. This information is also included in text citations. ER ID numbers are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau; the U.S. Department of Energy–Los Alamos Site Office; the U.S. Environmental Protection Agency, Region 6; and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

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Appendix B

Screening Information

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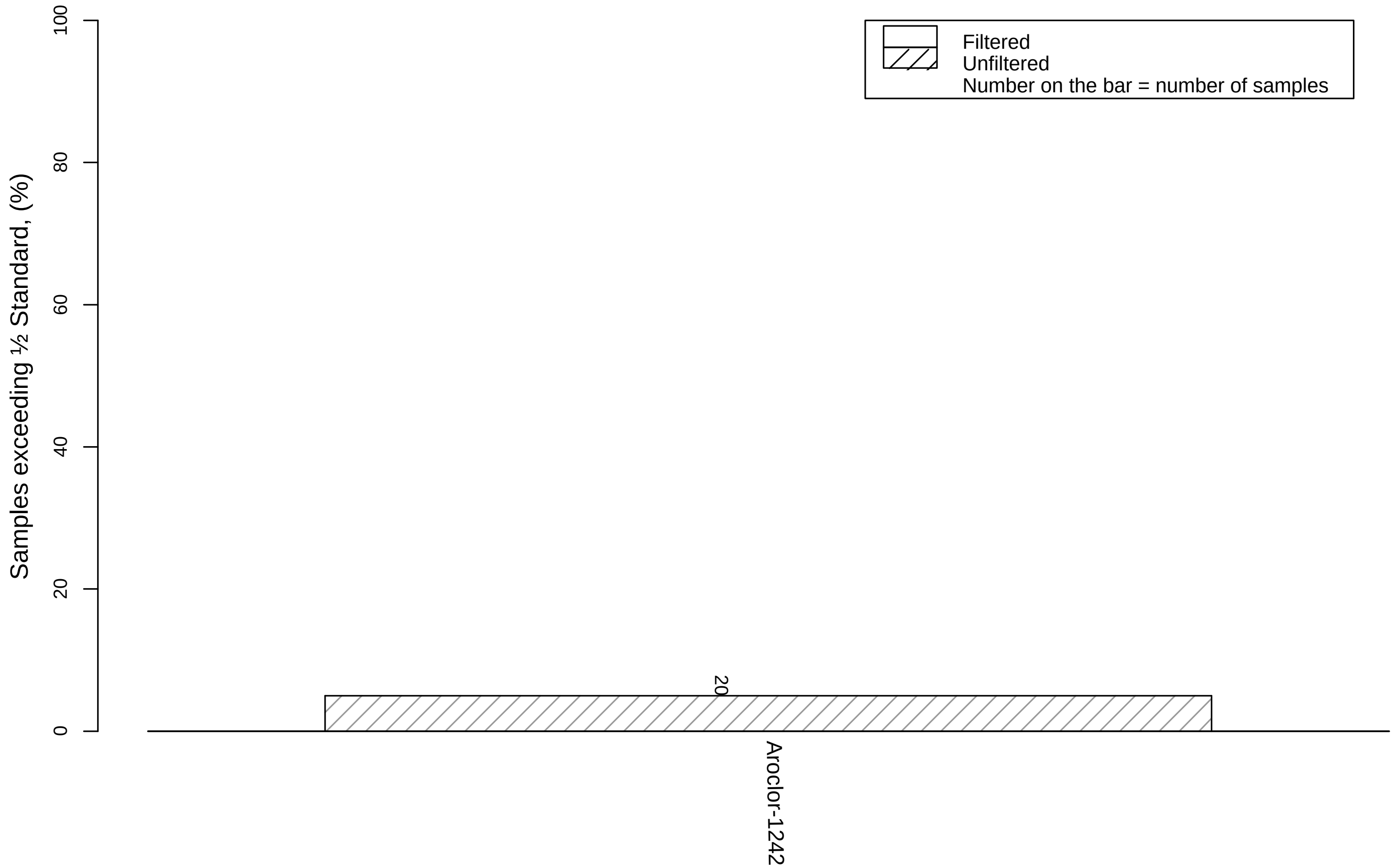


Figure B-1a Los Alamos Watershed organics in ephemeral/intermitent surface water

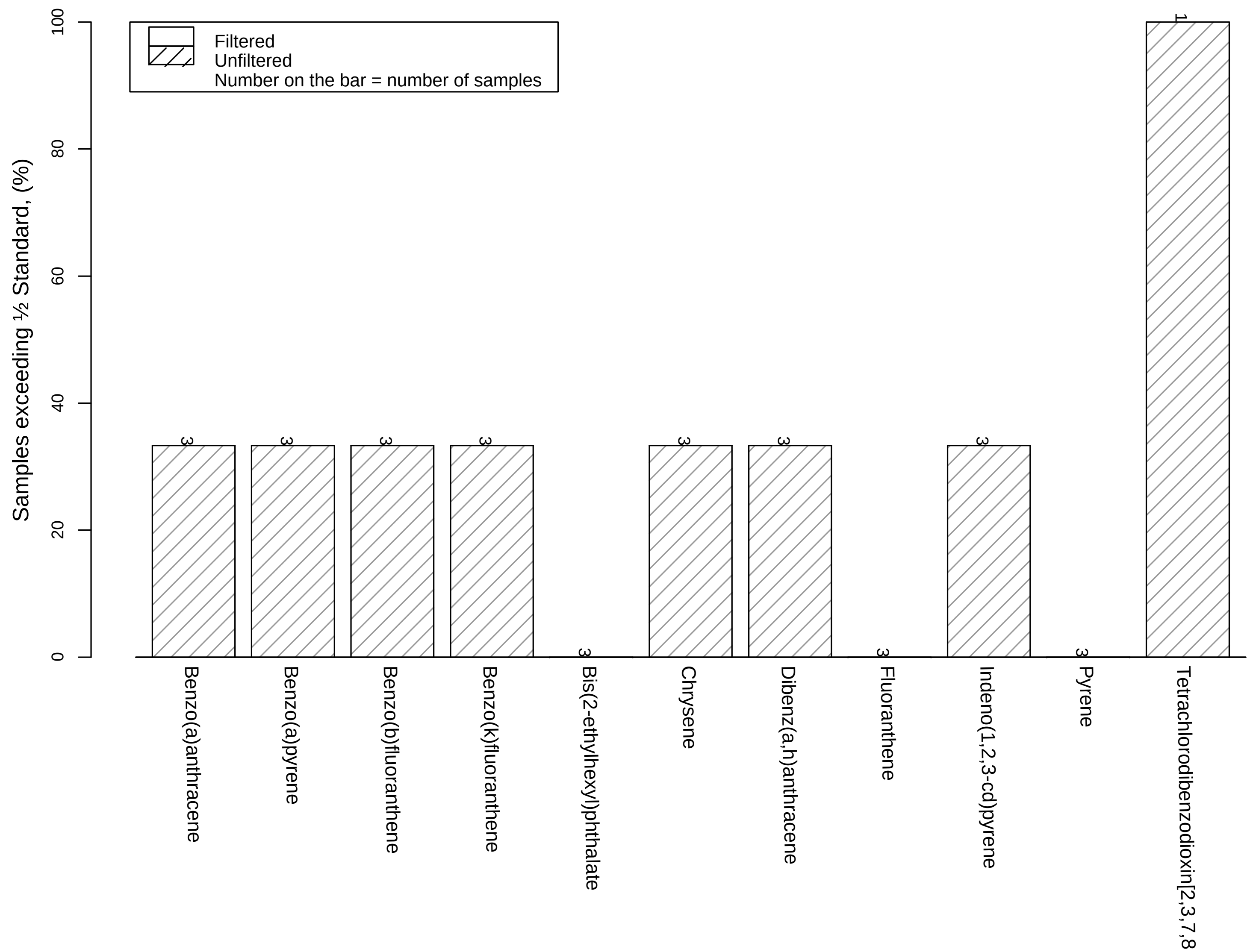


Figure B-1b Los Alamos Watershed organics in perennial surface water

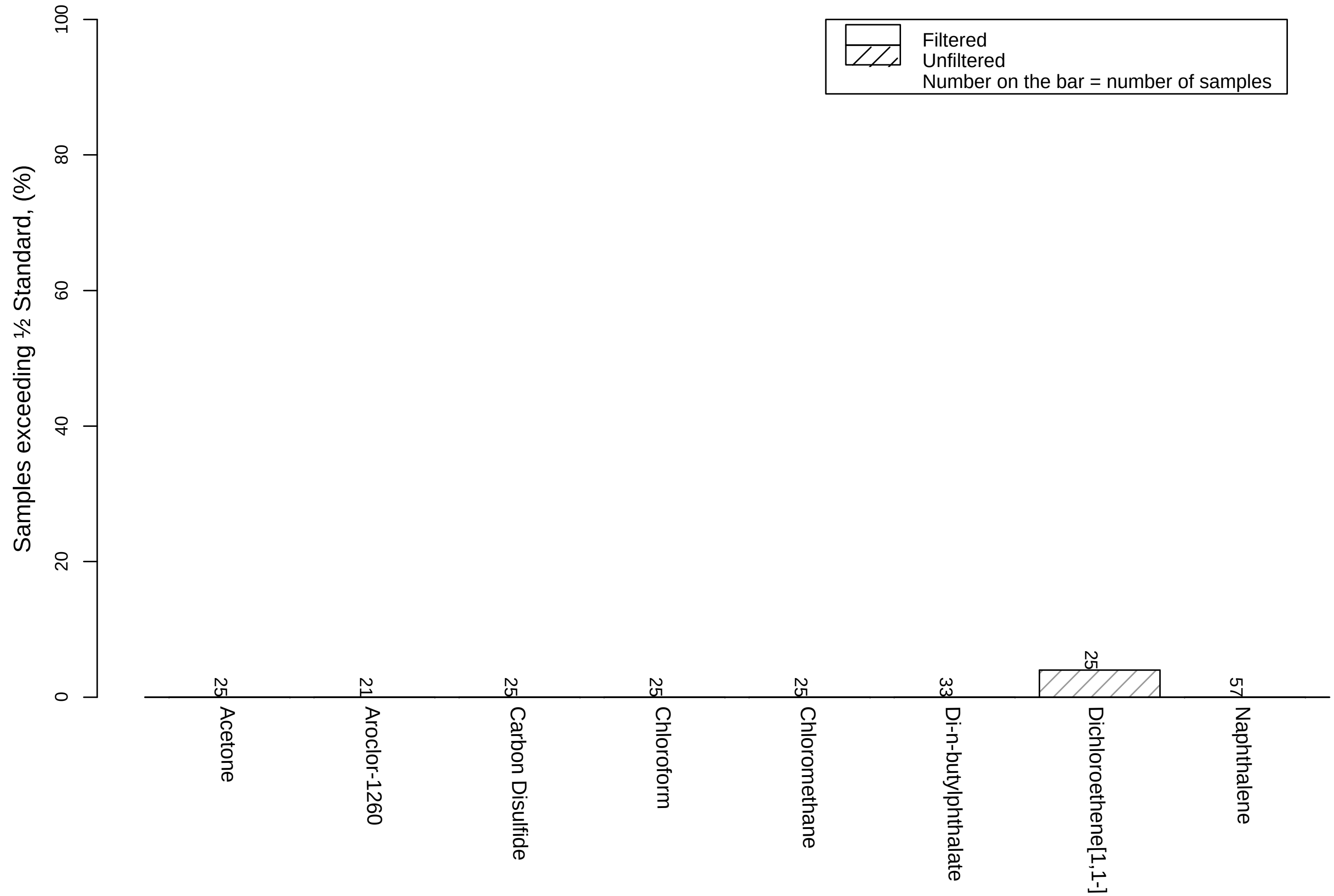


Figure B-1c Los Alamos Watershed organics in alluvial groundwater

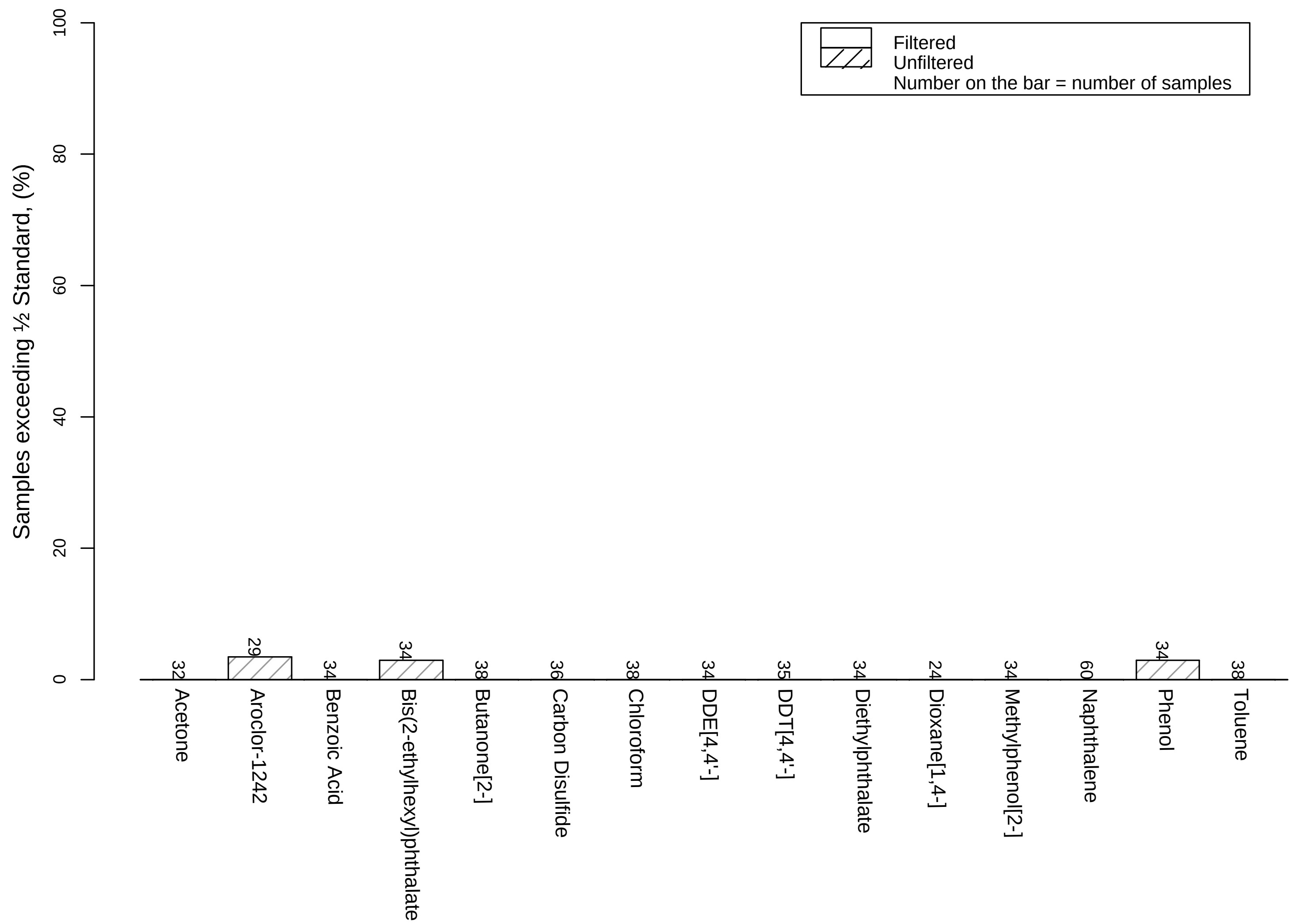


Figure B-1d Los Alamos Watershed organics in intermediate (perched zone) groundwater

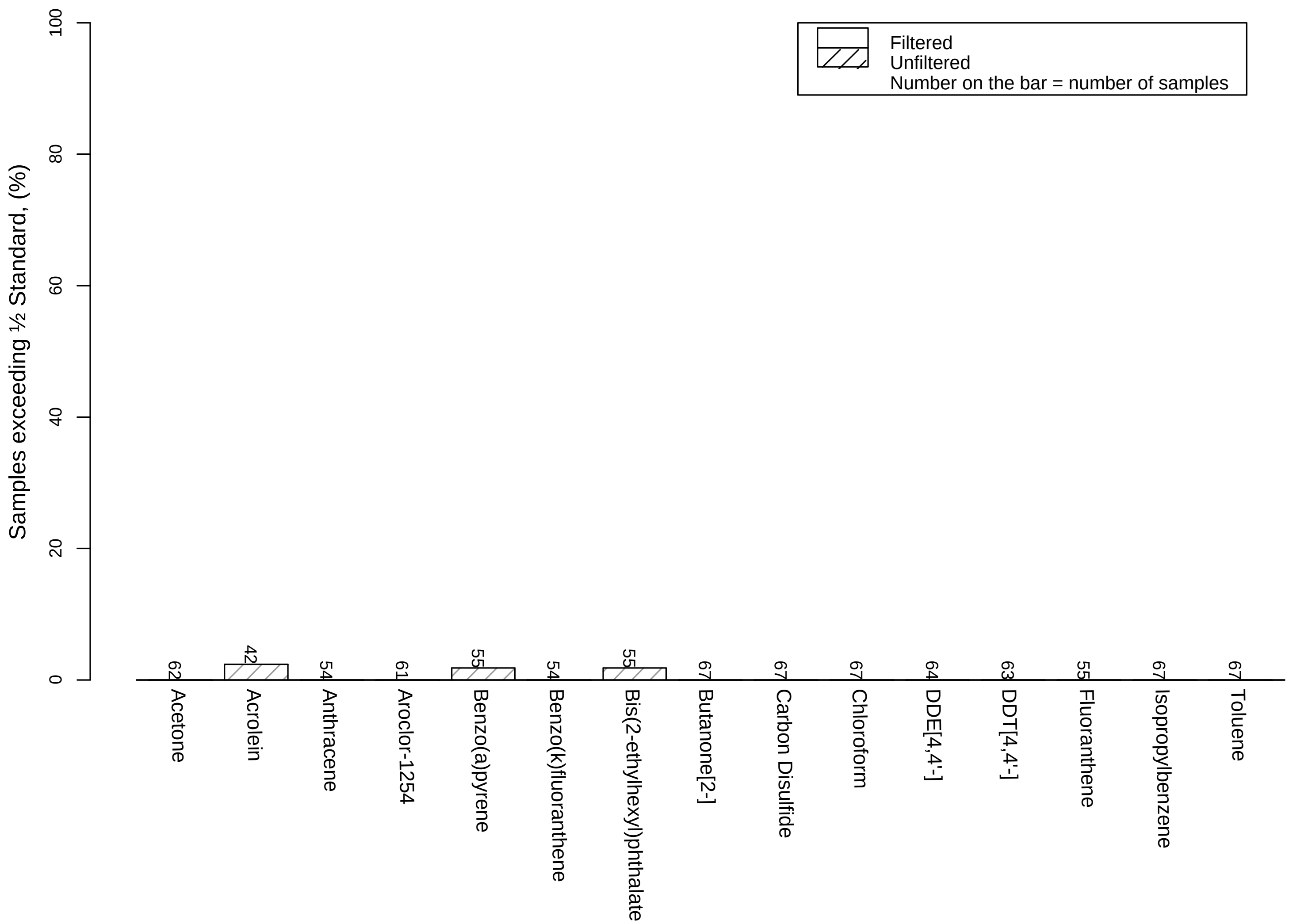
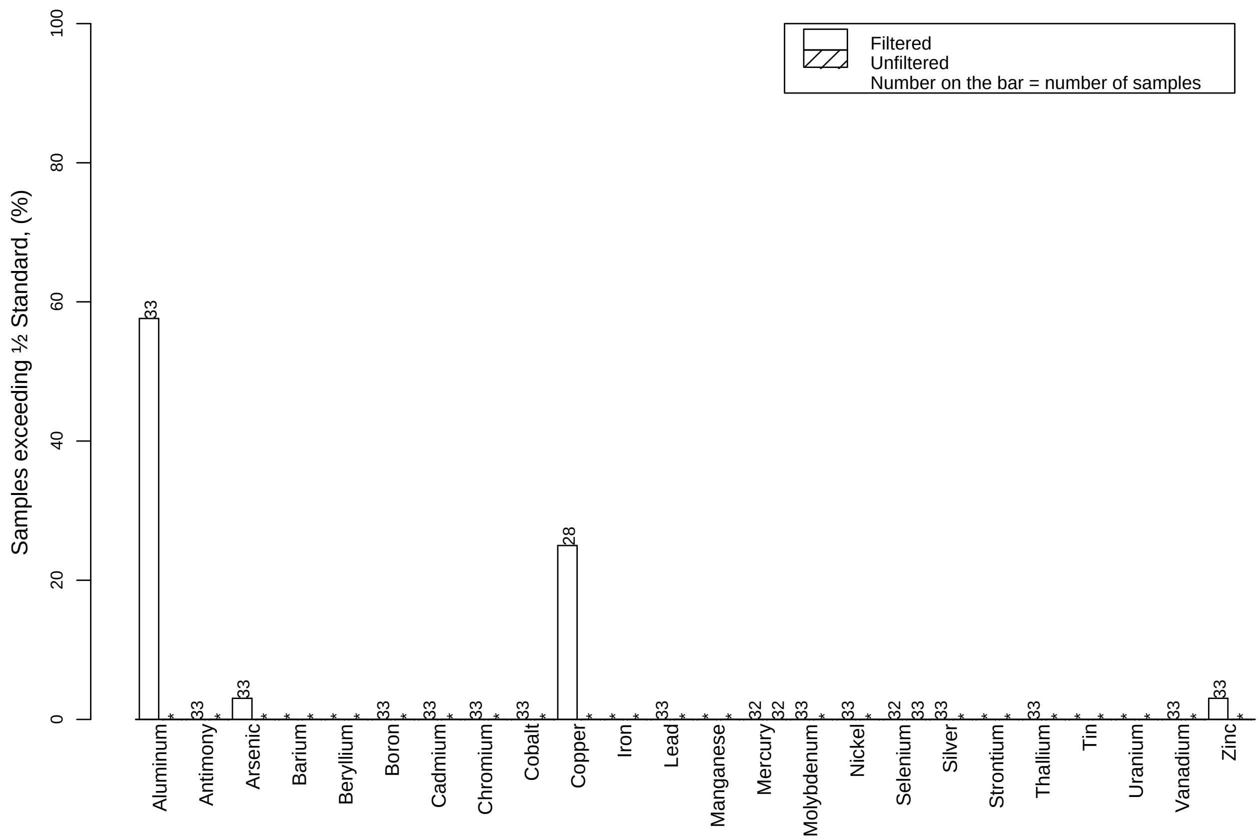


Figure B-1e Los Alamos Watershed organics in regional groundwater

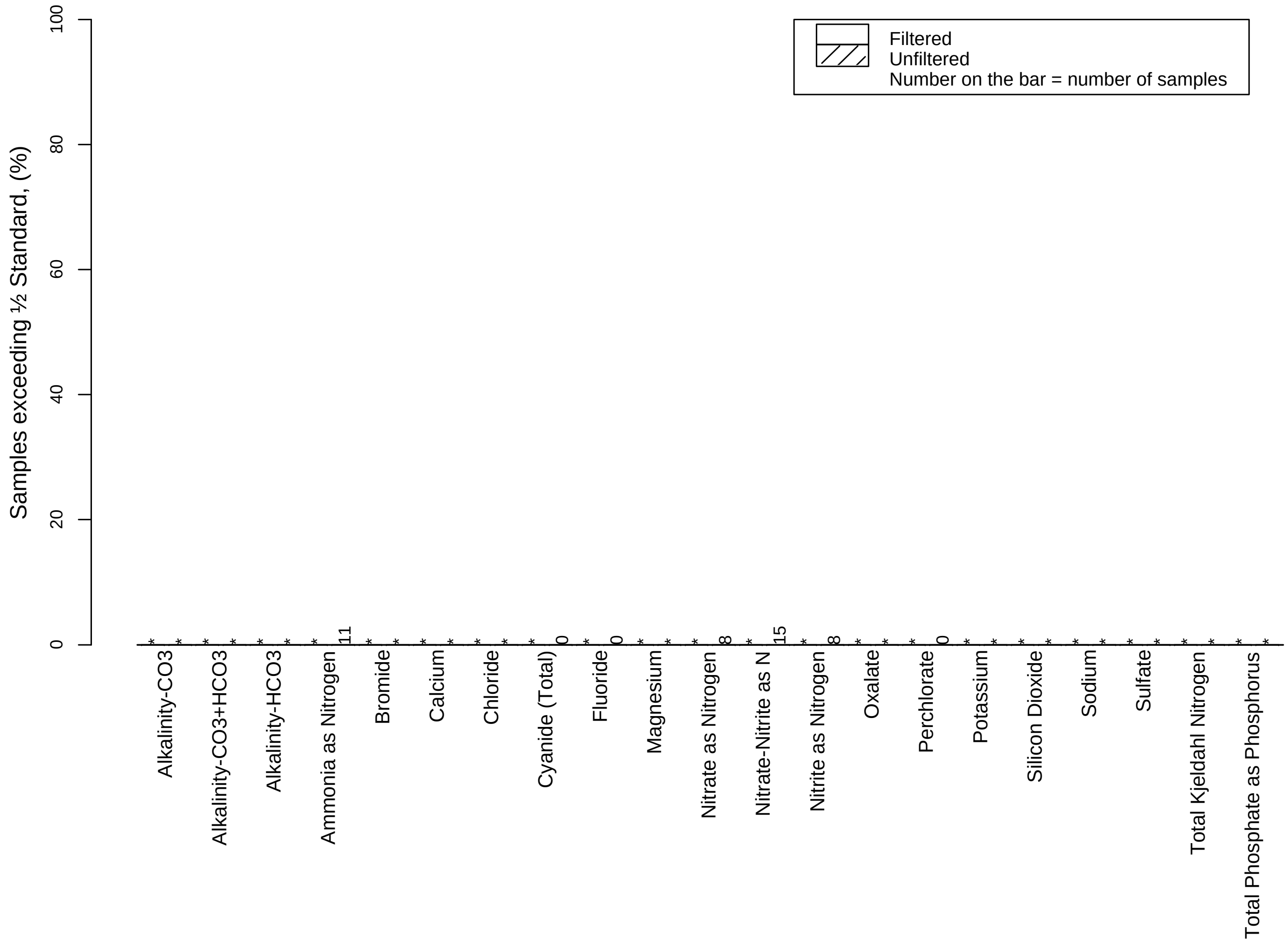
No constituents with applicable standards were detected

Figure B-1f Los Alamos Watershed organics in springs



Note: * = No applicable standard.

Figure B-2a Mortandad Watershed metals in surface water



Note: * = No applicable standard.

Figure B-2b Mortandad Watershed general inorganics in surface water

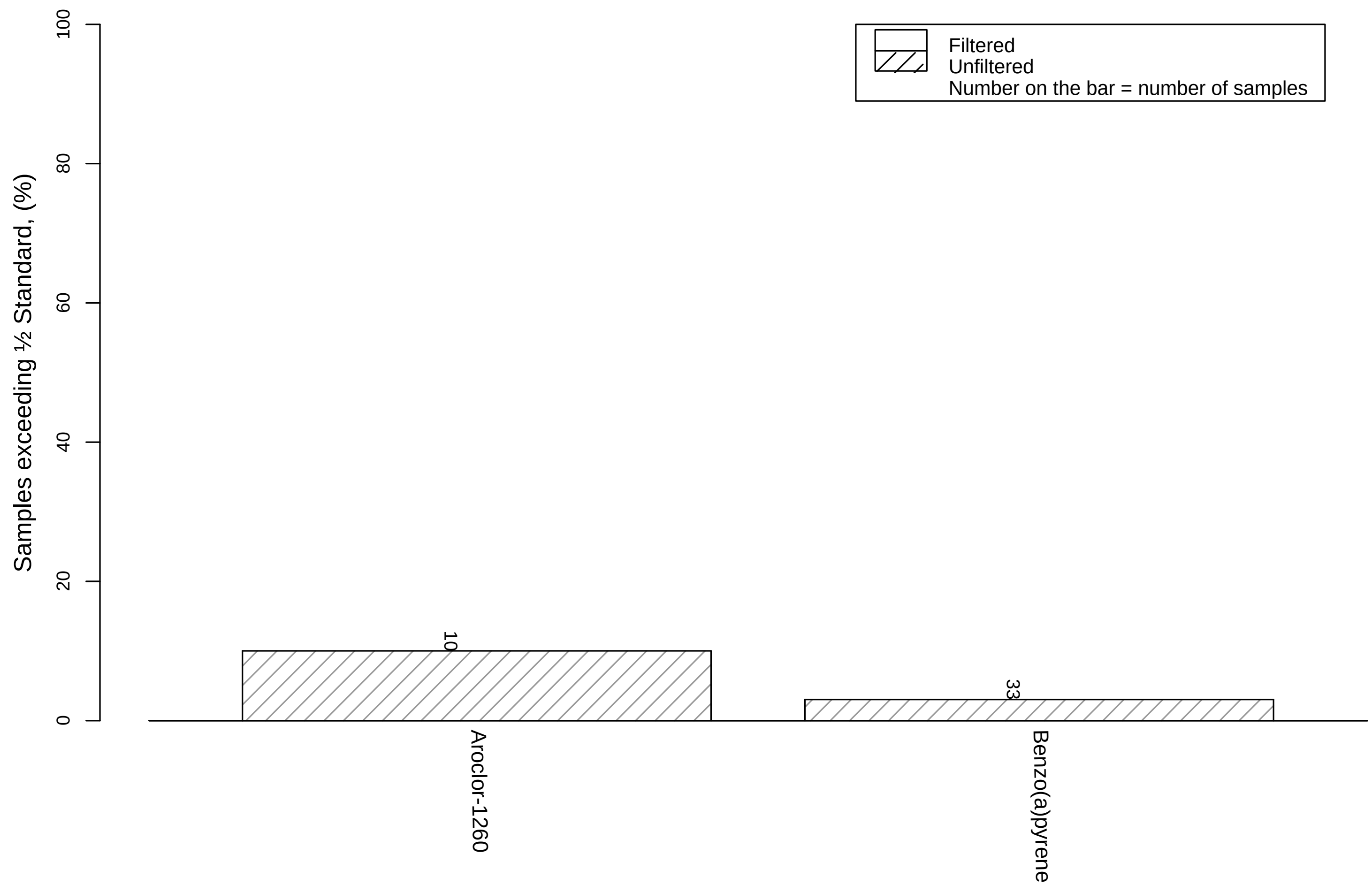


Figure B-2c Mortandad Watershed organics in surface water

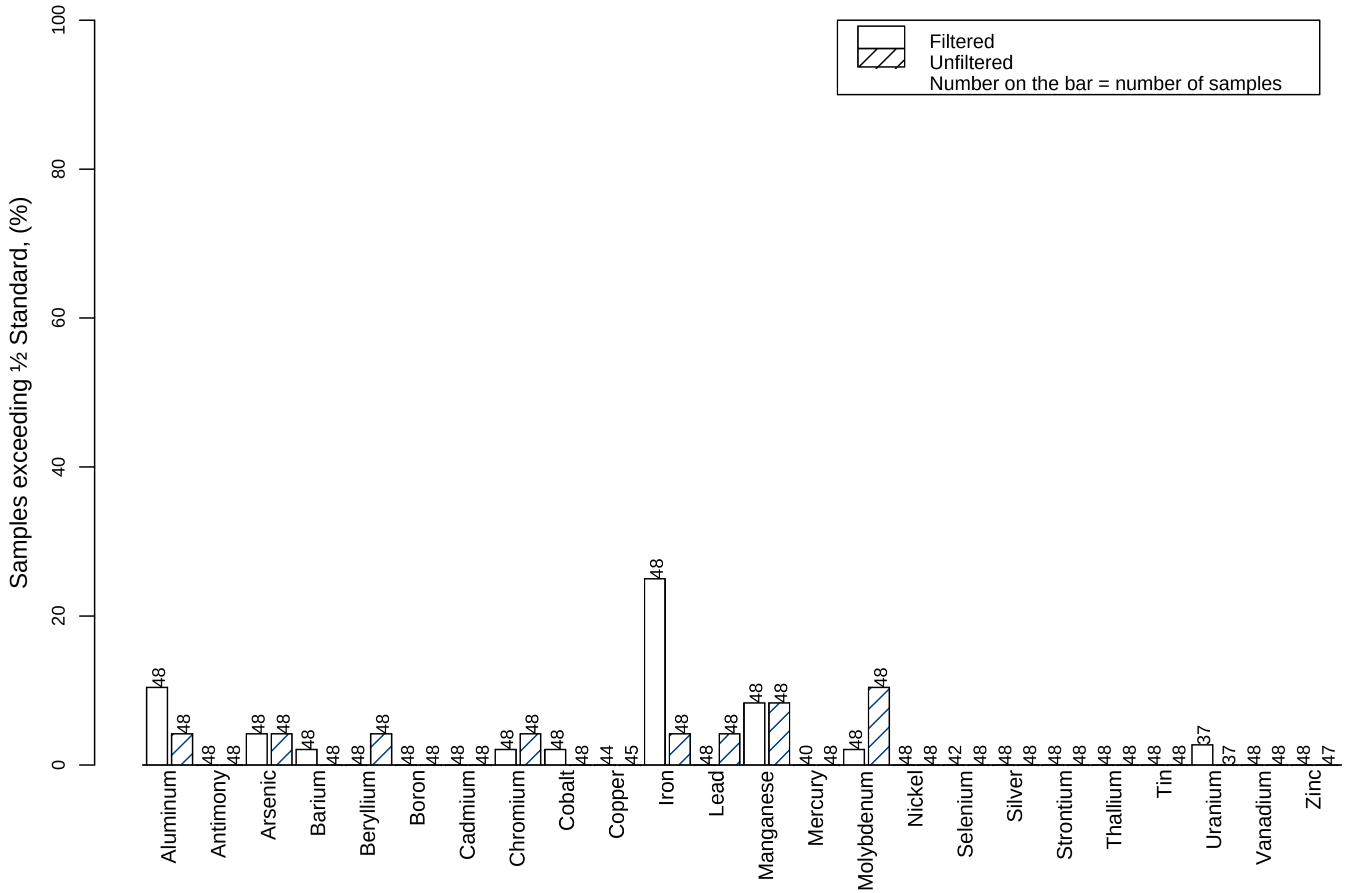
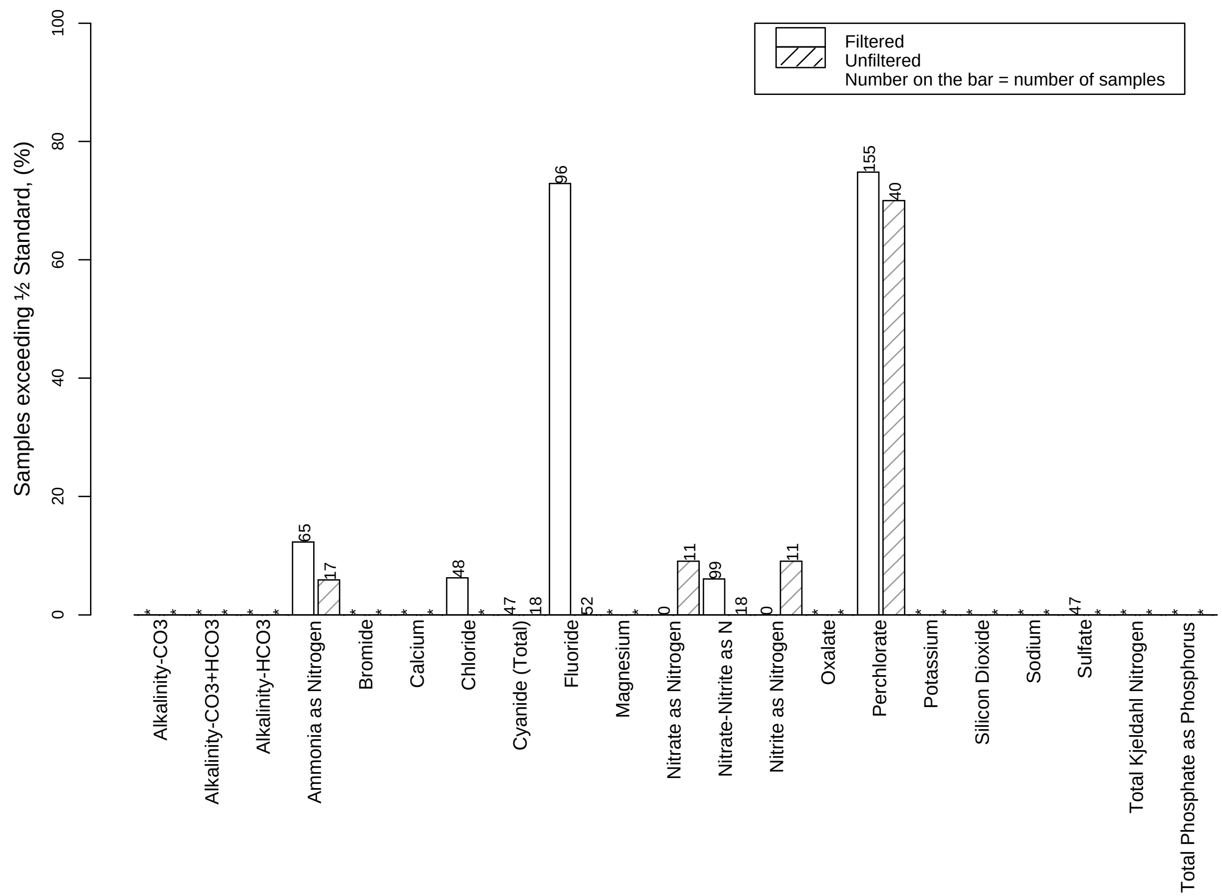


Figure B-3a Mortandad Watershed metals in alluvial groundwater



Note: * = No applicable standard.

Figure B-3b Mortandad Watershed general inorganics in alluvial groundwater

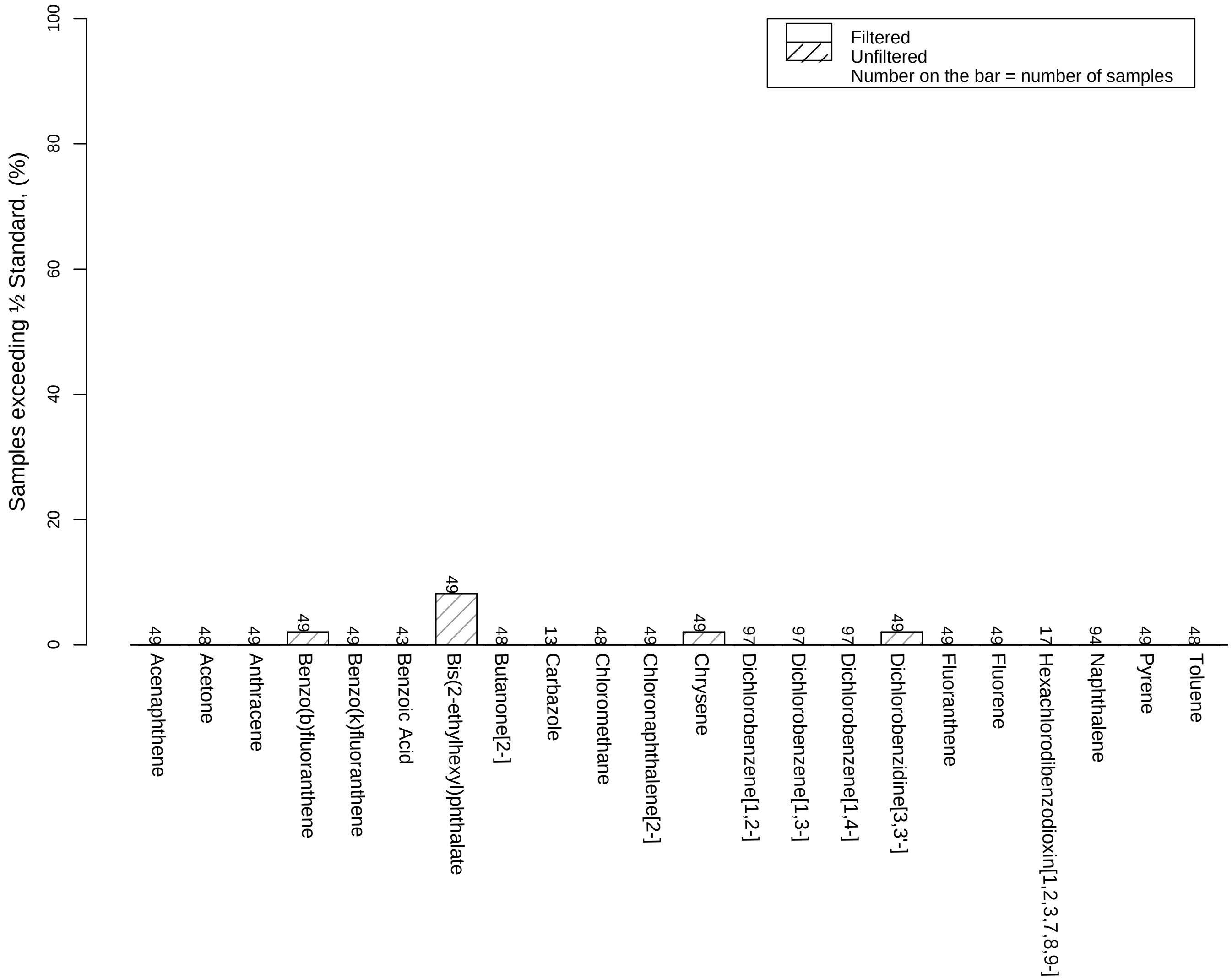


Figure B-3c Mortandad Watershed organics in alluvial groundwater

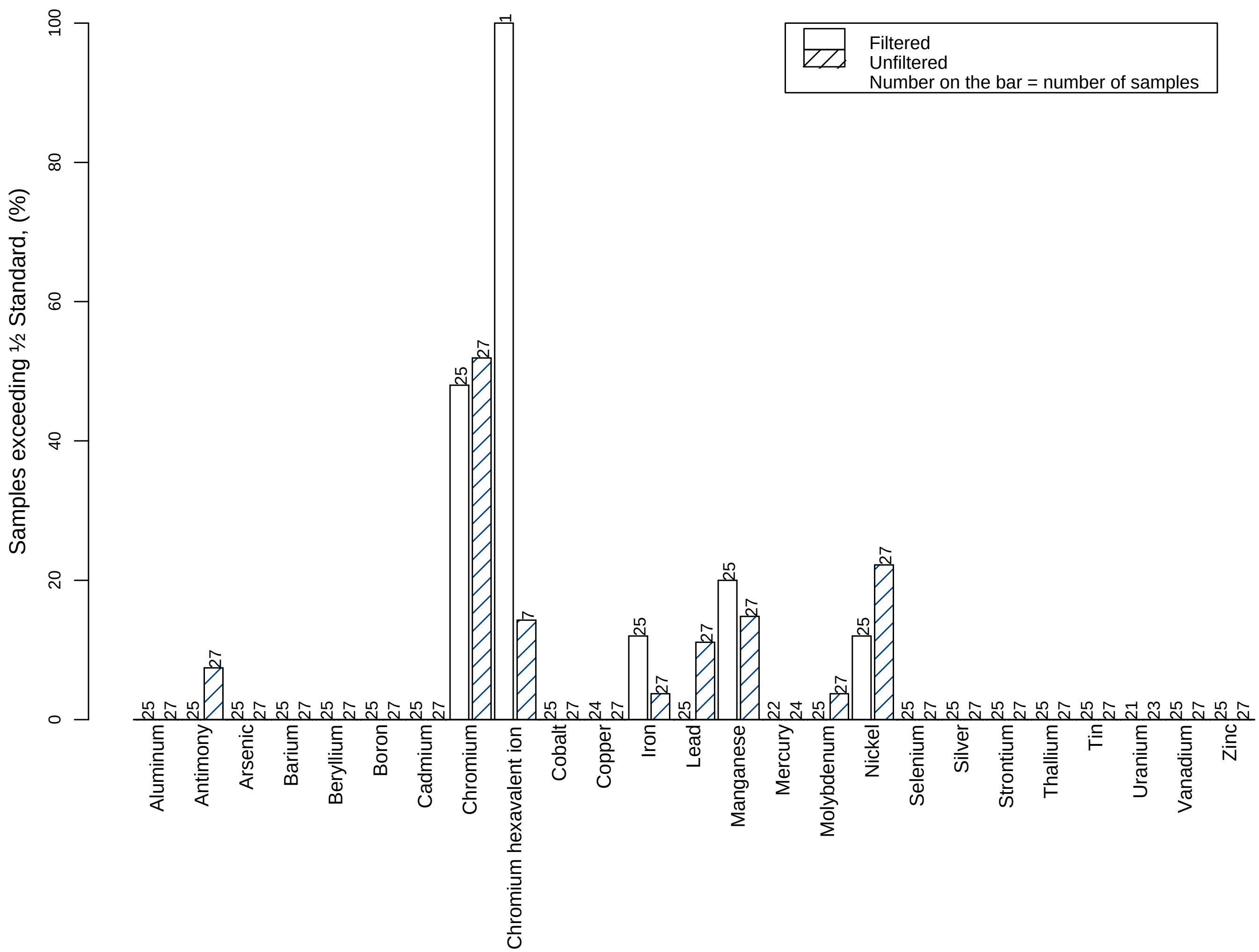
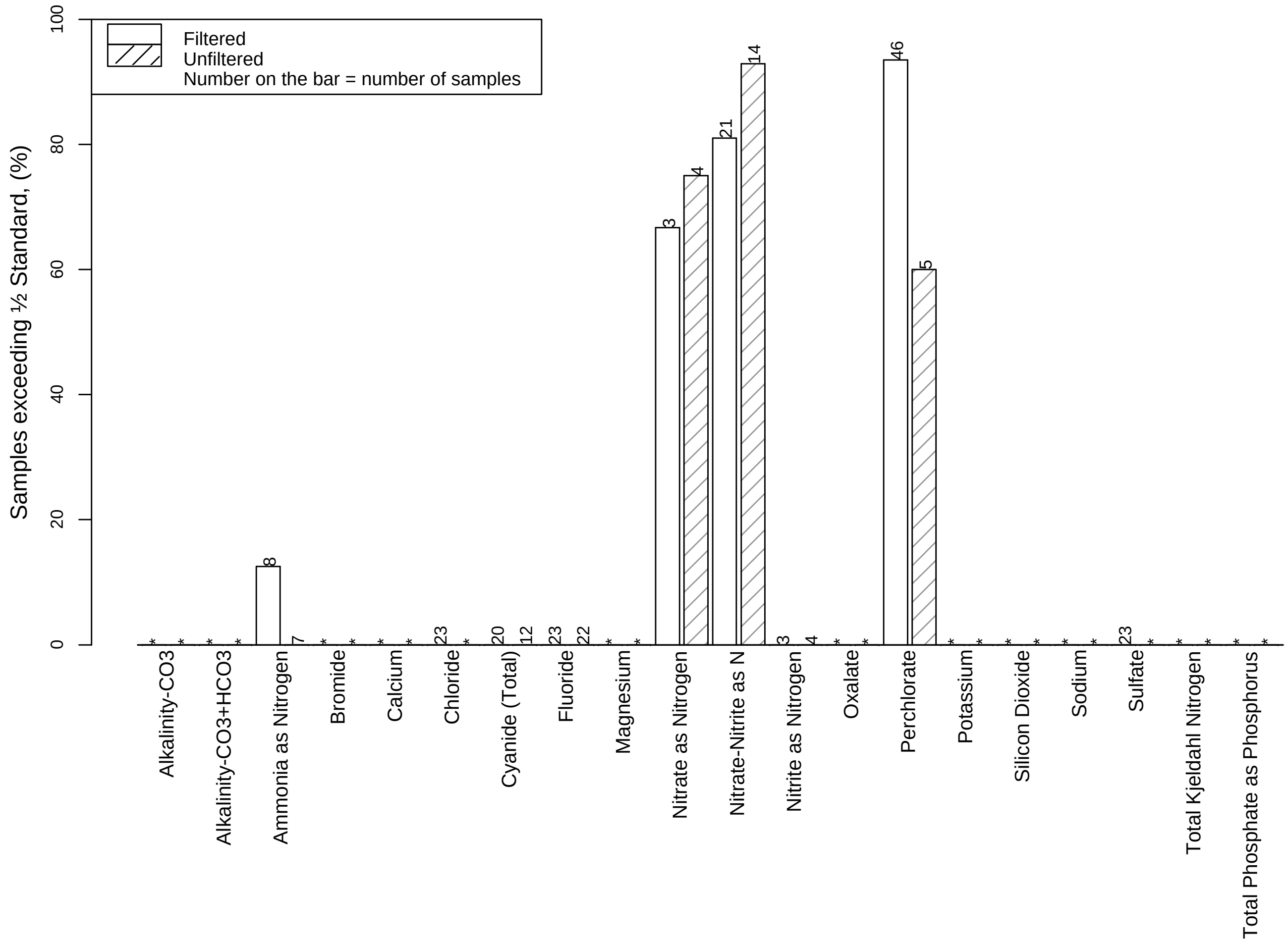


Figure B-4a Mortandad Watershed metals in intermediate (perched zone) groundwater



Note: * = No applicable standard.

Figure B-4b Mortandad Watershed general inorganics in intermediate (perched zone) groundwater

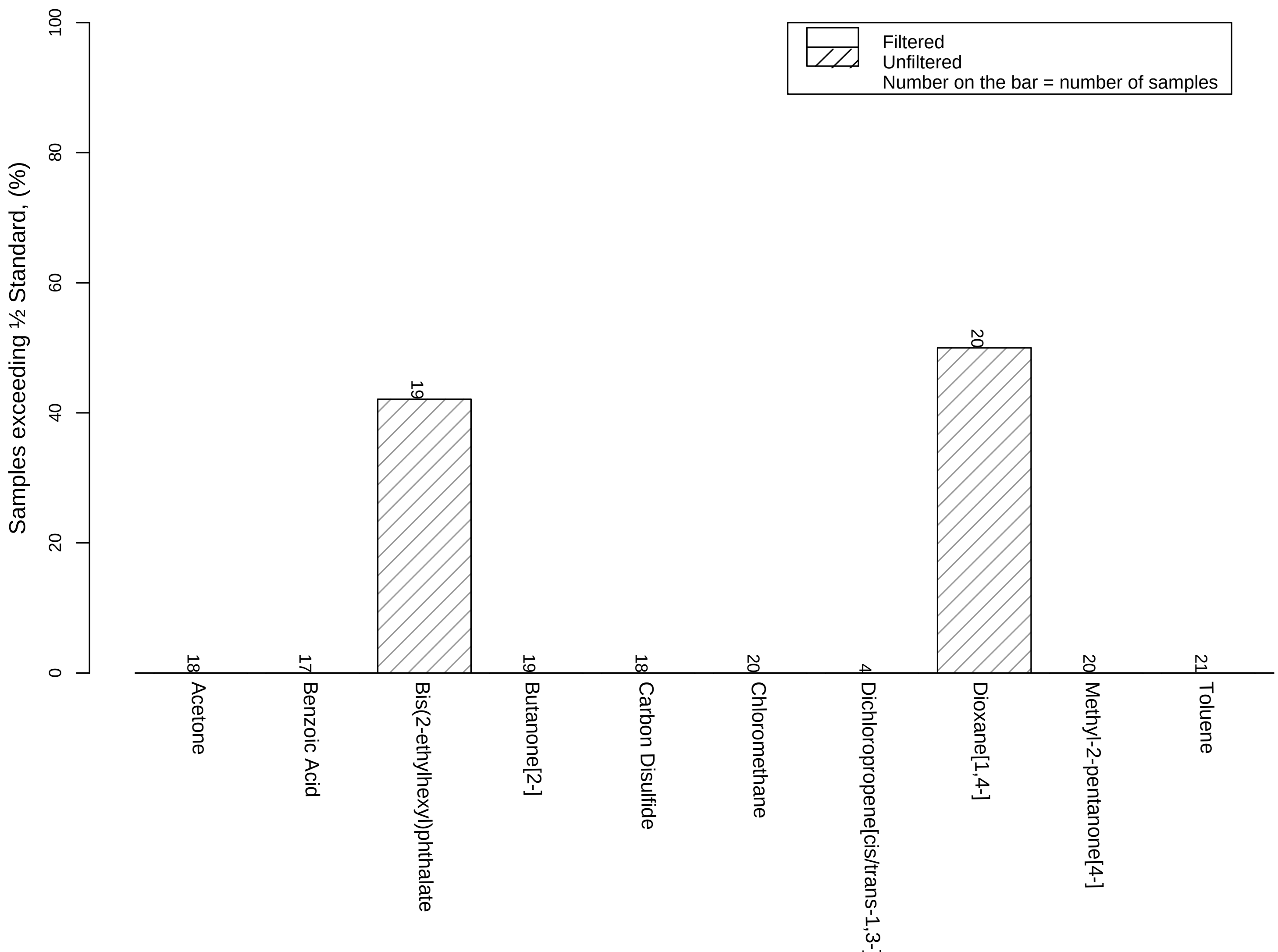


Figure B-4c Mortandad Watershed organics in intermediate (perched zone) groundwater

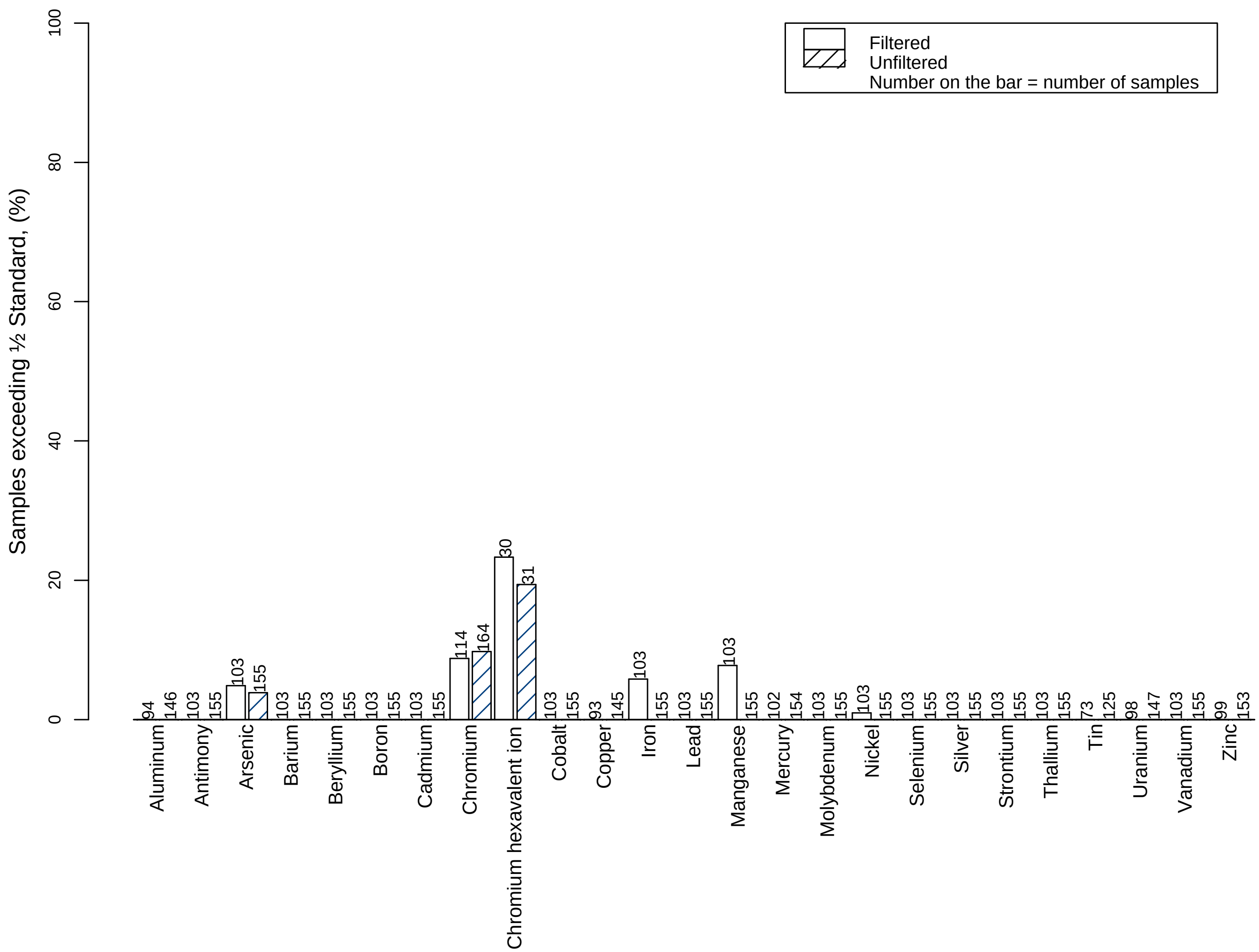
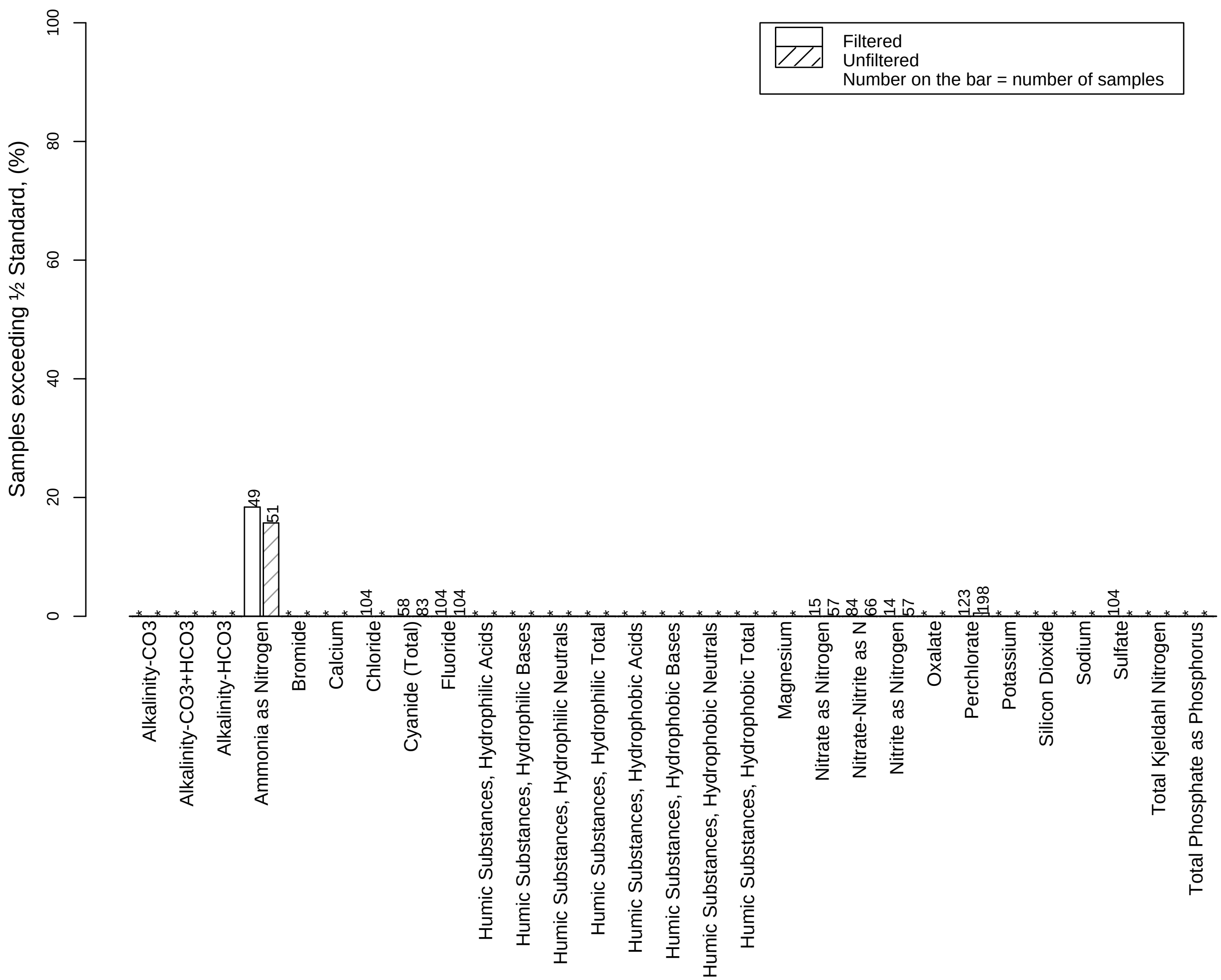


Figure B-5a Mortandad Watershed metals in regional groundwater



Note: * = No applicable standard.

Figure B-5b Mortandad Watershed general inorganics in regional groundwater

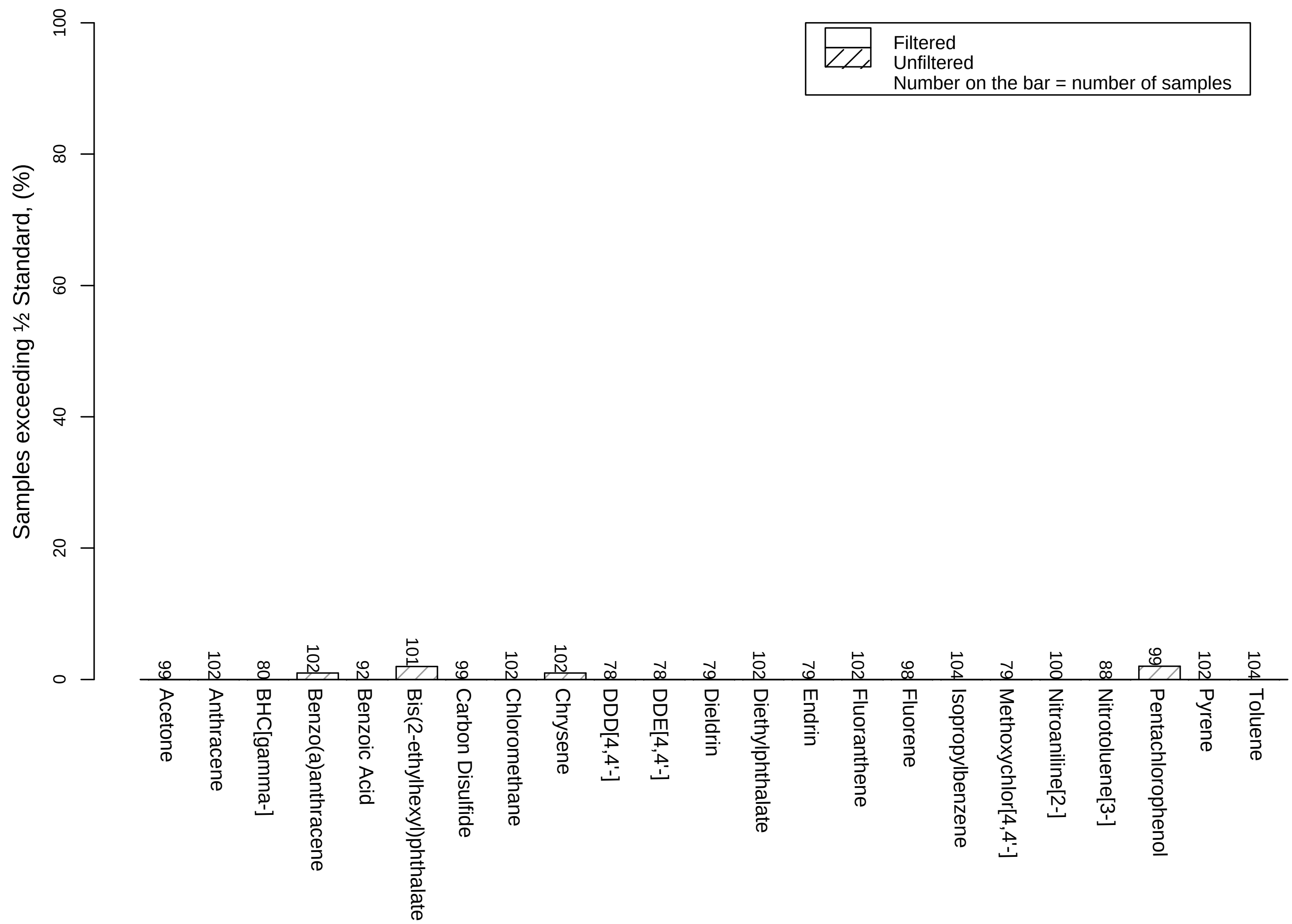


Figure B-5c Mortandad Watershed organics in regional groundwater

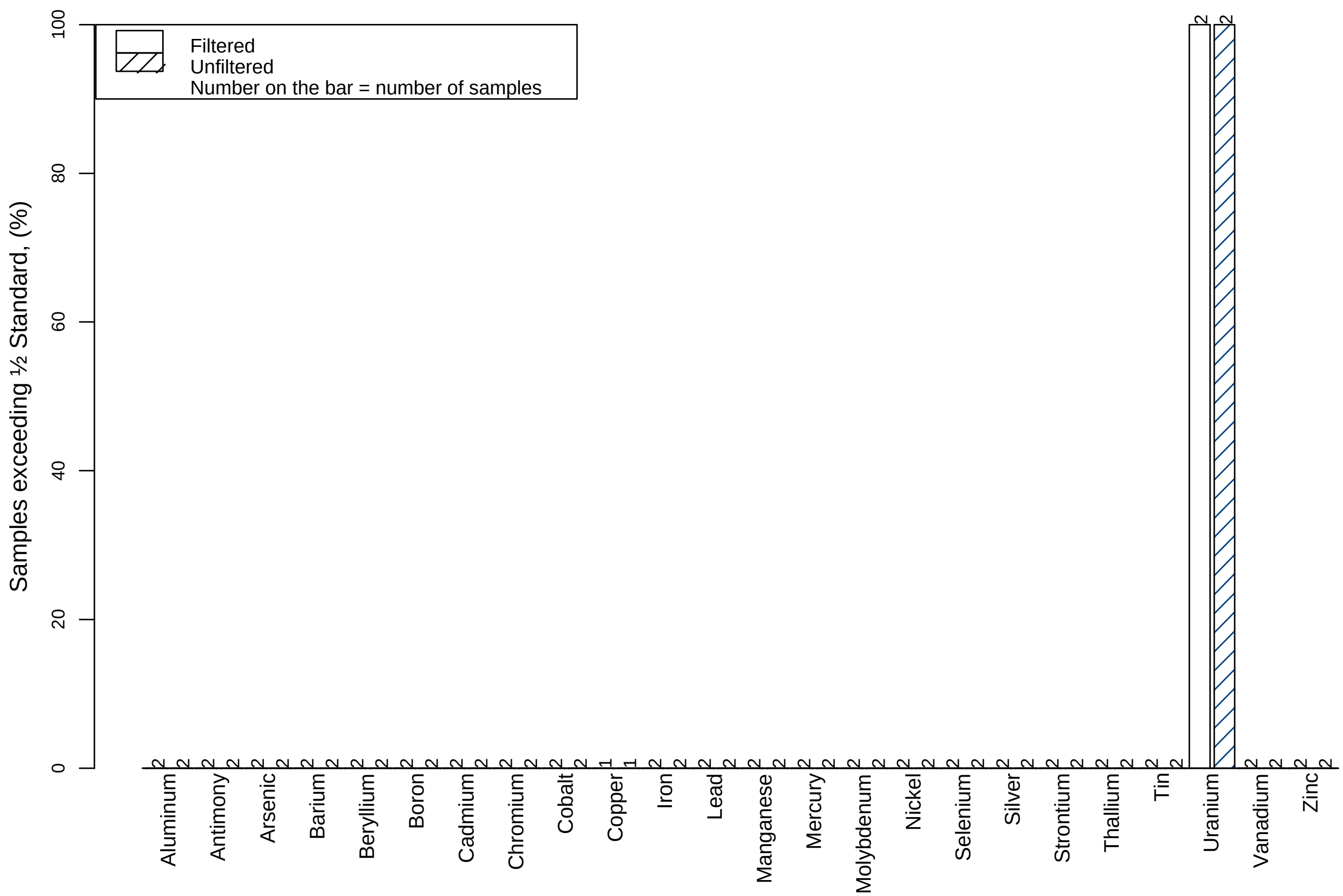
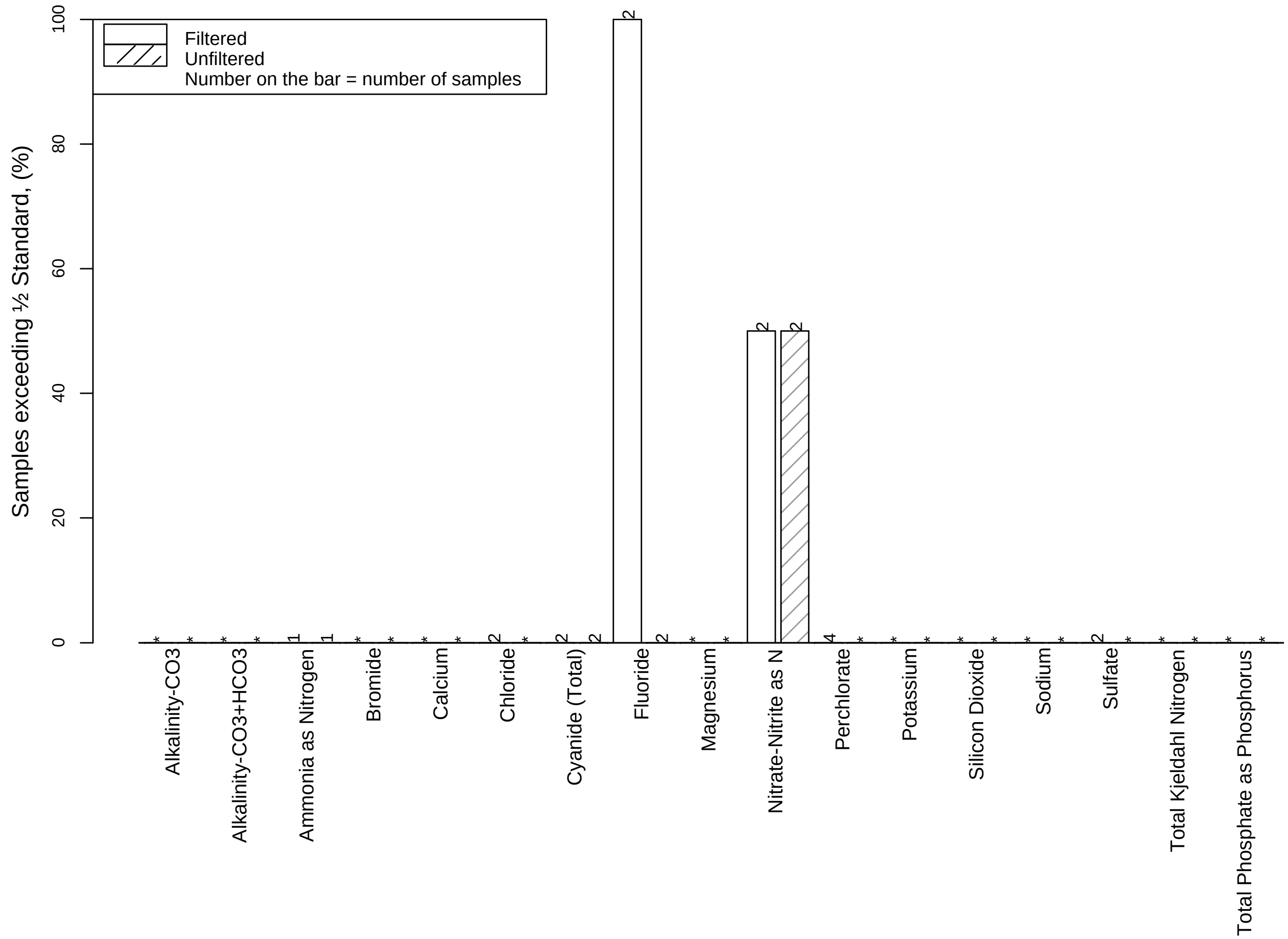


Figure B-6a Mortandad Watershed metals in springs

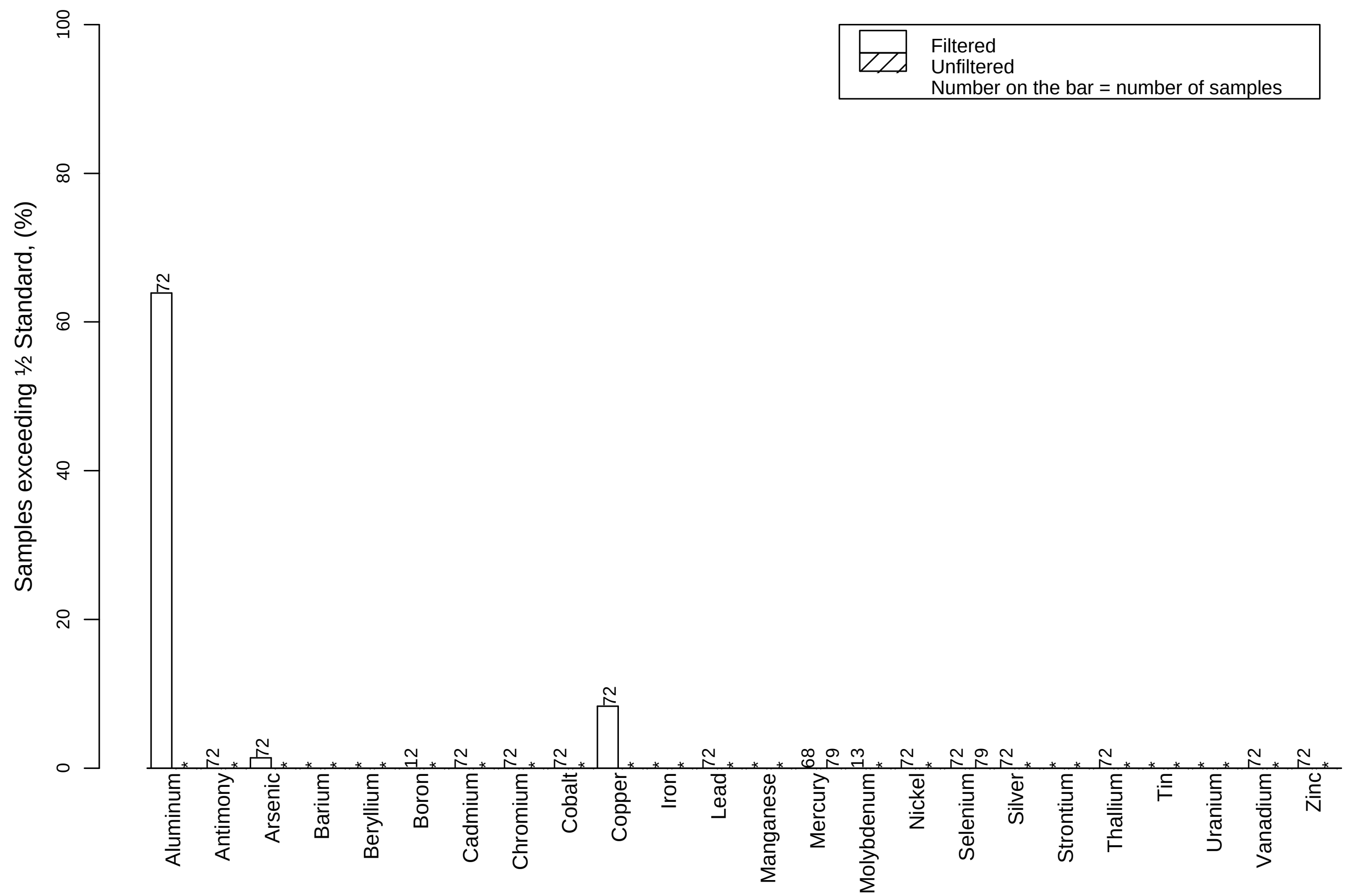


Note: * = no applicable standard.

Figure B-6b Mortandad Watershed general inorganics in springs

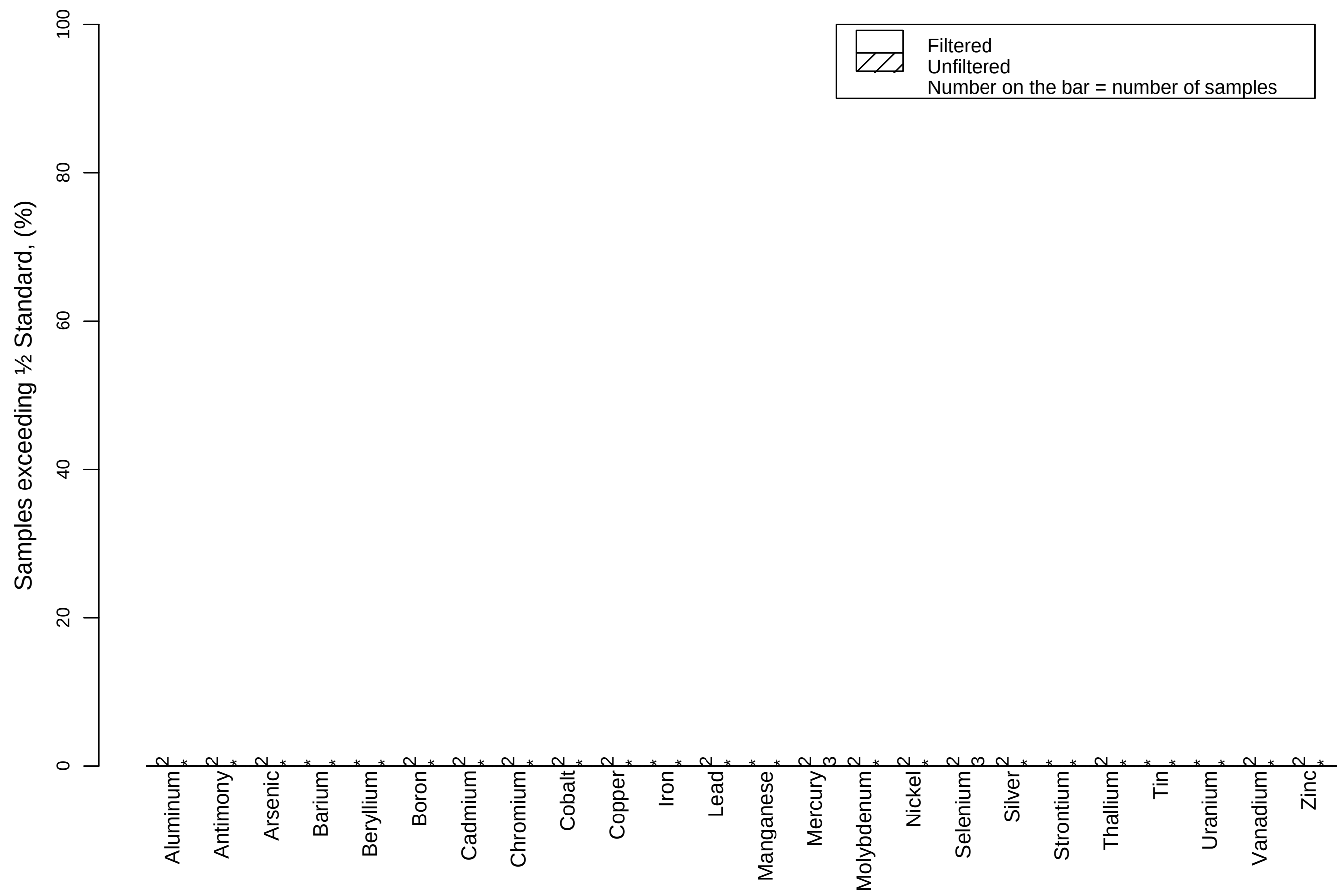
No constituents with applicable standards were detected

Figure B-6c Mortandad Watershed organics in springs



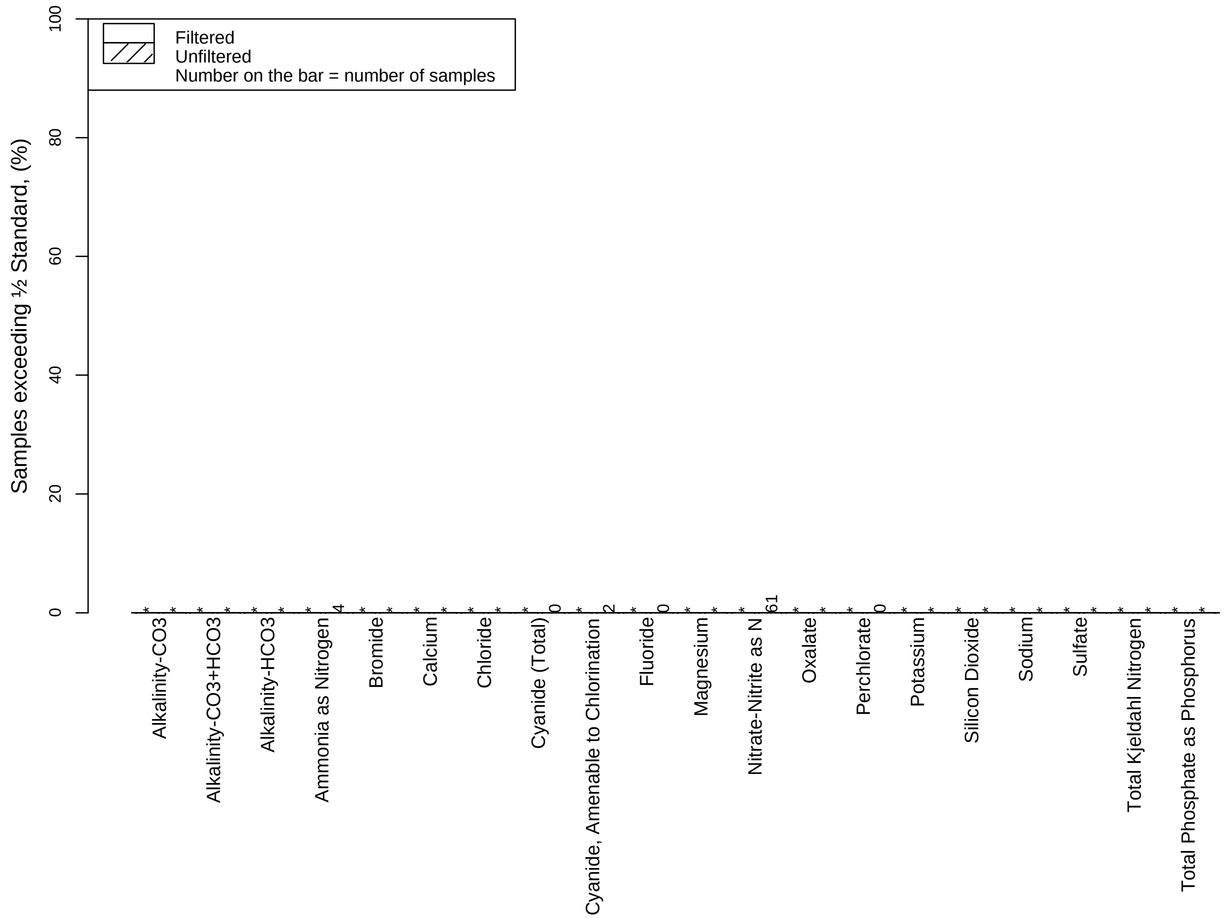
Note: * = No applicable standard.

Figure B-7a Water Canyon metals in ephemeral/intermitent surface water



Note: * = no applicable standard.

Figure B-7a-1 Water Canyon metals in perennial surface water



Note: * = no applicable standard.

Figure B-7b Water Watershed general inorganics in ephemeral/intermitent surface water

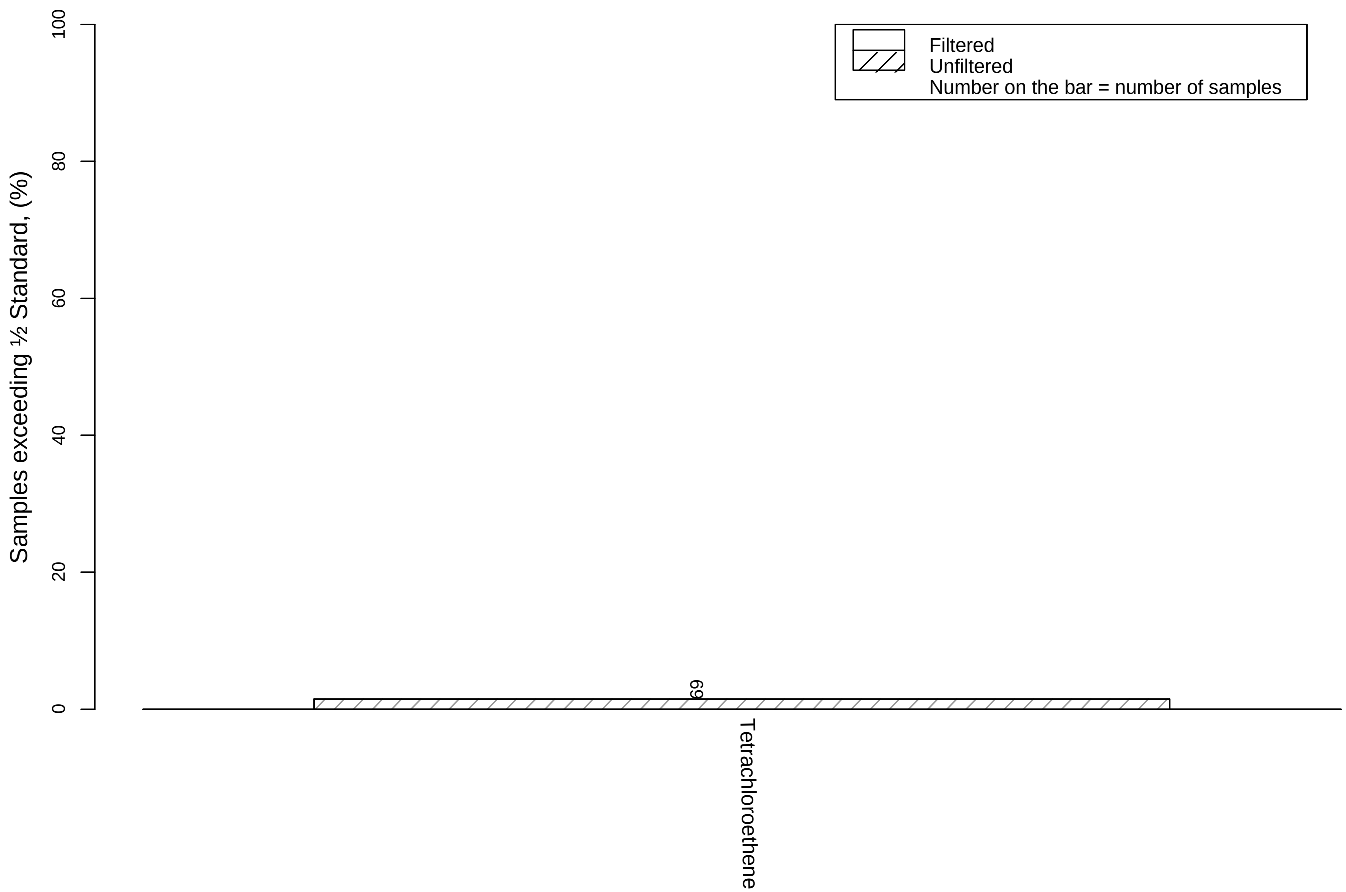


Figure B-7c **Water Canyon Watershed organics in ephemeral/intermitent surface water**

No constituents with applicable standards were detected

Figure B-7c-1 Water Canyon Watershed organics in perennial surface water

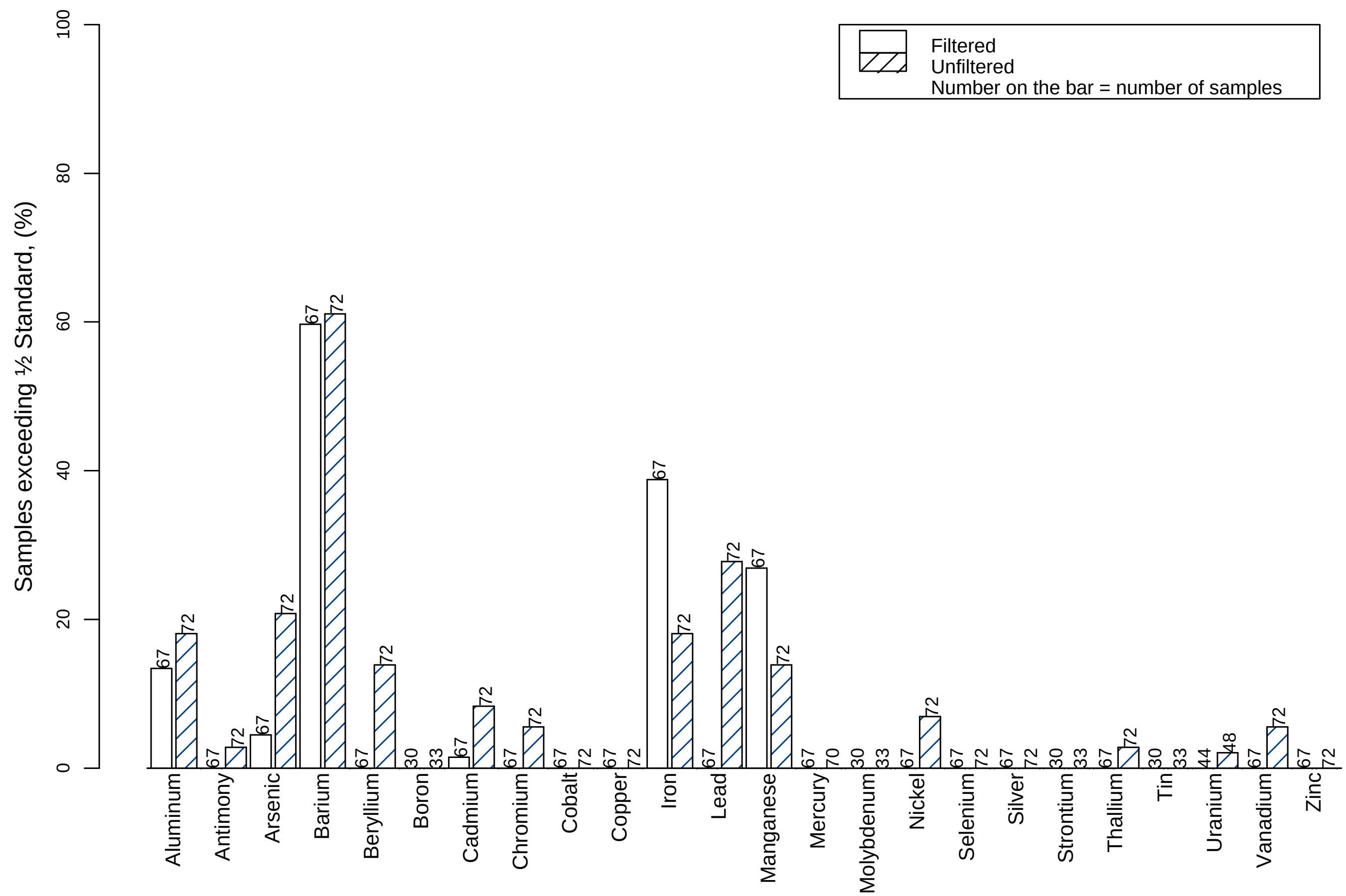
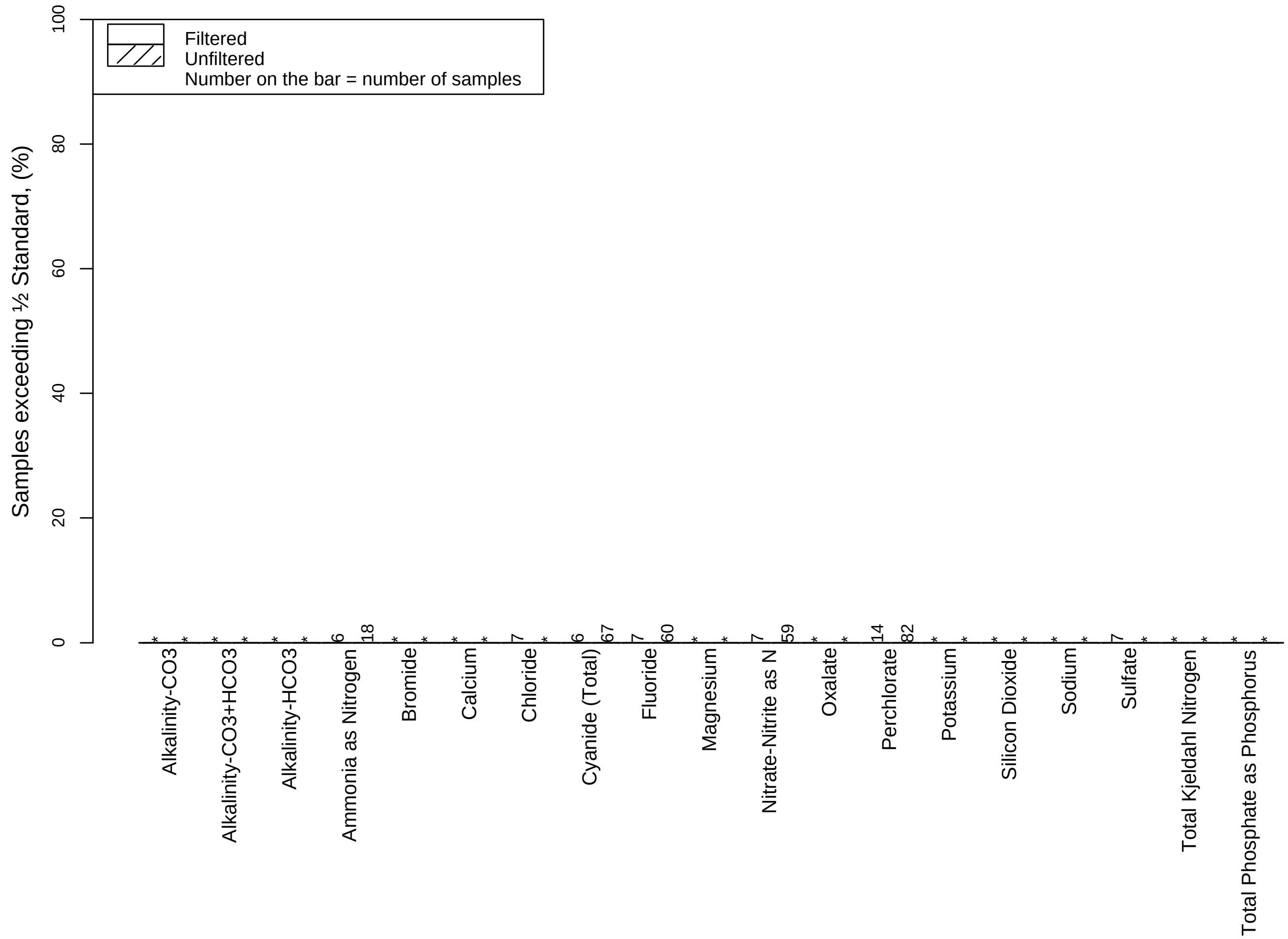


Figure B-8a Water Canyon metals in alluvial groundwater



Note: * = no applicable standard.

Figure B-8b Water Watershed general inorganics in alluvial groundwater

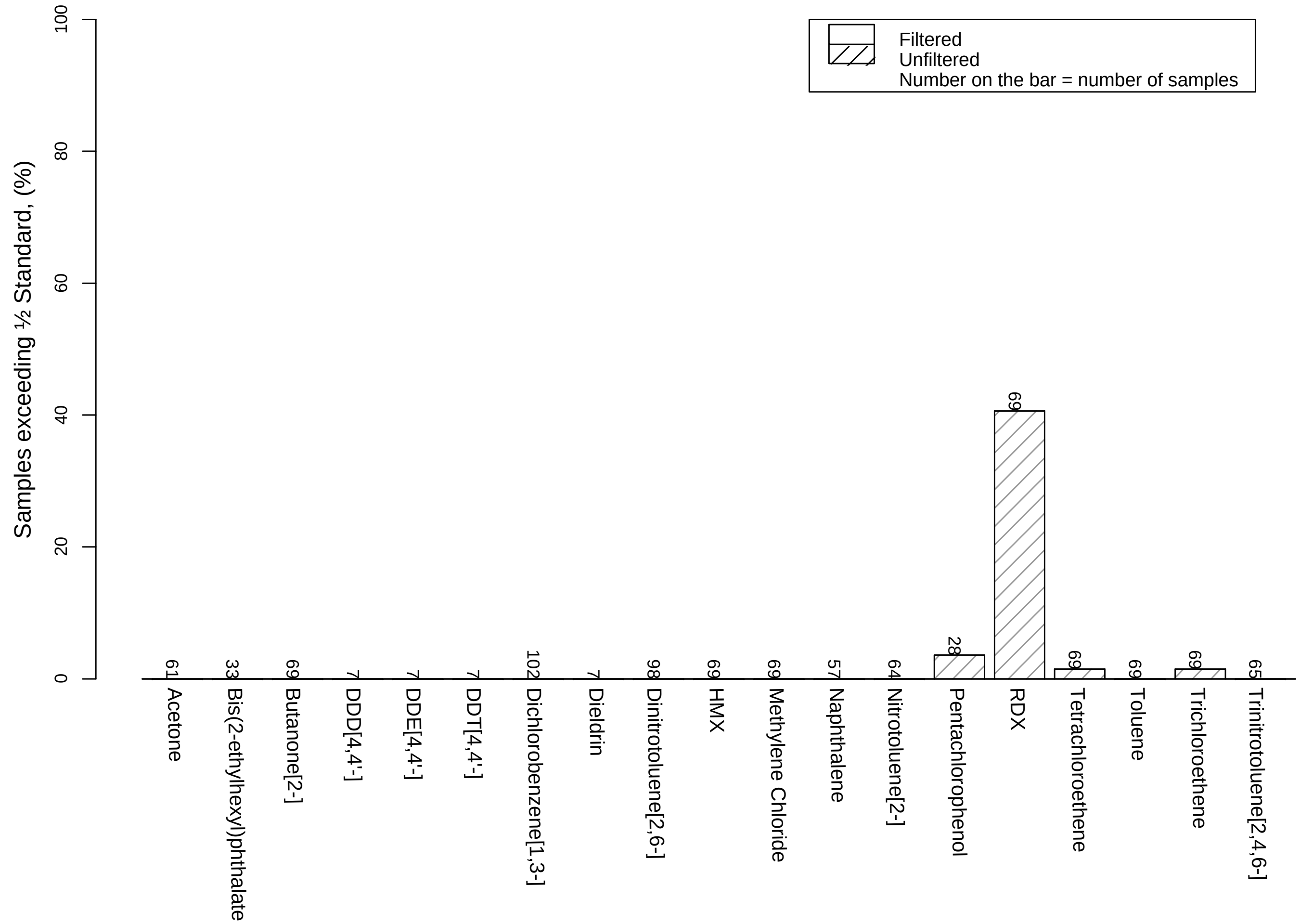


Figure B-8c **Water Canyon Watershed organics in alluvial groundwater**

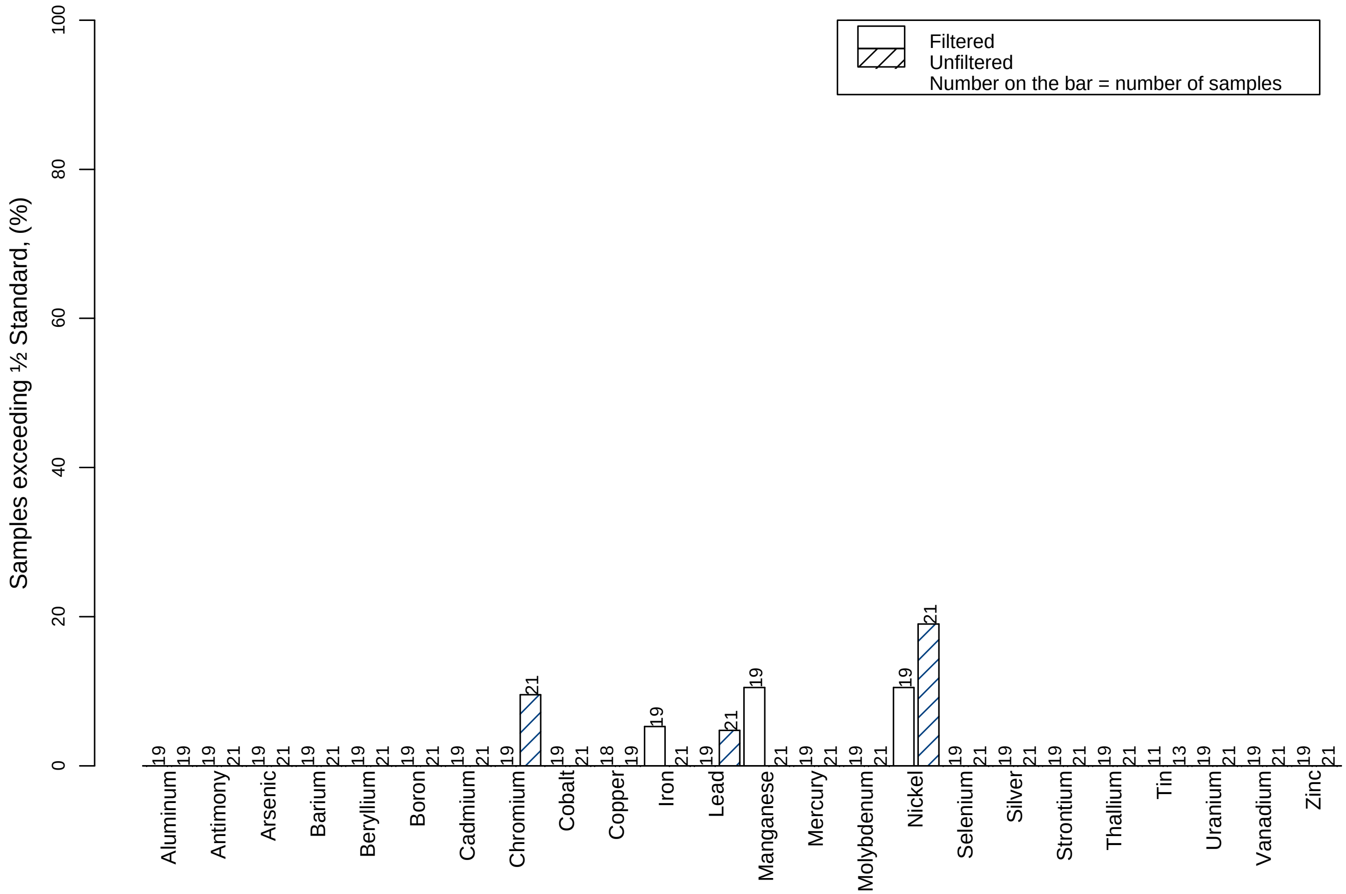
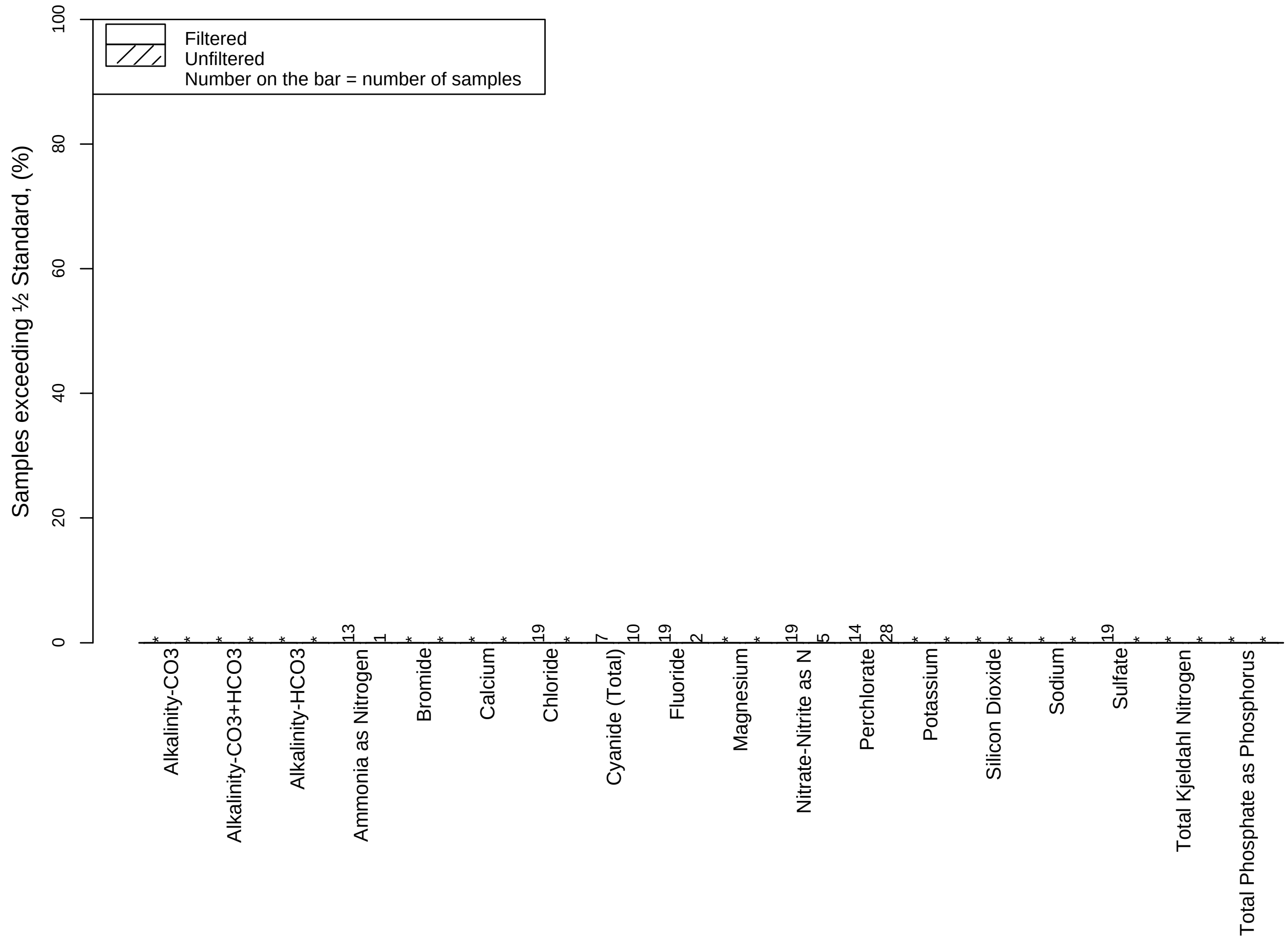


Figure B-9a Water Canyon metals in intermediate (perched zone) groundwater



Note: * = no applicable standard.

Figure B-9b Water Watershed general inorganics in intermediate (perched zone) groundwater

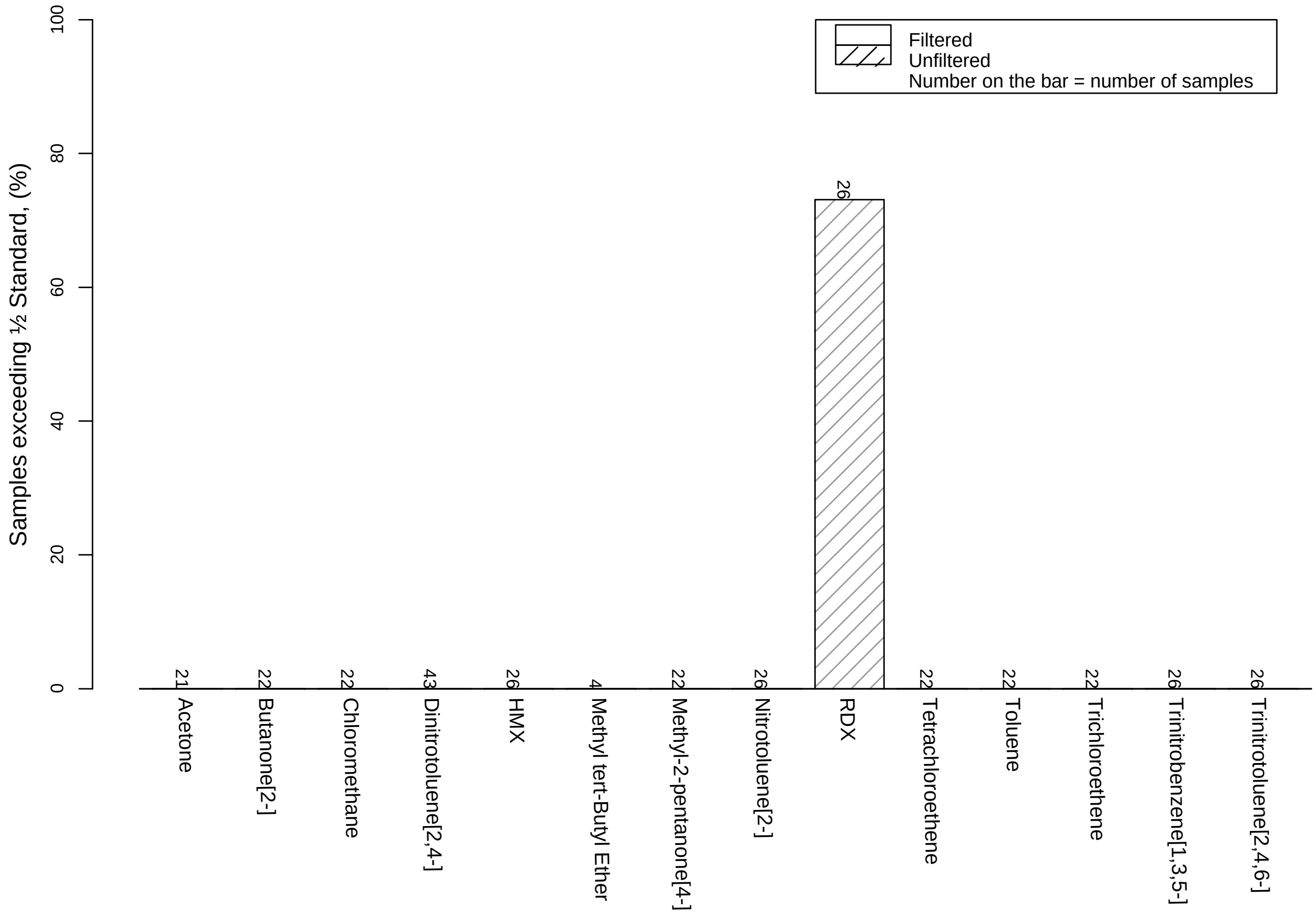


Figure B-9c Water Canyon Watershed organics in intermediate (perched zone) groundwater

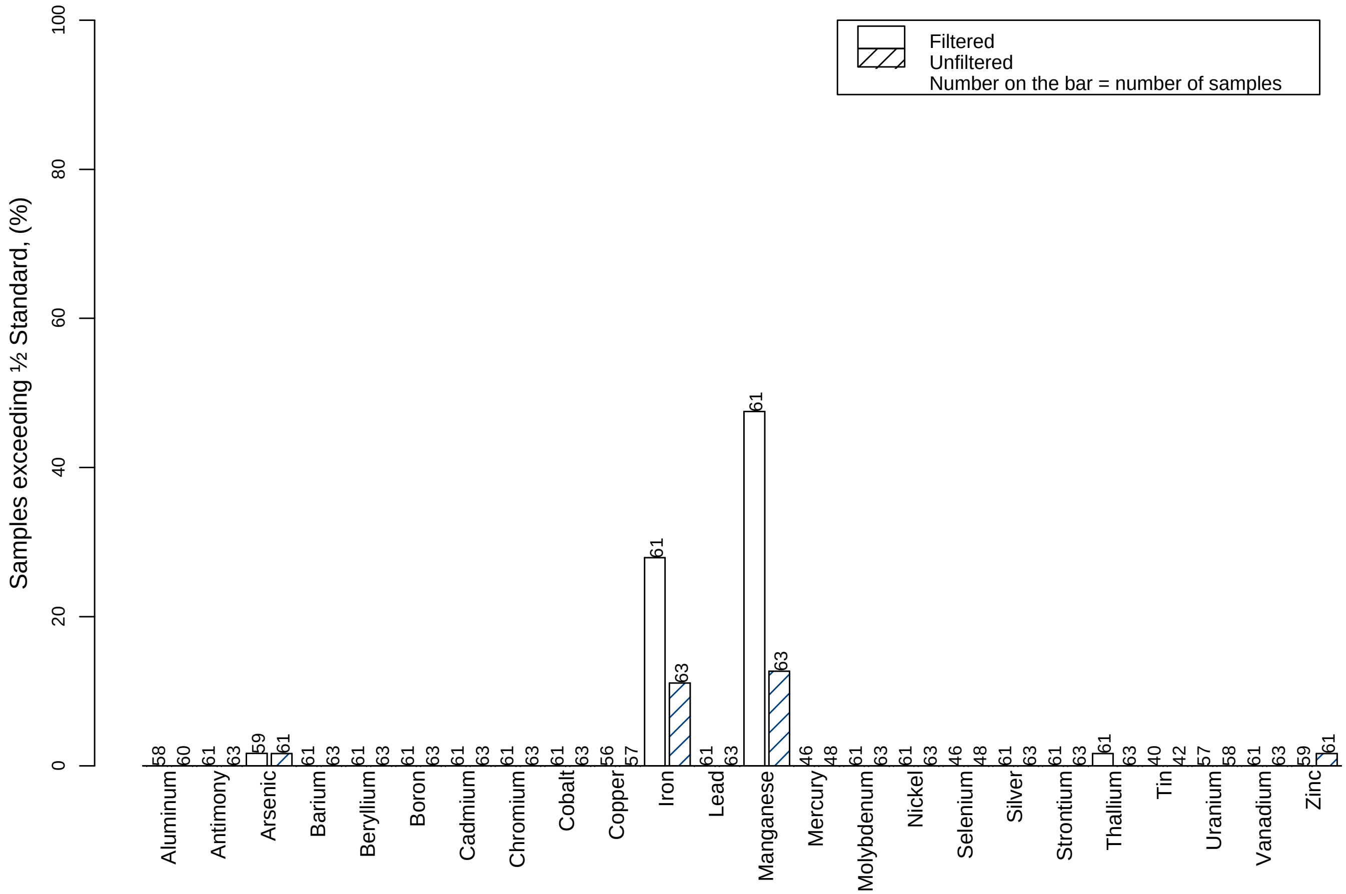
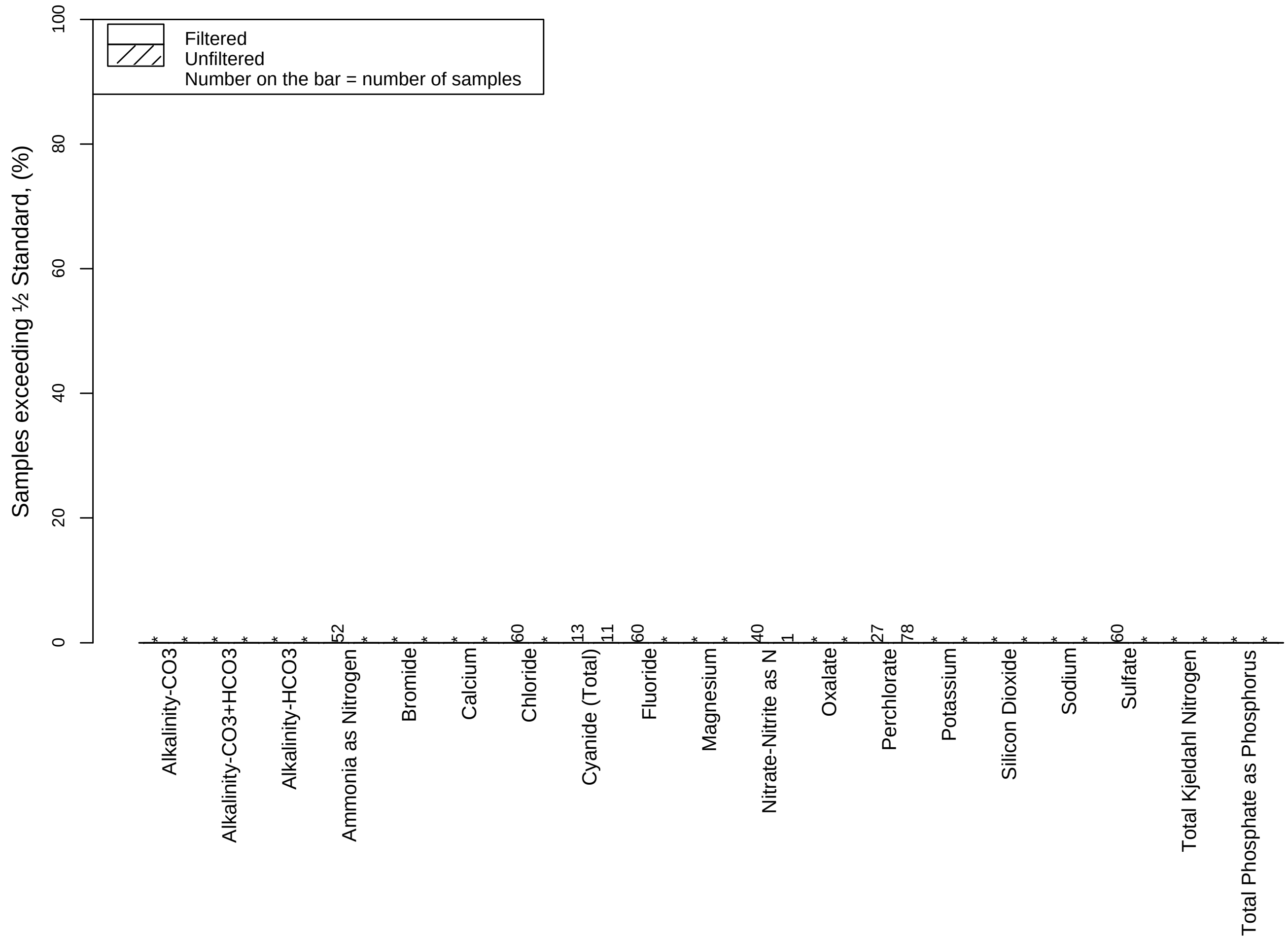


Figure B-10a Water Canyon metals in regional groundwater



Note: * = no applicable standard.

Figure B-10b Water Watershed general inorganics in regional groundwater

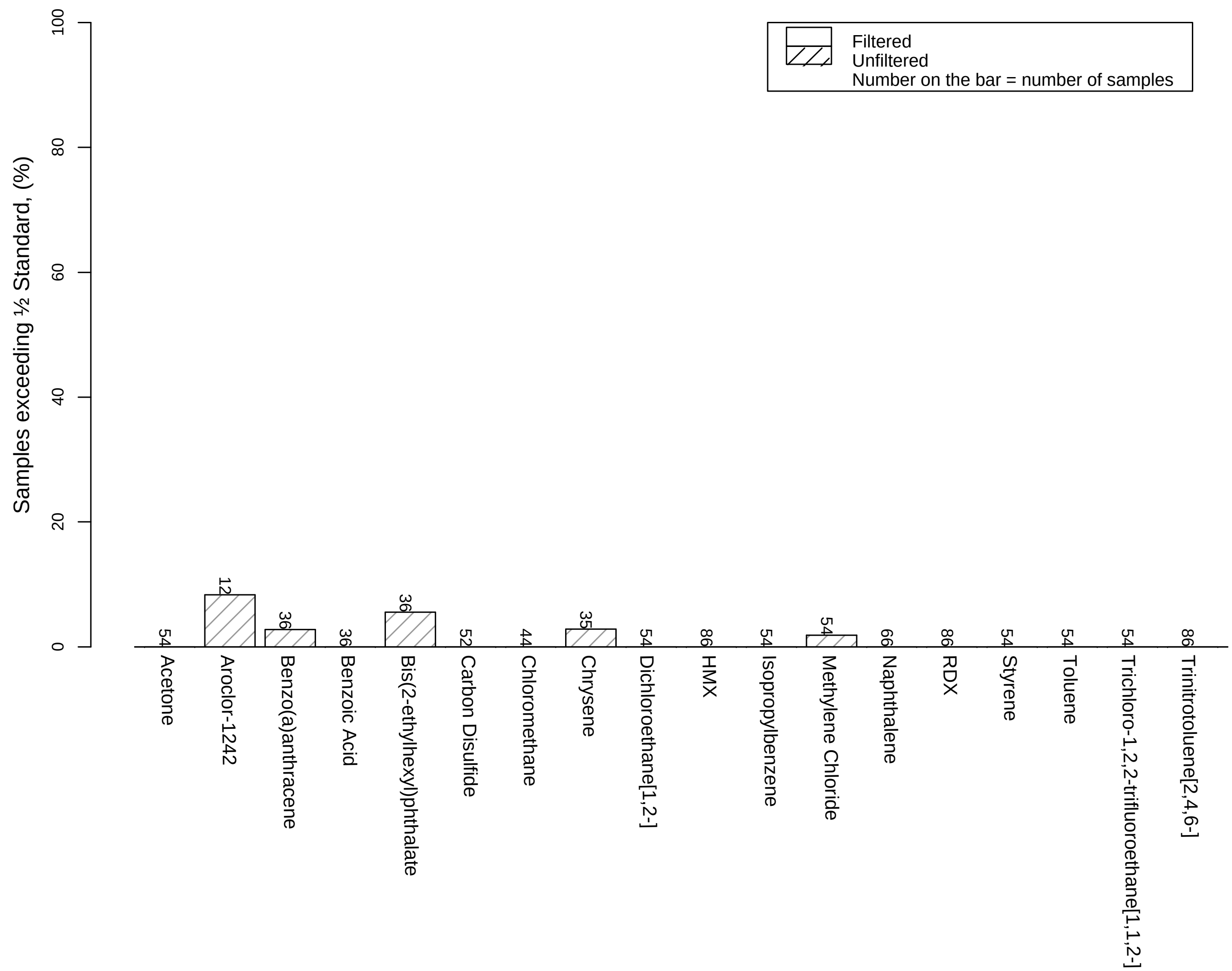


Figure B-10c Water Canyon Watershed organics in regional groundwater

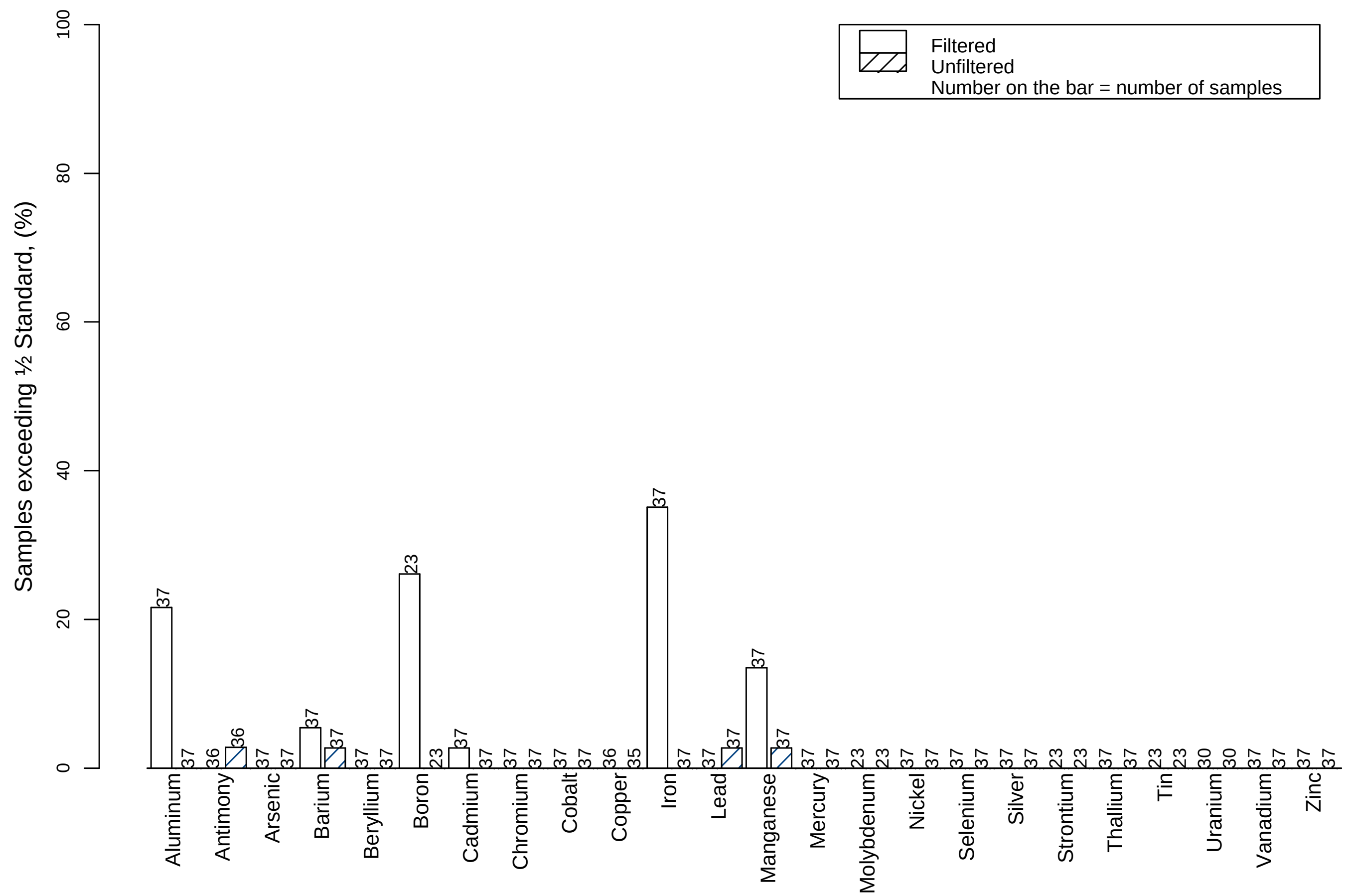
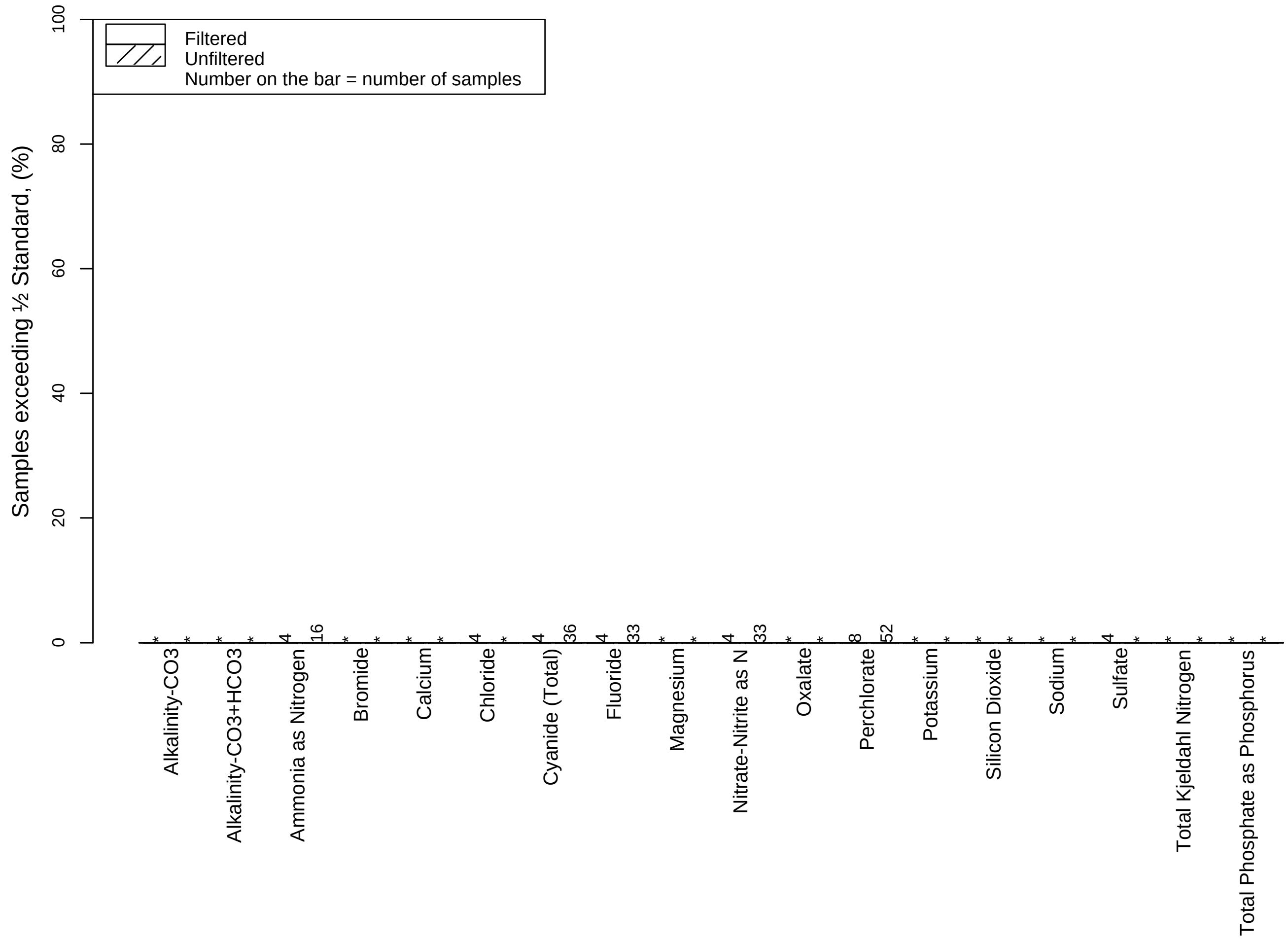


Figure B-11a Water Canyon metals in springs



Note: * = no applicable standard.

Figure B-11b Water Watershed general inorganics in springs

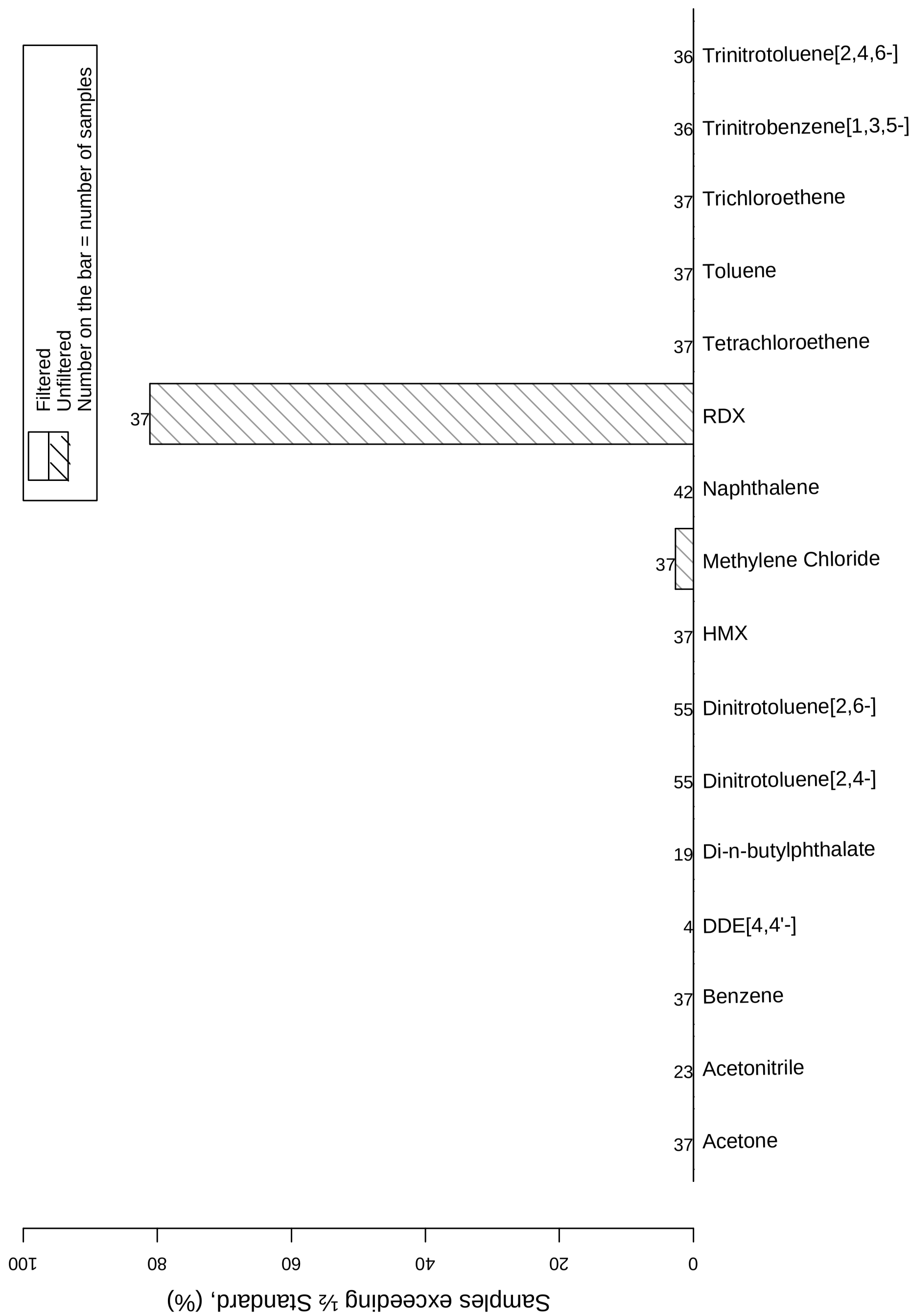


Figure B-11c Water Canyon Watershed organics in springs

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Acenaphthene	µg/L	12	0	0	-	-	-	12	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Acenaphthylene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Acetone	µg/L	10	5	50	2.1	2.86	3.6	5	50	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Acetonitrile	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Acrolein	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Acrylonitrile	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Aldrin	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.0005	HHEU	8	0	0	-
Aniline	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Anthracene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Aroclor-1016	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1221	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1232	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1242	µg/L	20	1	5	0.16	0.16	0.16	19	95	19	1	1	**5**	0.00064	HHEU	11	1	1	6
Aroclor-1248	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1254	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1260	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.00064	HHEU	11	0	0	-
Aroclor-1262	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.00064	HHEU	8	0	0	-
Atrazine	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Azobenzene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
BHC[alpha-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
BHC[beta-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
BHC[delta-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
BHC[gamma-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.95	AqAcU	8	0	0	-
Benzene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Benzidine	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Benzo(a)anthracene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Benzo(a)pyrene	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.18	HHEU	8	0	0	-
Benzo(b)fluoranthene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Benzo(g,h,i)perylene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Benzoic Acid	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Benzyl Alcohol	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Bis(2-chloroethoxy)methane	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Bis(2-ethylhexyl)phthalate	µg/L	12	1	8.33	5.03	5.03	5.03	11	91.7	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Bromobenzene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromochloromethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromodichloromethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromoform	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromomethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromophenyl-phenylether[4-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Butanone[2-]	µg/L	10	2	20	2	2.15	2.3	8	80	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Butylbenzene[n-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Butylbenzene[sec-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Butylbenzene[tert-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Butylbenzylphthalate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Carbon Disulfide	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Carbon Tetrachloride	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chlordane[alpha-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chlordane[gamma-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chloro-1-propene[3-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Chloro-3-methylphenol[4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chloroaniline[4-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chlorobenzene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chlorodibromomethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloroethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloroform	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloromethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloronaphthalene[2-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chlorophenol[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chlorophenyl-phenyl[4-] Ether	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chlorotoluene[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chlorotoluene[4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chrysene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
DDD[4,4'-]	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.0022	HHEU	8	0	0	-
DDE[4,4'-]	µg/L	11	0	0	-	-	-	11	100	11	0	0	0	0.0022	HHEU	8	0	0	-
DDT[4,4'-]	µg/L	10	0	0	-	-	-	10	100	10	0	0	0	0.0022	HHEU	8	0	0	-
Di-n-butylphthalate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Di-n-octylphthalate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dibenzofuran	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dibromo-3-Chloropropane[1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dibromoethane[1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dibromomethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichlorobenzene[1,2-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dichlorobenzene[1,3-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dichlorobenzene[1,4-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dichlorobenzidine[3,3'-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dichlorodifluoromethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloroethane[1,1-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloroethane[1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloroethene[1,1-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloroethene[cis-1,2-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichloroethene[cis/trans-1,2-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Dichloroethene[trans-1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichlorophenol[2,4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dichloropropane[1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloropropane[1,3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Dichloropropene[trans-1,3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Dieldrin	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.00054	HHEU	8	0	0	-
Diethylphthalate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dimethyl Phthalate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dimethylphenol[2,4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dinitro-2-methylphenol[4,6-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dinitrophenol[2,4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dinitrotoluene[2,4-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dinitrotoluene[2,6-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Dinoseb	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dioxane[1,4-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Diphenylamine	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Endosulfan I	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.22	AqAcU	8	0	0	-
Endosulfan II	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.22	AqAcU	8	0	0	-
Endosulfan Sulfate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Endrin	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.086	AqAcU	8	0	0	-
Endrin Aldehyde	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Endrin Ketone	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Ethyl Methacrylate	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Ethylbenzene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Fluoranthene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Fluorene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Heptachlor	µg/L	11	0	0	-	-	-	11	100	0	0	0	0	0.52	AqAcU	8	0	0	-
Heptachlor Epoxide	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.52	AqAcU	8	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	5	3	60	3.00E-06	0.0000309	4.11E-05	2	40	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	3	3	100	3.00E-06	0.0000609	9.44E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	5	2	40	7.82E-06	8.165E-06	8.51E-06	3	60	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	3	3	100	2.25E-06	7.82E-06	1.97E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorobenzene	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.0029	HHEU	8	0	0	-
Hexachlorobutadiene	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorocyclopentadiene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxins (Total)	µg/L	3	2	67	2.37E-06	5.76E-06	9.15E-06	1	33.3	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	5	2	40	8.42E-07	1.071E-06	1.3E-06	3	60	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	3	3	100	2.68E-06	8.72E-06	1.34E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachloroethane	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexanone[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Iodomethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Isophorone	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Isopropylbenzene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Isopropyltoluene[4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Methacrylonitrile	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Methoxychlor[4,4'-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Methyl Methacrylate	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Methyl-1-propanol[2-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Methyl-2-pentanone[4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Methylene Chloride	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Methylnaphthalene[1-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Methylphenol[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Methylphenol[3-,4-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[4-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Methylpyridine[2-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Naphthalene	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitroaniline[2-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitroaniline[3-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitroaniline[4-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitrobenzene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitrophenol[2-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Nitrophenol[4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitroso-di-n-butylamine[N-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitroso-di-n-propylamine[N-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitrosodiethylamine[N-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrosodimethylamine[N-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Nitrosopyrrolidine[N-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	5	3	60	0.00017	0.000271	0.000286	2	40	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	5	3	60	4.51E-06	9.99E-06	1.49E-05	2	40	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorobenzene	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	3	3	100	7.99E-07	3.72E-06	4.38E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorophenol	µg/L	10	0	0	-	-	-	10	100	0	0	0	0	19	AqAcU	8	0	0	-
Phenanthrene	µg/L	9	1	11.1	0.28	0.28	0.28	8	88.9	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Phenol	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Propionitrile	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Propylbenzene[1-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Pyrene	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pyridine	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Styrene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Tetrachloroethane[1,1,2,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Tetrachloroethene	µg/L	10	0	0	-	-	-	10	100	0	0	0	0	33	HHEU	7	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Toluene	µg/L	10	4	40	0.41	1.995	2.9	6	60	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Toxaphene (Technical Grade)	µg/L	12	0	0	-	-	-	12	100	8	0	0	0	0.73	AqAcU	8	0	0	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Trichlorobenzene[1,2,3-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Trichloroethane[1,1,1-]	µg/L	10	1	10	0.468	0.468	0.468	9	90	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trichloroethane[1,1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trichloroethene	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trichlorofluoromethane	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trichlorophenol[2,4,5-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Trichlorophenol[2,4,6-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Trichloropropane[1,2,3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trimethylbenzene[1,2,4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Trimethylbenzene[1,3,5-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Vinyl Chloride	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Vinyl acetate	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Xylene (Total)	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Xylene[1,2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Perennial portions of watershed [d]																			
Acenaphthene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	990	HHPU	1	0	0	-
Acenaphthylene	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acetone	µg/L	3	1	33.3	2.8	2.8	2.8	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acetonitrile	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acrolein	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	290	HHPU	1	0	0	-
Acrylonitrile	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	2.5	HHPU	1	0	0	-
Aldrin	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0005	HHPU	1	0	0	-
Aniline	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Anthracene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	40000	HHPU	1	0	0	-
Aroclor-1016	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1221	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1232	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1242	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1248	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1254	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1260	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1262	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Atrazine	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Azobenzene	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
BHC[alpha-]	µg/L	3	0	0	-	-	-	3	100	1	0	0	0	0.049	HHPU	1	0	0	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
BHC[beta-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.17	HHPU	1	0	0	-
BHC[delta-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
BHC[gamma-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.63	HHPU	1	0	0	-
Benzene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	510	HHPU	1	0	0	-
Benzidine	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Benzo(a)anthracene	µg/L	3	1	33.3	1.3	1.3	1.3	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Benzo(a)pyrene	µg/L	3	1	33.3	1.2	1.2	1.2	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Benzo(b)fluoranthene	µg/L	3	1	33.3	1.3	1.3	1.3	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Benzo(g,h,i)perylene	µg/L	3	1	33.3	1.2	1.2	1.2	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	3	1	33.3	1.3	1.3	1.3	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Benzoic Acid	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Benzyl Alcohol	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bis(2-chloroethoxy)methane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	5.3	HHPU	1	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	3	1	33.3	3.4	3.4	3.4	2	66.7	0	0	0	0	22	HHPU	1	0	0	
Bromobenzene	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromochloromethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromodichloromethane	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	170	HHPU	1	0	0	-
Bromoform	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1400	HHPU	1	0	0	-
Bromomethane	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1500	HHPU	1	0	0	-
Bromophenyl-phenylether[4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butanone[2-]	µg/L	3	1	33.3	3.3	3.3	3.3	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[n-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[sec-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[tert-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzylphthalate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1900	HHPU	1	0	0	-
Carbon Disulfide	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Carbon Tetrachloride	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	16	HHPU	1	0	0	-
Chlordane[alpha-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlordane[gamma-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-1-propene[3-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-3-methylphenol[4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroaniline[4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorobenzene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	21000	HHPU	1	0	0	-
Chlorodibromomethane	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	130	HHPU	1	0	0	-
Chloroethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroform	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	4700	HHPU	1	0	0	-
Chloromethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloronaphthalene[2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1600	HHPU	1	0	0	-
Chlorophenol[2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	150	HHPU	1	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorotoluene[2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorotoluene[4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chrysene	µg/L	3	1	33.3	1.4	1.4	1.4	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
DDD[4,4'-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0022	HHPU	1	0	0	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
DDE[4,4'-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0022	HHPU	1	0	0	-
DDT[4,4'-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0022	HHPU	1	0	0	-
Di-n-butylphthalate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	4500	HHPU	1	0	0	-
Di-n-octylphthalate	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	3	1	33.3	1.2	1.2	1.2	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Dibenzofuran	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromo-3-Chloropropane[1,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromoethane[1,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromomethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichlorobenzene[1,2-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	17000	HHPU	1	0	0	-
Dichlorobenzene[1,3-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	960	HHPU	1	0	0	-
Dichlorobenzene[1,4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	2600	HHPU	1	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.28	HHPU	1	0	0	-
Dichlorodifluoromethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethane[1,1-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethane[1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	370	HHPU	1	0	0	-
Dichloroethene[1,1-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	32	HHPU	1	0	0	-
Dichloroethene[cis-1,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethene[cis/trans-1,2-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethene[trans-1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	140000	HHPU	1	0	0	-
Dichlorophenol[2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	290	HHPU	1	0	0	-
Dichloropropane[1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	150	HHPU	1	0	0	-
Dichloropropane[1,3-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[trans-1,3-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dieldrin	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.00054	HHPU	1	0	0	-
Diethylphthalate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	44000	HHPU	1	0	0	-
Dimethyl Phthalate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1100000	HHPU	1	0	0	-
Dimethylphenol[2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	850	HHPU	1	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	280	HHPU	1	0	0	-
Dinitrophenol[2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	5300	HHPU	1	0	0	-
Dinitrotoluene[2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	34	HHPU	1	0	0	-
Dinitrotoluene[2,6-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dinoseb	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dioxane[1,4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Diphenylamine	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endosulfan I	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.22	AqAcU	1	0	0	-
Endosulfan II	µg/L	3	0	0	-	-	-	3	100	1	0	0	0	0.22	AqAcU	1	0	0	-
Endosulfan Sulfate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	89	HHPU	1	0	0	-
Endrin	µg/L	3	0	0	-	-	-	3	100	1	0	0	0	0.086	AqAcU	1	0	0	-
Endrin Aldehyde	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.3	HHPU	1	0	0	-
Endrin Ketone	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ethyl Methacrylate	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ethylbenzene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	29000	HHPU	1	0	0	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Fluoranthene	μg/L	3	1	33.3	0.26	0.26	0.26	2	66.7	0	0	0	0	140	HHPU	1	0	0	
Fluorene	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	5300	HHPU	1	0	0	-
Heptachlor	μg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.00079	HHPU	1	0	0	-
Heptachlor Epoxide	μg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.00039	HHPU	1	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	μg/L	2	2	100	9.9E-06	0.0003715	0.000733	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	μg/L	2	2	100	1.7E-05	0.0005686	0.00112	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	μg/L	2	2	100	4.9E-06	0.0001199	0.000235	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	μg/L	2	2	100	2.23E-06	1.052E-05	1.88E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofurans (Total)	μg/L	2	2	100	1E-05	0.000372	0.000734	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorobenzene	μg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0029	HHPU	1	0	0	-
Hexachlorobutadiene	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	180	HHPU	1	0	0	-
Hexachlorocyclopentadiene	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	17000	HHPU	1	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	μg/L	2	2	100	2.52E-06	3.11E-06	3.7E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	μg/L	2	2	100	2.93E-06	1.502E-05	2.71E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	μg/L	2	2	100	2.29E-06	4.915E-06	7.54E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxins (Total)	μg/L	2	2	100	7.74E-06	4.582E-05	8.39E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	μg/L	2	2	100	4.46E-06	6.815E-06	9.17E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	μg/L	2	1	50	6.10E-06	0.0000061	6.1E-06	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	μg/L	2	2	100	2.60E-06	6.35E-06	1.01E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofurans (Total)	μg/L	2	2	100	1.4E-05	0.0001116	0.000209	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachloroethane	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	33	HHPU	1	0	0	-
Hexanone[2-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	μg/L	3	1	33.3	1.2	1.2	1.2	2	66.7	2	1	1	**33.3**	0.18	HHPU	1	1	1	11
Iodomethane	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Isophorone	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	9600	HHPU	1	0	0	-
Isopropylbenzene	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Isopropyltoluene[4-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methacrylonitrile	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methoxychlor[4,4'-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl Methacrylate	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl-1-propanol[2-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl-2-pentanone[4-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylene Chloride	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	5900	HHPU	1	0	0	-
Methylnaphthalene[1-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[2-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[3-,4-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[4-]	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylpyridine[2-]	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Naphthalene	μg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[2-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[3-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[4-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrobenzene	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	690	HHPU	1	0	0	-
Nitrophenol[2-]	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Nitrophenol[4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroso-di-n-butylamine[N-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroso-di-n-propylamine[N-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	5.1	HHPU	1	0	0	-
Nitrosodiethylamine[N-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrosodimethylamine[N-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	30	HHPU	1	0	0	-
Nitrosopyrrolidine[N-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	2	2	100	6E-05	0.002205	0.00435	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	2	2	100	5.4E-06	0.0003262	0.000647	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	65000	HHPU	1	0	0	-
Pentachlorobenzene	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	2	2	100	1.64E-06	2.99E-06	4.34E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	2	2	100	4.93E-06	7.665E-06	1.04E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	2	1	50	7.57E-06	7.57E-06	7.57E-06	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	2	2	100	1.79E-05	0.000028	3.81E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorophenol	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	19	AqAcU	1	0	0	-
Phenanthrene	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Phenol	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1700000	HHPU	1	0	0	-
Propionitrile	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Propylbenzene[1-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pyrene	µg/L	3	1	33.3	0.45	0.45	0.45	2	66.7	0	0	0	0	4000	HHPU	1	0	0	
Pyridine	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Styrene	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	1	1	100	2.85E-06	2.85E-06	2.85E-06	0	0	0	1	1	**100**	5.1E-08	HHPU	1	1	1	11
Tetrachlorodibenzodioxins (Total)	µg/L	2	2	100	1.13E-06	2.51E-06	3.89E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	2	2	100	2.69E-06	3.055E-06	3.42E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	2	2	100	2.69E-06	3.055E-06	3.42E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,2,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	40	HHPU	1	0	0	-
Tetrachloroethene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	33	HHPU	1	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Toluene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	200000	HHPU	1	0	0	-
Toxaphene (Technical Grade)	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.0028	HHPU	1	0	0	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorobenzene[1,2,3-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	940	HHPU	1	0	0	-
Trichloroethane[1,1,1-]	µg/L	3	1	33.3	0.419	0.419	0.419	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichloroethane[1,1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	160	HHPU	1	0	0	-
Trichloroethene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	300	HHPU	1	0	0	-
Trichlorofluoromethane	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorophenol[2,4,5-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorophenol[2,4,6-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	24	HHPU	1	0	0	-
Trichloropropane[1,2,3-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trimethylbenzene[1,2,4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trimethylbenzene[1,3,5-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-1a
Screening Table for Los Alamos Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Vinyl Chloride	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	5300	HHPU	1	0	0	-
Vinyl acetate	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Xylene (Total)	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Xylene[1,2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

[a] Screening Standard

AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)

1=Los Alamos Canyon near Otowi Bridge
2=Los Alamos above DP Canyon
3=Los Alamos above SR-4
4=Los Alamos below Ice Rink
5=Los Alamos below LA Weir
6=Los Alamos below Omega West
7=DP above Los Alamos Canyon
8=DP below Meadow at TA-21
9=Pueblo 3
10=Pueblo above Acid
11=Pueblo above SR-502
12=Acid above Pueblo
13=Guaje at SR-502

[c] n/a = Not applicable.
[d] Designation includes Station E060, intermitent surface water location subject to standards for perennial waters.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-1b
Screening Table for Los Alamos Watershed Organics in Alluvial Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Acenaphthene	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	365	Reg6	16	0	0	-
Acenaphthylene	μg/L	33	0	0	-	-	-	33	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Acetone	μg/L	25	1	4	4.51	4.51	4.51	24	96	0	0	0	0	5475	Reg6	15	0	0	-
Acetonitrile	μg/L	18	0	0	-	-	-	18	100	0	0	0	0	124.1	Reg6	14	0	0	-
Acetophenone	μg/L	13	0	0	-	-	-	13	100	0	0	0	0	608.3333	Reg6	12	0	0	-
Acrolein	μg/L	25	0	0	-	-	-	25	100	25	0	0	0	0.041619	Reg6	15	0	0	-
Acrylonitrile	μg/L	25	0	0	-	-	-	25	100	25	0	0	0	1.237239	Reg6	15	0	0	-
Aldrin	μg/L	32	0	0	-	-	-	32	100	0	0	0.00	0	0.039548	Reg6	16	0	0	-
Aniline	μg/L	20	0	0	-	-	-	20	100	0	0	0.000	0	117.9501	Reg6	15	0	0	-
Anthracene	μg/L	33	0	0	-	-	-	33	100	0	0	0.000	0	1825	Reg6	16	0	0	-
Aroclor-1016	μg/L	21	0	0	-	-	-	21	100	0	0	0.000	0	0.5	MCL	13	0	0	-
Aroclor-1221	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1232	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1242	μg/L	21	0	0	-	-	-	21	100	0	0	0.000	0	0.5	MCL	13	0	0	-
Aroclor-1248	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1254	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1260	μg/L	21	1	4.76	0.063	0.063	0.063	20	95.2	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1262	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	0.5	MCL	13	0	0	-
Atrazine	μg/L	15	0	0	-	-	-	15	100	15	0	0	0	3	MCL	12	0	0	-
Azobenzene	μg/L	22	0	0	-	-	-	22	100	22	0	0	0	6.111958	Reg6	15	0	0	-
BHC[alpha-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	0.106717	Reg6	16	0	0	-
BHC[beta-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	0.373509	Reg6	16	0	0	-
BHC[delta-]	μg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
BHC[gamma-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	0.2	MCL	16	0	0	-
Benzene	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	5	MCL	15	0	0	-
Benzidine	μg/L	15	0	0	-	-	-	15	100	15	0	0.000	0	0.000936	Reg6	12	0	0	-
Benzo(a)anthracene	μg/L	33	0	0	-	-	-	33	100	33	0	0.000	0	0.294985	Reg6	16	0	0	-
Benzo(a)pyrene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.2	MCL	16	0	0	-
Benzo(b)fluoranthene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.294985	Reg6	16	0	0	-
Benzo(g,h,i)perylene	μg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Benzo(k)fluoranthene	μg/L	33	0	0	-	-	-	33	100	0	0	0.000	0	2.949853	Reg6	16	0	0	-
Benzoic Acid	μg/L	32	0	0	-	-	-	32	100	0	0	0.000	0	146000	Reg6	16	0	0	-
Benzyl Alcohol	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	10950	Reg6	16	0	0	-
Bis(2-chloroethoxy)methane	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Bis(2-chloroethyl)ether	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.602164	Reg6	16	0	0	-
Bis(2-ethylhexyl)phthalate	μg/L	33	0	0	-	-	-	33	100	32	0	0.000	0	6	MCL	16	0	0	-
Bromobenzene	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	23.25201	Reg6	15	0	0	-
Bromochloromethane	μg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Bromodichloromethane	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	10.69108	Reg6	15	0	0	-
Bromoform	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	85.10321	Reg6	15	0	0	-
Bromomethane	μg/L	21	0	0	-	-	-	21	100	0	0	0	0	8.661017	Reg6	15	0	0	-
Bromophenyl-phenylether[4-]	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Butanol[1-]	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	3650	Reg6	10	0	0	-
Butanone[2-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	7064.516	Reg6	15	0	0	-
Butylbenzene[n-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	60.83333	Reg6	15	0	0	-
Butylbenzene[sec-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	60.83333	Reg6	15	0	0	-

Table B-1b
Screening Table for Los Alamos Watershed Organics in Alluvial Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Butylbenzene[tert-]	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Butylbenzylphthalate	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	7300	Reg6	16	0	0	-
Carbazole	µg/L	13	0	0	-	-	-	13	100	0	0	0	0	33.61577	Reg6	12	0	0	-
Carbon Disulfide	µg/L	25	2	8	2.8	4.1	5.4	23	92	0	0	0	0	1042.857	Reg6	15	0	0	-
Carbon Tetrachloride	µg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	5	MCL	15	0	0	-
Chlordane[alpha-]	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Chlordane[gamma-]	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	18	0	0	-	-	-	18	100	0	0	0.000	0	14.31373	Reg6	14	0	0	-
Chloro-1-propene[3-]	µg/L	18	0	0	-	-	-	18	100	0	0	0.000	0	1825	Reg6	14	0	0	-
Chloro-3-methylphenol[4-]	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Chloroaniline[4-]	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	146	Reg6	16	0	0	-
Chlorobenzene	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	100	MCL	15	0	0	-
Chlorodibromomethane	µg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	7.891034	Reg6	15	0	0	-
Chloroethane	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	228.5679	Reg6	15	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Chloroform	µg/L	25	3	12	0.41	0.467	0.502	22	88	0	0	0	0	60	MCL	15	0	0	-
Chloromethane	µg/L	25	1	4	2.4	2.4	2.4	24	96	0	0	0	0	21.34503	Reg6	15	0	0	-
Chloronaphthalene[2-]	µg/L	33	0	0	-	-	-	33	100	0	0	0.000	0	486.6667	Reg6	16	0	0	-
Chlorophenol[2-]	µg/L	32	0	0	-	-	-	32	100	0	0	0.000	0	30.41667	Reg6	16	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Chlorotoluene[2-]	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	121.6667	Reg6	15	0	0	-
Chlorotoluene[4-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chrysene	µg/L	33	0	0	-	-	-	33	100	33	0	0.000	0	0.2	MCL	16	0	0	-
DDD[4,4'-]	µg/L	32	0	0	-	-	-	32	100	0	0	0.000	0	2.801314	Reg6	16	0	0	-
DDE[4,4'-]	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	1.977398	Reg6	16	0	0	-
DDT[4,4'-]	µg/L	30	0	0	-	-	-	30	100	0	0	0.000	0	1.977398	Reg6	16	0	0	-
Di-n-butylphthalate	µg/L	33	2	6.06	1.2	1.25	1.3	31	93.9	0	0	0	0	3650	Reg6	16	0	0	-
Di-n-octylphthalate	µg/L	33	2	6.06	4.56	8.63	12.7	31	93.9	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.029499	Reg6	16	0	0	-
Dibenzofuran	µg/L	33	0	0	-	-	-	33	100	4	0	0.000	0	12.16667	Reg6	16	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	25	0	0	-	-	-	25	100	25	0	0.000	0	0.2	MCL	15	0	0	-
Dibromoethane[1,2-]	µg/L	25	0	0	-	-	-	25	100	25	0	0.000	0	0.05	MCL	15	0	0	-
Dibromomethane	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Dichlorobenzene[1,2-]	µg/L	58	0	0	-	-	-	58	100	0	0	0	0	600	MCL	16	0	0	-
Dichlorobenzene[1,3-]	µg/L	58	0	0	-	-	-	58	100	0	0	0	0	600	MCL	16	0	0	-
Dichlorobenzene[1,4-]	µg/L	58	0	0	-	-	-	58	100	0	0	0	0	75	MCL	16	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	1.494034	Reg6	16	0	0	-
Dichlorodifluoromethane	µg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	394.5946	Reg6	15	0	0	-
Dichloroethane[1,1-]	µg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	25	NMGSU	15	0	0	-
Dichloroethane[1,2-]	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	5	MCL	15	0	0	-
Dichloroethene[1,1-]	µg/L	25	1	4	4.33	4.33	4.33	24	96	0	0	1	4	5	NMGSU	15	0	1	-
Dichloroethene[cis-1,2-]	µg/L	18	0	0	-	-	-	18	100	0	0	0.000	0	70	MCL	14	0	0	-
Dichloroethene[trans-1,2-]	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	100	MCL	15	0	0	-
Dichlorophenol[2,4-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	109.5	Reg6	16	0	0	-
Dichloropropane[1,2-]	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	5	MCL	15	0	0	-
Dichloropropane[1,3-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-

Table B-1b
Screening Table for Los Alamos Watershed Organics in Alluvial Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Dichloropropane[2,2-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	6.709735	Reg6	11	0	0	-
Dichloropropene[trans-1,3-]	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dieldrin	µg/L	32	0	0	-	-	-	32	100	5	0	0	0	0.04202	Reg6	16	0	0	-
Diethyl Ether	µg/L	13	0	0	-	-	-	13	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Diethylphthalate	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	29200	Reg6	16	0	0	-
Dimethyl Phthalate	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	365000	Reg6	16	0	0	-
Dimethylphenol[2,4-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	730	Reg6	16	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Dinitrophenol[2,4-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	73	Reg6	16	0	0	-
Dinitrotoluene[2,4-]	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	73	Reg6	16	0	0	-
Dinitrotoluene[2,6-]	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	36.5	Reg6	16	0	0	-
Dinoseb	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	7	MCL	12	0	0	-
Dioxane[1,4-]	µg/L	13	0	0	-	-	-	13	100	0	0	0.000	0	61.11958	Reg6	12	0	0	-
Diphenylamine	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	912.5	Reg6	16	0	0	-
Endosulfan I	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Endosulfan II	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Endosulfan Sulfate	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Endrin	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	2	MCL	16	0	0	-
Endrin Aldehyde	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Endrin Ketone	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Ethyl Methacrylate	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	547.5	Reg6	14	0	0	-
Ethylbenzene	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	700	MCL	15	0	0	-
Fluoranthene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	1460	Reg6	16	0	0	-
Fluorene	µg/L	33	0	0	-	-	-	33	100	0	0	0.000	0	243.3333	Reg6	16	0	0	-
Heptachlor	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	0.4	MCL	16	0	0	-
Heptachlor Epoxide	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	0.2	MCL	16	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	2	1	50	0.0000056	0.0000056	5.6E-06	1	50	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	2	2	100	0.0000019	0.0000097	1.8E-05	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	2	2	100	0.00000268	2.83E-06	3E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorobenzene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	1	MCL	16	0	0	-
Hexachlorobutadiene	µg/L	58	0	0	-	-	-	58	100	33	0	0	0	8.619427	Reg6	16	0	0	-
Hexachlorocyclopentadiene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	50	MCL	16	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.000108	Reg6	2	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

Table B-1b
Screening Table for Los Alamos Watershed Organics in Alluvial Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Hexachloroethane	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	48.02252	Reg6	16	0	0	-
Hexanone[2-]	μg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.294985	Reg6	16	0	0	-
Iodomethane	μg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Isophorone	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	707.7004	Reg6	16	0	0	-
Isopropylbenzene	μg/L	25	0	0	-	-	-	25	100	0	0	0.00000	0	658.1967	Reg6	15	0	0	-
Isopropyltoluene[4-]	μg/L	25	1	4	0.46	0.46	0.46	24	96	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Methacrylonitrile	μg/L	18	0	0	-	-	-	18	100	18	0	0	0	1.042857	Reg6	14	0	0	-
Methoxychlor[4,4'-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	40	MCL	16	0	0	-
Methyl Methacrylate	μg/L	18	0	0	-	-	-	18	100	0	0	0	0	1419.444	Reg6	14	0	0	-
Methyl tert-Butyl Ether	μg/L	13	0	0	-	-	-	13	100	0	0	0	0	370.8305	Reg6	12	0	0	-
Methyl-1-propanol[2-]	μg/L	18	0	0	-	-	-	18	100	0	0	0	0	1825	Reg6	14	0	0	-
Methyl-2-pentanone[4-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	1990.909	Reg6	15	0	0	-
Methylene Chloride	μg/L	25	0	0	-	-	-	25	100	22	0	0	0	5	MCL	15	0	0	-
Methylnaphthalene[1-]	μg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Methylphenol[2-]	μg/L	32	0	0	-	-	-	32	100	0	0	0.000	0	1825	Reg6	16	0	0	-
Methylphenol[3-,4-]	μg/L	13	0	0	-	-	-	13	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylphenol[4-]	μg/L	19	0	0	-	-	-	19	100	0	0	0	0	182.5	Reg6	13	0	0	-
Methylpyridine[2-]	μg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Naphthalene	μg/L	57	1	1.75	4.33	4.33	4.33	56	98.2	0	0	0	0	30	NMGSU	16	0	0	-
Nitroaniline[2-]	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	109.5	Reg6	16	0	0	-
Nitroaniline[3-]	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Nitroaniline[4-]	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Nitrobenzene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	3.395349	Reg6	16	0	0	-
Nitrophenol[2-]	μg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	16	n/a	n/a	-
Nitrophenol[4-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	292	Reg6	16	0	0	-
Nitroso-di-n-butylamine[N-]	μg/L	13	0	0	-	-	-	13	100	13	0	0	0	0.122685	Reg6	12	0	0	-
Nitroso-di-n-propylamine[N-]	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.096045	Reg6	16	0	0	-
Nitrosodiethylamine[N-]	μg/L	13	0	0	-	-	-	13	100	13	0	0	0	0.001436	Reg6	12	0	0	-
Nitrosodimethylamine[N-]	μg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.004222	Reg6	15	0	0	-
Nitrosopyrrolidine[N-]	μg/L	13	0	0	-	-	-	13	100	13	0	0	0	0.32015	Reg6	12	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	9.536393	Reg6	16	0	0	-
Pentachlorobenzene	μg/L	13	0	0	-	-	-	13	100	0	0	0	0	29.2	Reg6	12	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	μg/L	2	1	50	9.51E-07	9.51E-07	9.5E-07	1	50	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorophenol	μg/L	33	0	0	-	-	-	33	100	33	0	0.000	0	1	MCL	16	0	0	-
Phenanthrene	μg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Phenol	μg/L	32	0	0	-	-	-	32	100	32	0	0.000	0	5	NMGSU	16	0	0	-
Propionitrile	μg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Propylbenzene[1-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	60.83333	Reg6	15	0	0	-

Table B-1b
Screening Table for Los Alamos Watershed Organics in Alluvial Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Pyrene	μg/L	33	0	0	-	-	-	33	100	0	0	0.000	0	182.5	Reg6	16	0	0	-
Pyridine	μg/L	7	0	0	-	-	-	7	100	0	0	0.000	0	36.5	Reg6	6	0	0	-
Styrene	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	100	MCL	15	0	0	-
Tetrachlorobenzene[1,2,4,5-]	μg/L	13	0	0	-	-	-	13	100	13	0	0.000	0	0.00003	MCL	12	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	μg/L	2	0	0	n/a	n/a	n/a	2	100	0	0	0	0	0.00003	MCL	2	0	0	-
Tetrachlorodibenzodioxins (Total)	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	25.49549	Reg6	15	0	0	-
Tetrachloroethane[1,1,2,2-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	10	NMGSU	15	0	0	-
Tetrachloroethene	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	5	MCL	15	0	0	-
Tetrachlorophenol[2,3,4,6-]	μg/L	13	0	0	-	-	-	13	100	13	0	0	0	5	MCL	12	0	0	-
Toluene	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	750	NMGSU	15	0	0	-
Toxaphene (Technical Grade)	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	3	MCL	16	0	0	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	μg/L	20	0	0	-	-	-	20	100	0	0	0	0	59179.86	Reg6	15	0	0	-
Trichlorobenzene[1,2,3-]	μg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Trichlorobenzene[1,2,4-]	μg/L	51	0	0	-	-	-	51	100	0	0	0	0	70	MCL	16	0	0	-
Trichloroethane[1,1,1-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	60	NMGSU	15	0	0	-
Trichloroethane[1,1,2-]	μg/L	25	0	0	-	-	-	25	100	0	0	0.000	0	5	MCL	15	0	0	-
Trichloroethene	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	5	MCL	15	0	0	-
Trichlorofluoromethane	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	5	MCL	15	0	0	-
Trichlorophenol[2,4,5-]	μg/L	32	0	0	-	-	-	32	100	0	0	0.000	0	3650	Reg6	16	0	0	-
Trichlorophenol[2,4,6-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	61.11958	Reg6	16	0	0	-
Trichloropropane[1,2,3-]	μg/L	25	0	0	-	-	-	25	100	25	0	0	0	0.094692	Reg6	15	0	0	-
Trimethylbenzene[1,2,4-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	12.42906	Reg6	15	0	0	-
Trimethylbenzene[1,3,5-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	12.32618	Reg6	15	0	0	-
Vinyl Chloride	μg/L	25	0	0	-	-	-	25	100	25	0	0	0	1	NMGSU	15	0	0	-
Vinyl acetate	μg/L	18	0	0	-	-	-	18	100	0	0	0.00000	0	412.4294	Reg6	14	0	0	-
Xylene (Total)	μg/L	12	0	0	-	-	-	12	100	0	0	0.00000	0	10000	MCL	8	0	0	-
Xylene[1,2-]	μg/L	25	0	0	-	-	-	25	100	0	0	0	0	1431.373	Reg6	15	0	0	-
Xylene[1,3-]+Xylene[1,4-]	μg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-

[a] Screening Standard

Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)

1=LAO-0.3 9=LAO-C
2=LAO-0.6 10=LAUZ-1
3=LAO-1 11=APCO-1
4=LAO-1.6g 12=PAO-1
5=LAO-2 13=PAO-2
6=LAO-3a 14=PAO-3
7=LAO-4.5c 15=PAO-4
8=LAO-B

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-1c
Screening Table for Los Alamos Watershed Organics in Intermediate Groundwater (Perched Zone) Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
2,4-Diamino-6-nitrotoluene	µg/L	8	0	0	-	-	-	8	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
3,5-dinitroaniline	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acenaphthene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	365	Reg6	9	0	0	-
Acenaphthylene	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acetone	µg/L	32	7	21.9	1.46	2.33	14.2	25	78.1	0	0	0	0	5475	Reg6	10	0	0	-
Acetonitrile	µg/L	27	0	0	-	-	-	27	100	0	0	0	0	124.1	Reg6	10	0	0	-
Acetophenone	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	608.3333333	Reg6	1	0	0	-
Acrolein	µg/L	32	0	0	-	-	-	32	100	32	0	0	0	0.041619156	Reg6	10	0	0	-
Acrylonitrile	µg/L	32	0	0	-	-	-	32	100	32	0	0	0	1.237239006	Reg6	10	0	0	-
Aldrin	µg/L	35	0	0	-	-	-	35	100	1	0	0	0	0.039547961	Reg6	10	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Aniline	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	117.9500603	Reg6	9	0	0	-
Anthracene	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	1825	Reg6	9	0	0	-
Aroclor-1016	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1221	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1232	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1242	µg/L	29	2	6.9	0.22	0.25	0.28	27	93.1	0	0	1	3.45	0.5	MCL	9	0	1	-
Aroclor-1248	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1254	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1260	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	0.5	MCL	9	0	0	-
Aroclor-1262	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	0.5	MCL	9	0	0	-
Atrazine	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	3	MCL	9	0	0	-
Azobenzene	µg/L	30	0	0	-	-	-	30	100	30	0	0	0	6.111957668	Reg6	9	0	0	-
BHC[alpha-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	0.106716721	Reg6	10	0	0	-
BHC[beta-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	0.373508524	Reg6	10	0	0	-
BHC[delta-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
BHC[gamma-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	0.2	MCL	10	0	0	-
Benzene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Benzidine	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.000936258	Reg6	8	0	0	-
Benzo(a)anthracene	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	0.294985251	Reg6	9	0	0	-
Benzo(a)pyrene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.2	MCL	9	0	0	-
Benzo(b)fluoranthene	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	0.294985251	Reg6	9	0	0	-
Benzo(g,h,i)perylene	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	2.949852507	Reg6	9	0	0	-
Benzoic Acid	µg/L	34	3	8.82	8.73	9.11	17.6	31	91.2	0	0	0	0	146000	Reg6	9	0	0	-
Benzyl Alcohol	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	10950	Reg6	9	0	0	-
Bis(2-chloroethoxy)methane	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	0.60216402	Reg6	9	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	34	3	8.82	2.6	2.8	3.46	31	91.2	30	0	1	2.94	6	MCL	9	0	1	-
Bromobenzene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	23.25200891	Reg6	10	0	0	-
Bromochloromethane	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Bromodichloromethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	10.69107823	Reg6	10	0	0	-
Bromoform	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	85.10320804	Reg6	10	0	0	-
Bromomethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	8.661016949	Reg6	10	0	0	-
Bromophenyl-phenylether[4-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-1c
Screening Table for Los Alamos Watershed Organics in Intermediate Groundwater (Perched Zone) Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
										ND>Std	D>Std	D>Std/2	D>Std/2						
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Butanol[1-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	3650	Reg6	8	0	0	-
Butanone[2-]	µg/L	38	1	2.63	1.65	1.65	1.65	37	97.4	0	0	0	0	7064.516129	Reg6	10	0	0	-
Butylbenzene[n-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60.83333333	Reg6	10	0	0	-
Butylbenzene[sec-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60.83333333	Reg6	10	0	0	-
Butylbenzene[tert-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60.83333333	Reg6	10	0	0	-
Butylbenzylphthalate	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	7300	Reg6	9	0	0	-
Carbazole	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	33.61576718	Reg6	1	0	0	-
Carbon Disulfide	µg/L	36	1	2.78	1.81	1.81	1.81	35	97.2	0	0	0	0	1042.857143	Reg6	10	0	0	-
Carbon Tetrachloride	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Chlordane[alpha-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Chlordane[gamma-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	14.31372549	Reg6	10	0	0	-
Chloro-1-propene[3-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	1825	Reg6	10	0	0	-
Chloro-3-methylphenol[4-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloroaniline[4-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	146	Reg6	9	0	0	-
Chlorobenzene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	100	MCL	10	0	0	-
Chlorodibromomethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	7.891033932	Reg6	10	0	0	-
Chloroethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	228.5678794	Reg6	10	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloroform	µg/L	38	3	7.89	0.265	0.303	0.365	35	92.1	0	0	0	0	60	MCL	10	0	0	-
Chloromethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	21.34502924	Reg6	10	0	0	-
Chloronaphthalene[2-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	486.6666667	Reg6	9	0	0	-
Chlorophenol[2-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	30.41666667	Reg6	9	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorotoluene[2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	121.6666667	Reg6	10	0	0	-
Chlorotoluene[4-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Chrysene	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	0.2	MCL	9	0	0	-
DDD[4,4'-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	2.801313931	Reg6	10	0	0	-
DDE[4,4'-]	µg/L	34	1	2.94	0.0167	0.0167	0.0167	33	97.1	0	0	0	0	1.977398069	Reg6	10	0	0	-
DDT[4,4'-]	µg/L	35	2	5.71	0.0208	0.02305	0.0253	33	94.3	0	0	0	0	1.977398069	Reg6	10	0	0	-
DNX	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Di-n-butylphthalate	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	3650	Reg6	9	0	0	-
Di-n-octylphthalate	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.029498525	Reg6	9	0	0	-
Dibenzofuran	µg/L	34	0	0	-	-	-	34	100	1	0	0	0	12.16666667	Reg6	9	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	38	0	0	-	-	-	38	100	38	0	0	0	0.2	MCL	10	0	0	-
Dibromoethane[1,2-]	µg/L	38	0	0	-	-	-	38	100	38	0	0	0	0.05	MCL	10	0	0	-
Dibromomethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60.83333333	Reg6	10	0	0	-
Dichlorobenzene[1,2-]	µg/L	72	0	0	-	-	-	72	100	0	0	0	0	600	MCL	10	0	0	-
Dichlorobenzene[1,3-]	µg/L	72	0	0	-	-	-	72	100	0	0	0	0	600	MCL	10	0	0	-
Dichlorobenzene[1,4-]	µg/L	72	0	0	-	-	-	72	100	0	0	0	0	75	MCL	10	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	1.494034097	Reg6	9	0	0	-
Dichlorodifluoromethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	394.5945946	Reg6	10	0	0	-
Dichloroethane[1,1-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	25	NMGSU	10	0	0	-
Dichloroethane[1,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Dichloroethene[1,1-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	NMGSU	10	0	0	-
Dichloroethene[cis-1,2-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	70	MCL	10	0	0	-

Table B-1c
Screening Table for Los Alamos Watershed Organics in Intermediate Groundwater (Perched Zone) Nonfiltered (NF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Dichloroethene[trans-1,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	100	MCL	10	0	0	-
Dichlorophenol[2,4-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	109.5	Reg6	9	0	0	-
Dichloropropane[1,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Dichloropropane[1,3-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	6.709735025	Reg6	7	0	0	-
Dichloropropene[trans-1,3-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Dieldrin	µg/L	35	0	0	-	-	-	35	100	15	0	0	0	0.042019709	Reg6	10	0	0	-
Diesel Range Organics	µg/L	4	2	50	17.4	19.6	21.8	2	50	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Diethyl Ether	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Diethylphthalate	µg/L	34	1	2.94	6.2	6.2	6.2	33	97.1	0	0	0	0	29200	Reg6	9	0	0	-
Dimethyl Phthalate	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	365000	Reg6	9	0	0	-
Dimethylphenol[2,4-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	730	Reg6	9	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	3.65	Reg6	6	0	0	-
Dinitrophenol[2,4-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	73	Reg6	9	0	0	-
Dinitrotoluene[2,4-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	73	Reg6	9	0	0	-
Dinitrotoluene[2,6-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	36.5	Reg6	9	0	0	-
Dinoseb	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	7	MCL	9	0	0	-
Dioxane[1,4-]	µg/L	24	1	4.17	2.66	2.66	2.66	23	95.8	0	0	0	0	61.11957668	Reg6	9	0	0	-
Diphenylamine	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	912.5	Reg6	9	0	0	-
Endosulfan I	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Endosulfan II	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Endosulfan Sulfate	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Endrin	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	2	MCL	10	0	0	-
Endrin Aldehyde	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Endrin Ketone	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Ethyl Methacrylate	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	547.5	Reg6	10	0	0	-
Ethylbenzene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	700	MCL	10	0	0	-
Fluoranthene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	1460	Reg6	9	0	0	-
Fluorene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	243.3333333	Reg6	9	0	0	-
HMX	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	1825	Reg6	6	0	0	-
Heptachlor	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	0.4	MCL	10	0	0	-
Heptachlor Epoxide	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	0.2	MCL	10	0	0	-
Hexachlorobenzene	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	1	MCL	9	0	0	-
Hexachlorobutadiene	µg/L	66	0	0	-	-	-	66	100	34	0	0	0	8.619427481	Reg6	10	0	0	-
Hexachlorocyclopentadiene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	50	MCL	9	0	0	-
Hexachloroethane	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	48.02252454	Reg6	9	0	0	-
Hexanone[2-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.294985251	Reg6	9	0	0	-
Iodomethane	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Isophorone	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	707.7003616	Reg6	9	0	0	-
Isopropylbenzene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	658.1967213	Reg6	10	0	0	-
Isopropyltoluene[4-]	µg/L	38	0	0	-	-	-	38	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
MNX	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

Table B-1c
Screening Table for Los Alamos Watershed Organics in Intermediate Groundwater (Perched Zone) Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Methacrylonitrile	µg/L	29	0	0	-	-	-	29	100	29	0	0	0	1.042857143	Reg6	10	0	0	-
Methoxychlor[4,4'-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	40	MCL	9	0	0	-
Methyl Methacrylate	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	1419.444444	Reg6	10	0	0	-
Methyl tert-Butyl Ether	µg/L	10	0	0	-	-	-	10	100	0	0	0	0	370.8305152	Reg6	8	0	0	-
Methyl-1-propanol[2-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	1825	Reg6	10	0	0	-
Methyl-2-pentanone[4-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	1990.909091	Reg6	10	0	0	-
Methylene Chloride	µg/L	38	0	0	-	-	-	38	100	36	0	0	0	5	MCL	10	0	0	-
Methylnaphthalene[1-]	µg/L	26	0	0	-	-	-	26	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[2-]	µg/L	34	2	5.88	5.03	5.305	5.58	32	94.1	0	0	0	0	1825	Reg6	9	0	0	-
Methylphenol[3-,4-]	µg/L	28	0	0	-	-	-	28	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	182.5	Reg6	2	0	0	-
Methylpyridine[2-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Naphthalene	µg/L	60	1	1.67	0.343	0.343	0.343	59	98.3	0	0	0	0	30	NMGSU	10	0	0	-
Nitroaniline[2-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	109.5	Reg6	9	0	0	-
Nitroaniline[3-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroaniline[4-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrobenzene	µg/L	48	0	0	-	-	-	48	100	34	0	0	0	3.395348837	Reg6	9	0	0	-
Nitrophenol[2-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrophenol[4-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	292	Reg6	9	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.122685423	Reg6	9	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	0.096045049	Reg6	9	0	0	-
Nitrosodiethylamine[N-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.001435595	Reg6	9	0	0	-
Nitrosodimethylamine[N-]	µg/L	30	0	0	-	-	-	30	100	30	0	0	0	0.004222338	Reg6	9	0	0	-
Nitrosopyrrolidine[N-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.320150164	Reg6	9	0	0	-
Nitrotoluene[2-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	2.923110189	Reg6	6	0	0	-
Nitrotoluene[3-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	121.6666667	Reg6	6	0	0	-
Nitrotoluene[4-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	39.54796138	Reg6	6	0	0	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	34	0	0	-	-	-	34	100	33	0	0	0	9.536393191	Reg6	9	0	0	-
PETN	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Pentachlorobenzene	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	29.2	Reg6	9	0	0	-
Pentachlorophenol	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	1	MCL	9	0	0	-
Phenanthrene	µg/L	25	0	0	-	-	-	25	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Phenol	µg/L	34	1	2.94	14.8	14.8	14.8	33	97.1	33	1	1	2.94	5	NMGSU	9	1	1	10
Propionitrile	µg/L	29	0	0	-	-	-	29	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Propylbenzene[1-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60.83333333	Reg6	10	0	0	-
Pyrene	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	182.5	Reg6	9	0	0	-
Pyridine	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	36.5	Reg6	1	0	0	-
RDX	µg/L	13	0	0	-	-	-	13	100	0	0	0	0	6.111957668	Reg6	6	0	0	-
Styrene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	100	MCL	10	0	0	-
TATB	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
TNX	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.00003	MCL	9	0	0	-
Tetrachloroethane[1,1,1,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	25.49549064	Reg6	10	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	10	NMGSU	10	0	0	-
Tetrachloroethene	µg/L	38	0	0	-	-	-	38	100	0	0	0.00E+00	0	5	MCL	10	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	5	MCL	9	0	0	-

Table B-1c
Screening Table for Los Alamos Watershed Organics in Intermediate Groundwater (Perched Zone) Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Tetryl	µg/L	13	0	0	-	-	-	13	100	0	0	0	0	146	Reg6	6	0	0	-
Toluene	µg/L	38	10	26.3	0.261	32.95	112	28	73.7	0	0	0	0	750	NMGSU	10	0	0	-
Toxaphene (Technical Grade)	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	3	MCL	10	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	59179.85748	Reg6	10	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	70	MCL	10	0	0	-
Trichloroethane[1,1,1-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	60	NMGSU	10	0	0	-
Trichloroethane[1,1,2-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Trichloroethene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Trichlorofluoromethane	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	5	MCL	10	0	0	-
Trichlorophenol[2,4,5-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	3650	Reg6	9	0	0	-
Trichlorophenol[2,4,6-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	61.11957668	Reg6	9	0	0	-
Trichloropropane[1,2,3-]	µg/L	38	0	0	-	-	-	38	100	38	0	0	0	0.094692407	Reg6	10	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	12.42905789	Reg6	10	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	12.32618196	Reg6	10	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	1095	Reg6	6	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	22.41051145	Reg6	6	0	0	-
Vinyl Chloride	µg/L	38	0	0	-	-	-	38	100	38	0	0	0	1	NMGSU	10	0	0	-
Vinyl acetate	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	412.4293785	Reg6	10	0	0	-
Xylene (Total)	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	10000	MCL	5	0	0	-
Xylene[1,2-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	1431.372549	Reg6	10	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	32	1	3.13	0.287	0.287	0.287	31	96.9	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)
1=LAOI(a)-1.1
2=LAOI-3.2 7=POI-4
3=LAOI-3.2a 8=R-3i
4=LAOI-7 9=R-5
5=R-9i 10=Test Well 1A
6=R-6i 11=Test Well 2A

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
2,4-Diamino-6-nitrotoluene	µg/L	8	0	0	-	-	-	8	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
3,5-dinitroaniline	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acenaphthene	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	365	Reg6	12	0	0	-
Acenaphthylene	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Acetone	µg/L	62	1	1.61	27.7	27.7	27.7	61	98.4	0	0	0	0	5475	Reg6	13	0	0	
Acetonitrile	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	124.1	Reg6	13	0	0	-
Acetophenone	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	608.3333333	Reg6	2	0	0	-
Acrolein	µg/L	42	1	2.38	7.18	7.18	7.18	41	97.6	41	1	1	2.38	0.041619156	Reg6	13	1	1	9
Acrylonitrile	µg/L	42	0	0	-	-	-	42	100	42	0	0	0	1.237239006	Reg6	13	0	0	-
Aldrin	µg/L	65	0	0	-	-	-	65	100	1	0	0	0	0.039547961	Reg6	13	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Aniline	µg/L	52	0	0	-	-	-	52	100	0	0	0	0	117.9500603	Reg6	12	0	0	-
Anthracene	µg/L	54	1	1.85	0.236	0.236	0.236	53	98.1	0	0	0	0	1825	Reg6	12	0	0	
Aroclor-1016	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1221	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1232	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1242	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1248	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1254	µg/L	61	1	1.64	0.059	0.059	0.059	60	98.4	0	0	0	0	0.5	MCL	13	0	0	
Aroclor-1260	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1262	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	0.5	MCL	13	0	0	-
Atrazine	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	3	MCL	12	0	0	-
Azobenzene	µg/L	53	0	0	-	-	-	53	100	53	0	0	0	6.111957668	Reg6	12	0	0	-
BHC[alpha-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	0.106716721	Reg6	13	0	0	-
BHC[beta-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	0.373508524	Reg6	13	0	0	-
BHC[delta-]	µg/L	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
BHC[gamma-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	0.2	MCL	13	0	0	-
Benzene	µg/L	66	0	0	-	-	-	66	100	0	0	0	0	5	MCL	13	0	0	-
Benzidine	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.000936258	Reg6	11	0	0	-
Benzo(a)anthracene	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.294985251	Reg6	12	0	0	-
Benzo(a)pyrene	µg/L	55	1	1.82	1.1	1.1	1.1	54	98.2	54	1	1	1.82	0.2	MCL	12	1	1	8
Benzo(b)fluoranthene	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.294985251	Reg6	12	0	0	-
Benzo(g,h,i)perylene	µg/L	54	1	1.85	3.43	3.43	3.43	53	98.1	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	54	1	1.85	0.235	0.235	0.235	53	98.1	0	0	0	0	2.949852507	Reg6	12	0	0	
Benzoic Acid	µg/L	50	0	0	-	-	-	50	100	0	0	0	0	146000	Reg6	12	0	0	-
Benzyl Alcohol	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	10950	Reg6	12	0	0	-
Bis(2-chloroethoxy)methane	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.60216402	Reg6	12	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	55	2	3.64	2.22	2.71	3.2	53	96.4	49	0	1	1.82	6	MCL	12	0	1	
Bromobenzene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	23.25200891	Reg6	13	0	0	-
Bromochloromethane	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Bromodichloromethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	10.69107823	Reg6	13	0	0	-
Bromoform	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	85.10320804	Reg6	13	0	0	-
Bromomethane	µg/L	60	0	0	-	-	-	60	100	0	0	0	0	8.661016949	Reg6	13	0	0	-

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Bromophenyl-phenylether[4-]	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Butanol[1-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	3650	Reg6	5	0	0	-
Butanone[2-]	µg/L	67	2	2.99	1.73	6.865	12	65	97	0	0	0	0	7064.516129	Reg6	13	0	0	
Butylbenzene[n-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60.83333333	Reg6	13	0	0	-
Butylbenzene[sec-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60.83333333	Reg6	13	0	0	-
Butylbenzene[tert-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60.83333333	Reg6	13	0	0	-
Butylbenzylphthalate	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	7300	Reg6	12	0	0	-
Carbazole	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	33.61576718	Reg6	2	0	0	-
Carbon Disulfide	µg/L	67	1	1.49	3.8	3.8	3.8	66	98.5	0	0	0	0	1042.857143	Reg6	13	0	0	
Carbon Tetrachloride	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Chlordane[alpha-]	µg/L	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chlordane[gamma-]	µg/L	65	1	1.54	0.00613	0.00613	0.0061	64	98.5	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	14.31372549	Reg6	13	0	0	-
Chloro-1-propene[3-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	1825	Reg6	13	0	0	-
Chloro-3-methylphenol[4-]	µg/L	53	0	0	-	-	-	53	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Chloroaniline[4-]	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	146	Reg6	12	0	0	-
Chlorobenzene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	100	MCL	13	0	0	-
Chlorodibromomethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	7.891033932	Reg6	13	0	0	-
Chloroethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	228.5678794	Reg6	13	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chloroform	µg/L	67	1	1.49	0.792	0.792	0.792	66	98.5	0	0	0	0	60	MCL	13	0	0	
Chloromethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	21.34502924	Reg6	13	0	0	-
Chloronaphthalene[2-]	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	486.6666667	Reg6	12	0	0	-
Chlorophenol[2-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	30.41666667	Reg6	12	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Chlorotoluene[2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	121.6666667	Reg6	13	0	0	-
Chlorotoluene[4-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chrysene	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.2	MCL	12	0	0	-
DDD[4,4'-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	2.801313931	Reg6	13	0	0	-
DDE[4,4'-]	µg/L	64	3	4.69	0.00505	0.0204	0.0257	61	95.3	0	0	0	0	1.977398069	Reg6	13	0	0	
DDT[4,4'-]	µg/L	63	3	4.76	0.0119	0.0353	0.0415	60	95.2	0	0	0	0	1.977398069	Reg6	13	0	0	
Di-n-butylphthalate	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	3650	Reg6	12	0	0	-
Di-n-octylphthalate	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.029498525	Reg6	12	0	0	-
Dibenzofuran	µg/L	55	0	0	-	-	-	55	100	2	0	0	0	12.16666667	Reg6	12	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	66	0	0	-	-	-	66	100	66	0	0	0	0.2	MCL	13	0	0	-
Dibromoethane[1,2-]	µg/L	67	0	0	-	-	-	67	100	67	0	0	0	0.05	MCL	13	0	0	-
Dibromomethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60.83333333	Reg6	13	0	0	-
Dichlorobenzene[1,2-]	µg/L	122	0	0	-	-	-	122	100	0	0	0	0	600	MCL	13	0	0	-
Dichlorobenzene[1,3-]	µg/L	122	0	0	-	-	-	122	100	0	0	0	0	600	MCL	13	0	0	-
Dichlorobenzene[1,4-]	µg/L	122	0	0	-	-	-	122	100	0	0	0	0	75	MCL	13	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	1.494034097	Reg6	12	0	0	-
Dichlorodifluoromethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	394.5945946	Reg6	13	0	0	-
Dichloroethane[1,1-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	25	NMGSU	13	0	0	-
Dichloroethane[1,2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Dichloroethene[1,1-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	NMGSU	13	0	0	-
Dichloroethene[cis-1,2-]	µg/L	60	0	0	-	-	-	60	100	0	0	0	0	70	MCL	13	0	0	-

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Dichloroethene[trans-1,2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	100	MCL	13	0	0	-
Dichlorophenol[2,4-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	109.5	Reg6	12	0	0	-
Dichloropropane[1,2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Dichloropropane[1,3-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	6.709735025	Reg6	5	0	0	-
Dichloropropene[trans-1,3-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dieldrin	µg/L	65	0	0	-	-	-	65	100	31	0	0	0	0.042019709	Reg6	13	0	0	-
Diesel Range Organics	µg/L	18	2	11.1	22	27.5	33	16	88.9	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Diethyl Ether	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Diethylphthalate	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	29200	Reg6	12	0	0	-
Dimethyl Phthalate	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	365000	Reg6	12	0	0	-
Dimethylphenol[2,4-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	730	Reg6	12	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	53	0	0	-	-	-	53	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	3.65	Reg6	9	0	0	-
Dinitrophenol[2,4-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	73	Reg6	12	0	0	-
Dinitrotoluene[2,4-]	µg/L	90	0	0	-	-	-	90	100	0	0	0	0	73	Reg6	12	0	0	-
Dinitrotoluene[2,6-]	µg/L	90	0	0	-	-	-	90	100	0	0	0	0	36.5	Reg6	12	0	0	-
Dinoseb	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	7	MCL	12	0	0	-
Dioxane[1,4-]	µg/L	21	0	0	-	-	-	21	100	0	0	0	0	61.11957668	Reg6	9	0	0	-
Diphenylamine	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	912.5	Reg6	12	0	0	-
Endosulfan I	µg/L	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endosulfan II	µg/L	63	0	0	-	-	-	63	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endosulfan Sulfate	µg/L	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endrin	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	2	MCL	13	0	0	-
Endrin Aldehyde	µg/L	63	0	0	-	-	-	63	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endrin Ketone	µg/L	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Ethyl Methacrylate	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	547.5	Reg6	13	0	0	-
Ethylbenzene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	700	MCL	13	0	0	-
Fluoranthene	µg/L	55	1	1.82	0.295	0.295	0.295	54	98.2	0	0	0	0	1460	Reg6	12	0	0	
Fluorene	µg/L	51	0	0	-	-	-	51	100	0	0	0	0	243.3333333	Reg6	11	0	0	-
HMX	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	1825	Reg6	9	0	0	-
Heptachlor	µg/L	64	0	0	-	-	-	64	100	0	0	0	0	0.4	MCL	13	0	0	-
Heptachlor Epoxide	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	0.2	MCL	13	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	2	2	100	0.00000165	0.00000182	2E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	3	2	66.7	0.00000165	0.00000182	2E-06	1	33.3	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorobenzene	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	1	MCL	12	0	0	-
Hexachlorobutadiene	µg/L	97	0	0	-	-	-	97	100	55	0	0	0	8.619427481	Reg6	13	0	0	-
Hexachlorocyclopentadiene	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	50	MCL	12	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.000108438	Reg6	2	0	0	-

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Hexachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hexachloroethane	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	48.02252454	Reg6	12	0	0	-
Hexanone[2-]	µg/L	67	1	1.49	1.34	1.34	1.34	66	98.5	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	54	0	0	-	-	-	54	100	54	0	0	0	0.294985251	Reg6	12	0	0	-
Iodomethane	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Isophorone	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	707.7003616	Reg6	12	0	0	-
Isopropylbenzene	µg/L	67	1	1.49	0.299	0.299	0.299	66	98.5	0	0	0	0	658.1967213	Reg6	13	0	0	
Isopropyltoluene[4-]	µg/L	67	0	0	-	-	-	67	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methacrylonitrile	µg/L	34	0	0	-	-	-	34	100	34	0	0	0	1.042857143	Reg6	12	0	0	-
Methoxychlor[4,4'-]	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	40	MCL	12	0	0	-
Methyl Methacrylate	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	1419.444444	Reg6	13	0	0	-
Methyl tert-Butyl Ether	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	370.8305152	Reg6	6	0	0	-
Methyl-1-propanol[2-]	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	1825	Reg6	12	0	0	-
Methyl-2-pentanone[4-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	1990.909091	Reg6	13	0	0	-
Methylene Chloride	µg/L	67	0	0	-	-	-	67	100	67	0	0	0	5	MCL	13	0	0	-
Methylnaphthalene[1-]	µg/L	24	1	4.17	0.325	0.325	0.325	23	95.8	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	53	0	0	-	-	-	53	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylphenol[2-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	1825	Reg6	12	0	0	-
Methylphenol[3-,4-]	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylphenol[4-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	182.5	Reg6	8	0	0	-
Methylpyridine[2-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Naphthalene	µg/L	96	0	0	-	-	-	96	100	0	0	0	0	30	NMGSU	13	0	0	-
Nitroaniline[2-]	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	109.5	Reg6	12	0	0	-
Nitroaniline[3-]	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Nitroaniline[4-]	µg/L	55	0	0	-	-	-	55	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Nitrobenzene	µg/L	90	0	0	-	-	-	90	100	55	0	0	0	3.395348837	Reg6	12	0	0	-
Nitrophenol[2-]	µg/L	53	0	0	-	-	-	53	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Nitrophenol[4-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	292	Reg6	12	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	0.122685423	Reg6	12	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	0.096045049	Reg6	12	0	0	-
Nitrosodiethylamine[N-]	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	0.001435595	Reg6	12	0	0	-
Nitrosodimethylamine[N-]	µg/L	53	0	0	-	-	-	53	100	53	0	0	0	0.004222338	Reg6	12	0	0	-
Nitrosopyrrolidine[N-]	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	0.320150164	Reg6	12	0	0	-
Nitrotoluene[2-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	2.923110189	Reg6	9	0	0	-
Nitrotoluene[3-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	121.6666667	Reg6	9	0	0	-
Nitrotoluene[4-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	39.54796138	Reg6	9	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	3	1	33.3	0.00000306	0.00000306	3E-06	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	9.536393191	Reg6	12	0	0	-
PETN	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Pentachlorobenzene	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	29.2	Reg6	12	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Pentachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	3	1	33.3	0.00000075	0.00000075	8E-07	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorophenol	µg/L	53	0	0	-	-	-	53	100	53	0	0.00E+00	0	1	MCL	12	0	0	-
Phenanthrene	µg/L	50	1	2	0.279	0.279	0.279	49	98	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Phenol	µg/L	53	0	0	-	-	-	53	100	53	0	0	0	5	NMGSU	12	0	0	-
Propionitrile	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Propylbenzene[1-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60.83333333	Reg6	13	0	0	-
Pyrene	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	182.5	Reg6	12	0	0	-
Pyridine	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	36.5	Reg6	3	0	0	-
RDX	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	6.111957668	Reg6	9	0	0	-
Styrene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	100	MCL	13	0	0	-
TATB	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	0.00003	MCL	12	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.00003	MCL	2	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	25.49549064	Reg6	13	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	10	NMGSU	13	0	0	-
Tetrachloroethene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	5	MCL	12	0	0	-
Tetryl	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	146	Reg6	9	0	0	-
Toluene	µg/L	67	4	5.97	0.258	0.905	1.49	63	94	0	0	0	0	750	NMGSU	13	0	0	
Toxaphene (Technical Grade)	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	3	MCL	13	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	59179.85748	Reg6	13	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	90	0	0	-	-	-	90	100	0	0	0	0	70	MCL	13	0	0	-
Trichloroethane[1,1,1-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	60	NMGSU	13	0	0	-
Trichloroethane[1,1,2-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Trichloroethene	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Trichlorofluoromethane	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	5	MCL	13	0	0	-
Trichlorophenol[2,4,5-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	3650	Reg6	12	0	0	-
Trichlorophenol[2,4,6-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	61.11957668	Reg6	12	0	0	-
Trichloropropane[1,2,3-]	µg/L	67	0	0	-	-	-	67	100	67	0	0	0	0.094692407	Reg6	13	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	12.42905789	Reg6	13	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	67	0	0	-	-	-	67	100	0	0	0	0	12.32618196	Reg6	13	0	0	-

Table B-1d
Screening Table for Los Alamos Watershed Organics in Regional Groundwater Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Trinitrobenzene[1,3,5-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	1095	Reg6	9	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	22.41051145	Reg6	9	0	0	-
Vinyl Chloride	µg/L	67	0	0	-	-	-	67	100	67	0	0	0	1	NMGSU	13	0	0	-
Vinyl acetate	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	412.4293785	Reg6	13	0	0	-
Xylene (Total)	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	10000	MCL	11	0	0	-
Xylene[1,2-]	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	1431.372549	Reg6	13	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)

1=O-4	8=R-2
2=R-7	9=R-4
3=R-8	10=R-5
4=R-9	11=Test Well 1
5=Test Well 3	12=Test Well 4
6=R-6	13=R-24
7=O-1	

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-1e
Screening Table for Los Alamos Watershed Organics in Springs Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			detects (D)					nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]		Locations with data	D>Std (number of	D>Std/2 (number of	D>Std
Metals	Units	total	number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	station List[b]
2,4-Diamino-6-nitrotoluene	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
2,6-Diamino-4-nitrotoluene	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
3,5-dinitroaniline	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Acenaphthene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	365	Reg6	2	0	0	-
Acenaphthylene	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Acetone	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	5475	Reg6	2	0	0	-
Acetonitrile	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	124.1	Reg6	2	0	0	-
Acetophenone	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	608.3333	Reg6	2	0	0	-
Acrolein	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	0.041619	Reg6	2	0	0	-
Acrylonitrile	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	1.237239	Reg6	2	0	0	-
Aldrin	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.039548	Reg6	2	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Amino-4,6-dinitrotoluene[2-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Aniline	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	117.9501	Reg6	2	0	0	-
Anthracene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	1825	Reg6	2	0	0	-
Aroclor-1016	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1221	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1232	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1242	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1248	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1254	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1260	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Aroclor-1262	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	2	0	0	-
Atrazine	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	3	MCL	2	0	0	-
Azobenzene	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	6.111958	Reg6	2	0	0	-
BHC[alpha-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.106717	Reg6	2	0	0	-
BHC[beta-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.373509	Reg6	2	0	0	-
BHC[delta-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
BHC[gamma-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.2	MCL	2	0	0	-
Benzene	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Benzidine	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.000936	Reg6	2	0	0	-
Benzo(a)anthracene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.294985	Reg6	2	0	0	-
Benzo(a)pyrene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.2	MCL	2	0	0	-
Benzo(b)fluoranthene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.294985	Reg6	2	0	0	-
Benzo(g,h,i)perylene	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Benzo(k)fluoranthene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	2.949853	Reg6	2	0	0	-
Benzoic Acid	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	146000	Reg6	2	0	0	-
Benzyl Alcohol	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	10950	Reg6	2	0	0	-
Bis(2-chloroethoxy)methane	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Bis(2-chloroethyl)ether	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.602164	Reg6	2	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	6	MCL	2	0	0	-
Bromobenzene	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	23.25201	Reg6	2	0	0	-
Bromochloromethane	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Bromodichloromethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	10.69108	Reg6	2	0	0	-
Bromoform	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	85.10321	Reg6	2	0	0	-
Bromomethane	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	8.661017	Reg6	2	0	0	-
Bromophenyl-phenylether[4-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-

Table B-1e
Screening Table for Los Alamos Watershed Organics in Springs Nonfiltered (NF) Samples

Constituent		Summary by Sample								exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			detects (D)					nondetects (ND)								Locations with data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Metals	Units	total	number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Butanone[2-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	7064.516	Reg6	2	0	0	-
Butylbenzene[n-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60.83333	Reg6	2	0	0	-
Butylbenzene[sec-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60.83333	Reg6	2	0	0	-
Butylbenzene[tert-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60.83333	Reg6	2	0	0	-
Butylbenzylphthalate	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	7300	Reg6	2	0	0	-
Carbazole	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	33.61577	Reg6	2	0	0	-
Carbon Disulfide	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	1042.857	Reg6	2	0	0	-
Carbon Tetrachloride	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Chlordane[alpha-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Chlordane[gamma-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Chloro-1,3-butadiene[2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	14.31373	Reg6	2	0	0	-
Chloro-1-propene[3-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1825	Reg6	2	0	0	-
Chloro-3-methylphenol[4-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Chloroaniline[4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	146	Reg6	2	0	0	-
Chlorobenzene	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	100	MCL	2	0	0	-
Chlorodibromomethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	7.891034	Reg6	2	0	0	-
Chloroethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	228.5679	Reg6	2	0	0	-
Chloroform	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60	MCL	2	0	0	-
Chloromethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	21.34503	Reg6	2	0	0	-
Chloronaphthalene[2-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	486.6667	Reg6	2	0	0	-
Chlorophenol[2-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	30.41667	Reg6	2	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Chlorotoluene[2-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	121.6667	Reg6	2	0	0	-
Chlorotoluene[4-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Chrysene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.2	MCL	2	0	0	-
DDD[4,4'-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	2.801314	Reg6	2	0	0	-
DDE[4,4'-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	1.977398	Reg6	2	0	0	-
DDT[4,4'-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	1.977398	Reg6	2	0	0	-
Di-n-butylphthalate	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	3650	Reg6	2	0	0	-
Di-n-octylphthalate	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dibenz(a,h)anthracene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.029499	Reg6	2	0	0	-
Dibenzofuran	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	12.16667	Reg6	2	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	0.2	MCL	2	0	0	-
Dibromoethane[1,2-]	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	0.05	MCL	2	0	0	-
Dibromomethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60.83333	Reg6	2	0	0	-
Dichlorobenzene[1,2-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	600	MCL	2	0	0	-
Dichlorobenzene[1,3-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	600	MCL	2	0	0	-
Dichlorobenzene[1,4-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	75	MCL	2	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	1.494034	Reg6	2	0	0	-
Dichlorodifluoromethane	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	394.5946	Reg6	2	0	0	-
Dichloroethane[1,1-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	25	NMGSU	2	0	0	-
Dichloroethane[1,2-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Dichloroethene[1,1-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	NMGSU	2	0	0	-
Dichloroethene[cis-1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	70	MCL	2	0	0	-
Dichloroethene[trans-1,2-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	100	MCL	2	0	0	-
Dichlorophenol[2,4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	109.5	Reg6	2	0	0	-
Dichloropropane[1,2-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Dichloropropane[1,3-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-

Table B-1e
Screening Table for Los Alamos Watershed Organics in Springs Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			detects (D)					nondetects (ND)		exceedances of Standard (Std)									
Metals	Units	total	number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Dichloropropane[2,2-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dichloropropene[1,1-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dichloropropene[cis-1,3-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dichloropropene[trans-1,3-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dieldrin	µg/L	5	0	0	-	-	-	5	100	1	0	0	0	0.04202	Reg6	2	0	0	-
Diethylphthalate	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	29200	Reg6	2	0	0	-
Dimethyl Phthalate	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	365000	Reg6	2	0	0	-
Dimethylphenol[2,4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	730	Reg6	2	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Dinitrobenzene[1,3-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	3.65	Reg6	1	0	0	-
Dinitrophenol[2,4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	73	Reg6	2	0	0	-
Dinitrotoluene[2,4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	73	Reg6	2	0	0	-
Dinitrotoluene[2,6-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	36.5	Reg6	2	0	0	-
Dinoseb	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	7	MCL	2	0	0	-
Dioxane[1,4-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	61.11958	Reg6	2	0	0	-
Diphenylamine	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	912.5	Reg6	2	0	0	-
Endosulfan I	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Endosulfan II	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Endosulfan Sulfate	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Endrin	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	2	MCL	2	0	0	-
Endrin Aldehyde	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Endrin Ketone	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Ethyl Methacrylate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	547.5	Reg6	2	0	0	-
Ethylbenzene	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	700	MCL	2	0	0	-
Fluoranthene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	1460	Reg6	2	0	0	-
Fluorene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	243.3333	Reg6	2	0	0	-
HMX	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	1825	Reg6	1	0	0	-
Heptachlor	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.4	MCL	2	0	0	-
Heptachlor Epoxide	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.2	MCL	2	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Heptachlorodibenzodioxins (Total)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Heptachlorodibenzofurans (Total)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorobenzene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	1	MCL	2	0	0	-
Hexachlorobutadiene	µg/L	9	0	0	-	-	-	9	100	5	0	0	0	8.619427	Reg6	2	0	0	-
Hexachlorocyclopentadiene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	50	MCL	2	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.000108	Reg6	1	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachlorodibenzofurans (Total)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Hexachloroethane	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	48.02252	Reg6	2	0	0	-
Hexanone[2-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-

Table B-1e
Screening Table for Los Alamos Watershed Organics in Springs Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			detects (D)					nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	total	number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Indeno(1,2,3-cd)pyrene	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.294985	Reg6	2	0	0	-
Iodomethane	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Isophorone	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	707.7004	Reg6	2	0	0	-
Isopropylbenzene	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	658.1967	Reg6	2	0	0	-
Isopropyltoluene[4-]	µg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Methacrylonitrile	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	1.042857	Reg6	2	0	0	-
Methoxychlor[4,4'-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	40	MCL	2	0	0	-
Methyl Methacrylate	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1419.444	Reg6	2	0	0	-
Methyl-1-propanol[2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	1825	Reg6	2	0	0	-
Methyl-2-pentanone[4-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	1990.909	Reg6	2	0	0	-
Methylene Chloride	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	5	MCL	2	0	0	-
Methylnaphthalene[1-]	µg/L	2	0	0	-	-	-	2	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Methylnaphthalene[2-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Methylphenol[2-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	1825	Reg6	2	0	0	-
Methylphenol[3-,4-]	µg/L	2	0	0	-	-	-	2	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Methylphenol[4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	182.5	Reg6	2	0	0	-
Methylpyridine[2-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Naphthalene	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	30	NMGSU	2	0	0	-
Nitroaniline[2-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	109.5	Reg6	2	0	0	-
Nitroaniline[3-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Nitroaniline[4-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Nitrobenzene	µg/L	6	0	0	-	-	-	6	100	5	0	0	0	3.395349	Reg6	2	0	0	-
Nitrophenol[2-]	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Nitrophenol[4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	292	Reg6	2	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.122685	Reg6	2	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	0.096045	Reg6	2	0	0	-
Nitrosodiethylamine[N-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.001436	Reg6	2	0	0	-
Nitrosodimethylamine[N-]	µg/L	3	0	0	-	-	-	3	100	3	0	0	0	0.004222	Reg6	2	0	0	-
Nitrosopyrrolidine[N-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.32015	Reg6	2	0	0	-
Nitrotoluene[2-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	2.92311	Reg6	1	0	0	-
Nitrotoluene[3-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	121.6667	Reg6	1	0	0	-
Nitrotoluene[4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	39.54796	Reg6	1	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	9.536393	Reg6	2	0	0	-
PETN	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorobenzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	29.2	Reg6	2	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorodibenzodioxins (Total)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorodibenzofurans (Totals)	µg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Pentachlorophenol	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	1	MCL	2	0	0	-
Phenanthrene	µg/L	5	0	0	-	-	-	5	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Phenol	µg/L	5	0	0	-	-	-	5	100	5	0	0	0	5	NMGSU	2	0	0	-
Propionitrile	µg/L	3	0	0	-	-	-	3	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Propylbenzene[1-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	60.83333	Reg6	2	0	0	-
Pyrene	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	182.5	Reg6	2	0	0	-

Table B-1e
Screening Table for Los Alamos Watershed Organics in Springs Nonfiltered (NF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			detects (D)					nondetects (ND)		exceedances of Standard (Std)									
Metals	Units	total	number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Pyridine	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	36.5	Reg6	1	0	0	-
RDX	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	6.111958	Reg6	1	0	0	-
Styrene	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	100	MCL	2	0	0	-
TATB	μg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Tetrachlorobenzene[1,2,4,5-]	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.00003	MCL	2	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.00003	MCL	1	0	0	-
Tetrachlorodibenzodioxins (Total)	μg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Tetrachlorodibenzofuran[2,3,7,8-]	μg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Tetrachlorodibenzofurans (Totals)	μg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Tetrachloroethane[1,1,1,2-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	25.49549	Reg6	2	0	0	-
Tetrachloroethane[1,1,2,2-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	10	NMGSU	2	0	0	-
Tetrachloroethene	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Tetrachlorophenol[2,3,4,6-]	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	5	MCL	2	0	0	-
Tetryl	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	146	Reg6	1	0	0	-
Toluene	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	750	NMGSU	2	0	0	-
Toxaphene (Technical Grade)	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	3	MCL	2	0	0	-
Tri-o-cresylphosphate (TOCP)	μg/L	1	0	0	-	-	-	1	100	NA	NA	NA	NA	NA	NA	1	NA	NA	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	59179.86	Reg6	2	0	0	-
Trichlorobenzene[1,2,3-]	μg/L	3	0	0	-	-	-	3	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-
Trichlorobenzene[1,2,4-]	μg/L	8	0	0	-	-	-	8	100	0	0	0.00E+00	0	70	MCL	2	0	0	-
Trichloroethane[1,1,1-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	60	NMGSU	2	0	0	-
Trichloroethane[1,1,2-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Trichloroethene	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Trichlorofluoromethane	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	5	MCL	2	0	0	-
Trichlorophenol[2,4,5-]	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	3650	Reg6	2	0	0	-
Trichlorophenol[2,4,6-]	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	61.11958	Reg6	2	0	0	-
Trichloropropane[1,2,3-]	μg/L	4	0	0	-	-	-	4	100	4	0	0	0	0.094692	Reg6	2	0	0	-
Trimethylbenzene[1,2,4-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	12.42906	Reg6	2	0	0	-
Trimethylbenzene[1,3,5-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	12.32618	Reg6	2	0	0	-
Trinitrobenzene[1,3,5-]	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	1095	Reg6	1	0	0	-
Trinitrotoluene[2,4,6-]	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	22.41051	Reg6	1	0	0	-
Vinyl Chloride	μg/L	4	0	0	-	-	-	4	100	4	0	0	0	1	NMGSU	2	0	0	-
Vinyl acetate	μg/L	3	0	0	-	-	-	3	100	0	0	0	0	412.4294	Reg6	2	0	0	-
Xylene (Total)	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	10000	MCL	2	0	0	-
Xylene[1,2-]	μg/L	4	0	0	-	-	-	4	100	0	0	0	0	1431.373	Reg6	2	0	0	-
Xylene[1,3-]+Xylene[1,4-]	μg/L	4	0	0	-	-	-	4	100	NA	NA	NA	NA	NA	NA	2	NA	NA	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)
1=Basalt Spring
2=DP Spring

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-2a
Screening Table for Mortandad Watershed Metals in Surface Water Filtered (F) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	µg/L	33	29	87.9	102	650	12500	4	12.1	0	12	19	**57.6**	750	AqAcF	9	6	8	2, 3, 4, 5, 6, 8
Antimony	µg/L	33	6	18.2	0.57	0.705	1.2	27	81.8	0	0	0	0	640	HHF	9	0	0	-
Arsenic	µg/L	33	1	3.03	7.8	7.8	7.8	32	97	0	0	1	3.03	9	HHF	9	0	1	-
Barium	µg/L	33	33	100	15.4	68.8	210	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Beryllium	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Boron	µg/L	33	32	97	12.5	32.05	121	1	3.03	0	0	0	0	750	IrF	9	0	0	-
Cadmium	µg/L	33	2	6.06	0.1	0.18	0.26	31	93.9	0	0	0	0	2	AqAcF	9	0	0	-
Chromium	µg/L	33	21	63.6	1.1	3.9	36.4	12	36.4	0	0	0	0	100	IrF	9	0	0	-
Cobalt	µg/L	33	10	30.3	1.1	2.35	14.2	23	69.7	0	0	0	0	50	IrF	9	0	0	-
Copper	µg/L	28	18	64.3	3.1	5.45	29.2	10	35.7	0	1	7	**25**	13.4	AqAcF	9	1	5	1
Iron	µg/L	33	33	100	26	852	7280	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Lead	µg/L	33	11	33.3	0.368	1.6	8.1	22	66.7	0	0	0	0	64.6	AqAcF	9	0	0	-
Manganese	µg/L	33	28	84.8	2.4	44.85	1850	5	15.2	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Mercury	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	1.4	AqAcF	9	0	0	-
Molybdenum	µg/L	33	29	87.9	3.1	31	212	4	12.1	0	0	0	0	1000	IrF	9	0	0	-
Nickel	µg/L	33	24	72.7	1.4	2.95	17.3	9	27.3	0	0	0	0	467	AqAcF	9	0	0	-
Selenium	µg/L	32	1	3.13	9.7	9.7	9.7	31	96.9	0	0	0	0	50	LWF	9	0	0	-
Silver	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	3.2	AqAcF	9	0	0	-
Strontium	µg/L	33	33	100	25.9	74.2	158	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Thallium	µg/L	33	4	12.1	0.119	0.51	0.88	29	87.9	0	0	0	0	6.3	HHF	9	0	0	-
Tin	µg/L	33	1	3.03	3.7	3.7	3.7	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Uranium	µg/L	23	20	87	0.17	0.37	3.6	3	13	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Vanadium	µg/L	33	17	51.5	1.2	3.5	20.4	16	48.5	0	0	0	0	100	IrF	9	0	0	-
Zinc	µg/L	33	25	75.8	2.6	10.7	76.1	8	24.2	0	0	1	3.03	117.2	AqAcF	9	0	1	-

[a] Screening Standard

Std Type	Standard (Source and Name)
LWF	NMAC 20.6.4, Livestock Watering (Filtered)
AqAcF	NMAC 20.6.4, Aquatic Life Acute (Filtered) Hardness=100 mg/L
HHEF	NMAC 20.6.4, Human Health Ephemeral (Filtered)
IrF	NMAC 20.6.4, Irrigation Standard (Filtered)

[b] Station List (codes)

1=E-1FW 8=TS-1W
2=E-1W 9=TS-1C
3=E-1E 10=TS-1E
4=M-1W 11=TS-2C
5=M-1E 12=TS-2E
6=Mortandad below Effluent
7=M-2E

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-2b
Screening Table for Mortandad Watershed Metals in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type				
Aluminum	µg/L	32	31	96.9	160	3310	37700	1	3.13	n/a[c]	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Antimony	µg/L	32	6	18.8	0.55	0.615	0.84	26	81.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Arsenic	µg/L	32	2	6.25	7.5	7.55	7.6	30	93.8	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Barium	µg/L	32	32	100	32.9	96.3	349	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Beryllium	µg/L	32	5	15.6	1.1	1.2	3.5	27	84.4	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Boron	µg/L	32	32	100	11.2	32.8	120	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Cadmium	µg/L	32	12	37.5	0.1	0.155	1.2	20	62.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chromium	µg/L	32	26	81.3	1.2	7.15	46.3	6	18.8	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Cobalt	µg/L	32	9	28.1	1	2.7	11.4	23	71.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Copper	µg/L	28	24	85.7	3.3	8.55	45.3	4	14.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Iron	µg/L	32	32	100	181	2765	37800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Lead	µg/L	32	25	78.1	0.56	2.1	33.6	7	21.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Manganese	µg/L	32	32	100	2.5	80.2	2010	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Mercury	µg/L	32	2	6.25	0.05	0.0585	0.067	30	93.8	0	0	0	0	10	WHU	9	0	0	-
Molybdenum	µg/L	32	28	87.5	3.3	30.25	221	4	12.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nickel	µg/L	32	25	78.1	1.3	6.1	18.8	7	21.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Selenium	µg/L	33	1	3.03	2.55	2.55	2.55	32	97	0	0	0	0	20	AqAcU	9	0	0	-
Silver	µg/L	32	1	3.13	0.39	0.39	0.39	31	96.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Strontium	µg/L	32	32	100	40.5	76	185	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Thallium	µg/L	32	1	3.13	0.73	0.73	0.73	31	96.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tin	µg/L	32	1	3.13	4.5	4.5	4.5	31	96.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Uranium	µg/L	23	22	95.7	0.25	0.475	3.5	1	4.35	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Vanadium	µg/L	32	22	68.8	1	6.1	40.5	10	31.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Zinc	µg/L	32	27	84.4	2.6	16.8	213	5	15.6	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

[a] Screening Standard

Std Type	Standard (Source and Name)
LWU	NMAC 20.6.4, Livestock Watering (Unfiltered)
AqAcU	NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
HHEU	NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
WHU	NMAC 20.6.4, Wildlife Habitat (Unfiltered)

[b] Station List (codes)

1=E-1FW	8=TS-1W
2=E-1W	9=TS-1C
3=E-1E	10=TS-1E
4=M-1W	11=TS-2C
5=M-1E	12=TS-2E
6=Mortandad below Effluent	
7=M-2E	

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-2c
Screening Table for Mortandad Watershed General Inorganics in Surface Water Filtered (F) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Alkalinity-CO3	µg/L	25	1	4	829	829	829	24	96	n/a[c]	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	25	25	100	24400	98900	175000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Alkalinity-HCO3	µg/L	10	10	100	24400	66800	138000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Ammonia as Nitrogen	µg/L	13	4	30.8	39	85.5	132	9	69.2	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Bromide	µg/L	24	6	25	68	117	182	18	75	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Calcium	µg/L	33	33	100	5080	20800	36000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloride	µg/L	25	25	100	4750	15700	224000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Cyanide (Total)	µg/L	31	5	16.1	1.64	2.86	11.6	26	83.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Fluoride	µg/L	25	21	84	60	389	773	4	16	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hardness	µg/L	33	33	100	17400	66800	107000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Magnesium	µg/L	33	33	100	1230	3050	6030	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	25	13	52	17.1	825	13500	12	48	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Perchlorate	µg/L	62	19	30.6	0.0818	0.272	24.7	43	69.4	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Potassium	µg/L	33	33	100	2180	7040	13600	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Silicon Dioxide	µg/L	33	33	100	14600	38100	87100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Sodium	µg/L	33	33	100	8120	41200	178000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Specific Conductance	uS/cm	25	25	100	144	316	921	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Sulfate	µg/L	25	25	100	1270	10100	30800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Dissolved Solids	µg/L	57	57	100	109000	240000	621000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	16	16	100	141	327.5	1160	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	32	13	40.6	25	220	735	19	59.4	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
pH	SU	25	25	100	5.86	7.24	7.98	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
LWF NMAC 20.6.4, Livestock Watering (Filtered)
AqAcF NMAC 20.6.4, Aquatic Life Acute (Filtered) Hardness=100 mg/L
HHEF NMAC 20.6.4, Human Health Ephemeral (Filtered)
IrF NMAC 20.6.4, Irrigation Standard (Filtered)

[b] Station List (codes)
1=E-1FW 8=TS-1W
2=E-1W 9=TS-1C
3=E-1E 10=TS-1E
4=M-1W 11=TS-2C
5=M-1E 12=TS-2E
6=Mortandad below Effluent
7=M-2E

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-2d
Screening Table for Mortandad Watershed General Inorganics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Alkalinity-CO3	µg/L	32	0	0	-	-	-	32	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	32	32	100	19100	96450	175000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Alkalinity-HCO3	µg/L	9	9	100	19100	58300	106000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Ammonia as Nitrogen	µg/L	11	4	36.4	26	42.5	62	7	63.6	0	0	0	0	39100	AqAcU	6	0	0	-
Bromide	µg/L	40	15	37.5	10	79	190	25	62.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Calcium	µg/L	32	32	100	7160	21600	35700	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloride	µg/L	40	40	100	4800	29400	242000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Cyanide (Total)	µg/L	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Fluoride	µg/L	40	36	90	72	356.5	763	4	10	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hardness	µg/L	32	32	100	22700	70400	120000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Magnesium	µg/L	32	32	100	1880	3700	8200	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrate as Nitrogen	µg/L	8	4	50	31.6	232.5	725	4	50	0	0	0	0	132000	LWU	8	0	0	-
Nitrate-Nitrite as N	µg/L	15	9	60	31.5	819	4090	6	40	0	0	0	0	132000	LWU	9	0	0	-
Nitrite as Nitrogen	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	132000	LWU	8	0	0	-
Oxalate	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Perchlorate	µg/L	2	1	50	0.507	0.507	0.507	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Potassium	µg/L	32	32	100	2990	7350	14500	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Silicon Dioxide	µg/L	32	32	100	21600	51150	147000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Sodium	µg/L	32	32	100	8340	41100	173000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Specific Conductance	uS/cm	32	32	100	143	322	866	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Sulfate	µg/L	40	40	100	1280	9960	36800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Suspended Sediment Concentration	µg/L	32	23	71.9	2800	8800	146000	9	28.1	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	31	29	93.5	43	427	1160	2	6.45	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Organic Carbon	µg/L	31	31	100	3460	7770	19000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	26	20	76.9	3.26	130.5	437	6	23.1	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Total Suspended Solids	µg/L	1	1	100	139000	139000	139000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
pH	SU	32	32	100	5.86	7.175	7.58	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)
AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)

[b] Station List (codes)
1=E-1FW 8=TS-1W
2=E-1W 9=TS-1C
3=E-1E 10=TS-1E
4=M-1W 11=TS-2C
5=M-1E 12=TS-2E
6=Mortandad below Effluent
7=M-2E

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-2e
Screening Table for Mortandad Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
2,4-Diamino-6-nitrotoluene	WS	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	WS	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
3,5-dinitroaniline	WS	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acenaphthene	WS	33	1	3.03	0.489	0.489	0.489	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acenaphthylene	WS	33	1	3.03	0.503	0.503	0.503	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acetone	WS	32	11	34.4	1.66	2.9	5.4	21	65.6	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acetonitrile	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acrolein	WS	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acrylonitrile	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Aldrin	WS	24	0	0	-	-	-	24	100	24	0	0	0	0.0005	HHEU	9	0	0	-
Amino-2,6-dinitrotoluene[4-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	WS	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Aniline	WS	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Anthracene	WS	33	1	3.03	0.548	0.548	0.548	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Aroclor-1016	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1221	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1232	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1242	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1248	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1254	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Aroclor-1260	WS	10	1	10	1.1	1.1	1.1	9	90	9	1	1	**10**	0.00064	HHEU	8	1	1	8
Aroclor-1262	WS	10	0	0	-	-	-	10	100	10	0	0	0	0.00064	HHEU	8	0	0	-
Atrazine	WS	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Azobenzene	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
BHC[alpha-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
BHC[beta-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
BHC[delta-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
BHC[gamma-]	WS	24	0	0	-	-	-	24	100	0	0	0	0	0.95	AqAcU	9	0	0	-
Benzene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzidine	WS	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Benzo(a)anthracene	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzo(a)pyrene	WS	33	1	3.03	0.527	0.527	0.527	32	97	32	1	1	3.03	0.18	HHEU	9	1	1	2
Benzo(b)fluoranthene	WS	31	1	3.23	0.492	0.492	0.492	30	96.8	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzo(g,h,i)perylene	WS	33	1	3.03	0.44	0.44	0.44	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzo(k)fluoranthene	WS	30	1	3.33	0.579	0.579	0.579	29	96.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzoic Acid	WS	25	2	8	12.8	13.5	14.2	23	92	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzyl Alcohol	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bis(2-chloroethoxy)methane	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bis(2-chloroethyl)ether	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bis(2-ethylhexyl)phthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromobenzene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromochloromethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromodichloromethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromoform	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromomethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromophenyl-phenylether[4-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Butanone[2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-2e
Screening Table for Mortandad Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	D>Std	D>Std/2	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	(number of	(number of	Station
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	number	rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Butylbenzene[n-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Butylbenzene[sec-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Butylbenzene[tert-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Butylbenzylphthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Carbon Disulfide	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Carbon Tetrachloride	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlordane[alpha-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlordane[gamma-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloro-1,3-butadiene[2-]	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloro-1-propene[3-]	WS	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloro-3-methylphenol[4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloroaniline[4-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorobenzene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorodibromomethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloroethane	WS	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloroform	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloromethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloronaphthalene[2-]	WS	33	1	3.03	0.453	0.453	0.453	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorophenol[2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorophenyl-phenyl[4-] Ether	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorotoluene[2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorotoluene[4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chrysene	WS	33	1	3.03	0.635	0.635	0.635	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
DDD[4,4'-]	WS	24	0	0	-	-	-	24	100	24	0	0	0	0.0022	HHEU	9	0	0	-
DDE[4,4'-]	WS	24	0	0	-	-	-	24	100	24	0	0	0	0.0022	HHEU	9	0	0	-
DDT[4,4'-]	WS	24	0	0	-	-	-	24	100	24	0	0	0	0.0022	HHEU	9	0	0	-
Di-n-butylphthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Di-n-octylphthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibenz(a,h)anthracene	WS	33	1	3.03	0.484	0.484	0.484	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibenzofuran	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibromo-3-Chloropropane[1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibromoethane[1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibromomethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorobenzene[1,2-]	WS	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorobenzene[1,3-]	WS	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorobenzene[1,4-]	WS	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorobenzidine[3,3'-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorodifluoromethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloroethane[1,1-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloroethane[1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloroethene[1,1-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloroethene[cis-1,2-]	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloroethene[cis/trans-1,2-]	WS	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Dichloroethene[trans-1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorophenol[2,4-]	WS	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropane[1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropane[1,3-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropane[2,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-2e
Screening Table for Mortandad Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	D>Std	D>Std/2	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	(number of	(number of	Station
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	number	rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Dichloropropene[1,1-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropene[cis-1,3-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropene[trans-1,3-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dieldrin	WS	24	0	0	-	-	-	24	100	24	0	0	0	0.00054	HHEU	9	0	0	-
Diethylphthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dimethyl Phthalate	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dimethylphenol[2,4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitro-2-methylphenol[4,6-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrobenzene[1,3-]	WS	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrophenol[2,4-]	WS	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrotoluene[2,4-]	WS	47	0	0	-	-	-	47	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrotoluene[2,6-]	WS	47	0	0	-	-	-	47	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinoseb	WS	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dioxane[1,4-]	WS	19	1	5.26	10.3	10.3	10.3	18	94.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Diphenylamine	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Endosulfan I	WS	24	0	0	-	-	-	24	100	0	0	0	0	0.22	AqAcU	9	0	0	-
Endosulfan II	WS	24	0	0	-	-	-	24	100	0	0	0	0	0.22	AqAcU	9	0	0	-
Endosulfan Sulfate	WS	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Endrin	WS	24	0	0	-	-	-	24	100	1	0	0	0	0.086	AqAcU	9	0	0	-
Endrin Aldehyde	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Endrin Ketone	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Ethyl Methacrylate	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Ethylbenzene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Fluoranthene	WS	33	1	3.03	0.641	0.641	0.641	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Fluorene	WS	33	1	3.03	0.474	0.474	0.474	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
HMX	WS	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Heptachlor	WS	24	0	0	-	-	-	24	100	0	0	0	0	0.52	AqAcU	9	0	0	-
Heptachlor Epoxide	WS	24	0	0	-	-	-	24	100	0	0	0	0	0.52	AqAcU	9	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	WS	10	3	30	2.29E-06	4.39E-06	4.95E-06	7	70	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	WS	13	11	84.6	1.96E-06	4.73E-06	1.11E-05	2	15.4	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	WS	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	WS	13	0	0	-	-	-	13	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Heptachlorodibenzofurans (Total)	WS	13	8	61.5	9.62E-07	2.62E-06	9.44E-06	5	38.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorobenzene	WS	33	0	0	-	-	-	33	100	33	0	0	0	0.0029	HHEU	9	0	0	-
Hexachlorobutadiene	WS	65	0	0	-	-	-	65	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorocyclopentadiene	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorodibenzodioxins (Total)	WS	13	3	23.1	8.47E-07	1.12E-06	1.74E-06	10	76.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	WS	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	WS	11	1	9.09	2.46E-06	2.46E-06	2.46E-06	10	90.9	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachlorodibenzofurans (Total)	WS	13	5	38.5	3.69E-07	1.58E-06	4.56E-06	8	61.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexachloroethane	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Hexanone[2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	WS	33	1	3.03	0.472	0.472	0.472	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-2e
Screening Table for Mortandad Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Iodomethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Isophorone	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Isopropylbenzene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Isopropyltoluene[4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methacrylonitrile	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methoxychlor[4,4'-]	WS	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methyl Methacrylate	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methyl-1-propanol[2-]	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methyl-2-pentanone[4-]	WS	32	1	3.13	1.9	1.9	1.9	31	96.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylene Chloride	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylnaphthalene[1-]	WS	23	1	4.35	0.561	0.561	0.561	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylnaphthalene[2-]	WS	33	1	3.03	0.556	0.556	0.556	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[3-,4-]	WS	21	0	0	-	-	-	21	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[4-]	WS	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Methylpyridine[2-]	WS	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Naphthalene	WS	65	1	1.54	0.49	0.49	0.49	64	98.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroaniline[2-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroaniline[3-]	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroaniline[4-]	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrobenzene	WS	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrophenol[2-]	WS	28	0	0	-	-	-	28	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrophenol[4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroso-di-n-butylamine[N-]	WS	23	1	4.35	10.3	10.3	10.3	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroso-di-n-propylamine[N-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrosodiethylamine[N-]	WS	23	1	4.35	10.3	10.3	10.3	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrosodimethylamine[N-]	WS	33	1	3.03	10.3	10.3	10.3	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrosopyrrolidine[N-]	WS	23	1	4.35	10.3	10.3	10.3	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrotoluene[2-]	WS	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrotoluene[3-]	WS	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrotoluene[4-]	WS	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	WS	13	0	0	-	-	-	13	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	WS	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	WS	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
PETN	WS	13	0	0	-	-	-	13	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorobenzene	WS	23	1	4.35	10.3	10.3	10.3	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	WS	12	1	8.33	4.16E-06	4.16E-06	4.16E-06	11	91.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	WS	13	3	23.1	8.03E-07	2.2E-06	4.16E-06	10	76.9	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	WS	11	3	27.3	1.16E-06	9.6E-06	1.46E-05	8	72.7	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	WS	9	1	11.1	8.18E-06	8.18E-06	8.18E-06	8	88.9	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	WS	13	5	38.5	8.61E-07	2.43E-06	2.38E-05	8	61.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorophenol	WS	32	0	0	-	-	-	32	100	2	0	0	0	19	AqAcU	9	0	0	-
Phenanthrene	WS	33	1	3.03	0.596	0.596	0.596	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Phenol	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Propionitrile	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Propylbenzene[1-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pyrene	WS	33	1	3.03	0.618	0.618	0.618	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pyridine	WS	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-2e
Screening Table for Mortandad Watershed Organics in Surface Water Nonfiltered (NF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	rate (%)	Min.	Median	Max.	number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
RDX	WS	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Styrene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
TATB	WS	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	WS	23	1	4.35	10.3	10.3	10.3	22	95.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorodibenzodioxin[2,3,7,8-]	WS	11	2	18.2	2.15E-06	2.4E-06	2.65E-06	9	81.8	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorodibenzodioxins (Total)	WS	13	2	15.4	2.15E-06	2.4E-06	2.65E-06	11	84.6	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	WS	10	1	10	3.29E-06	3.29E-06	3.29E-06	9	90	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	WS	13	1	7.69	3.29E-06	3.29E-06	3.29E-06	12	92.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachloroethane[1,1,2,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachloroethene	WS	29	0	0	-	-	-	29	100	0	0	0	0	33	HHEU	9	0	0	-
Tetrachlorophenol[2,3,4,6-]	WS	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetryl	WS	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Toluene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Toxaphene (Technical Grade)	WS	24	0	0	-	-	-	24	100	2	0	0	0	0.73	AqAcU	9	0	0	-
Tri-o-cresylphosphate (TOCP)	WS	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichlorobenzene[1,2,3-]	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichlorobenzene[1,2,4-]	WS	60	0	0	-	-	-	60	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichloroethane[1,1,1-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichloroethane[1,1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichloroethene	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichlorofluoromethane	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichlorophenol[2,4,5-]	WS	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichlorophenol[2,4,6-]	WS	26	0	0	-	-	-	26	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trichloropropane[1,2,3-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trimethylbenzene[1,2,4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trimethylbenzene[1,3,5-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trinitrobenzene[1,3,5-]	WS	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Trinitrotoluene[2,4,6-]	WS	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Vinyl Chloride	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Vinyl acetate	WS	27	0	0	-	-	-	27	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Xylene (Total)	WS	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Xylene[1,2-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Xylene[1,3-]+Xylene[1,4-]	WS	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
AqAcU   NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU   NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU   NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU   NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU   NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU   NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)
1=E-1FW   8=TS-1W
2=E-1W   9=TS-1C
3=E-1E   10=TS-1E
4=M-1W   11=TS-2C
5=M-1E   12=TS-2E
6=Mortandad below Effluent
7=M-2E

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-3a
Screening Table for Mortandad Watershed Metals in Alluvial Groundwater Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Aluminum	µg/L	48	39	81.3	52.6	312	5800	9	18.8	0	2	5	**10.4**	5000	NMGSF	15	1	2	4
Antimony	µg/L	48	2	4.17	0.64	0.68	0.72	46	95.8	0	0	0	0	6	MCL	15	0	0	-
Arsenic	µg/L	48	4	8.33	2.6	4.95	16.6	44	91.7	0	1	2	4.17	10	MCL	15	1	2	2
Barium	µg/L	48	48	100	25.5	108	676	0	0	0	0	1	2.08	1000	NMGSF	15	0	1	-
Beryllium	µg/L	48	4	8.33	0.13	0.835	1.9	44	91.7	0	0	0	0	4	MCL	15	0	0	-
Boron	µg/L	48	47	97.9	17.6	68.6	83.1	1	2.08	0	0	0	0	750	NMGSF	15	0	0	-
Cadmium	µg/L	48	10	20.8	0.044	0.13	0.39	38	79.2	0	0	0	0	5	MCL	15	0	0	-
Chromium	µg/L	48	28	58.3	0.656	2.1	43	20	41.7	0	0	1	2.08	50	NMGSF	15	0	1	-
Cobalt	µg/L	48	10	20.8	1.2	4.8	25.4	38	79.2	0	0	1	2.08	50	NMGSF	15	0	1	-
Copper	µg/L	44	10	22.7	1.7	4.75	9.8	34	77.3	0	0	0	0	1000	NMGSF	14	0	0	-
Iron	µg/L	48	43	89.6	13.7	150	16200	5	10.4	0	10	12	**25**	1000	NMGSF	15	4	7	2, 3, 4, 13
Lead	µg/L	48	15	31.3	0.06	0.76	3.4	33	68.8	0	0	0	0	15	MCL	15	0	0	-
Manganese	µg/L	48	24	50	0.307	7.4	5870	24	50	0	4	4	**8.33**	200	NMGSF	15	2	2	2, 3
Mercury	µg/L	40	0	0	-	-	-	40	100	0	0	0	0	2	MCL	12	0	0	-
Molybdenum	µg/L	48	43	89.6	1.2	69.4	611	5	10.4	0	0	1	2.08	1000	NMGSF	15	0	1	-
Nickel	µg/L	48	36	75	0.99	2.85	26.4	12	25	0	0	0	0	100	MCL	15	0	0	-
Selenium	µg/L	42	3	7.14	6.1	7.3	9.6	39	92.9	0	0	0	0	50	NMGSF	14	0	0	-
Silver	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	50	NMGSF	15	0	0	-
Strontium	µg/L	48	48	100	57.8	121.5	448	0	0	0	0	0	0	21900	Reg6	15	0	0	-
Thallium	µg/L	48	6	12.5	0.245	0.505	0.97	42	87.5	0	0	0	0	2	MCL	15	0	0	-
Tin	µg/L	48	1	2.08	4.5	4.5	4.5	47	97.9	0	0	0	0	21900	Reg6	15	0	0	-
Uranium	µg/L	37	34	91.9	0.11	1.15	28.5	3	8.11	0	0	1	2.7	30	NMGSF	14	0	1	-
Vanadium	µg/L	48	29	60.4	1.36	2.5	14.8	19	39.6	0	0	0	0	182.5	Reg6	15	0	0	-
Zinc	µg/L	48	25	52.1	2.6	4.9	85.9	23	47.9	0	0	0	0	10000	NMGSF	15	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

1=MCO-2	9=MCO-6
2=MCA-4	10=MCA-2
3=MCO-0.6	11=MCO-7
4=MCA-1	12=MT-1
5=MCO-3	13=MCO-7.5
6=MCA-5	14=MT-3
7=MCO-4B	15=MT-4
8=MCO-5	16=CDBO-6

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-3b
Screening Table for Mortandad Watershed Metals in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Aluminum	ug/L	48	42	87.5	72.1	595.5	53500	6	12.5	0	1	2	4.17	36500	Reg6	15	1	2	1
Antimony	ug/L	48	4	8.33	0.53	0.735	1.2	44	91.7	0	0	0	0	6	MCL	15	0	0	-
Arsenic	ug/L	48	2	4.17	13	16.2	19.4	46	95.8	0	2	2	4.17	10	MCL	15	2	2	1, 2
Barium	ug/L	48	48	100	30.6	114.5	702	0	0	0	0	0	0	2000	MCL	15	0	0	-
Beryllium	ug/L	48	6	12.5	0.1	0.4	3.7	42	87.5	0	0	2	4.17	4	MCL	15	0	2	-
Boron	ug/L	48	47	97.9	16.5	67.2	85.8	1	2.08	0	0	0	0	7300	Reg6	15	0	0	-
Cadmium	ug/L	48	11	22.9	0.053	0.18	1	37	77.1	0	0	0	0	5	MCL	15	0	0	-
Chromium	ug/L	48	33	68.8	1.2	2.1	258	15	31.3	0	2	2	4.17	100	MCL	15	2	2	1, 2
Cobalt	ug/L	48	7	14.6	1	7.8	20	41	85.4	0	0	0	0	730	Reg6	15	0	0	-
Copper	ug/L	45	12	26.7	2.8	6.05	93.6	33	73.3	0	0	0	0	1300	MCL	15	0	0	-
Iron	ug/L	48	46	95.8	24.3	282.5	29800	2	4.17	0	2	2	4.17	25550	Reg6	15	2	2	1, 2
Lead	ug/L	48	21	43.8	0.132	1.3	30.5	27	56.3	0	2	2	4.17	15	Reg6	15	2	2	1, 2
Manganese	ug/L	48	36	75	0.801	8.3	5090	12	25	0	3	4	**8.33**	1703.09	Reg6	15	1	2	3
Mercury	ug/L	48	2	4.17	0.054	0.087	0.12	46	95.8	0	0	0	0	2	NMGSU	15	0	0	-
Molybdenum	ug/L	48	44	91.7	1.3	69.9	731	4	8.33	0	2	5	**10.4**	182.5	Reg6	15	2	5	1, 2
Nickel	ug/L	48	39	81.3	2	3.4	43.6	9	18.8	0	0	0	0	100	MCL	15	0	0	-
Selenium	ug/L	48	1	2.08	7.7	7.7	7.7	47	97.9	0	0	0	0	50	MCL	15	0	0	-
Silver	ug/L	48	2	4.17	0.31	0.455	0.6	46	95.8	0	0	0	0	182.5	Reg6	15	0	0	-
Strontium	ug/L	48	48	100	58.7	122	437	0	0	0	0	0	0	21900	Reg6	15	0	0	-
Thallium	ug/L	48	0	0	-	-	-	48	100	0	0	0	0	2	MCL	15	0	0	-
Tin	ug/L	48	1	2.08	3.1	3.1	3.1	47	97.9	0	0	0	0	21900	Reg6	15	0	0	-
Uranium	ug/L	37	37	100	0.17	0.97	7.7	0	0	0	0	0	0	30	MCL	14	0	0	-
Vanadium	ug/L	48	36	75	0.718	2.65	58.2	12	25	0	0	0	0	182.5	Reg6	15	0	0	-
Zinc	ug/L	47	24	51.1	1.63	5.95	146	23	48.9	0	0	0	0	10950	Reg6	14	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

1=MCO-2	9=MCO-6
2=MCA-4	10=MCA-2
3=MCO-0.6	11=MCO-7
4=MCA-1	12=MT-1
5=MCO-3	13=MCO-7.5
6=MCA-5	14=MT-3
7=MCO-4B	15=MT-4
8=MCO-5	16=CDBO-6

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-3c
Screening Table for Mortandad Watershed General Inorganics in Alluvial Groundwater Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Alkalinity-CO3	µg/L	42	1	2.38	1920	1920	1920	41	97.6	n/a[c]	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	45	45	100	37200	135000	269000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Alkalinity-HCO3	µg/L	13	13	100	74000	138000	152000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Ammonia as Nitrogen	µg/L	65	17	26.2	12	104	483	48	73.8	0	5	8	**12.3**	208.571	Reg6	12	4	5	3, 7, 8, 16
Bromide	µg/L	41	11	26.8	41	106	207	30	73.2	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Calcium	µg/L	48	48	100	11600	23450	67000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chloride	µg/L	48	48	100	20000	33000	739000	0	0	0	3	3	**6.25**	250000	NMGSF	14	1	1	3
Cyanide (Total)	µg/L	47	5	10.6	2.85	3.86	5.35	42	89.4	0	0	0	0	200	NMGSF	14	0	0	-
Fluoride	µg/L	96	96	100	79	1075	1960	0	0	0	5	70	**72.9**	1600	NMGSF	14	3	9	12, 13, 14
Hardness	µg/L	48	48	100	41200	76550	225000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Magnesium	µg/L	48	48	100	1840	3805	14000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	99	96	97	21.8	1960	595000	3	3.03	0	5	6	**6.06**	10000	NMGSF	14	3	3	5, 6, 7
Perchlorate	µg/L	155	133	85.8	0.103	27.9	106	22	14.2	0	88	116	**74.8**	24.5	Reg6	15	9	10	6, 7, 9, 10, 11, 12, 13, 14, 15
Potassium	µg/L	48	48	100	2020	12400	20800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Silicon Dioxide	µg/L	48	48	100	26200	37400	64100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Sodium	µg/L	48	48	100	21400	64800	481000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Specific Conductance	uS/cm	47	47	100	196	459	20400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Sulfate	µg/L	47	47	100	9940	18700	38000	0	0	0	0	0	0	600000	NMGSF	14	0	0	-
Total Dissolved Solids	µg/L	138	138	100	144000	297500	2840000	0	0	0	5	9	**6.52**	1000000	NMGSF	15	2	4	3, 7
Total Kjeldahl Nitrogen	µg/L	73	54	74	14	247.5	1780	19	26	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	50	37	74	55	134	416	13	26	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
pH	SU	47	47	100	5.99	7.08	7.77	0	0	0	0	47	100	9	NMGSF	14	0	14	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=MCO-2 9=MCO-6
2=MCA-4 10=MCA-2
3=MCO-0. 11=MCO-7
4=MCA-1 12=MT-1
5=MCO-3 13=MCO-7.5
6=MCA-5 14=MT-3
7=MCO-4I 15=MT-4
8=MCO-5 16=CDBO-6

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-3d
Screening Table for Mortandad Watershed General Inorganics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	(number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Alkalinity-CO3	µg/L	38	1	2.63	1590	1590	1590	37	97.4	n/a[c]	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	36	36	100	43700	135000	271000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Alkalinity-HCO3	µg/L	7	7	100	37200	106000	152000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Ammonia as Nitrogen	µg/L	17	3	17.6	10	26	474	14	82.4	0	1	1	**5.88**	208.57	Reg6	10	1	1	3
Bromide	µg/L	52	21	40.4	20	70	625	31	59.6	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Calcium	µg/L	48	48	100	11500	24200	66400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chemical Oxygen Demand	µg/L	8	6	75	9210	17200	67500	2	25	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Chloride	µg/L	52	52	100	4170	37500	759000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Cyanide (Total)	µg/L	18	3	16.7	2.91	4.41	9.14	15	83.3	0	0	0	0	200	MCL	10	0	0	-
Fluoride	µg/L	52	51	98.1	135	1270	1960	1	1.92	0	0	0	0	4000	MCL	13	0	0	-
Hardness	µg/L	48	48	100	40900	79400	223000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Magnesium	µg/L	48	48	100	1860	4120	13900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Nitrate as Nitrogen	µg/L	11	10	90.9	845	1795	5620	1	9.09	0	0	1	**9.09**	10000	Reg6	10	0	1	-
Nitrate-Nitrite as N	µg/L	18	16	88.9	31.9	1965	3250	2	11.1	0	0	0	0	10000	MCL	10	0	0	-
Nitrite as Nitrogen	µg/L	11	2	18.2	6	608	1210	9	81.8	0	1	1	**9.09**	1000	Reg6	10	1	1	4
Oxalate	µg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Perchlorate	µg/L	40	37	92.5	1.36	37	99.1	3	7.5	0	22	28	**70**	24.5	Reg6	5	4	4	7, 8, 9, 11
Potassium	µg/L	48	48	100	3730	13050	21700	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Silicon Dioxide	µg/L	48	48	100	30400	39300	188000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Sodium	µg/L	48	48	100	24800	65400	488000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Specific Conductance	uS/cm	41	41	100	192	462	2650	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Sulfate	µg/L	52	52	100	3580	18850	37400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Suspended Sediment Concentration	µg/L	41	23	56.1	778	11000	134000	18	43.9	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	41	26	63.4	35	277	2350	15	36.6	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Total Organic Carbon	µg/L	41	39	95.1	2180	4220	44900	2	4.88	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	29	21	72.4	33	91.3	318	8	27.6	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Total Suspended Solids	µg/L	13	10	76.9	1600	7465	30200	3	23.1	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
pH	SU	41	41	100	5.97	7.12	7.64	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

1=MCO-2	9=MCO-6
2=MCA-4	10=MCA-2
3=MCO-0.6	11=MCO-7
4=MCA-1	12=MT-1
5=MCO-3	13=MCO-7.5
6=MCA-5	14=MT-3
7=MCO-4B	15=MT-4
8=MCO-5	16=CDBO-6

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
2,4-Diamino-6-nitrotoluene	μg/L	17	0	0	-	-	-	17	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
3,5-dinitroaniline	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Acenaphthene	μg/L	49	1	2.04	0.71	0.71	0.71	48	98	0	0	0	0	365	Reg6	15	0	0	-
Acenaphthylene	μg/L	49	1	2.04	0.6	0.6	0.6	48	98	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Acetone	μg/L	48	5	10.4	2.4	3.29	9.4	43	89.6	0	0	0	0	5475	Reg6	15	0	0	-
Acetonitrile	μg/L	42	0	0	-	-	-	42	100	0	0	0	0	124.1	Reg6	14	0	0	-
Acetophenone	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	608.3333	Reg6	10	0	0	-
Acrolein	μg/L	45	0	0	-	-	-	45	100	45	0	0	0	0.041619	Reg6	15	0	0	-
Acrylonitrile	μg/L	48	0	0	-	-	-	48	100	48	0	0	0	1.237239	Reg6	15	0	0	-
Aldrin	μg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.039548	Reg6	11	0	0	-
Amino-2,6-dinitrotoluene[4-]	μg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	μg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Aniline	μg/L	35	0	0	-	-	-	35	100	0	0	0	0	117.9501	Reg6	14	0	0	-
Anthracene	μg/L	49	1	2.04	0.64	0.64	0.64	48	98	0	0	0	0	1825	Reg6	15	0	0	-
Aroclor-1016	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1221	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1232	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1242	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1248	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1254	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1260	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Aroclor-1262	μg/L	14	0	0	-	-	-	14	100	0	0	0	0	0.5	MCL	10	0	0	-
Atrazine	μg/L	30	0	0	-	-	-	30	100	30	0	0	0	3	MCL	13	0	0	-
Azobenzene	μg/L	36	0	0	-	-	-	36	100	36	0	0	0	6.111958	Reg6	14	0	0	-
BHC[alpha-]	μg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.106717	Reg6	11	0	0	-
BHC[beta-]	μg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.373509	Reg6	11	0	0	-
BHC[delta-]	μg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
BHC[gamma-]	μg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.2	MCL	11	0	0	-
Benzene	μg/L	44	0	0	-	-	-	44	100	0	0	0	0	5	MCL	14	0	0	-
Benzidine	μg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.000936	Reg6	12	0	0	-
Benzo(a)anthracene	μg/L	49	0	0	-	-	-	49	100	49	0	0	0	0.294985	Reg6	15	0	0	-
Benzo(a)pyrene	μg/L	46	0	0	-	-	-	46	100	46	0	0	0	0.2	MCL	14	0	0	-
Benzo(b)fluoranthene	μg/L	49	1	2.04	0.44	0.44	0.44	48	98	48	1	1	2.04	0.294985	Reg6	15	1	1	14
Benzo(g,h,i)perylene	μg/L	46	0	0	-	-	-	46	100	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Benzo(k)fluoranthene	μg/L	49	1	2.04	0.66	0.66	0.66	48	98	0	0	0	0	2.949853	Reg6	15	0	0	-
Benzoic Acid	μg/L	43	2	4.65	9.73	11.07	12.4	41	95.3	0	0	0	0	146000	Reg6	15	0	0	-
Benzyl Alcohol	μg/L	46	0	0	-	-	-	46	100	0	0	0	0	10950	Reg6	15	0	0	-
Bis(2-chloroethoxy)methane	μg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Bis(2-chloroethyl)ether	μg/L	49	0	0	-	-	-	49	100	49	0	0	0	0.602164	Reg6	15	0	0	-
Bis(2-ethylhexyl)phthalate	μg/L	49	4	8.16	3.1	3.2	7	45	91.8	45	1	4	**8.16**	6	MCL	15	1	4	12
Bromobenzene	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	23.25201	Reg6	15	0	0	-
Bromochloromethane	μg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Bromodichloromethane	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	10.69108	Reg6	15	0	0	-
Bromoform	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	85.10321	Reg6	15	0	0	-
Bromomethane	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	8.661017	Reg6	15	0	0	-
Bromophenyl-phenylether[4-]	μg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Butanol[1-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	3650	Reg6	3	0	0	-
Butanone[2-]	µg/L	48	3	6.25	1.4	1.46	2.31	45	93.8	0	0	0	0	7064.516	Reg6	15	0	0	-
Butylbenzene[n-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Butylbenzene[sec-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Butylbenzene[tert-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Butylbenzylphthalate	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	7300	Reg6	15	0	0	-
Carbazole	µg/L	13	1	7.69	0.68	0.68	0.68	12	92.3	0	0	0	0	33.61577	Reg6	10	0	0	-
Carbon Disulfide	µg/L	47	0	0	-	-	-	47	100	0	0	0	0	1042.857	Reg6	15	0	0	-
Carbon Tetrachloride	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Chlordane[alpha-]	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Chlordane[gamma-]	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	14.31373	Reg6	14	0	0	-
Chloro-1-propene[3-]	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	1825	Reg6	14	0	0	-
Chloro-3-methylphenol[4-]	µg/L	46	0	0	-	-	-	46	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chloroaniline[4-]	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	146	Reg6	15	0	0	-
Chlorobenzene	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	100	MCL	15	0	0	-
Chlorodibromomethane	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	7.891034	Reg6	15	0	0	-
Chloroethane	µg/L	45	0	0	-	-	-	45	100	0	0	0	0	228.5679	Reg6	15	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Chloroform	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60	MCL	15	0	0	-
Chloromethane	µg/L	48	1	2.08	1.3	1.3	1.3	47	97.9	0	0	0	0	21.34503	Reg6	15	0	0	-
Chloronaphthalene[2-]	µg/L	49	1	2.04	0.68	0.68	0.68	48	98	0	0	0	0	486.6667	Reg6	15	0	0	-
Chlorophenol[2-]	µg/L	45	0	0	-	-	-	45	100	0	0	0	0	30.41667	Reg6	15	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chlorotoluene[2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	121.6667	Reg6	15	0	0	-
Chlorotoluene[4-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Chrysene	µg/L	49	1	2.04	0.8	0.8	0.8	48	98	48	1	1	2.04	0.2	MCL	15	1	1	14
DDD[4,4'-]	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	2.801314	Reg6	11	0	0	-
DDE[4,4'-]	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	1.977398	Reg6	11	0	0	-
DDT[4,4'-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	1.977398	Reg6	11	0	0	-
Di-n-butylphthalate	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	3650	Reg6	15	0	0	-
Di-n-octylphthalate	µg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	49	0	0	-	-	-	49	100	49	0	0	0	0.029499	Reg6	15	0	0	-
Dibenzofuran	µg/L	49	0	0	-	-	-	49	100	4	0	0	0	12.16667	Reg6	15	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	48	0	0	-	-	-	48	100	48	0	0	0	0.2	MCL	15	0	0	-
Dibromoethane[1,2-]	µg/L	48	0	0	-	-	-	48	100	48	0	0	0	0.05	MCL	15	0	0	-
Dibromomethane	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Dichlorobenzene[1,2-]	µg/L	97	1	1.03	0.26	0.26	0.26	96	99	0	0	0	0	600	MCL	15	0	0	-
Dichlorobenzene[1,3-]	µg/L	97	1	1.03	0.65	0.65	0.65	96	99	0	0	0	0	600	MCL	15	0	0	-
Dichlorobenzene[1,4-]	µg/L	97	1	1.03	0.39	0.39	0.39	96	99	0	0	0	0	75	MCL	15	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	49	1	2.04	14.1	14.1	14.1	48	98	48	1	1	2.04	1.494034	Reg6	15	1	1	14
Dichlorodifluoromethane	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	394.5946	Reg6	15	0	0	-
Dichloroethane[1,1-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	25	NMGSU	15	0	0	-
Dichloroethane[1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Dichloroethene[1,1-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	NMGSU	15	0	0	-
Dichloroethene[cis-1,2-]	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	70	MCL	14	0	0	-
Dichloroethene[trans-1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	100	MCL	15	0	0	-
Dichlorophenol[2,4-]	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	109.5	Reg6	15	0	0	-

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Dichloropropane[1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Dichloropropane[1,3-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	6.709735	Reg6	8	0	0	-
Dichloropropene[trans-1,3-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dieldrin	µg/L	24	0	0	-	-	-	24	100	5	0	0	0	0.04202	Reg6	11	0	0	-
Diesel Range Organics	µg/L	8	4	50	17.2	23.65	211	4	50	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Diethyl Ether	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Diethylphthalate	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	29200	Reg6	15	0	0	-
Dimethyl Phthalate	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	365000	Reg6	15	0	0	-
Dimethylphenol[2,4-]	µg/L	45	0	0	-	-	-	45	100	0	0	0	0	730	Reg6	14	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	45	0	0	-	-	-	45	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	3.65	Reg6	11	0	0	-
Dinitrophenol[2,4-]	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	73	Reg6	15	0	0	-
Dinitrotoluene[2,4-]	µg/L	72	0	0	-	-	-	72	100	0	0	0	0	73	Reg6	15	0	0	-
Dinitrotoluene[2,6-]	µg/L	72	0	0	-	-	-	72	100	0	0	0	0	36.5	Reg6	15	0	0	-
Dinoseb	µg/L	24	0	0	-	-	-	24	100	24	0	0	0	7	MCL	12	0	0	-
Dioxane[1,4-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	61.11958	Reg6	12	0	0	-
Diphenylamine	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	912.5	Reg6	15	0	0	-
Endosulfan I	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Endosulfan II	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Endosulfan Sulfate	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Endrin	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	2	MCL	11	0	0	-
Endrin Aldehyde	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Endrin Ketone	µg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Ethyl Methacrylate	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	547.5	Reg6	14	0	0	-
Ethylbenzene	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	700	MCL	15	0	0	-
Fluoranthene	µg/L	49	1	2.04	0.73	0.73	0.73	48	98	0	0	0	0	1460	Reg6	15	0	0	-
Fluorene	µg/L	49	1	2.04	0.74	0.74	0.74	48	98	0	0	0	0	243.3333	Reg6	15	0	0	-
HMX	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	1825	Reg6	11	0	0	-
Heptachlor	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.4	MCL	11	0	0	-
Heptachlor Epoxide	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	0.2	MCL	11	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	13	5	38.5	2.29E-06	6.21E-06	1.1E-05	8	61.5	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	18	14	77.8	1.44E-06	8.48E-06	3.1E-05	4	22.2	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	12	3	25	1.65E-06	2.45E-06	4.1E-06	9	75	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	18	10	55.6	5.13E-07	1.82E-06	1.5E-05	8	44.4	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorobenzene	µg/L	49	0	0	-	-	-	49	100	49	0	0	0	1	MCL	15	0	0	-
Hexachlorobutadiene	µg/L	97	0	0	-	-	-	97	100	49	0	0	0	8.619427	Reg6	15	0	0	-
Hexachlorocyclopentadiene	µg/L	49	0	0	-	-	-	49	100	0	0	0	0	50	MCL	15	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	17	1	5.88	8.01E-07	8.01E-07	8E-07	16	94.1	0	0	0	0	0.000108	Reg6	10	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	18	2	11.1	2.34E-06	2.865E-06	3.4E-06	16	88.9	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	15	1	6.67	3.33E-07	3.33E-07	3.3E-07	14	93.3	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	17	1	5.88	4.29E-07	4.29E-07	4.3E-07	16	94.1	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std station
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Hexachlorodibenzofuran[1,2,3,7,8,9-]	μg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	μg/L	14	1	7.14	5.33E-07	5.33E-07	5.3E-07	13	92.9	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachlorodibenzofurans (Total)	μg/L	18	10	55.6	3.33E-07	7.835E-07	3.5E-06	8	44.4	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Hexachloroethane	μg/L	49	0	0	-	-	-	49	100	0	0	0	0	48.02252	Reg6	15	0	0	-
Hexanone[2-]	μg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	μg/L	49	0	0	-	-	-	49	100	49	0	0	0	0.294985	Reg6	15	0	0	-
Iodomethane	μg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Isophorone	μg/L	49	0	0	-	-	-	49	100	0	0	0	0	707.7004	Reg6	15	0	0	-
Isopropylbenzene	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	658.1967	Reg6	15	0	0	-
Isopropyltoluene[4-]	μg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Methacrylonitrile	μg/L	38	0	0	-	-	-	38	100	38	0	0	0	1.042857	Reg6	13	0	0	-
Methoxychlor[4,4'-]	μg/L	24	0	0	-	-	-	24	100	0	0	0	0	40	MCL	11	0	0	-
Methyl Methacrylate	μg/L	42	0	0	-	-	-	42	100	0	0	0	0	1419.444	Reg6	14	0	0	-
Methyl tert-Butyl Ether	μg/L	8	0	0	-	-	-	8	100	0	0	0	0	370.8305	Reg6	8	0	0	-
Methyl-1-propanol[2-]	μg/L	37	0	0	-	-	-	37	100	0	0	0	0	1825	Reg6	14	0	0	-
Methyl-2-pentanone[4-]	μg/L	48	0	0	-	-	-	48	100	0	0	0	0	1990.909	Reg6	15	0	0	-
Methylene Chloride	μg/L	41	0	0	-	-	-	41	100	39	0	0	0	5	MCL	15	0	0	-
Methylnaphthalene[1-]	μg/L	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	49	1	2.04	0.6	0.6	0.6	48	98	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Methylphenol[2-]	μg/L	46	0	0	-	-	-	46	100	0	0	0	0	1825	Reg6	15	0	0	-
Methylphenol[3-,4-]	μg/L	24	0	0	-	-	-	24	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Methylphenol[4-]	μg/L	22	0	0	-	-	-	22	100	0	0	0	0	182.5	Reg6	11	0	0	-
Methylpyridine[2-]	μg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Naphthalene	μg/L	94	1	1.06	0.64	0.64	0.64	93	98.9	0	0	0	0	30	NMGSU	15	0	0	-
Nitroaniline[2-]	μg/L	49	0	0	-	-	-	49	100	0	0	0	0	109.5	Reg6	15	0	0	-
Nitroaniline[3-]	μg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Nitroaniline[4-]	μg/L	49	0	0	-	-	-	49	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Nitrobenzene	μg/L	72	0	0	-	-	-	72	100	49	0	0	0	3.395349	Reg6	15	0	0	-
Nitrophenol[2-]	μg/L	44	0	0	-	-	-	44	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Nitrophenol[4-]	μg/L	46	0	0	-	-	-	46	100	0	0	0	0	292	Reg6	15	0	0	-
Nitroso-di-n-butylamine[N-]	μg/L	30	0	0	-	-	-	30	100	30	0	0	0	0.122685	Reg6	13	0	0	-
Nitroso-di-n-propylamine[N-]	μg/L	47	0	0	-	-	-	47	100	47	0	0	0	0.096045	Reg6	15	0	0	-
Nitrosodiethylamine[N-]	μg/L	30	0	0	-	-	-	30	100	30	0	0	0	0.001436	Reg6	13	0	0	-
Nitrosodimethylamine[N-]	μg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.004222	Reg6	14	0	0	-
Nitrosopyrrolidine[N-]	μg/L	30	0	0	-	-	-	30	100	30	0	0	0	0.32015	Reg6	13	0	0	-
Nitrotoluene[2-]	μg/L	23	0	0	-	-	-	23	100	0	0	0	0	2.92311	Reg6	11	0	0	-
Nitrotoluene[3-]	μg/L	23	0	0	-	-	-	23	100	0	0	0	0	121.6667	Reg6	11	0	0	-
Nitrotoluene[4-]	μg/L	23	0	0	-	-	-	23	100	0	0	0	0	39.54796	Reg6	11	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	μg/L	17	1	5.88	0.00011	0.00011	0.00011	16	94.1	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	μg/L	13	4	30.8	5.13E-06	7.19E-06	1E-05	9	69.2	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	μg/L	49	0	0	-	-	-	49	100	46	0	0	0	9.536393	Reg6	15	0	0	-
PETN	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Pentachlorobenzene	μg/L	30	0	0	-	-	-	30	100	0	0	0	0	29.2	Reg6	13	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	μg/L	15	1	6.67	5.84E-07	5.84E-07	5.8E-07	14	93.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	μg/L	18	3	16.7	5.84E-07	5.98E-07	9.2E-07	15	83.3	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	μg/L	13	1	7.69	0.000001	0.000001	1E-06	12	92.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	μg/L	13	3	23.1	5.84E-07	7.29E-07	1.3E-06	10	76.9	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	μg/L	18	9	50	5.41E-07	1.17E-06	4.1E-06	9	50	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Pentachlorophenol	µg/L	45	0	0	-	-	-	45	100	45	0	0	0	1	MCL	15	0	0	-
Phenanthrene	µg/L	49	1	2.04	0.75	0.75	0.75	48	98	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-
Phenol	µg/L	45	0	0	-	-	-	45	100	45	0	0	0	5	NMGSU	15	0	0	-
Propionitrile	µg/L	42	0	0	-	-	-	42	100	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Propylbenzene[1-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60.83333	Reg6	15	0	0	-
Pyrene	µg/L	49	1	2.04	0.66	0.66	0.66	48	98	0	0	0	0	182.5	Reg6	15	0	0	-
Pyridine	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	36.5	Reg6	5	0	0	-
RDX	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	6.111958	Reg6	11	0	0	-
Styrene	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	100	MCL	15	0	0	-
TATB	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	30	0	0	-	-	-	30	100	30	0	0	0	0.00003	MCL	13	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	0.00003	MCL	9	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	18	1	5.56	5.22E-07	5.22E-07	5.2E-07	17	94.4	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	25.49549	Reg6	15	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	10	NMGSU	15	0	0	-
Tetrachloroethene	µg/L	47	0	0	-	-	-	47	100	0	0	0	0	5	MCL	15	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	27	0	0	-	-	-	27	100	27	0	0	0	5	MCL	12	0	0	-
Tetryl	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	146	Reg6	11	0	0	-
Toluene	µg/L	48	1	2.08	0.38	0.38	0.38	47	97.9	0	0	0	0	750	NMGSU	15	0	0	-
Toxaphene (Technical Grade)	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	3	MCL	11	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	59179.86	Reg6	14	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	42	0	0	-	-	-	42	100	n/a	n/a	n/a	n/a	n/a	n/a	14	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	91	0	0	-	-	-	91	100	0	0	0	0	70	MCL	15	0	0	-
Trichloroethane[1,1,1-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	60	NMGSU	15	0	0	-
Trichloroethane[1,1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Trichloroethene	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Trichlorofluoromethane	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	5	MCL	15	0	0	-
Trichlorophenol[2,4,5-]	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	3650	Reg6	15	0	0	-
Trichlorophenol[2,4,6-]	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	61.11958	Reg6	15	0	0	-
Trichloropropane[1,2,3-]	µg/L	48	0	0	-	-	-	48	100	48	0	0	0	0.094692	Reg6	15	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	12.42906	Reg6	15	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	12.32618	Reg6	15	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	1095	Reg6	11	0	0	-

Table B-3e
Screening Table for Mortandad Watershed Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Organics	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std station List[b]
Trinitrotoluene[2,4,6-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	22.41051	Reg6	11	0	0	-
Vinyl Chloride	µg/L	48	0	0	-	-	-	48	100	48	0	0	0	1	NMGSU	15	0	0	-
Vinyl acetate	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	412.4294	Reg6	14	0	0	-
Xylene (Total)	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	10000	MCL	11	0	0	-
Xylene[1,2-]	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	1431.373	Reg6	15	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	48	0	0	-	-	-	48	100	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

1=MCO-2	9=MCO-6
2=MCA-4	10=MCA-2
3=MCO-0.6	11=MCO-7
4=MCA-1	12=MT-1
5=MCO-3	13=MCO-7.5
6=MCA-5	14=MT-3
7=MCO-4B	15=MT-4
8=MCO-5	16=CDBO-6

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-4a
Screening Table for Mortandad Watershed Metals in Intermediate Groundwater (Perched Zone) Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of locations)	(number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Aluminum	µg/L	25	2	8	5	6.55	8.1	23	92	0	0	0	0	5000	NMGSF	5	0	0	-
Antimony	µg/L	25	4	16	0.61	1.65	2.7	21	84	0	0	0	0	6	MCL	5	0	0	-
Arsenic	µg/L	25	2	8	0.4	0.55	0.7	23	92	0	0	0	0	10	MCL	5	0	0	-
Barium	µg/L	25	25	100	14.2	30.1	54	0	0	0	0	0	0	1000	NMGSF	5	0	0	-
Beryllium	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	4	MCL	5	0	0	-
Boron	µg/L	25	24	96	22.3	28.3	50.5	1	4	0	0	0	0	750	NMGSF	5	0	0	-
Cadmium	µg/L	25	1	4	0.14	0.14	0.14	24	96	0	0	0	0	5	MCL	5	0	0	-
Chromium	µg/L	25	22	88	2.1	27.2	59	3	12	0	5	12	**48**	50	NMGSF	5	1	2	4
Chromium hexavalent ion	µg/L	1	1	100	53.2	53.2	53.2	0	0	0	1	1	**100**	50	NMGSF	1	1	1	4
Cobalt	µg/L	25	6	24	1.1	2.9	4	19	76	0	0	0	0	50	NMGSF	5	0	0	-
Copper	µg/L	24	17	70.8	2.8	8	30.5	7	29.2	0	0	0	0	1000	NMGSF	5	0	0	-
Iron	µg/L	25	11	44	10	62.4	12800	14	56	0	2	3	**12**	1000	NMGSF	5	1	1	5
Lead	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	15	MCL	5	0	0	-
Manganese	µg/L	25	25	100	1.6	11.6	1270	0	0	0	3	5	**20**	200	NMGSF	5	1	2	5
Mercury	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	2	MCL	4	0	0	-
Molybdenum	µg/L	25	15	60	1.4	2.5	56.1	10	40	0	0	0	0	1000	NMGSF	5	0	0	-
Nickel	µg/L	25	25	100	1.5	5.2	62.2	0	0	0	0	3	**12**	100	MCL	5	0	1	-
Selenium	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	50	NMGSF	5	0	0	-
Silver	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	50	NMGSF	5	0	0	-
Strontium	µg/L	25	25	100	75.5	169	220	0	0	0	0	0	0	21900	Reg6	5	0	0	-
Thallium	µg/L	25	6	24	0.41	0.555	0.75	19	76	0	0	0	0	2	MCL	5	0	0	-
Tin	µg/L	25	0	0	-	-	-	25	100	0	0	0	0	21900	Reg6	5	0	0	-
Uranium	µg/L	21	16	76.2	0.075	0.33	0.5	5	23.8	0	0	0	0	30	NMGSF	5	0	0	-
Vanadium	µg/L	25	13	52	1	1.3	1.9	12	48	0	0	0	0	182.5	Reg6	5	0	0	-
Zinc	µg/L	25	24	96	9	64.25	294	1	4	0	0	0	0	10000	NMGSF	5	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF   NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=MCOI-4
2=MCOBT-4.4
3=MCOI-5
4=MCOI-6
5=MCOI-8
6=MCOI-8

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-4b
Screening Table for Mortandad Watershed Metals in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Aluminum	µg/L	27	14	51.9	7	633.5	3410	13	48.1	0	0	0	0	36500	Reg6	4	0	0	-
Antimony	µg/L	27	4	14.8	2	2.95	7.1	23	85.2	0	1	2	**7.41**	6	MCL	4	1	1	3
Arsenic	µg/L	27	4	14.8	0.6	1.05	1.4	23	85.2	0	0	0	0	10	MCL	4	0	0	-
Barium	µg/L	27	27	100	14	32.6	70	0	0	0	0	0	0	2000	MCL	4	0	0	-
Beryllium	µg/L	27	1	3.7	0.15	0.15	0.15	26	96.3	0	0	0	0	4	MCL	4	0	0	-
Boron	µg/L	27	26	96.3	21	27.75	66	1	3.7	0	0	0	0	7300	Reg6	4	0	0	-
Cadmium	µg/L	27	1	3.7	0.17	0.17	0.17	26	96.3	0	0	0	0	5	MCL	4	0	0	-
Chromium	µg/L	27	26	96.3	3.7	51.1	938	1	3.7	0	7	14	**51.9**	100	MCL	4	3	4	1, 3, 5
Chromium hexavalent ion	µg/L	7	6	85.7	1.4	29.55	53	1	14.3	0	0	1	**14.3**	100	MCL	3	0	1	-
Cobalt	µg/L	27	8	29.6	1	2.8	9	19	70.4	0	0	0	0	730	Reg6	4	0	0	-
Copper	µg/L	27	26	96.3	1.7	24.15	211	1	3.7	0	0	0	0	1300	MCL	4	0	0	-
Iron	µg/L	27	23	85.2	10	121	20200	4	14.8	0	0	1	3.7	25550	Reg6	4	0	1	-
Lead	µg/L	27	19	70.4	0.3	1.8	13.8	8	29.6	0	0	3	**11.1**	15	Reg6	4	0	2	-
Manganese	µg/L	27	27	100	2.8	13.8	1290	0	0	0	0	4	**14.8**	1703.09	Reg6	4	0	1	-
Mercury	µg/L	24	0	0	-	-	-	24	100	0	0	0	0	2	NMGSU	4	0	0	-
Molybdenum	µg/L	27	16	59.3	1.2	3.7	150	11	40.7	0	0	1	3.7	182.5	Reg6	4	0	1	-
Nickel	µg/L	27	27	100	2.6	8	488	0	0	0	5	6	**22.2**	100	MCL	4	2	2	3, 5
Selenium	µg/L	27	1	3.7	1	1	1	26	96.3	0	0	0	0	50	MCL	4	0	0	-
Silver	µg/L	27	2	7.41	0.21	0.235	0.26	25	92.6	0	0	0	0	182.5	Reg6	4	0	0	-
Strontium	µg/L	27	27	100	78.4	170	224	0	0	0	0	0	0	21900	Reg6	4	0	0	-
Thallium	µg/L	27	0	0	-	-	-	27	100	0	0	0	0	2	MCL	4	0	0	-
Tin	µg/L	27	1	3.7	5.4	5.4	5.4	26	96.3	0	0	0	0	21900	Reg6	4	0	0	-
Uranium	µg/L	23	18	78.3	0.094	0.33	1.6	5	21.7	0	0	0	0	30	MCL	4	0	0	-
Vanadium	µg/L	27	17	63	1	1.7	8.6	10	37	0	0	0	0	182.5	Reg6	4	0	0	-
Zinc	µg/L	27	27	100	18.1	104	1070	0	0	0	0	0	0	10950	Reg6	4	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)
1=MCOI-4
2=MCOBT-4.4
3=MCOI-5
4=MCOI-6
5=MCOI-8
6=MCOI-8

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-4c
Screening Table for Mortandad Watershed General Inorganics in Intermediate Groundwater (Perched Zone) Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Alkalinity-CO3	µg/L	20	2	10	857	862.5	868	18	90	n/a[c]	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	22	22	100	38000	59600	77200	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Ammonia as Nitrogen	µg/L	8	1	12.5	189	189	189	7	87.5	0	0	1	**12.5**	208.57	Reg6	3	0	1	-
Bromide	µg/L	23	19	82.6	90	248	411	4	17.4	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Calcium	µg/L	25	25	100	14300	34900	48500	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Chloride	µg/L	23	23	100	5790	20700	24100	0	0	0	0	0	0	250000	NMGSF	4	0	0	-
Cyanide (Total)	µg/L	20	3	15	3.23	3.89	4.04	17	85	0	0	0	0	200	NMGSF	3	0	0	-
Fluoride	µg/L	23	19	82.6	205	370	635	4	17.4	0	0	0	0	1600	NMGSF	4	0	0	-
Hardness	µg/L	23	23	100	48600	107000	161000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	µg/L	25	25	100	3120	5430	9750	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Nitrate as Nitrogen	µg/L	3	3	100	2940	16700	20200	0	0	0	2	2	**66.7**	10000	Reg6	3	2	2	2, 4
Nitrate-Nitrite as N	µg/L	21	21	100	3170	15000	20000	0	0	0	15	17	**81**	10000	NMGSF	4	3	4	1, 2, 4
Nitrite as Nitrogen	µg/L	3	1	33.3	110	110	110	2	66.7	0	0	0	0	1000	Reg6	3	0	0	-
Oxalate	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Perchlorate	µg/L	46	43	93.5	81.6	160	256	3	6.52	0	43	43	**93.5**	24.5	Reg6	5	4	4	1, 2, 3, 4
Potassium	µg/L	25	25	100	551	714	2800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Silicon Dioxide	µg/L	23	21	91.3	31800	65900	72400	2	8.7	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Sodium	µg/L	25	25	100	13300	20200	42900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Specific Conductance	uS/cm	20	20	100	180	346	458	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Sulfate	µg/L	23	23	100	10800	29200	39600	0	0	0	0	0	0	600000	NMGSF	4	0	0	-
Total Dissolved Solids	µg/L	39	39	100	166000	309000	379000	0	0	0	0	0	0	1000000	NMGSF	4	0	0	-
Total Kjeldahl Nitrogen	µg/L	8	7	87.5	76	174	609	1	12.5	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	24	6	25	32.6	104	208	18	75	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
pH	SU	23	23	100	6.51	7.23	8.4	0	0	0	0	23	100	9	NMGSF	5	0	5	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=MCOI-4
2=MCOBT-4.4
3=MCOI-5
4=MCOI-6
5=MCOI-8
6=MCOI-8

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-4d

Screening Table for Mortandad Watershed General Inorganics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Alkalinity-CO3	µg/L	18	0	0	-	-	-	18	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	22	22	100	40300	65600	148000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Ammonia as Nitrogen	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	208.57	Reg6	3	0	0	-
Bromide	µg/L	22	18	81.8	137	251.5	414	4	18.2	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Calcium	µg/L	27	27	100	14400	34000	49400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chemical Oxygen Demand	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloride	µg/L	22	22	100	5990	20150	24100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Cyanide (Total)	µg/L	12	3	25	1.5	2.04	3.92	9	75	0	0	0	0	200	MCL	3	0	0	-
Fluoride	µg/L	22	19	86.4	160	536	1880	3	13.6	0	0	0	0	4000	MCL	4	0	0	-
Hardness	µg/L	23	23	100	50900	104000	164000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	µg/L	27	27	100	3330	5500	9930	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrate as Nitrogen	µg/L	4	3	75	11200	16300	16700	1	25	0	3	3	**75**	10000	Reg6	3	2	2	1, 4
Nitrate-Nitrite as N	µg/L	14	14	100	3070	15600	20000	0	0	0	10	13	**92.9**	10000	MCL	4	3	4	1, 2, 4
Nitrite as Nitrogen	µg/L	4	2	50	177	183	189	2	50	0	0	0	0	1000	Reg6	3	0	0	-
Oxalate	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Perchlorate	µg/L	5	3	60	140	160	160	2	40	0	3	3	**60**	24.5	Reg6	3	2	2	1, 4
Potassium	µg/L	27	27	100	561	739	4790	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Silicon Dioxide	µg/L	26	24	92.3	11500	66000	72000	2	7.69	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sodium	µg/L	27	27	100	13900	20500	45400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Specific Conductance	uS/cm	18	18	100	177	355	441	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sulfate	µg/L	22	22	100	10900	30550	39500	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Suspended Sediment Concentration	µg/L	19	8	42.1	1330	29550	107000	11	57.9	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	19	10	52.6	50	226.5	284	9	47.4	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Organic Carbon	µg/L	18	13	72.2	540	1050	2520	5	27.8	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	18	5	27.8	29.3	42.4	210	13	72.2	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Total Suspended Solids	µg/L	3	3	100	1250	1250	2750	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
pH	SU	22	22	100	1.78	7.37	8.04	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)
1=MCOI-4
2=MCOBT-4.4
3=MCOI-5
4=MCOI-6
5=MCOI-8
6=MCOI-8

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-4e
Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
2,4-Diamino-6-nitrotoluene	µg/L	9	0	0	-	-	-	9	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
3,5-dinitroaniline	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Acenaphthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	365	Reg6	3	0	0	-
Acenaphthylene	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Acetone	µg/L	18	3	16.7	3.5	8.26	11.6	15	83.3	0	0	0	0	5475	Reg6	3	0	0	-
Acetonitrile	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	124.1	Reg6	3	0	0	-
Acetophenone	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	608.33	Reg6	3	0	0	-
Acrolein	µg/L	18	0	0	-	-	-	18	100	18	0	0	0	0.04	Reg6	3	0	0	-
Acrylonitrile	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	1.24	Reg6	3	0	0	-
Aldrin	µg/L	9	0	0	-	-	-	9	100	1	0	0	0	0.04	Reg6	3	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Aniline	µg/L	13	0	0	-	-	-	13	100	0	0	0	0	117.95	Reg6	3	0	0	-
Anthracene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1825	Reg6	3	0	0	-
Aroclor-1016	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1221	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1232	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1242	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1248	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1254	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1260	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1262	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Atrazine	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	3	MCL	3	0	0	-
Azobenzene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	6.11	Reg6	3	0	0	-
BHC[alpha-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	0.11	Reg6	3	0	0	-
BHC[beta-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	0.37	Reg6	3	0	0	-
BHC[delta-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
BHC[gamma-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	0.2	MCL	3	0	0	-
Benzene	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	5	MCL	3	0	0	-
Benzidine	µg/L	14	0	0	-	-	-	14	100	14	0	0	0	0.00	Reg6	3	0	0	-
Benzo(a)anthracene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.29	Reg6	3	0	0	-
Benzo(a)pyrene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2	MCL	3	0	0	-
Benzo(b)fluoranthene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.29	Reg6	3	0	0	-
Benzo(g,h,i)perylene	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	2.95	Reg6	3	0	0	-
Benzoic Acid	µg/L	17	1	5.88	9.3	9.3	9.3	16	94.1	0	0	0	0	146000	Reg6	3	0	0	-
Benzyl Alcohol	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	10950	Reg6	3	0	0	-
Bis(2-chloroethoxy)methane	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.60	Reg6	3	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	19	10	52.6	2.3	6.235	16.2	9	47.4	9	5	8	**42.1**	6	MCL	3	2	2	1, 4
Bromobenzene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	23.25	Reg6	3	0	0	-
Bromochloromethane	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Bromodichloromethane	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	10.69	Reg6	3	0	0	-
Bromoform	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	85.10	Reg6	3	0	0	-
Bromomethane	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	8.66	Reg6	3	0	0	-
Bromophenyl-phenylether[4-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-

Table B-4e
Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Butanol[1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	3650	Reg6	2	0	0	-
Butanone[2-]	µg/L	19	3	15.8	2.45	3.7	4.6	16	84.2	0	0	0	0	7064.52	Reg6	3	0	0	-
Butylbenzene[n-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60.83	Reg6	3	0	0	-
Butylbenzene[sec-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60.83	Reg6	3	0	0	-
Butylbenzene[tert-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60.83	Reg6	3	0	0	-
Butylbenzylphthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	7300	Reg6	3	0	0	-
Carbazole	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	33.62	Reg6	3	0	0	-
Carbon Disulfide	µg/L	18	2	11.1	4.2	4.2	4.2	16	88.9	0	0	0	0	1042.86	Reg6	3	0	0	-
Carbon Tetrachloride	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Chlordane[alpha-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chlordane[gamma-]	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	14.31	Reg6	3	0	0	-
Chloro-1-propene[3-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	1825	Reg6	3	0	0	-
Chloro-3-methylphenol[4-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloroaniline[4-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	146	Reg6	3	0	0	-
Chlorobenzene	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	100	MCL	3	0	0	-
Chlorodibromomethane	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	7.89	Reg6	3	0	0	-
Chloroethane	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	228.57	Reg6	3	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Chloroform	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60	MCL	3	0	0	-
Chloromethane	µg/L	20	3	15	0.673	0.748	3.4	17	85	0	0	0	0	21.35	Reg6	3	0	0	-
Chloronaphthalene[2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	486.67	Reg6	3	0	0	-
Chlorophenol[2-]	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	30.42	Reg6	3	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chlorotoluene[2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	121.67	Reg6	3	0	0	-
Chlorotoluene[4-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chrysene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2	MCL	3	0	0	-
DDD[4,4'-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	2.80	Reg6	3	0	0	-
DDE[4,4'-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	1.98	Reg6	3	0	0	-
DDT[4,4'-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	1.98	Reg6	3	0	0	-
Di-n-butylphthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	3650	Reg6	3	0	0	-
Di-n-octylphthalate	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.03	Reg6	3	0	0	-
Dibenzofuran	µg/L	19	0	0	-	-	-	19	100	2	0	0	0	12.17	Reg6	3	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.2	MCL	3	0	0	-
Dibromoethane[1,2-]	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.05	MCL	3	0	0	-
Dibromomethane	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60.83	Reg6	3	0	0	-
Dichlorobenzene[1,2-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	600	MCL	3	0	0	-
Dichlorobenzene[1,3-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	600	MCL	3	0	0	-
Dichlorobenzene[1,4-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	75	MCL	3	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	1.49	Reg6	3	0	0	-
Dichlorodifluoromethane	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	394.59	Reg6	3	0	0	-
Dichloroethane[1,1-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	25	NMGSU	3	0	0	-
Dichloroethane[1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Dichloroethene[1,1-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	NMGSU	3	0	0	-
Dichloroethene[cis-1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	70	MCL	3	0	0	-
Dichloroethene[trans-1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	100	MCL	3	0	0	-
Dichlorophenol[2,4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	109.5	Reg6	3	0	0	-

Table B-4e
Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Dichloropropane[1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Dichloropropane[1,3-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	4	1	25	1	1	1	3	75	0	0	0	0	6.71	Reg6	3	0	0	-
Dichloropropene[trans-1,3-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dieldrin	µg/L	9	0	0	-	-	-	9	100	3	0	0	0	0.04	Reg6	3	0	0	-
Diesel Range Organics	µg/L	4	2	50	95.5	122.8	150	2	50	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Diethyl Ether	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Diethylphthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	29200	Reg6	3	0	0	-
Dimethyl Phthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	365000	Reg6	3	0	0	-
Dimethylphenol[2,4-]	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	730	Reg6	3	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	3.65	Reg6	3	0	0	-
Dinitrophenol[2,4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	73	Reg6	3	0	0	-
Dinitrotoluene[2,4-]	µg/L	27	0	0	-	-	-	27	100	0	0	0	0	73	Reg6	3	0	0	-
Dinitrotoluene[2,6-]	µg/L	27	0	0	-	-	-	27	100	0	0	0	0	36.5	Reg6	3	0	0	-
Dinoseb	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	7	MCL	3	0	0	-
Dioxane[1,4-]	µg/L	20	18	90	8.26	44.55	56.4	2	10	0	0	10	**50**	61.12	Reg6	3	0	2	-
Diphenylamine	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	912.5	Reg6	3	0	0	-
Endosulfan I	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endosulfan II	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endosulfan Sulfate	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	2	MCL	3	0	0	-
Endrin Aldehyde	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin Ketone	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Ethyl Methacrylate	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	547.5	Reg6	3	0	0	-
Ethylbenzene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	700	MCL	3	0	0	-
Fluoranthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1460	Reg6	3	0	0	-
Fluorene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	243.33	Reg6	3	0	0	-
HMX	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	1825	Reg6	3	0	0	-
Heptachlor	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	0.4	MCL	3	0	0	-
Heptachlor Epoxide	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	0.2	MCL	3	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	8	4	50	2.2E-06	2.7E-06	1.38E-05	4	50	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	8	4	50	1.5E-06	3.43E-06	7.55E-06	4	50	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorobenzene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	1	MCL	3	0	0	-
Hexachlorobutadiene	µg/L	38	0	0	-	-	-	38	100	19	0	0	0	8.62	Reg6	3	0	0	-
Hexachlorocyclopentadiene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	50	MCL	3	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.000108	Reg6	3	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	7	1	14.3	2E-06	2.04E-06	2.04E-06	6	85.7	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-

Table B-4e

Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	8	1	12.5	9.1E-07	9.05E-07	9.05E-07	7	87.5	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	8	3	37.5	1.6E-06	2.07E-06	2.95E-06	5	62.5	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachloroethane	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	48.02	Reg6	3	0	0	-
Hexanone[2-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.29	Reg6	3	0	0	-
Iodomethane	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Isophorone	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	707.70	Reg6	3	0	0	-
Isopropylbenzene	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	658.20	Reg6	3	0	0	-
Isopropyltoluene[4-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Methacrylonitrile	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	1.04	Reg6	3	0	0	-
Methoxychlor[4,4'-]	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	40	MCL	3	0	0	-
Methyl Methacrylate	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	1419.44	Reg6	3	0	0	-
Methyl tert-Butyl Ether	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	370.83	Reg6	3	0	0	-
Methyl-1-propanol[2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1825	Reg6	3	0	0	-
Methyl-2-pentanone[4-]	µg/L	20	2	10	5.8	8.2	10.6	18	90	0	0	0	0	1990.91	Reg6	3	0	0	-
Methylene Chloride	µg/L	19	0	0	-	-	-	19	100	18	0	0	0	5	MCL	3	0	0	-
Methylnaphthalene[1-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Methylphenol[2-]	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	1825	Reg6	3	0	0	-
Methylphenol[3-,4-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Methylphenol[4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	182.5	Reg6	2	0	0	-
Naphthalene	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	30	NMGSU	3	0	0	-
Nitroaniline[2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	109.5	Reg6	3	0	0	-
Nitroaniline[3-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Nitroaniline[4-]	µg/L	19	1	5.26	17.6	17.6	17.6	18	94.7	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Nitrobenzene	µg/L	27	0	0	-	-	-	27	100	19	0	0	0	3.40	Reg6	3	0	0	-
Nitrophenol[2-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Nitrophenol[4-]	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	292	Reg6	3	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.12	Reg6	3	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.10	Reg6	3	0	0	-
Nitrosodiethylamine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.0014	Reg6	3	0	0	-
Nitrosodimethylamine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.0042	Reg6	3	0	0	-
Nitrosopyrrolidine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.32	Reg6	3	0	0	-
Nitrotoluene[2-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	2.92	Reg6	3	0	0	-
Nitrotoluene[3-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	121.67	Reg6	3	0	0	-
Nitrotoluene[4-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	39.55	Reg6	3	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	7	1	14.3	1.9E-05	0.000019	0.000019	6	85.7	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	9.54	Reg6	3	0	0	-
PETN	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorobenzene	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	29.2	Reg6	3	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorophenol	µg/L	18	0	0	-	-	-	18	100	18	0	0	0	1	MCL	3	0	0	-

Table B-4e
Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
										ND>Std	D>Std	D>Std/2	D>Std/2				(number of	(number of	
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Phenanthrene	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Phenol	µg/L	18	0	0	-	-	-	18	100	18	0	0	0	5	NMGSU	3	0	0	-
Propionitrile	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Propylbenzene[1-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	60.83	Reg6	3	0	0	-
Pyrene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	182.5	Reg6	3	0	0	-
RDX	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	6.11	Reg6	3	0	0	-
Styrene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	100	MCL	3	0	0	-
TATB	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.00003	MCL	3	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.00003	MCL	3	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	25.50	Reg6	3	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	10	NMGSU	3	0	0	-
Tetrachloroethene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	5	MCL	3	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	14	0	0	-	-	-	14	100	14	0	0	0	5	MCL	3	0	0	-
Tetryl	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	146	Reg6	3	0	0	-
Toluene	µg/L	21	10	47.6	0.606	1.85	31.2	11	52.4	0	0	0	0	750	NMGSU	3	0	0	-
Toxaphene (Technical Grade)	µg/L	9	0	0	-	-	-	9	100	0	0	0	0	3	MCL	3	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	59179.86	Reg6	3	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	38	0	0	-	-	-	38	100	0	0	0	0	70	MCL	3	0	0	-
Trichloroethane[1,1,1-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	60	NMGSU	3	0	0	-
Trichloroethane[1,1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Trichloroethene	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Trichlorofluoromethane	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	5	MCL	3	0	0	-
Trichlorophenol[2,4,5-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	3650	Reg6	3	0	0	-
Trichlorophenol[2,4,6-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	61.12	Reg6	3	0	0	-

Table B-4e
Screening Table for Mortandad Watershed Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		s with Data	D>Std	D>Std/2	D>Std Station
										ND>Std	D>Std	D>Std/2	D>Std/2				(number of	(number of	
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Trichloropropane[1,2,3-]	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	0.09	Reg6	3	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	12.43	Reg6	3	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	12.33	Reg6	3	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	1095	Reg6	3	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	22.41	Reg6	3	0	0	-
Vinyl Chloride	µg/L	20	0	0	-	-	-	20	100	20	0	0	0	1	NMGSU	3	0	0	-
Vinyl acetate	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	412.43	Reg6	3	0	0	-
Xylene (Total)	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	10000	MCL	1	0	0	-
Xylene[1,2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1431.37	Reg6	3	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (Unfiltered)

[b] Station List (codes)
1=MCOI-4
2=MCOBT-4.4
3=MCOI-5
4=MCOI-6
5=MCOI-8
6=MCOI-8

[c] n/a = Not applicable.

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-5a
Screening Table for Mortandad Watershed Metals in Regional Groundwater Filtered (F) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	µg/L	94	16	17	1.5	8	34.4	78	83	0	0	0	0	5000	NMGSF	12	0	0	-
Antimony	µg/L	103	0	0	-	-	-	103	100	0	0	0	0	6	MCL	12	0	0	-
Arsenic	µg/L	103	27	26.2	0.4	1.1	8.24	76	73.8	0	0	5	4.85	10	MCL	12	0	3	-
Barium	µg/L	103	102	99	5.1	35.45	310	1	0.971	0	0	0	0	1000	NMGSF	12	0	0	-
Beryllium	µg/L	103	1	0.971	0.1	0.1	0.1	102	99	0	0	0	0	4	MCL	12	0	0	-
Boron	µg/L	103	89	86.4	10.1	15.9	63	14	13.6	0	0	0	0	750	NMGSF	12	0	0	-
Cadmium	µg/L	103	2	1.94	0.1	0.105	0.11	101	98.1	0	0	0	0	5	MCL	12	0	0	-
Chromium	µg/L	114	84	73.7	0.93	4.9	434	30	26.3	0	10	10	**8.77**	50	NMGSF	13	1	1	10
Chromium hexavalent ion	µg/L	30	28	93.3	2.3	5.3	460	2	6.67	0	7	7	**23.3**	50	NMGSF	10	1	1	10
Cobalt	µg/L	103	10	9.71	1	1.65	8.3	93	90.3	0	0	0	0	50	NMGSF	12	0	0	-
Copper	µg/L	93	13	14	1.1	2.1	6.5	80	86	0	0	0	0	1000	NMGSF	12	0	0	-
Iron	µg/L	103	41	39.8	10	47.4	4500	62	60.2	0	6	6	**5.83**	1000	NMGSF	12	1	1	5
Lead	µg/L	103	20	19.4	0.05	0.0875	5.7	83	80.6	0	0	0	0	15	MCL	12	0	0	-
Manganese	µg/L	103	63	61.2	1.1	10.7	588	40	38.8	0	6	8	**7.77**	200	NMGSF	12	1	2	5
Mercury	µg/L	102	2	1.96	0.064	0.068	0.072	100	98	0	0	0	0	2	MCL	11	0	0	-
Molybdenum	µg/L	103	59	57.3	0.87	2.2	21.4	44	42.7	0	0	0	0	1000	NMGSF	12	0	0	-
Nickel	µg/L	103	55	53.4	0.54	1.2	168	48	46.6	0	1	1	0.971	100	MCL	12	1	1	11
Selenium	µg/L	103	4	3.88	1	2.3	6.8	99	96.1	0	0	0	0	50	NMGSF	12	0	0	-
Silicon	µg/L	3	3	100	32300	36100	37200	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Silver	µg/L	103	1	0.971	1.8	1.8	1.8	102	99	0	0	0	0	50	NMGSF	12	0	0	-
Strontium	µg/L	103	103	100	38.9	62.7	613	0	0	0	0	0	0	21900	Reg6	12	0	0	-
Thallium	µg/L	103	27	26.2	0.11	0.45	0.83	76	73.8	0	0	0	0	2	MCL	12	0	0	-
Tin	µg/L	73	3	4.11	2.5	2.6	2.9	70	95.9	0	0	0	0	21900	Reg6	12	0	0	-
Uranium	µg/L	98	94	95.9	0.038	0.5	3.6	4	4.08	0	0	0	0	30	NMGSF	12	0	0	-
Vanadium	µg/L	103	84	81.6	0.76	6	13.4	19	18.4	0	0	0	0	182.5	Reg6	12	0	0	-
Zinc	µg/L	99	57	57.6	1	6.04	392	42	42.4	0	0	0	0	10000	NMGSF	12	0	0	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

b Station List (codes)
1=PM-4 8=R-16r
2=PM-5 9=R-21
3=R-1 10=R-28
4=R-13 11=R-33
5=R-14 12=R-34
6=R-15 13=Test Well 8
7=R-16

c n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-5b
Screening Table for Mortandad Watershed Metals in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Aluminum	µg/L	146	71	48.6	1	12	801	75	51.4	0	0	0	0	36500	Reg6	13	0	0	-
Antimony	µg/L	155	0	0	-	-	-	155	100	0	0	0	0	6	MCL	13	0	0	-
Arsenic	µg/L	155	67	43.2	0.691	1.2	7.3	88	56.8	0	0	6	3.87	10	MCL	13	0	1	-
Barium	µg/L	155	154	99.4	6.2	41	370	1	0.645	0	0	0	0	2000	MCL	13	0	0	-
Beryllium	µg/L	155	0	0	-	-	-	155	100	0	0	0	0	4	MCL	13	0	0	-
Boron	µg/L	155	138	89	6.61	17.8	84	17	11	0	0	0	0	7300	Reg6	13	0	0	-
Cadmium	µg/L	155	4	2.58	0.021	0.0785	0.14	151	97.4	0	0	0	0	5	MCL	13	0	0	-
Chromium	µg/L	164	125	76.2	1.05	5.4	428	39	23.8	0	16	16	**9.76**	100	MCL	13	1	1	10
Chromium hexavalent ion	µg/L	31	29	93.5	2.3	5.2	431	2	6.45	0	6	6	**19.4**	100	MCL	10	1	1	10
Cobalt	µg/L	155	12	7.74	0.73	3.065	8.6	143	92.3	0	0	0	0	730	Reg6	13	0	0	-
Copper	µg/L	145	59	40.7	1	2.6	37	86	59.3	0	0	0	0	1300	MCL	13	0	0	-
Iron	µg/L	155	116	74.8	10	51.15	6850	39	25.2	0	0	0	0	25550	Reg6	13	0	0	-
Lead	µg/L	155	44	28.4	0.052	0.2905	5.67	111	71.6	0	0	0	0	15	Reg6	13	0	0	-
Manganese	µg/L	155	102	65.8	1.1	16	586	53	34.2	0	0	0	0	1703.09	Reg6	13	0	0	-
Mercury	µg/L	154	9	5.84	0.059	0.1	0.15	145	94.2	0	0	0	0	2	NMGSU	13	0	0	-
Molybdenum	µg/L	155	97	62.6	0.87	2.2	21	58	37.4	0	0	0	0	182.5	Reg6	13	0	0	-
Nickel	µg/L	155	86	55.5	0.51	2	32	69	44.5	0	0	0	0	100	MCL	13	0	0	-
Selenium	µg/L	155	11	7.1	1	2.6	10.1	144	92.9	0	0	0	0	50	MCL	13	0	0	-
Silicon	µg/L	3	3	100	32400	34800	38300	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Silver	µg/L	155	3	1.94	0.5	0.61	1.1	152	98.1	0	0	0	0	182.5	Reg6	13	0	0	-
Strontium	µg/L	155	155	100	39.4	65	629	0	0	0	0	0	0	21900	Reg6	13	0	0	-
Thallium	µg/L	155	3	1.94	0.033	0.095	0.29	152	98.1	0	0	0	0	2	MCL	13	0	0	-
Tin	µg/L	125	1	0.8	1	1	1	124	99.2	0	0	0	0	21900	Reg6	13	0	0	-
Uranium	µg/L	147	137	93.2	0.066	0.59	3.6	10	6.8	0	0	0	0	30	MCL	13	0	0	-
Vanadium	µg/L	155	122	78.7	0.96	6.45	13.3	33	21.3	0	0	0	0	182.5	Reg6	13	0	0	-
Zinc	µg/L	153	98	64.1	1	8.7	460	55	35.9	0	0	0	0	10950	Reg6	13	0	0	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

1=PM-4	8=R-16r
2=PM-5	9=R-21
3=R-1	10=R-28
4=R-13	11=R-33
5=R-14	12=R-34
6=R-15	13=Test Well 8
7=R-16	

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-5c
Screening Table for Mortandad Watershed General Inorganics in Regional Groundwater Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Alkalinity-CO3	µg/L	79	30	38	809	1735	31700	49	62	n/a[c]	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	101	100	99	52100	65700	148000	1	0.99	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Alkalinity-HCO3	µg/L	25	24	96	53300	75200	111000	1	4	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Ammonia as Nitrogen	µg/L	49	22	44.9	14	81.5	1310	27	55.1	0	9	9	**18.4**	208.57	Reg6	10	1	1	7
Bromide	µg/L	104	29	27.9	20	56	180	75	72.1	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Calcium	µg/L	103	103	100	9160	13200	53000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Chloride	µg/L	104	104	100	1450	2300	28700	0	0	0	0	0	0	250000	NMGSF	11	0	0	-
Cyanide (Total)	µg/L	58	6	10.3	2.46	2.855	11.7	52	89.7	0	0	0	0	200	NMGSF	11	0	0	-
Dissolved Organic Carbon	µg/L	35	35	100	400	940	7000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Fluoride	µg/L	104	101	97.1	96	299	454	3	2.88	0	0	0	0	1600	NMGSF	11	0	0	-
Hardness	µg/L	57	57	100	37900	46500	141000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Humic Substances, Hydrophilic Acids	µg/L	10	10	100	-500	400	1000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophilic Bases	µg/L	10	10	100	0	100	200	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophilic Neutrals	µg/L	10	10	100	0	150	3900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophilic Total	µg/L	10	10	100	300	600	5100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophobic Acids	µg/L	10	10	100	200	800	2400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophobic Bases	µg/L	10	10	100	0	0	100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophobic Neutrals	µg/L	10	10	100	-300	500	1100	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Humic Substances, Hydrophobic Total	µg/L	10	10	100	500	1250	2800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Magnesium	µg/L	103	103	100	336	3600	10000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Nitrate as Nitrogen	µg/L	15	15	100	3.18	443	2420	0	0	0	0	0	0	10000	Reg6	7	0	0	-
Nitrate-Nitrite as N	µg/L	84	73	86.9	3.86	310	4760	11	13.1	0	0	0	0	10000	NMGSF	11	0	0	-
Nitrite as Nitrogen	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	1000	Reg6	7	0	0	-
Oxalate	µg/L	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Perchlorate	µg/L	123	58	47.2	0.0666	0.3635	6.92	65	52.8	0	0	0	0	24.5	Reg6	11	0	0	-
Potassium	µg/L	103	103	100	1210	1750	5260	0	0	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
	µg/L	100	97	97	15200	66200	86400	3		n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
	µg/L	103	103	100	9110	11400	31500	0				n/a	n/a	n/a	n/a	12	n/a	n/a	-
Specific Conductance	uS/cm	60	60	100	102	143	369	0				n/a	n/a	n/a	n/a	11	n/a	n/a	-
Sulfate	µg/L	104	103	99	376	3000	63200	1				0	0	600000	NMGSF	11	0	0	-
Total Dissolved Solids	µg/L	106	104	98.1	113000	146000	286000	2				0	0	1000000	NMGSF	13	0	0	-
Total Kjeldahl Nitrogen	µg/L	71	33	46.5	13	218	3730	38	53.5	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	99	48	48.5	9.78	124	795	51	51.5	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
pH	SU	74	74	100	7.09	7.96	9.3	0	0	0	1	74	100	9	NMGSF	11	1	11	7

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

1=PM-4	8=R-16r
2=PM-5	9=R-21
3=R-1	10=R-28
4=R-13	11=R-33
5=R-14	12=R-34
6=R-15	13=Test Well 8
7=R-16	

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-5d
Screening Table for Mortandad Watershed General Inorganics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Alkalinity-CO3	µg/L	45	12	26.7	993	1435	6450	33	73.3	n/a[c]	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	100	100	100	48800	66600	137000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Alkalinity-HCO3	µg/L	8	8	100	48500	57250	74900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Ammonia as Nitrogen	µg/L	51	22	43.1	10	56.5	1330	29	56.9	0	8	8	**15.7**	208.57	Reg6	11	1	1	7
Bromide	µg/L	96	63	65.6	10	41.1	180	33	34.4	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Calcium	µg/L	155	155	100	9780	13700	53900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chemical Oxygen Demand	µg/L	12	7	58.3	4010	7490	130000	5	41.7	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloride	µg/L	103	103	100	1510	2390	36200	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Cyanide (Total)	µg/L	83	7	8.43	2.32	3.83	27.4	76	91.6	0	0	0	0	200	MCL	13	0	0	-
Fluoride	µg/L	104	99	95.2	140	290	1460	5	4.81	0	0	0	0	4000	MCL	13	0	0	-
Hardness	µg/L	67	67	100	36900	46800	133000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Magnesium	µg/L	155	155	100	282	3450	9840	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Nitrate as Nitrogen	µg/L	57	50	87.7	4.48	435	4570	7	12.3	0	0	0	0	10000	Reg6	9	0	0	-
Nitrate-Nitrite as N	µg/L	66	56	84.8	46.9	303.5	4890	10	15.2	0	0	0	0	10000	MCL	12	0	0	-
Nitrite as Nitrogen	µg/L	57	4	7.02	15	50.5	88	53	93	0	0	0	0	1000	Reg6	9	0	0	-
Oxalate	µg/L	57	0	0	-	-	-	57	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Perchlorate	µg/L	198	66	33.3	0.0517	0.3375	20	132	66.7	0	0	1	0.505	24.5	Reg6	13	0	1	-
Potassium	µg/L	155	155	100	1250	1800	5080	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Silicon Dioxide	µg/L	146	143	97.9	15200	42000	87900	3	2.05	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Sodium	µg/L	155	155	100	9590	12200	31300	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Specific Conductance	uS/cm	46	46	100	104	140.5	367	0	0	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Sulfate	µg/L	103	103	100	30	3320	63400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Suspended Sediment Concentration	µg/L	53	11	20.8	722	4500	13500	42	79.2	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	81	34	42	12	296	4070	47	58	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Total Organic Carbon	µg/L	71	41	57.7	204	547	3330	30	42.3	n/a	n/a	n/a	n/a	n/a	n/a	11	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	123	73	59.3	4	70	1020	50	40.7	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
	µg/L	11	3	27.3	3500	6000	6000	8		n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
	SU	101	101	100	6.91	7.9	9.4	0				n/a	n/a	n/a	n/a	13	n/a	n/a	-

a Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSF   NMAC 20.6.2, Groundwater Standards (UnFiltered)

b Station List (codes)
1=PM-4   8=R-16r
2=PM-5   9=R-21
3=R-1   10=R-28
4=R-13   11=R-33
5=R-14   12=R-34
6=R-15   13=Test Well 8
7=R-16

c n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
2,4-Diamino-6-nitrotoluene	μg/L	41	0	0	-	-	-	41	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	μg/L	41	0	0	-	-	-	41	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
3,5-dinitroaniline	μg/L	41	0	0	-	-	-	41	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Acenaphthene	μg/L	102	0	0	-	-	-	102	100	0	0	0	0	365	Reg6	13	0	0	-
Acenaphthylene	μg/L	102	2	1.96	0.25	2.175	4.1	100	98	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Acetone	μg/L	99	6	6.06	1.79	2.65	4.2	93	93.9	0	0	0	0	5475	Reg6	13	0	0	-
Acetonitrile	μg/L	59	0	0	-	-	-	59	100	0	0	0	0	124.1	Reg6	13	0	0	-
Acetophenone	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	608.3333	Reg6	3	0	0	-
Acrolein	μg/L	64	0	0	-	-	-	64	100	64	0	0	0	0.041619	Reg6	13	0	0	-
Acrylonitrile	μg/L	69	0	0	-	-	-	69	100	69	0	0	0	1.237239	Reg6	13	0	0	-
Aldrin	μg/L	80	0	0	-	-	-	80	100	2	0	0	0	0.039548	Reg6	13	0	0	-
Amino-2,6-dinitrotoluene[4-]	μg/L	87	0	0	-	-	-	87	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	μg/L	88	0	0	-	-	-	88	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Aniline	μg/L	95	0	0	-	-	-	95	100	0	0	0	0	117.9501	Reg6	13	0	0	-
Anthracene	μg/L	102	1	0.98	0.3	0.3	0.3	101	99	0	0	0	0	1825	Reg6	13	0	0	-
Aroclor-1016	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1221	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1232	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1242	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1248	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1254	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1260	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.5	MCL	13	0	0	-
Aroclor-1262	μg/L	41	0	0	-	-	-	41	100	0	0	0	0	0.5	MCL	12	0	0	-
Atrazine	μg/L	59	0	0	-	-	-	59	100	59	0	0	0	3	MCL	13	0	0	-
Azobenzene	μg/L	98	0	0	-	-	-	98	100	98	0	0	0	6.111958	Reg6	13	0	0	-
BHC[alpha-]	μg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.106717	Reg6	13	0	0	-
	μg/L	80	0	0	-	-	-	80		0	0	0	0	0.373509	Reg6	13	0	0	-
	μg/L	80	0	0	-	-	-	80				n/a	n/a	n/a	n/a	13	n/a	n/a	-
BHC[gamma-]	μg/L	80	1	1.25	0.0129	0.0129	0.0129	79				0	0	0.2	MCL	13	0	0	-
Benzene	μg/L	100	0	0	-	-	-	100				0	0	5	MCL	13	0	0	-
Benzidine	μg/L	52	0	0	-	-	-	52				0	0	0.000936	Reg6	13	0	0	-
Benzo(a)anthracene	μg/L	102	1	0.98	0.42	0.42	0.42	101	99	101	1	1	0.98	0.295	Reg6	13	1	1	5
Benzo(a)pyrene	μg/L	101	0	0	-	-	-	101	100	101	0	0	0	0.2	MCL	13	0	0	-
Benzo(b)fluoranthene	μg/L	102	0	0	-	-	-	102	100	102	0	0	0	0.294985	Reg6	13	0	0	-
Benzo(g,h,i)perylene	μg/L	101	0	0	-	-	-	101	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Benzo(k)fluoranthene	μg/L	102	0	0	-	-	-	102	100	0	0	0	0	2.949853	Reg6	13	0	0	-
Benzoic Acid	μg/L	92	2	2.17	19.9	20.5	21.1	90	97.8	0	0	0	0	146000	Reg6	13	0	0	-
Benzyl Alcohol	μg/L	100		0	-	-	-	100	100	0	0	0	0	10950	Reg6	13	0	0	-
Bis(2-chloroethoxy)methane	μg/L	102	0	0	-	-	-	102	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Bis(2-chloroethyl)ether	μg/L	102	0	0	-	-	-	102	100	102	0	0	0	0.602164	Reg6	13	0	0	-
Bis(2-ethylhexyl)phthalate	μg/L	101	4	3.96	2.2	3.55	8.2	97	96	90	1	2	1.98	6	MCL	13	1	1	11
Bromobenzene	μg/L	101	0	0	-	-	-	101	100	0	0	0	0	23.25201	Reg6	13	0	0	-
Bromochloromethane	μg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Bromodichloromethane	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	10.69108	Reg6	13	0	0	-
Bromoform	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	85.10321	Reg6	13	0	0	-
Bromomethane	μg/L	103	0	0	-	-	-	103	100	0	0	0	0	8.661017	Reg6	13	0	0	-
Bromophenyl-phenylether[4-]	μg/L	101	0	0	-	-	-	101	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Butanol[1-]	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	3650	Reg6	5	0	0	-
Butanone[2-]	μg/L	103	0	0	-	-	-	103	100	0	0	0	0	7064.516	Reg6	13	0	0	-
Butylbenzene[n-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	60.83333	Reg6	13	0	0	-
Butylbenzene[sec-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	60.83333	Reg6	13	0	0	-
Butylbenzene[tert-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	60.83333	Reg6	13	0	0	-
Butylbenzylphthalate	μg/L	102	0	0	-	-	-	102	100	0	0	0	0	7300	Reg6	13	0	0	-
Carbazole	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	33.61577	Reg6	3	0	0	-
Carbon Disulfide	μg/L	99	2	2.02	1.95	2.05	2.15	97	98	0	0	0	0	1042.857	Reg6	13	0	0	-
Carbon Tetrachloride	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-
Chlordane[alpha-]	μg/L	80	0	0	-	-	-	80	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chlordane[gamma-]	μg/L	80	0	0	-	-	-	80	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chloro-1,3-butadiene[2-]	μg/L	63	0	0	-	-	-	63	100	0	0	0	0	14.31373	Reg6	13	0	0	-
Chloro-1-propene[3-]	μg/L	63	0	0	-	-	-	63	100	0	0	0	0	1825	Reg6	13	0	0	-
Chloro-3-methylphenol[4-]	μg/L	99	0	0	-	-	-	99	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chloroaniline[4-]	μg/L	101	0	0	-	-	-	101	100	0	0	0	0	146	Reg6	13	0	0	-
Chlorobenzene	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	100	MCL	13	0	0	-
Chlorodibromomethane	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	7.891034	Reg6	13	0	0	-
Chloroethane	μg/L	98	0	0	-	-	-	98	100	0	0	0	0	228.5679	Reg6	13	0	0	-
Chloroethyl vinyl ether[2-]	μg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Chloroform	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	60	MCL	13	0	0	-
Chloromethane	μg/L	102	2	1.96	1.1	1.135	1.17	100	98	0	0	0	0	21.34503	Reg6	13	0	0	-
Chloronaphthalene[2-]	μg/L	101	0	0	-	-	-	101	100	0	0	0	0	486.6667	Reg6	13	0	0	-
Chlorophenol[2-]	μg/L	100	0	0	-	-	-	100	100	0	0	0	0	30.41667	Reg6	13	0	0	-
Chlorophenyl-phenyl[4-] Ether	μg/L	102	0	0	-	-	-	102	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chlorotoluene[2-]	μg/L	101	0	0	-	-	-	101	100	0	0	0	0	121.6667	Reg6	13	0	0	-
Chlorotoluene[4-]	μg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Chrysene	μg/L	102	1	0.98	0.38	0.38	0.38	101	99	101	1	1	0.98	0.2	MCL	13	1	1	5
DDD[4,4'-]	μg/L	78	2	2.56	0.00735	0.007635	0.00792	76	97.4	0	0	0	0	2.801314	Reg6	13	0	0	-
DDE[4,4'-]	μg/L	78	1	1.28	0.00799	0.00799	0.00799	77	98.7	0	0	0	0	1.977398	Reg6	13	0	0	-
DDT[4,4'-]	μg/L	77	0	0	-	-	-	77	100	0	0	0	0	1.977398	Reg6	13	0	0	-
Di-n-butylphthalate	μg/L	101	0	0	-	-	-	101	100	0	0	0	0	3650	Reg6	13	0	0	-
Di-n-octylphthalate	μg/L	102	0	0	-	-	-	102	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dibenz(a,h)anthracene	μg/L	102	0	0	-	-	-	102	100	102	0	0	0	0.029499	Reg6	13	0	0	-
Dibenzofuran	μg/L	102	0	0	-	-	-	102	100	3	0	0	0	12.16667	Reg6	13	0	0	-
Dibromo-3-Chloropropane[1,2-]	μg/L	104	0	0	-	-	-	104	100	104	0	0	0	0.2	MCL	13	0	0	-
Dibromoethane[1,2-]	μg/L	104	0	0	-	-	-	104	100	104	0	0	0	0.05	MCL	13	0	0	-
Dibromomethane	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	60.83333	Reg6	13	0	0	-
Dichlorobenzene[1,2-]	μg/L	205	0	0	-	-	-	205	100	0	0	0	0	600	MCL	13	0	0	-
Dichlorobenzene[1,3-]	μg/L	205	0	0	-	-	-	205	100	0	0	0	0	600	MCL	13	0	0	-
Dichlorobenzene[1,4-]	μg/L	206	0	0	-	-	-	206	100	0	0	0	0	75	MCL	13	0	0	-
Dichlorobenzidine[3,3'-]	μg/L	100	0	0	-	-	-	100	100	100	0	0	0	1.494034	Reg6	13	0	0	-
Dichlorodifluoromethane	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	394.5946	Reg6	13	0	0	-
Dichloroethane[1,1-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	25	NMGSU	13	0	0	-
Dichloroethane[1,2-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-
Dichloroethene[1,1-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	NMGSU	13	0	0	-
Dichloroethene[cis-1,2-]	μg/L	98	0	0	-	-	-	98	100	0	0	0	0	70	MCL	13	0	0	-
Dichloroethene[trans-1,2-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	100	MCL	13	0	0	-
Dichlorophenol[2,4-]	μg/L	97	0	0	-	-	-	97	100	0	0	0	0	109.5	Reg6	13	0	0	-

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Dichloropropane[1,2-]	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-
Dichloropropane[1,3-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	6.709735	Reg6	9	0	0	-
Dichloropropene[trans-1,3-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dieldrin	µg/L	79	1	1.27	0.00631	0.00631	0.00631	78	98.7	36	0	0	0	0.04202	Reg6	13	0	0	-
Diesel Range Organics	µg/L	6	1	16.7	25.8	25.8	25.8	5	83.3	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Diethyl Ether	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Diethylphthalate	µg/L	102	1	0.98	7.44	7.44	7.44	101	99	0	0	0	0	29200	Reg6	13	0	0	-
Dimethyl Phthalate	µg/L	102	0	0	-	-	-	102	100	0	0	0	0	365000	Reg6	13	0	0	-
Dimethylphenol[2,4-]	µg/L	97	0	0	-	-	-	97	100	0	0	0	0	730	Reg6	12	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	99	0	0	-	-	-	99	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	88	0	0	-	-	-	88	100	0	0	0	0	3.65	Reg6	13	0	0	-
Dinitrophenol[2,4-]	µg/L	97	0	0	-	-	-	97	100	0	0	0	0	73	Reg6	13	0	0	-
Dinitrotoluene[2,4-]	µg/L	190	0	0	-	-	-	190	100	0	0	0	0	73	Reg6	13	0	0	-
Dinitrotoluene[2,6-]	µg/L	190	0	0	-	-	-	190	100	0	0	0	0	36.5	Reg6	13	0	0	-
Dinoseb	µg/L	57	0	0	-	-	-	57	100	57	0	0	0	7	MCL	13	0	0	-
Dioxane[1,4-]	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	61.11958	Reg6	11	0	0	-
Diphenylamine	µg/L	101	0	0	-	-	-	101	100	0	0	0	0	912.5	Reg6	13	0	0	-
Endosulfan I	µg/L	80	0	0	-	-	-	80	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endosulfan II	µg/L	79	0	0	-	-	-	79	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endosulfan Sulfate	µg/L	78	1	1.28	0.00964	0.00964	0.00964	77	98.7	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endrin	µg/L	79	1	1.27	0.0068	0.0068	0.0068	78	98.7	0	0	0	0	2	MCL	13	0	0	-
Endrin Aldehyde	µg/L	77	0	0	-	-	-	77	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Endrin Ketone	µg/L	79	1	1.27	0.0208	0.0208	0.0208	78	98.7	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Ethyl Methacrylate	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	547.5	Reg6	13	0	0	-
Ethylbenzene	µg/L	101	0	0	-	-	-	101	100	0	0	0	0	700	MCL	13	0	0	-
Fluoranthene	µg/L	102	1	0.98	0.33	0.33	0.33	101	99	0	0	0	0	1460	Reg6	13	0	0	-
Fluorene	µg/L	98	1	1.02	0.3	0.3	0.3	97	99	0	0	0	0	243.3333	Reg6	13	0	0	-
HMX	µg/L	88	0	0	-	-	-	88	100	0	0	0	0	1825	Reg6	13	0	0	-
Heptachlor	µg/L	80	0	0	-	-	-	80	100	0	0	0	0	0.4	MCL	13	0	0	-
Heptachlor Epoxide	µg/L	78	0	0	-	-	-	78	100	0	0	0	0	0.2	MCL	13	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	20	7	35	9.91E-07	1.8E-06	4.96E-06	13	65	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	20	1	5	8.51E-07	8.51E-07	8.51E-07	19	95	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorobenzene	µg/L	102	0	0	-	-	-	102	100	102	0	0	0	1	MCL	13	0	0	-
Hexachlorobutadiene	µg/L	167	0	0	-	-	-	167	100	102	0	0	0	8.619427	Reg6	13	0	0	-
Hexachlorocyclopentadiene	µg/L	102	0	0	-	-	-	102	100	0	0	0	0	50	MCL	13	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	0.000108	Reg6	8	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Hexachloroethane	µg/L	102	0	0	-	-	-	102	100	0	0	0	0	48.02252	Reg6	13	0	0	-
Hexanone[2-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	102	0	0	-	-	-	102	100	102	0	0	0	0.294985	Reg6	13	0	0	-
Iodomethane	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Isophorone	µg/L	102	0	0	-	-	-	102	100	0	0	0	0	707.7004	Reg6	13	0	0	-
Isopropylbenzene	µg/L	104	6	5.77	0.25	0.34	0.39	98	94.2	0	0	0	0	658.1967	Reg6	13	0	0	-
Isopropyltoluene[4-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methacrylonitrile	µg/L	63	0	0	-	-	-	63	100	63	0	0	0	1.042857	Reg6	13	0	0	-
Methoxychlor[4,4'-]	µg/L	79	1	1.27	0.265	0.265	0.265	78	98.7	0	0	0	0	40	MCL	13	0	0	-
Methyl Methacrylate	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	1419.444	Reg6	13	0	0	-
Methyl tert-Butyl Ether	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	370.8305	Reg6	9	0	0	-
Methyl-1-propanol[2-]	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	1825	Reg6	13	0	0	-
Methyl-2-pentanone[4-]	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	1990.909	Reg6	13	0	0	-
Methylene Chloride	µg/L	100	0	0	-	-	-	100	100	96	0	0	0	5	MCL	13	0	0	-
Methylnaphthalene[1-]	µg/L	59	0	0	-	-	-	59	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	102	0	0	-	-	-	102	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methylphenol[2-]	µg/L	100	0	0	-	-	-	100	100	0	0	0	0	1825	Reg6	13	0	0	-
Methylphenol[3-,4-]	µg/L	56	0	0	-	-	-	56	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Methylphenol[4-]	µg/L	44	0	0	-	-	-	44	100	0	0	0	0	182.5	Reg6	12	0	0	-
Methylpyridine[2-]	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Naphthalene	µg/L	168	0	0	-	-	-	168	100	0	0	0	0	30	NMGSU	13	0	0	-
Nitroaniline[2-]	µg/L	100	1	1	5.3	5.3	5.3	99	99	0	0	0	0	109.5	Reg6	13	0	0	-
Nitroaniline[3-]	µg/L	100	2	2	4.1	4.25	4.4	98	98	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Nitroaniline[4-]	µg/L	98	0	0	-	-	-	98	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Nitrobenzene	µg/L	189	0	0	-	-	-	189	100	101	0	0	0	3.395349	Reg6	13	0	0	-
Nitrophenol[2-]	µg/L	94	0	0	-	-	-	94	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Nitrophenol[4-]	µg/L	100	0	0	-	-	-	100	100	0	0	0	0	292	Reg6	13	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	57	0	0	-	-	-	57	100	57	0	0	0	0.122685	Reg6	13	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	97	0	0	-	-	-	97	100	97	0	0	0	0.096045	Reg6	13	0	0	-
Nitrosodiethylamine[N-]	µg/L	57	0	0	-	-	-	57	100	57	0	0	0	0.001436	Reg6	13	0	0	-
Nitrosodimethylamine[N-]	µg/L	97	0	0	-	-	-	97	100	97	0	0	0	0.004222	Reg6	13	0	0	-
Nitrosopyrrolidine[N-]	µg/L	57	0	0	-	-	-	57	100	57	0	0	0	0.32015	Reg6	13	0	0	-
Nitrotoluene[2-]	µg/L	88	0	0	-	-	-	88	100	0	0	0	0	2.92311	Reg6	13	0	0	-
Nitrotoluene[3-]	µg/L	88	1	1.14	0.184	0.184	0.184	87	98.9	0	0	0	0	121.6667	Reg6	13	0	0	-
Nitrotoluene[4-]	µg/L	88	0	0	-	-	-	88	100	0	0	0	0	39.54796	Reg6	13	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	20	1	5	4.52E-06	4.52E-06	4.52E-06	19	95	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	102	0	0	-	-	-	102	100	102	0	0	0	9.536393	Reg6	13	0	0	-
PETN	µg/L	41	0	0	-	-	-	41	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Pentachlorobenzene	µg/L	57	0	0	-	-	-	57	100	0	0	0	0	29.2	Reg6	13	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	20	2	10	4.06E-07	4.26E-07	4.46E-07	18	90	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Pentachlorophenol	µg/L	99	2	2.02	10	10.3	10.6	97	98	97	2	2	2.02	1	MCL	13	1	1	7
Phenanthrene	µg/L	101	1	0.99	0.43	0.43	0.43	100	99	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Phenol	µg/L	100	0	0	-	-	-	100	100	100	0	0	0	5	NMGSU	13	0	0	-
Propionitrile	µg/L	63	0	0	-	-	-	63	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Propylbenzene[1-]	µg/L	101	0	0	-	-	-	101	100	0	0	0	0	60.83333	Reg6	13	0	0	-
Pyrene	µg/L	102	1	0.98	0.36	0.36	0.36	101	99	0	0	0	0	182.5	Reg6	13	0	0	-
Pyridine	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	36.5	Reg6	5	0	0	-
RDX	µg/L	88	0	0	-	-	-	88	100	0	0	0	0	6.111958	Reg6	13	0	0	-
Styrene	µg/L	101	0	0	-	-	-	101	100	0	0	0	0	100	MCL	13	0	0	-
TATB	µg/L	41	0	0	-	-	-	41	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	57	0	0	-	-	-	57	100	57	0	0	0	0.00003	MCL	13	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	0.00003	MCL	8	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	20	0	0	-	-	-	20	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	103	0	0	-	-	-	103	100	0	0	0	0	25.49549	Reg6	13	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	10	NMGSU	13	0	0	-
Tetrachloroethene	µg/L	101	0	0	-	-	-	101	100	0	0	0	0	5	MCL	13	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	55	0	0	-	-	-	55	100	55	0	0	0	5	MCL	13	0	0	-
Tetryl	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	146	Reg6	13	0	0	-
Toluene	µg/L	104	6	5.77	0.278	5.75	29.1	98	94.2	0	0	0	0	750	NMGSU	13	0	0	-
Toxaphene (Technical Grade)	µg/L	80	0	0	-	-	-	80	100	1	0	0	0	3	MCL	13	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	39	0	0	-	-	-	39	100	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	99	0	0	-	-	-	99	100	0	0	0	0	59179.86	Reg6	13	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	63	0	0	-	-	-	63	100	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	161	0	0	-	-	-	161	100	0	0	0	0	70	MCL	13	0	0	-
Trichloroethane[1,1,1-]	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	60	NMGSU	13	0	0	-
Trichloroethane[1,1,2-]	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-
Trichloroethene	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-
Trichlorofluoromethane	µg/L	104	0	0	-	-	-	104	100	0	0	0	0	5	MCL	13	0	0	-

Table B-5e
Screening Table for Mortandad Watershed Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Trichlorophenol[2,4,5-]	μg/L	97	0	0	-	-	-	97	100	0	0	0	0	3650	Reg6	13	0	0	-
Trichlorophenol[2,4,6-]	μg/L	96	0	0	-	-	-	96	100	0	0	0	0	61.11958	Reg6	13	0	0	-
Trichloropropane[1,2,3-]	μg/L	104	0	0	-	-	-	104	100	104	0	0	0	0.094692	Reg6	13	0	0	-
Trimethylbenzene[1,2,4-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	12.42906	Reg6	13	0	0	-
Trimethylbenzene[1,3,5-]	μg/L	104	0	0	-	-	-	104	100	0	0	0	0	12.32618	Reg6	13	0	0	-
Trinitrobenzene[1,3,5-]	μg/L	88	0	0	-	-	-	88	100	0	0	0	0	1095	Reg6	13	0	0	-
Trinitrotoluene[2,4,6-]	μg/L	88	0	0	-	-	-	88	100	0	0	0	0	22.41051	Reg6	13	0	0	-
Vinyl Chloride	μg/L	104	0	0	-	-	-	104	100	104	0	0	0	1	NMGSU	13	0	0	-
Vinyl acetate	μg/L	63	0	0	-	-	-	63	100	0	0	0	0	412.4294	Reg6	13	0	0	-
Xylene (Total)	μg/L	45	0	0	-	-	-	45	100	0	0	0	0	10000	MCL	12	0	0	-
Xylene[1,2-]	μg/L	66	0	0	-	-	-	66	100	0	0	0	0	1431.373	Reg6	13	0	0	-
Xylene[1,3-]+Xylene[1,4-]	μg/L	66	2	3.03	0.266	0.3035	0.341	64	97	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

1=PM-4	8=R-16r
2=PM-5	9=R-21
3=R-1	10=R-28
4=R-13	11=R-33
5=R-14	12=R-34
6=R-15	13=Test Well 8
7=R-16	

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-6a
Screening Table for Mortandad Watershed Metals in Springs Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Aluminum	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5000	NMGSF	1	0	0	-
Antimony	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	6	MCL	1	0	0	-
Arsenic	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	10	MCL	1	0	0	-
Barium	µg/L	2	2	100	113	116	119	0	0	0	0	0	0	1000	NMGSF	1	0	0	-
Beryllium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	4	MCL	1	0	0	-
Boron	µg/L	2	2	100	115	117.5	120	0	0	0	0	0	0	750	NMGSF	1	0	0	-
Cadmium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Chromium	µg/L	2	1	50	1.2	1.2	1.2	1	50	0	0	0	0	50	NMGSF	1	0	0	-
Cobalt	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	NMGSF	1	0	0	-
Copper	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	1000	NMGSF	1	0	0	-
Iron	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1000	NMGSF	1	0	0	-
Lead	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	15	Reg6	1	0	0	-
Manganese	µg/L	2	1	50	2.3	2.3	2.3	1	50	0	0	0	0	200	NMGSF	1	0	0	-
Mercury	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	2	MCL	1	0	0	-
Molybdenum	µg/L	2	1	50	2.7	2.7	2.7	1	50	0	0	0	0	1000	NMGSF	1	0	0	-
Nickel	µg/L	2	2	100	4.2	4.6	5	0	0	0	0	0	0	100	MCL	1	0	0	-
Selenium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	NMGSF	1	0	0	-
Silver	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	NMGSF	1	0	0	-
Strontium	µg/L	2	2	100	661	675	689	0	0	0	0	0	0	21900	Reg6	1	0	1	-
Thallium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	2	MCL	1	0	0	-
Tin	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	21900	Reg6	1	0	0	-
Uranium	µg/L	2	2	100	31.6	32.1	32.6	0	0	0	2	2	**100**	30	NMGSF	1	1	1	1
Vanadium	µg/L	2	2	100	10.3	11.25	12.2	0	0	0	0	0	0	182.5	Reg6	1	0	0	-
Zinc	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	10000	NMGSF	1	0	0	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-6b
Screening Table for Mortandad Watershed Metals in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	Station List[b]
Aluminum	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	36500	Reg6	1	0	0	-
Antimony	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	6	MCL	1	0	0	-
Arsenic	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	10	MCL	1	0	0	-
Barium	μg/L	2	2	100	116	117.5	119	0	0	0	0	0	0	2000	MCL	1	0	0	-
Beryllium	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	4	MCL	1	0	0	-
Boron	μg/L	2	2	100	118	119.5	121	0	0	0	0	0	0	7300	Reg6	1	0	0	-
Cadmium	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Chromium	μg/L	2	2	100	1.5	1.8	2.1	0	0	0	0	0	0	100	MCL	1	0	0	-
Cobalt	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	730	Reg6	1	0	0	-
Copper	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	1300	MCL	1	0	0	-
Iron	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	25550	Reg6	1	0	0	-
Lead	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	15	Reg6	1	0	0	-
Manganese	μg/L	2	1	50	3.1	3.1	3.1	1	50	0	0	0	0	1703.09	Reg6	1	0	0	-
Mercury	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	2	NMGSU	1	0	0	-
Molybdenum	μg/L	2	1	50	2.5	2.5	2.5	1	50	0	0	0	0	182.5	Reg6	1	0	0	-
Nickel	μg/L	2	2	100	4.5	4.75	5	0	0	0	0	0	0	100	MCL	1	0	0	-
Selenium	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	MCL	1	0	0	-
Silver	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	182.5	Reg6	1	0	0	-
Strontium	μg/L	2	2	100	674	684	694	0	0	0	0	0	0	21900	Reg6	1	0	1	-
Thallium	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	2	MCL	1	0	0	-
Tin	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	21900	Reg6	1	0	0	-
Uranium	μg/L	2	2	100	32.3	32.4	32.5	0	0	0	2	2	**100**	30	MCL	1	1	1	1
Vanadium	μg/L	2	2	100	10.5	11.5	12.5	0	0	0	0	0	0	182.5	Reg6	1	0	0	-
Zinc	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	10950	Reg6	1	0	0	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

b Station List (codes)

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-6c
Screening Table for Mortandad Watershed General Inorganics in Springs Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Alkalinity-CO3	µg/L	2	2	100	1570	1870	2170	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	2	2	100	232000	241000	250000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ammonia as Nitrogen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	208.57	Reg6	1	0	0	-
Bromide	µg/L	2	2	100	390	419.5	449	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Calcium	µg/L	2	2	100	117000	120500	124000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloride	µg/L	2	2	100	74800	76900	79000	0	0	0	0	0	0	250000	NMGSF	1	0	0	-
Cyanide (Total)	µg/L	2	1	50	8.73	8.73	8.73	1	50	0	0	0	0	200	NMGSF	1	0	0	-
Fluoride	µg/L	2	2	100	855	878	901	0	0	0	0	2	100	1600	NMGSF	1	0	1	-
Hardness	µg/L	2	2	100	373000	383500	394000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Magnesium	µg/L	2	2	100	19300	19800	20300	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	2	2	100	3640	6305	8970	0	0	0	0	1	**50**	10000	NMGSF	1	0	1	-
Perchlorate	µg/L	4	2	50	1.52	1.57	1.62	2	50	0	0	0	0	24.5	Reg6	1	0	0	-
Potassium	µg/L	2	2	100	5540	5655	5770	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Silicon Dioxide	µg/L	2	2	100	44600	45100	45600	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sodium	µg/L	2	2	100	39100	39950	40800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Specific Conductance	uS/cm	2	2	100	902	920	938	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sulfate	µg/L	2	2	100	72000	73600	75200	0	0	0	0	0	0	600000	NMGSF	1	0	0	-
Total Dissolved Solids	µg/L	4	4	100	534000	559000	575000	0	0	0	0	4	**100**	1000000	NMGSF	1	0	1	-
Total Kjeldahl Nitrogen	µg/L	2	2	100	266	296.5	327	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	2	2	100	26	29.5	33	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
pH	SU	2	2	100	7.9	7.995	8.09	0	0	0	0	2	100	9	NMGSF	1	0	1	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-6d
Screening Table for Mortandad Watershed General Inorganics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Alkalinity-CO3	µg/L	2	2	100	1530	1755	1980	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	2	2	100	236000	237500	239000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ammonia as Nitrogen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	208.57	Reg6	1	0	0	-
Bromide	µg/L	2	2	100	378	414	450	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Calcium	µg/L	2	2	100	123000	123500	124000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloride	µg/L	2	2	100	73900	76600	79300	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Cyanide (Total)	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	200	MCL	1	0	0	-
Fluoride	µg/L	2	2	100	861	878.5	896	0	0	0	0	0	0	4000	MCL	1	0	0	-
Hardness	µg/L	2	2	100	390000	391500	393000	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Magnesium	µg/L	2	2	100	20200	20300	20400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	2	2	100	4100	6500	8900	0	0	0	0	1	**50**	10000	MCL	1	0	1	-
Potassium	µg/L	2	2	100	5770	5800	5830	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Silicon Dioxide	µg/L	2	2	100	45200	46000	46800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sodium	µg/L	2	2	100	40900	40900	40900	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Specific Conductance	uS/cm	2	2	100	883	904	925	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sulfate	µg/L	2	2	100	72300	73800	75300	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Suspended Sediment Concentration	µg/L	2	1	50	6000	6000	6000	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	2	2	100	276	308.5	341	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Organic Carbon	µg/L	2	2	100	2680	2740	2800	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	2	2	100	23	23	23	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
pH	SU	2	2	100	7.87	7.885	7.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-6e
Screening Table for Mortandad Watershed Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
										ND>Std	D>Std	D>Std/2	D>Std/2				(number of	(number of	List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	
2,4-Diamino-6-nitrotoluene	µg/L	2	0	0	-	-	-	2	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
3,5-dinitroaniline	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acenaphthene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	365	Reg6	1	0	0	-
Acenaphthylene	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acetone	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5475	Reg6	1	0	0	-
Acetonitrile	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	124.1	Reg6	1	0	0	-
Acrolein	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.041619	Reg6	1	0	0	-
Acrylonitrile	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	1.237239	Reg6	1	0	0	-
Aldrin	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.039548	Reg6	1	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Aniline	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	117.9501	Reg6	1	0	0	-
Anthracene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	1825	Reg6	1	0	0	-
Atrazine	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	3	MCL	1	0	0	-
Azobenzene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	6.111958	Reg6	1	0	0	-
BHC[alpha-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.106717	Reg6	1	0	0	-
BHC[beta-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.373509	Reg6	1	0	0	-
BHC[delta-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
BHC[gamma-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.2	MCL	1	0	0	-
Benzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Benzidine	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.000936	Reg6	1	0	0	-
Benzo(a)anthracene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.294985	Reg6	1	0	0	-
Benzo(a)pyrene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.2	MCL	1	0	0	-
	µg/L	1	0	0	[b] Station List (codes)	-	-	1	100	1	0	0	0	0.294985	Reg6	1	0	0	-
	µg/L	1	0	0	Pine Rock Springs	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	2.949853	Reg6	1	0	0	-
Benzyl Alcohol	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	10950	Reg6	1	0	0	-
Bis(2-chloroethoxy)methane	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.602164	Reg6	1	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	6	MCL	1	0	0	-
Bromobenzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	23.25201	Reg6	1	0	0	-
Bromochloromethane	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromodichloromethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	10.69108	Reg6	1	0	0	-
Bromoform	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	85.10321	Reg6	1	0	0	-
Bromomethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	8.661017	Reg6	1	0	0	-
Bromophenyl-phenylether[4-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butanone[2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	7064.516	Reg6	1	0	0	-
Butylbenzene[n-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	60.83333	Reg6	1	0	0	-
Butylbenzene[sec-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	60.83333	Reg6	1	0	0	-
Butylbenzene[tert-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	60.83333	Reg6	1	0	0	-
Butylbenzylphthalate	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	7300	Reg6	1	0	0	-
Carbon Disulfide	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1042.857	Reg6	1	0	0	-
Carbon Tetrachloride	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Chlordane[alpha-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlordane[gamma-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-6e
Screening Table for Mortandad Watershed Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Chloro-1,3-butadiene[2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	14.31373	Reg6	1	0	0	-
Chloro-1-propene[3-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1825	Reg6	1	0	0	-
Chloro-3-methylphenol[4-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroaniline[4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	146	Reg6	1	0	0	-
Chlorobenzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	100	MCL	1	0	0	-
Chlorodibromomethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	7.891034	Reg6	1	0	0	-
Chloroethane	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	228.5679	Reg6	1	0	0	-
Chloroform	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	60	MCL	1	0	0	-
Chloromethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	21.34503	Reg6	1	0	0	-
Chloronaphthalene[2-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	486.6667	Reg6	1	0	0	-
Chlorophenol[2-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	30.41667	Reg6	1	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorotoluene[2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	121.6667	Reg6	1	0	0	-
Chlorotoluene[4-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chrysene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.2	MCL	1	0	0	-
DDD[4,4'-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	2.801314	Reg6	1	0	0	-
DDE[4,4'-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1.977398	Reg6	1	0	0	-
DDT[4,4'-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1.977398	Reg6	1	0	0	-
Di-n-butylphthalate	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	3650	Reg6	1	0	0	-
Di-n-octylphthalate	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.029499	Reg6	1	0	0	-
Dibenzofuran	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	12.16667	Reg6	1	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.2	MCL	1	0	0	-
Dibromoethane[1,2-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.05	MCL	1	0	0	-
Dibromomethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	60.83333	Reg6	1	0	0	-
Dichlorobenzene[1,2-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	600	MCL	1	0	0	-
Dichlorobenzene[1,3-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	600	MCL	1	0	0	-
Dichlorobenzene[1,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	75	MCL	1	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	1.494034	Reg6	1	0	0	-
Dichlorodifluoromethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	394.5946	Reg6	1	0	0	-
Dichloroethane[1,1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	25	NMGSU	1	0	0	-
Dichloroethane[1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Dichloroethene[1,1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	NMGSU	1	0	0	-
Dichloroethene[cis-1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	70	MCL	1	0	0	-
Dichloroethene[trans-1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	100	MCL	1	0	0	-
Dichlorophenol[2,4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	109.5	Reg6	1	0	0	-
Dichloropropane[1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5	MCL	1	0	0	-
Dichloropropane[1,3-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[trans-1,3-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dieldrin	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.04202	Reg6	1	0	0	-
Diethylphthalate	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	29200	Reg6	1	0	0	-
Dimethyl Phthalate	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	365000	Reg6	1	0	0	-
Dimethylphenol[2,4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	730	Reg6	1	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	3.65	Reg6	1	0	0	-

Table B-6e
Screening Table for Mortandad Watershed Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Dinitrophenol[2,4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	73	Reg6	1	0	0	-
Dinitrotoluene[2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	73	Reg6	1	0	0	-
Dinitrotoluene[2,6-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	36.5	Reg6	1	0	0	-
Dinoseb	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	7	MCL	1	0	0	-
Dioxane[1,4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	61.11958	Reg6	1	0	0	-
Diphenylamine	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	912.5	Reg6	1	0	0	-
Endosulfan I	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endosulfan II	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endosulfan Sulfate	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endrin	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	2	MCL	1	0	0	-
Endrin Aldehyde	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endrin Ketone	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ethyl Methacrylate	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	547.5	Reg6	1	0	0	-
Ethylbenzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	700	MCL	1	0	0	-
Fluoranthene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	1460	Reg6	1	0	0	-
Fluorene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	243.3333	Reg6	1	0	0	-
HMX	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1825	Reg6	1	0	0	-
Heptachlor	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.4	MCL	1	0	0	-
Heptachlor Epoxide	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.2	MCL	1	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorobenzene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	1	MCL	1	0	0	-
Hexachlorobutadiene	µg/L	3	0	0	-	-	-	3	100	1	0	0	0	8.619427	Reg6	1	0	0	-
Hexachlorocyclopentadiene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	50	MCL	1	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.000108	Reg6	1	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	2	1	50	0.00000171	1.7E-06	1.7E-06	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachloroethane	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	48.02252	Reg6	1	0	0	-
Hexanone[2-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.294985	Reg6	1	0	0	-
Iodomethane	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Isophorone	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	707.7004	Reg6	1	0	0	-
Isopropylbenzene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	658.1967	Reg6	1	0	0	-
Isopropyltoluene[4-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methacrylonitrile	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	1.042857	Reg6	1	0	0	-
Methoxychlor[4,4'-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	40	MCL	1	0	0	-
Methyl Methacrylate	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1419.444	Reg6	1	0	0	-
Methyl-1-propanol[2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1825	Reg6	1	0	0	-
Methyl-2-pentanone[4-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1990.909	Reg6	1	0	0	-

Table B-6e
Screening Table for Mortandad Watershed Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample													Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)										
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)		Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Methylene Chloride	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		5	MCL	1	0	0	-
Methylnaphthalene[1-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Methylphenol[2-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		1825	Reg6	1	0	0	-
Methylphenol[3-,4-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Naphthalene	µg/L	3	0	0	-	-	-	3	100	0	0	0	0		30	NMGSU	1	0	0	-
Nitroaniline[2-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		109.5	Reg6	1	0	0	-
Nitroaniline[3-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Nitroaniline[4-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Nitrobenzene	µg/L	3	0	0	-	-	-	3	100	1	0	0	0		3.395349	Reg6	1	0	0	-
Nitrophenol[2-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Nitrophenol[4-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		292	Reg6	1	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.122685	Reg6	1	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.096045	Reg6	1	0	0	-
Nitrosodiethylamine[N-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.001436	Reg6	1	0	0	-
Nitrosodimethylamine[N-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.004222	Reg6	1	0	0	-
Nitrosopyrrolidine[N-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.32015	Reg6	1	0	0	-
Nitrotoluene[2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		2.92311	Reg6	1	0	0	-
Nitrotoluene[3-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		121.6667	Reg6	1	0	0	-
Nitrotoluene[4-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		39.54796	Reg6	1	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		9.536393	Reg6	1	0	0	-
PETN	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorobenzene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		29.2	Reg6	1	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Pentachlorophenol	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		1	MCL	1	0	0	-
Phenanthrene	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Phenol	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		5	NMGSU	1	0	0	-
Propionitrile	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Propylbenzene[1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		60.83333	Reg6	1	0	0	-
Pyrene	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		182.5	Reg6	1	0	0	-
RDX	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		6.111958	Reg6	1	0	0	-
Styrene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		100	MCL	1	0	0	-
TATB	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		0.00003	MCL	1	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		0.00003	MCL	1	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		25.49549	Reg6	1	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		10	NMGSU	1	0	0	-
Tetrachloroethene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		5	MCL	1	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	1	0	0	-	-	-	1	100	1	0	0	0		5	MCL	1	0	0	-

Table B-6e
Screening Table for Mortandad Watershed Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample													Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)										
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)		Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Tetryl	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		146	Reg6	1	0	0	-
Toluene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		750	NMGSU	1	0	0	-
Toxaphene (Technical Grade)	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		3	MCL	1	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		59179.86	Reg6	1	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0		70	MCL	1	0	0	-
Trichloroethane[1,1,1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		60	NMGSU	1	0	0	-
Trichloroethane[1,1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		5	MCL	1	0	0	-
Trichloroethene	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		5	MCL	1	0	0	-
Trichlorofluoromethane	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		5	MCL	1	0	0	-
Trichlorophenol[2,4,5-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		3650	Reg6	1	0	0	-
Trichlorophenol[2,4,6-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0		61.11958	Reg6	1	0	0	-
Trichloropropane[1,2,3-]	µg/L	2	0	0	-	-	-	2	100	2	0	0	0		0.094692	Reg6	1	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		12.42906	Reg6	1	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		12.32618	Reg6	1	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		1095	Reg6	1	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		22.41051	Reg6	1	0	0	-
Vinyl Chloride	µg/L	2	0	0	-	-	-	2	100	2	0	0	0		1	NMGSU	1	0	0	-
Vinyl acetate	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		412.4294	Reg6	1	0	0	-
Xylene[1,2-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0		1431.373	Reg6	1	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a		n/a	n/a	1	n/a	n/a	-

a Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-7a Screening Table for Water Canyon Metals in Surface Water Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Ephemeral and intermittent portions of watershed																			
Aluminum	µg/L	72	70	97.2	68.6	674	16000	2	2.78	0	30	46	**63.9**	750	AqAcF	21	15	17	2, 6, 7, 8, 9, 10, 12, 21, 22, 24, 25, 26, 27, 28
Antimony	µg/L	72	26	36.1	0.3	0.4435	0.931	46	63.9	0	0	0	0	640	HHEF	21	0	0	-
Arsenic	µg/L	72	10	13.9	2.53	3.015	6.1	62	86.1	16	0	1	1.39	9	HHEF	21	0	1	-
Barium	µg/L	72	72	100	20.8	489	6490	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Beryllium	µg/L	72	15	20.8	0.1	0.26	0.489	57	79.2	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Boron	µg/L	12	9	75	6.76	36.8	69.6	3	25	0	0	0	0	750	IrF	4	0	0	-
Cadmium	µg/L	72	20	27.8	0.041	0.125	0.318	52	72.2	0	0	0	0	2	AqAcF	21	0	0	-
Chromium	µg/L	72	35	48.6	0.51	1.3	23.5	37	51.4	0	0	0	0	100	IrF	21	0	0	-
Cobalt	µg/L	72	47	65.3	0.56	3.2	10.6	25	34.7	0	0	0	0	50	IrF	21	0	0	-
Copper	µg/L	72	35	48.6	1.42	3.99	11.7	37	51.4	0	0	6	**8.33**	13.4	AqAcF	21	0	5	-
Iron	µg/L	72	72	100	24.5	299.5	8910	0	0	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Lead	µg/L	72	47	65.3	0.076	0.408	4.2	25	34.7	0	0	0	0	64.6	AqAcF	21	0	0	-
Manganese	µg/L	72	64	88.9	2.27	11.9	379	8	11.1	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Mercury	µg/L	68	4	5.88	0.053	0.0675	0.088	64	94.1	0	0	0	0	1.4	AqAcF	19	0	0	-
Molybdenum	µg/L	13	2	15.4	1.03	1.565	2.1	11	84.6	0	0	0	0	1000	IrF	4	0	0	-
Nickel	µg/L	72	37	51.4	0.59	1.9	6.49	35	48.6	0	0	0	0	467	AqAcF	21	0	0	-
Selenium	µg/L	72	9	12.5	2.8	6.3	10.2	63	87.5	0	0	0	0	50	LWF	21	0	0	-
Silver	µg/L	72	3	4.17	0.26	0.906	0.948	69	95.8	56	0	0	0	3.2	AqAcF	21	0	0	-
Strontium	µg/L	12	12	100	60.1	85.45	114	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Thallium	µg/L	72	28	38.9	0.02	0.0715	0.56	44	61.1	0	0	0	0	6.3	HHEF	21	0	0	-
Tin	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Uranium	µg/L	45	39	86.7	0.03	0.19	0.661	6	13.3	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Vanadium	µg/L	72	57	79.2	0.7	3.08	13.4	15	20.8	0	0	0	0	100	IrF	21	0	0	-
Zinc	µg/L	72	41	56.9	1.5	7.39	36.4	31	43.1	0	0	0	0	117.2	AqAcF	21	0	0	-
Perennial portions of watershed[d]																			
Aluminum	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	87	AqChrF	1	0	0	-
Antimony	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	640	HHPF	1	0	0	-
Arsenic	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	9	HHPF	1	0	0	-
Barium	µg/L	2	2	100	2180	2215	2250	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Beryllium	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Boron	µg/L	2	2	100	16.9	20.4	23.9	0	0	0	0	0	0	750	IrF	1	0	0	-
Cadmium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.2	AqChrF	1	0	0	-
Chromium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	74.1	AqChrF	1	0	0	-
Cobalt	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	IrF	1	0	0	-
Copper	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	9	AqChrF	1	0	0	-
Iron	µg/L	2	2	100	48.6	86.8	125	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Lead	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	2.5	AqChrF	1	0	0	-
Manganese	µg/L	2	2	100	48.6	57.9	67.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Mercury	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.77	AqChrF	1	0	0	-
Molybdenum	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1000	IrF	1	0	0	-
Nickel	µg/L	2	2	100	0.87	1.035	1.2	0	0	0	0	0	0	52	AqChrF	1	0	0	-
Selenium	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	50	LWF	1	0	0	-
Silver	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	3.2	AqAcF	1	0	0	-

Table B-7a Screening Table for Water Canyon Metals in Surface Water Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Ephemeral and intermittent portions of watershed																			
Strontium	µg/L	2	2	100	117	130.5	144	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Thallium	µg/L	2	1	50	0.59	0.59	0.59	1	50	0	0	0	0	6.3	HHPF	1	0	0	-
Tin	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Uranium	µg/L	2	1	50	0.078	0.078	0.078	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Vanadium	µg/L	2	1	50	1.2	1.2	1.2	1	50	0	0	0	0	100	IrF	1	0	0	-
Zinc	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	117.2	AqAcF	1	0	0	-

[a] Screening Standard

Std Type Standard (Source and Name)
AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)

1=Water above S Site Canyon
2=Water above SR-501
3=Water at SR-4
4=Water below MDA AB
5=Water below SR-4
6=Canon de Valle 5
7=Canon de Valle 6
8=Canon de Valle 7
9=Canon de Valle 8
10=Canon de Valle 9
11=Canon de Valle 10
12=Canon de Valle 12
13=Canon de Valle 13
14=Canon de Valle 15
15=Canon de Valle 16
16=Canon de Valle above SR-501
17=Canon de Valle above Water
18=Canon de Valle at Water Canyon
19=Canon de Valle below MDA P
20=Headwaters of Canon de Valle
21=Peter Spring
22=Fish Ladder Spring
23=Fishladder Canyon at Canon de Valle
24=Martin Spring Canyon 1
25=Martin Spring Canyon 2
26=Martin Spring Canyon 3
27=Martin Spring Canyon 5
28=Martin Spring Canyon 6
29=S Site Canyon above Water

[c] n/a = Not applicable.
[d] Designation includes Station E256 (NMAC 20.6.4)
E256 = Canon de Valle below MDA P

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater then or equal to 5% of detects.

Table B-7b
Screening Table for Water Canyon Metals in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Aluminum	µg/L	82	81	98.8	102	1340	112000	1	1.22	n/a[c]	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Antimony	µg/L	82	17	20.7	0.285	0.483	0.939	65	79.3	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Arsenic	µg/L	82	12	14.6	2.28	3.45	25.8	70	85.4	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Barium	µg/L	82	82	100	24.9	515	6730	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Beryllium	µg/L	82	31	37.8	0.089	0.17	9.2	51	62.2	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Boron	µg/L	14	10	71.4	5.4	36.4	85.6	4	28.6	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Cadmium	µg/L	82	29	35.4	0.04	0.12	3.3	53	64.6	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Chromium	µg/L	82	46	56.1	0.548	1.505	53.2	36	43.9	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Cobalt	µg/L	82	33	40.2	0.543	1.21	45.4	49	59.8	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Copper	µg/L	81	34	42	1.5	4.95	80.1	47	58	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Iron	µg/L	82	82	100	48.9	626.5	79400	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Lead	µg/L	82	65	79.3	0.105	0.8	83.9	17	20.7	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Manganese	µg/L	82	78	95.1	1.98	23.15	15500	4	4.88	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Mercury	µg/L	82	5	6.1	0.05	0.069	0.58	77	93.9	0	0	0	0	10	WHU	26	0	0	-
Molybdenum	µg/L	23	2	8.7	1.19	1.475	1.76	21	91.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nickel	µg/L	82	53	64.6	0.61	1.9	48.2	29	35.4	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Selenium	µg/L	82	15	18.3	2.3	4.6	8.9	67	81.7	0	0	0	0	20	AqAcU	26	0	0	-
Silver	µg/L	82	11	13.4	0.21	1.25	1.6	71	86.6	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Strontium	µg/L	14	14	100	74.3	100.6	447	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Thallium	µg/L	82	44	53.7	0.02	0.134	1.1	38	46.3	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Tin	µg/L	14	1	7.14	9.3	9.3	9.3	13	92.9	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Uranium	µg/L	47	41	87.2	0.046	0.22	25.6	6	12.8	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Vanadium	µg/L	82	71	86.6	0.678	3.2	126	11	13.4	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Zinc	µg/L	82	51	62.2	1.45	7.8	420	31	37.8	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-

[a]Screening Standard
Std Type Standard (Source and Name)
AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)
1=Water above S Site Canyon
2=Water above SR-501
3=Water at SR-4
4=Water below MDA AB
5=Water below SR-4
6=Canon de Valle 5
7=Canon de Valle 6
8=Canon de Valle 7
9=Canon de Valle 8
10=Canon de Valle 9
11=Canon de Valle 10
12=Canon de Valle 12
13=Canon de Valle 13
14=Canon de Valle 15
15=Canon de Valle 16
16=Canon de Valle above SR-501
17=Canon de Valle above Water
18=Canon de Valle at Water Canyon
19=Canon de Valle below MDA P
20=Headwaters of Canon de Valle
21=Peter Spring
22=Fish Ladder Spring
23=Fishladder Canyon at Canon de Valle
24=Martin Spring Canyon 1
25=Martin Spring Canyon 2
26=Martin Spring Canyon 3
27=Martin Spring Canyon 5
28=Martin Spring Canyon 6
29=S Site Canyon above Water

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-7c
Screening Table for Water Canyon General Inorganics in Surface Water Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Alkalinity-CO3	µg/L	4	0	0	-	-	-	4	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	4	4	100	55.1	60.45	68	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Ammonia as Nitrogen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromide	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Calcium	µg/L	74	74	100	6.57	16.7	29.5	0	0	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Chloride	µg/L	4	4	100	4.94	9.73	22.1	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Cyanide (Total)	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Dissolved Organic Carbon	µg/L	1	1	100	8.22	8.22	8.22	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Fluoride	µg/L	4	1	25	0.195	0.195	0.195	3	75	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Hardness	µg/L	15	15	100	28.7	48.7	75.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Magnesium	µg/L	74	74	100	2.1	4.745	6.65	0	0	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	4	4	100	0.0285	0.08775	0.605	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Perchlorate	µg/L	8	4	50	0.193	0.285	0.33	4	50	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Potassium	µg/L	74	74	100	1.22	3.4	6.33	0	0	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Silicon Dioxide	µg/L	13	13	100	30	39.5	95.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Sodium	µg/L	74	74	100	3.6	16.3	31.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Specific Conductance	uS/cm	4	4	100	151	176	248	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Sulfate	µg/L	4	3	75	7.22	8.23	28.9	1	25	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Total Dissolved Solids	µg/L	11	11	100	73	136	281	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	4	4	100	0.039	0.135	0.26	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Total Organic Carbon	µg/L	7	7	100	7.62	7.97	8.25	0	0	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
pH	SU	4	4	100	6.58	6.94	7.36	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

[a] Screening Standard

Std Type Standard (Source and Name)

LWF NMAC 20.6.4, Livestock Watering (Filtered)

AqAcF NMAC 20.6.4, Aquatic Life Acute (Filtered) Hardness=100 mg/L

AqChrF NMAC 20.6.4, Aquatic Life Chronic (Filtered) Hardness=100 mg/L

HHEF NMAC 20.6.4, Human Health Ephemeral (Filtered)

HHPF NMAC 20.6.4, Human Health Perennial (Filtered)

IrF NMAC 20.6.4, Irrigation Standard (Filtered)

[b] Station List (codes)

1=Water above S Site Canyon	
2=Water above SR-501	16=Canon de Valle above SR-501
3=Water at SR-4	17=Canon de Valle above Water
4=Water below MDA AB	18=Canon de Valle at Water Canyon
5=Water below SR-4	19=Canon de Valle below MDA P
6=Canon de Valle 5	20=Headwaters of Canon de Valle
7=Canon de Valle 6	21=Peter Spring
8=Canon de Valle 7	22=Fish Ladder Spring
9=Canon de Valle 8	23=Fishladder Canyon at Canon de Valle
10=Canon de Valle 9	24=Martin Spring Canyon 1
11=Canon de Valle 10	25=Martin Spring Canyon 2
12=Canon de Valle 12	26=Martin Spring Canyon 3
13=Canon de Valle 13	27=Martin Spring Canyon 5
14=Canon de Valle 15	28=Martin Spring Canyon 6
15=Canon de Valle 16	29=S Site Canyon above Water

[c] n/a = Not applicable.

Note: Dash = none or no value.

Table B-7d
Screening Table for Water Canyon General Inorganics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Alkalinity-CO3	µg/L	16	0	0	-	-	-	16	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	75	75	100	15.3	57.5	151	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Alkalinity-HCO3	µg/L	8	8	100	22.3	37.75	58.8	0	0	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Ammonia as Nitrogen	µg/L	4	1	25	0.108	0.108	0.108	3	75	0	0	0	0	39100	AqAcU	1	0	0	-
Bromide	µg/L	67	6	8.96	0.143	0.1765	0.555	61	91	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Calcium	µg/L	82	82	100	6.44	16.4	52.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Chloride	µg/L	66	66	100	0.966	18.55	25.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Cyanide (Total)	µg/L	70	20	28.6	0.00188	0.002795	0.0161	50	71.4	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Cyanide, Amenable to Chlorination	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	22	AqAcU	2	0	0	-
Fluoride	µg/L	67	61	91	0.057	0.162	0.563	6	8.96	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Hardness	µg/L	23	23	100	31.5	54.7	166	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Magnesium	µg/L	82	82	100	2.22	5.01	18.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	61	54	88.5	0.00408	0.195	1.24	7	11.5	0	0	0	0	132000	LWU	18	0	0	-
Oxalate	µg/L	59	0	0	-	-	-	59	100	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Perchlorate	µg/L	90	65	72.2	0.0647	0.416	0.711	25	27.8	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Potassium	µg/L	82	82	100	1.39	3.63	19	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Silicon Dioxide	µg/L	13	13	100	32.2	39.3	170	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Sodium	µg/L	82	82	100	3.57	16.25	386	0	0	n/a	n/a	n/a	n/a	n/a	n/a	26	n/a	n/a	-
Specific Conductance	uS/cm	8	8	100	76.1	111.8	169	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sulfate	µg/L	67	67	100	4.14	10.8	30.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Suspended Sediment Concentration	µg/L	23	20	87	2.2	7.6	17900	3	13	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	8	5	62.5	0.136	0.358	0.533	3	37.5	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Total Organic Carbon	µg/L	1	1	100	2.41	2.41	2.41	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Suspended Solids	µg/L	1	1	100	13.7	13.7	13.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
pH	SU	8	8	100	6.27	7.055	7.66	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)
1=Water above S Site Canyon
2=Water above SR-501
3=Water at SR-4
4=Water below MDA AB
5=Water below SR-4
6=Canon de Valle 5
7=Canon de Valle 6
8=Canon de Valle 7
9=Canon de Valle 8
10=Canon de Valle 9
11=Canon de Valle 10
12=Canon de Valle 12
13=Canon de Valle 13
14=Canon de Valle 15
15=Canon de Valle 16
16=Canon de Valle above SR-501
17=Canon de Valle above Water
18=Canon de Valle at Water Canyon
19=Canon de Valle below MDA P
20=Headwaters of Canon de Valle
21=Peter Spring
22=Fish Ladder Spring
23=Fishladder Canyon at Canon de Valle
24=Martin Spring Canyon 1
25=Martin Spring Canyon 2
26=Martin Spring Canyon 3
27=Martin Spring Canyon 5
28=Martin Spring Canyon 6
29=S Site Canyon above Water

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Ephemeral and intermittent portions of watershed																			
2,4-Diamino-6-nitrotoluene	µg/L	10	0	0	-	-	-	10	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	10	1	10	0.682	0.682	0.682	9	90	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
3,5-dinitroaniline	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Acenaphthene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Acenaphthylene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Acetone	µg/L	66	24	36.4	1.7	3.6	21.7	42	63.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Acetonitrile	µg/L	10	1	10	20.7	20.7	20.7	9	90	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Acrolein	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Acrylonitrile	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Aldrin	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Amino-2,6-dinitrotoluene[4-]	µg/L	73	37	50.7	0.115	1.33	9.03	36	49.3	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	73	34	46.6	0.134	1.41	8.11	39	53.4	n/a	n/a	n/a	n/a	n/a	n/a	22	n/a	n/a	-
Aniline	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Anthracene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Aroclor-1016	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1221	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1232	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1242	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1248	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1254	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1260	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHEU	1	0	0	-
Aroclor-1262	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Atrazine	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Azobenzene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
BHC[alpha-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
BHC[beta-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
BHC[delta-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
BHC[gamma-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Benzene	µg/L	69	4	5.8	0.55	0.805	1.3	65	94.2	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzidine	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Benzo(a)anthracene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzo(a)pyrene	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.18	HHEU	19	0	0	-
Benzo(b)fluoranthene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzo(g,h,i)perylene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzoic Acid	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Benzyl Alcohol	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bis(2-chloroethoxy)methane	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bis(2-ethylhexyl)phthalate	µg/L	36	7	19.4	0.77	1.9	4.2	29	80.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromobenzene	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromochloromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromodichloromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromoform	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromomethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Bromophenyl-phenylether[4-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	with Data (number)	of locations)	of locations)	Station List[b]
Butanone[2-]	µg/L	69	1	1.45	1.36	1.36	1.36	68	98.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Butylbenzene[n-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Butylbenzene[sec-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Butylbenzene[tert-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Butylbenzylphthalate	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Carbon Disulfide	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Carbon Tetrachloride	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlordane[alpha-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Chlordane[gamma-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Chloro-1-propene[3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Chloro-3-methylphenol[4-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chloroaniline[4-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorobenzene	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorodibromomethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chloroethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chloroethyl vinyl ether[2-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Chloroform	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chloromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chloronaphthalene[2-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorophenol[2-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorophenyl-phenyl[4-] Ether	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorotoluene[2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chlorotoluene[4-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Chrysene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
DB[2,4-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
DDD[4,4'-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
DDE[4,4'-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
DDT[4,4'-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
DNX	µg/L	33	2	6.06	0.65	0.825	1	31	93.9	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
D[2,4-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Dalapon	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Di-n-butylphthalate	µg/L	36	4	11.1	1.1	1.2	1.4	32	88.9	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Di-n-octylphthalate	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dibenzofuran	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dibromo-3-Chloropropane[1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dibromoethane[1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dibromomethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dicamba	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Dichlorobenzene[1,2-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorobenzene[1,3-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorobenzene[1,4-]	µg/L	104	0	0	-	-	-	104	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorobenzidine[3,3'-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorodifluoromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloroethane[1,1-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloroethane[1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloroethene[1,1-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Dichloroethene[cis-1,2-]	μg/L	69	1	1.45	0.76	0.76	0.76	68	98.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloroethene[trans-1,2-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorophenol[2,4-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropane[1,2-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropane[1,3-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropane[2,2-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropene[1,1-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropene[cis-1,3-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichloropropene[trans-1,3-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dichlorprop	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Dieldrin	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Diethyl Ether	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Diethylphthalate	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dimethyl Phthalate	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dimethylphenol[2,4-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dinitro-2-methylphenol[4,6-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dinitrobenzene[1,3-]	μg/L	74	0	0	-	-	-	74	100	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Dinitrophenol[2,4-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Dinitrotoluene[2,4-]	μg/L	110	1	0.909	0.12	0.12	0.12	109	99.1	n/a	n/a	n/a	n/a	n/a	n/a	24	n/a	n/a	-
Dinitrotoluene[2,6-]	μg/L	110	0	0	-	-	-	110	100	n/a	n/a	n/a	n/a	n/a	n/a	24	n/a	n/a	-
Dinoseb	μg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Dioxane[1,4-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Diphenylamine	μg/L	28	0	0	-	-	-	28	100	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Endosulfan I	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Endosulfan II	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Endosulfan Sulfate	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Endrin	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Endrin Aldehyde	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Endrin Ketone	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Ethyl Methacrylate	μg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Ethylbenzene	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Fluoranthene	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Fluorene	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
HMX	μg/L	74	61	82.4	0.106	16.5	111	13	17.6	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Heptachlor	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlor Epoxide	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Heptachlorodibenzofurans (Total)	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorobenzene	μg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.0029	HHEU	19	0	0	-
Hexachlorobutadiene	μg/L	46	0	0	-	-	-	46	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Hexachlorocyclopentadiene	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzodioxins (Total)	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Hexachlorodibenzofuran[1,2,3,4,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachlorodibenzofurans (Total)	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Hexachloroethane	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Hexanone[2-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Iodomethane	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Isophorone	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Isopropylbenzene	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Isopropyltoluene[4-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
MCPA	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
MCPP	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
MNX	μg/L	33	19	57.6	0.22	1.1	5.4	14	42.4	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Methacrylonitrile	μg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Methoxychlor[4,4'-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Methyl Methacrylate	μg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Methyl tert-Butyl Ether	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl-1-propanol[2-]	μg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Methyl-2-pentanone[4-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Methylene Chloride	μg/L	69	1	1.45	5.04	5.04	5.04	68	98.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Methylnaphthalene[1-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Methylphenol[2-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Methylphenol[3-,4-]	μg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Methylphenol[4-]	μg/L	30	0	0	-	-	-	30	100	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
Naphthalene	μg/L	46	0	0	-	-	-	46	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitroaniline[2-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitroaniline[3-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitroaniline[4-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitrobenzene	μg/L	110	0	0	-	-	-	110	100	n/a	n/a	n/a	n/a	n/a	n/a	24	n/a	n/a	-
Nitrophenol[2-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitrophenol[4-]	μg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitroso-di-n-butylamine[N-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Nitroso-di-n-propylamine[N-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitrosodiethylamine[N-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Nitrosodimethylamine[N-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Nitrosodiphenylamine[N-]	μg/L	8	0	0	-	-	-	8	100	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Nitrosopyrrolidine[N-]	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Nitrotoluene[2-]	μg/L	74	0	0	-	-	-	74	100	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Nitrotoluene[3-]	μg/L	74	1	1.35	0.175	0.175	0.175	73	98.6	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Nitrotoluene[4-]	μg/L	74	0	0	-	-	-	74	100	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	μg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
PETN	μg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Pentachlorobenzene	μg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of locations)	(number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Pentachlorophenol	µg/L	34	0	0	-	-	-	34	100	0	0	0	0	19	AqAcU	19	0	0	-
Phenanthrene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Phenol	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Propionitrile	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Propylbenzene[1-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Pyrene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Pyridine	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
RDX	µg/L	75	53	70.7	0.127	20.6	226	22	29.3	n/a	n/a	n/a	n/a	n/a	n/a	24	n/a	n/a	-
Styrene	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
TATB	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
TNX	µg/L	33	15	45.5	0.23	0.32	1	18	54.5	n/a	n/a	n/a	n/a	n/a	n/a	18	n/a	n/a	-
TP[2,4,5-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
T[2,4,5-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tetrachlorodibenzodioxins (Total)	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Tetrachloroethane[1,1,2,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Tetrachloroethene	µg/L	69	1	1.45	35.2	35.2	35.2	68	98.6	0	1	1	1.45	33	HHEU	19	1	1	22
Tetrachlorophenol[2,3,4,6-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Tetryl	µg/L	64	0	0	-	-	-	64	100	n/a	n/a	n/a	n/a	n/a	n/a	21	n/a	n/a	-
Toluene	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Toxaphene (Technical Grade)	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Tri-o-cresylphosphate (TOCP)	µg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichlorobenzene[1,2,3-]	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	46	0	0	-	-	-	46	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichloroethane[1,1,1-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichloroethane[1,1,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichloroethene	µg/L	69	1	1.45	2.8	2.8	2.8	68	98.6	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichlorofluoromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichlorophenol[2,4,5-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichlorophenol[2,4,6-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trichloropropane[1,2,3-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trimethylbenzene[1,2,4-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trimethylbenzene[1,3,5-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Trinitrobenzene[1,3,5-]	µg/L	74	0	0	-	-	-	74	100	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Trinitrotoluene[2,4,6-]	µg/L	74	7	9.46	0.0854	0.148	0.635	67	90.5	n/a	n/a	n/a	n/a	n/a	n/a	23	n/a	n/a	-
Vinyl Chloride	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Vinyl acetate	µg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Xylene (Total)	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	(number of	(number of	D>Std Station
										ND>Std	D>Std	D>Std/2	D>Std/2						
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Xylene[1,2-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Xylene[1,3-]+Xylene[1,4-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	19	n/a	n/a	-
Perennial portions of watershed[d]																			
2,4-Diamino-6-nitrotolueneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
2,6-Diamino-4-nitrotolueneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
3,5-dinitroanilineperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acenaphtheneperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	990	HHPU	1	0	0	-
Acenaphthyleneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acetoneperen	μg/L	2	1	50	2.4	2.4	2.4	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acetonitrileperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Acroleinperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	290	HHPU	1	0	0	-
Acrylonitrileperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	2.5	HHPU	1	0	0	-
Aldrinperen	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.0005	HHPU	1	0	0	-
Amino-2,6-dinitrotoluene[4-]peren	μg/L	3	3	100	0.2	0.269	2.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]peren	μg/L	3	3	100	0.198	0.202	2.5	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Anilineperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Anthraceneperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	40000	HHPU	1	0	0	-
Aroclor-1016peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1221peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1232peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1242peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1248peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1254peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1260peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Aroclor-1262peren	μg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00064	HHPU	1	0	0	-
Atrazineperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Azobenzeneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
BHC[alpha-]peren	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.049	HHPU	1	0	0	-
BHC[beta-]peren	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.17	HHPU	1	0	0	-
BHC[delta-]peren	μg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
BHC[gamma-]peren	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.63	HHPU	1	0	0	-
Benzeneperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	510	HHPU	1	0	0	-
Benzidineperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.002	HHPU	1	0	0	-
Benzo(a)anthraceneperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Benzo(a)pyreneperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Benzo(b)fluorantheneperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Benzo(g,h,i)peryleneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Benzo(k)fluorantheneperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Benzoic Acidperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Benzyl Alcoholperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bis(2-chloroethoxy)methaneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bis(2-chloroethyl)etherperen	μg/L	2	0	0	-	-	-	2	100	2	0	0	0	5.3	HHPU	1	0	0	-
Bis(2-ethylhexyl)phthalateperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	22	HHPU	1	0	0	-
Bromobenzeneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromochloromethaneperen	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Bromodichloromethaneperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	170	HHPU	1	0	0	-
Bromoformperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	1400	HHPU	1	0	0	-
Bromomethaneperen	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	1500	HHPU	1	0	0	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Bromophenyl-phenylether[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butanone[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[n-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[sec-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzene[tert-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Butylbenzylphthalateperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1900	HHPU	1	0	0	-
Carbon Disulfideperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Carbon Tetrachlorideperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	16	HHPU	1	0	0	-
Chlordane[alpha-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlordane[gamma-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-1,3-butadiene[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-1-propene[3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloro-3-methylphenol[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroaniline[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorobenzeneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	21000	HHPU	1	0	0	-
Chlorodibromomethaneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	130	HHPU	1	0	0	-
Chloroethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroethyl vinyl ether[2-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloroformperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	4700	HHPU	1	0	0	-
Chloromethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chloronaphthalene[2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1600	HHPU	1	0	0	-
Chlorophenol[2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	150	HHPU	1	0	0	-
Chlorophenyl-phenyl[4-] Etherperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorotoluene[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chlorotoluene[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Chryseneperen	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
DB[2,4-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
DDD[4,4'-]peren	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.0022	HHPU	1	0	0	-
DDE[4,4'-]peren	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.0022	HHPU	1	0	0	-
DDT[4,4'-]peren	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.0022	HHPU	1	0	0	-
DNXperen	µg/L	1	1	100	0.32	0.32	0.32	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
D[2,4-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dalaponperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Di-n-butylphthalateperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	4500	HHPU	1	0	0	-
Di-n-octylphthalateperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibenz(a,h)anthraceneperen	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Dibenzofuranperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromo-3-Chloropropane[1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromoethane[1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dibromomethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dicambaperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichlorobenzene[1,2-]peren	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	17000	HHPU	1	0	0	-
Dichlorobenzene[1,3-]peren	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	960	HHPU	1	0	0	-
Dichlorobenzene[1,4-]peren	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	2600	HHPU	1	0	0	-
Dichlorobenzidine[3,3'-]peren	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.28	HHPU	1	0	0	-
Dichlorodifluoromethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethane[1,1-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethane[1,2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	370	HHPU	1	0	0	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Dichloroethene[1,1-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	32	HHPU	1	0	0	-
Dichloroethene[cis-1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloroethene[trans-1,2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	140000	HHPU	1	0	0	-
Dichlorophenol[2,4-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	290	HHPU	1	0	0	-
Dichloropropane[1,2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	150	HHPU	1	0	0	-
Dichloropropane[1,3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropane[2,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[1,1-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[cis-1,3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichloropropene[trans-1,3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dichlorpropperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dieldrinperen	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00054	HHPU	1	0	0	-
Diethyl Etherperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Diethylphthalateperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	44000	HHPU	1	0	0	-
Dimethyl Phthalateperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1100000	HHPU	1	0	0	-
Dimethylphenol[2,4-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	850	HHPU	1	0	0	-
Dinitro-2-methylphenol[4,6-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	280	HHPU	1	0	0	-
Dinitrobenzene[1,3-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dinitrophenol[2,4-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5300	HHPU	1	0	0	-
Dinitrotoluene[2,4-]peren	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	34	HHPU	1	0	0	-
Dinitrotoluene[2,6-]peren	µg/L	5	0	0	-	-	-	5	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dinosebperen	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Dioxane[1,4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Diphenylamineperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Endosulfan Iperen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.22	AqAcU	1	0	0	-
Endosulfan IIperen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.22	AqAcU	1	0	0	-
Endosulfan Sulfateperen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	89	HHPU	1	0	0	-
Endrinperen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.086	AqAcU	1	0	0	-
Endrin Aldehydeperen	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	0.3	HHPU	1	0	0	-
Endrin Ketoneperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ethyl Methacrylateperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ethylbenzeneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	29000	HHPU	1	0	0	-
Fluorantheneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	140	HHPU	1	0	0	-
Fluoreneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5300	HHPU	1	0	0	-
HMXperen	µg/L	3	3	100	2.68	4.47	52.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorperen	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00079	HHPU	1	0	0	-
Heptachlor Epoxideperen	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.00039	HHPU	1	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]pe	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzodioxins (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]per	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]per	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofurans (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorobenzeneperen	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.0029	HHPU	1	0	0	-
Hexachlorobutadieneperen	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	180	HHPU	1	0	0	-
Hexachlorocyclopentadieneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	17000	HHPU	1	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	(number of	(number of	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Hexachlorodibenzodioxins (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofurans (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachloroethaneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	33	HHPU	1	0	0	-
Hexanone[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Indeno(1,2,3-cd)pyreneperen	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	0.18	HHPU	1	0	0	-
Iodomethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Isophoroneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	9600	HHPU	1	0	0	-
Isopropylbenzeneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Isopropyltoluene[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
MCPAperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
MCPPperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
MNXperen	µg/L	1	1	100	0.32	0.32	0.32	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methacrylonitrileperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methoxychlor[4,4'-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl Methacrylateperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl tert-Butyl Etherperen	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl-1-propanol[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methyl-2-pentanone[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylene Chlorideperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5900	HHPU	1	0	0	-
Methylnaphthalene[1-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylnaphthalene[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[3-,4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Methylphenol[4-]peren	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Naphthaleneperen	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroaniline[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrobenzeneperen	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	690	HHPU	1	0	0	-
Nitrophenol[2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrophenol[4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroso-di-n-butylamine[N-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitroso-di-n-propylamine[N-]peren	µg/L	2	0	0	-	-	-	2	100	2	0	0	0	5.1	HHPU	1	0	0	-
Nitrosodiethylamine[N-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrosodimethylamine[N-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	30	HHPU	1	0	0	-
Nitrosodiphenylamine[N-]peren	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Nitrosopyrrolidine[N-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrotoluene[2-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrotoluene[3-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrotoluene[4-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]pe	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]pe	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	65000	HHPU	1	0	0	-
PETNperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
										ND>Std	D>Std	D>Std/2	D>Std/2			with Data	of	of	Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	locations)	locations)	List[b]
Pentachlorobenzeneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzodioxin[1,2,3,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzodioxins (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofurans (Totals)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorophenolperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	19	AqAcU	1	0	0	-
Phenanthreneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Phenolperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	1700000	HHPU	1	0	0	-
Propionitrileperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Propylbenzene[1-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pyreneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	4000	HHPU	1	0	0	-
Pyridineperen	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
RDXperen	µg/L	3	3	100	5.72	14.5	55.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Styreneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
TATBperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
TNXperen	µg/L	1	1	100	0.44	0.44	0.44	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
TP[2,4,5-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
T[2,4,5-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorobenzene[1,2,4,5-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzodioxin[2,3,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	5.10E-08	HHPU	1	0	0	-
Tetrachlorodibenzodioxins (Total)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)peren	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,2,2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	40	HHPU	1	0	0	-
Tetrachloroetheneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	33	HHPU	1	0	0	-
Tetrachlorophenol[2,3,4,6-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrylperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tolueneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	200000	HHPU	1	0	0	-
Toxaphene (Technical Grade)peren	µg/L	1	0	0	-	-	-	1	100	1	0	0	0	0.0028	HHPU	1	0	0	-
Tri-o-cresylphosphate (TOCP)peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorobenzene[1,2,3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorobenzene[1,2,4-]peren	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	940	HHPU	1	0	0	-
Trichloroethane[1,1,1-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichloroethane[1,1,2-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	160	HHPU	1	0	0	-
Trichloroetheneperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	300	HHPU	1	0	0	-
Trichlorofluoromethaneperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorophenol[2,4,5-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trichlorophenol[2,4,6-]peren	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	24	HHPU	1	0	0	-
Trichloropropane[1,2,3-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trimethylbenzene[1,2,4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trimethylbenzene[1,3,5-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trinitrobenzene[1,3,5-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trinitrotoluene[2,4,6-]peren	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Vinyl Chlorideperen	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	5300	HHPU	1	0	0	-
Vinyl acetateperen	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-7e
Screening Table for Water Canyon Organics in Surface Water Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations	(number	(number	D>Std
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	with Data (number)	of locations)	of locations)	Station List[b]
Xylene (Total)peren	µg/L	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	-
Xylene[1,2-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Xylene[1,3-]+Xylene[1,4-]peren	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

[a] Screening Standard

Std Type Standard (Source and Name)
AqAcU NMAC 20.6.4, Aquatic Life Acute (Unfiltered) Hardness=100 mg/L
AqChrU NMAC 20.6.4, Aquatic Life Chronic (Unfiltered) Hardness=100 mg/L
HHEU NMAC 20.6.4, Human Health Ephemeral (Unfiltered)
HHPU NMAC 20.6.4, Human Health Perennial (Unfiltered)
WHU NMAC 20.6.4, Wildlife Habitat (Unfiltered)
LWU NMAC 20.6.4, Livestock Watering (Unfiltered)

[b] Station List (codes)

1=Water above S Site Canyon
2=Water above SR-501
3=Water at SR-4
4=Water below MDA AB
5=Water below SR-4
6=Canon de Valle 5
7=Canon de Valle 6
8=Canon de Valle 7
9=Canon de Valle 8
10=Canon de Valle 9
11=Canon de Valle 10
12=Canon de Valle 12
13=Canon de Valle 13
14=Canon de Valle 15
15=Canon de Valle 16
16=Canon de Valle above SR-501
17=Canon de Valle above Water
18=Canon de Valle at Water Canyon
19=Canon de Valle below MDA P
20=Headwaters of Canon de Valle
21=Peter Spring
22=Fish Ladder Spring
23=Fishladder Canyon at Canon de Valle
24=Martin Spring Canyon 1
25=Martin Spring Canyon 2
26=Martin Spring Canyon 3
27=Martin Spring Canyon 5
28=Martin Spring Canyon 6
29=S Site Canyon above Water

[c] n/a = Not applicable.
[d] Designation includes Station E256 (NMAC 20.6.4)
E256 = Canon de Valle below MDA P

Note: Dash = none or no value.

Table B-8a Screening Table for Water Canyon Metals in Alluvial Groundwater Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Aluminum	µg/L	67	57	85.1	43.8	533	18600	10	14.9	0	7	9	**13.4**	5000	NMGSF	9	3	4	2, 8, 9
Antimony	µg/L	67	24	35.8	0.322	0.74	2.7	43	64.2	0	0	0	0	6	MCL	9	0	0	-
Arsenic	µg/L	67	7	10.4	2.6	4.23	8.8	60	89.6	8	0	3	4.48	10	MCL	9	0	2	-
Barium	µg/L	67	67	100	56.7	2930	12400	0	0	0	40	40	**59.7**	1000	NMGSF	9	4	4	3, 4, 5, 6
Beryllium	µg/L	67	16	23.9	0.1	0.235	0.76	51	76.1	0	0	0	0	4	MCL	9	0	0	-
Boron	µg/L	30	30	100	14.2	37.45	347	0	0	0	0	0	0	750	NMGSF	7	0	0	-
Cadmium	µg/L	67	44	65.7	0.041	0.195	2.9	23	34.3	0	0	1	1.49	5	MCL	9	0	1	-
Chromium	µg/L	67	28	41.8	0.55	1.65	10.7	39	58.2	0	0	0	0	50	NMGSF	9	0	0	-
Cobalt	µg/L	67	49	73.1	1	2.7	18.9	18	26.9	0	0	0	0	50	NMGSF	9	0	0	-
Copper	µg/L	67	34	50.7	1.5	4.5	11.1	33	49.3	0	0	0	0	1000	NMGSF	9	0	0	-
Iron	µg/L	67	55	82.1	18.6	457	11300	12	17.9	0	20	26	**38.8**	1000	NMGSF	9	5	6	2, 4, 7, 8, 9
Lead	µg/L	67	35	52.2	0.05	0.62	4.2	32	47.8	0	0	0	0	15	MCL	9	0	0	-
Manganese	µg/L	67	60	89.6	1.9	45.6	1740	7	10.4	0	11	18	**26.9**	200	NMGSF	9	4	6	4, 5, 8, 9
Mercury	µg/L	67	2	2.99	0.051	0.0525	0.054	65	97	0	0	0	0	2	MCL	9	0	0	-
Molybdenum	µg/L	30	8	26.7	0.57	2.55	6.2	22	73.3	0	0	0	0	1000	NMGSF	7	0	0	-
Nickel	µg/L	67	47	70.1	0.75	3	23.3	20	29.9	0	0	0	0	100	MCL	9	0	0	-
Selenium	µg/L	67	3	4.48	3.39	4.73	13.9	64	95.5	0	0	0	0	50	NMGSF	9	0	0	-
Silver	µg/L	67	2	2.99	0.46	0.735	1.01	65	97	0	0	0	0	50	NMGSF	9	0	0	-
Strontium	µg/L	30	30	100	72.2	147	232	0	0	0	0	0	0	21900	Reg6	7	0	0	-
Thallium	µg/L	67	22	32.8	0.025	0.2695	0.68	45	67.2	0	0	0	0	2	MCL	9	0	0	-
Tin	µg/L	30	0	0	NA	NA	NA	30	100	0	0	0	0	21900	Reg6	7	0	0	-
Uranium	µg/L	44	32	72.7	0.026	0.326	2.2	12	27.3	0	0	0	0	30	NMGSF	7	0	0	-
Vanadium	µg/L	67	46	68.7	0.646	3.7	22.4	21	31.3	0	0	0	0	182.5	Reg6	9	0	0	-
Zinc	µg/L	67	43	64.2	3.1	15	193	24	35.8	0	0	0	0	10000	NMGSF	9	0	0	-

[a] Screening Standard

Std Type Standard (Source and Name)

MCL EPA Maximum Contaminant Level (MCL)

Reg6 EPA Region 6 Tap Water Screening Level

NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

1 = WCO-2
2 = CDV-16-02655
3 = CDV-16-02656
4 = CDV-16-02657
5 = CDV-16-02658
6 = CDV-16-02659
7 = MSC-16-06293
8 = MSC-16-06294
9 = MSC-16-06295

Note: Dash = none or no value.

Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-8b
Screening Table for Water Canyon Metals in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Aluminum	µg/L	72	70	97.2	138	3590	199000	2	2.78	0	11	13	**18.1**	36500	Reg6	9	3	4	2, 4, 9
Antimony	µg/L	72	32	44.4	0.28	0.7055	4	40	55.6	0	0	2	2.78	6	MCL	9	0	1	-
Arsenic	µg/L	72	18	25	3.5	8.45	25.2	54	75	7	7	15	**20.8**	10	MCL	9	2	3	2, 4
Barium	µg/L	72	72	100	58.6	4230	21100	0	0	0	44	44	**61.1**	2000	MCL	9	4	4	3, 4, 5, 6
Beryllium	µg/L	72	38	52.8	0.084	0.699	9.62	34	47.2	1	7	10	**13.9**	4	MCL	9	2	3	2, 4
Boron	µg/L	33	33	100	12.3	39.7	348	0	0	0	0	0	0	7300	Reg6	8	0	0	-
Cadmium	µg/L	72	55	76.4	0.1	0.63	14.8	17	23.6	0	3	6	**8.33**	5	MCL	9	1	1	2
Chromium	µg/L	72	51	70.8	0.6	4.1	110	21	29.2	0	2	4	**5.56**	100	MCL	9	1	2	2
Cobalt	µg/L	72	53	73.6	0.73	3.21	25.6	19	26.4	0	0	0	0	730	Reg6	9	0	0	-
Copper	µg/L	72	49	68.1	1.5	7.3	118	23	31.9	0	0	0	0	1300	MCL	9	0	0	-
Iron	µg/L	72	72	100	70.6	2405	127000	0	0	0	11	13	**18.1**	25550	Reg6	9	3	4	2, 4, 9
Lead	µg/L	72	56	77.8	0.27	3.585	151	16	22.2	0	13	20	**27.8**	15	Reg6	9	4	7	2, 4, 7, 9
Manganese	µg/L	72	66	91.7	3.5	165.5	2690	6	8.33	0	2	10	**13.9**	1703.09	Reg6	9	2	5	4, 8
Mercury	µg/L	70	15	21.4	0.056	0.077	0.19	55	78.6	0	0	0	0	2	NMGSU	9	0	0	-
Molybdenum	µg/L	33	11	33.3	0.55	3.9	11.5	22	66.7	0	0	0	0	182.5	Reg6	8	0	0	-
Nickel	µg/L	72	56	77.8	0.75	4.5	75.9	16	22.2	0	0	5	**6.94**	100	MCL	9	0	2	-
Selenium	µg/L	72	7	9.72	2.9	5.3	10.4	65	90.3	1	0	0	0	50	MCL	9	0	0	-
Silver	µg/L	72	21	29.2	0.2	1.8	31.1	51	70.8	0	0	0	0	182.5	Reg6	9	0	0	-
Strontium	µg/L	33	33	100	75.2	151	516	0	0	0	0	0	0	21900	Reg6	8	0	0	-
Thallium	µg/L	72	25	34.7	0.026	0.23	1.9	47	65.3	1	0	2	2.78	2	MCL	9	0	1	-
Tin	µg/L	33	3	9.09	4.9	5.2	6.5	30	90.9	0	0	0	0	21900	Reg6	8	0	0	-
Uranium	µg/L	48	38	79.2	0.053	0.505	16.6	10	20.8	0	0	1	2.08	30	MCL	8	0	1	-
Vanadium	µg/L	72	60	83.3	0.64	7.01	144	12	16.7	0	0	4	**5.56**	182.5	Reg6	9	0	2	-
Zinc	µg/L	72	52	72.2	3.3	39.6	4490	20	27.8	0	0	0	0	10950	Reg6	9	0	0	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1 = WCO-2
2 = CDV-16-02655
3 = CDV-16-02656
4 = CDV-16-02657
5 = CDV-16-02658
6 = CDV-16-02659
7 = MSC-16-06293
8 = MSC-16-06294
9 = MSC-16-06295

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater then or equal to 5% of detects.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-8c
Screening Table for Water Canyon General Inorganics in Alluvial Groundwater Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Alkalinity-CO3	µg/L	7	0	0	-	-	-	7	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	7	7	100	47.8	68	95.8	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Alkalinity-HCO3	µg/L	1	1	100	47.8	47.8	47.8	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ammonia as Nitrogen	µg/L	6	1	16.7	0.03	0.03	0.03	5	83.3	0	0	0	0	208.57	Reg6	5	0	0	-
Bromide	µg/L	7	2	28.6	0.106	0.125	0.144	5	71.4	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Calcium	µg/L	67	67	100	5.01	18.8	30.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloride	µg/L	7	7	100	3.61	16.5	21.1	0	0	0	0	0	0	250000	NMGSF	6	0	0	-
Cyanide (Total)	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	200	NMGSF	5	0	0	-
Fluoride	µg/L	7	6	85.7	0.165	0.2005	0.259	1	14.3	0	0	0	0	1600	NMGSF	6	0	0	-
Hardness	µg/L	30	30	100	42.9	72.15	106	0	0	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Magnesium	µg/L	67	67	100	1.45	5.08	7.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	7	2	28.6	0.305	0.3285	0.352	5	71.4	0	0	0	0	10000	NMGSF	6	0	0	-
Perchlorate	µg/L	14	3	21.4	0.265	0.338	0.346	11	78.6	0	0	0	0	24.5	Reg6	6	0	0	-
Potassium	µg/L	67	67	100	1.59	3.57	10.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Silicon Dioxide	µg/L	21	18	85.7	33.2	41.5	56.2	3	14.3	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Sodium	µg/L	67	67	100	12.4	17.4	187	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Specific Conductance	uS/cm	7	7	100	169	198	235	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Sulfate	µg/L	7	7	100	5.39	8.35	11.5	0	0	0	0	0	0	600000	NMGSF	6	0	0	-
Total Dissolved Solids	µg/L	30	30	100	128	167.5	640	0	0	0	0	0	0	1000000	NMGSF	7	0	0	-
Total Kjeldahl Nitrogen	µg/L	7	5	71.4	0.06	0.362	0.456	2	28.6	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Total Organic Carbon	µg/L	1	1	100	2.46	2.46	2.46	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	7	3	42.9	0.095	0.109	0.354	4	57.1	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
pH	SU	7	6	85.7	6.13	6.455	6.76	1	14.3	0	0	6	85.7	9	NMGSF	6	0	5	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1 = WCO-2
2 = CDV-16-02655
3 = CDV-16-02656
4 = CDV-16-02657
5 = CDV-16-02658
6 = CDV-16-02659
7 = MSC-16-06293
8 = MSC-16-06294
9 = MSC-16-06295

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater then or equal to 5% of detects.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-8d
Screening Table for Water Canyon General Inorganics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type				
Alkalinity-CO3	µg/L	24	0	0	-	-	-	24	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	60	59	98.3	20.2	75.8	222	1	1.67	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Ammonia as Nitrogen	µg/L	18	6	33.3	0.017	0.0845	0.246	12	66.7	0	0	0	0	208.57	Reg6	7	0	0	-
Bromide	µg/L	60	23	38.3	0.085	0.12	0.539	37	61.7	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Calcium	µg/L	72	72	100	10.6	20.1	44.4	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloride	µg/L	60	60	100	2.89	15.45	91.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Cyanide (Total)	µg/L	67	12	17.9	0.00164	0.002815	0.00779	55	82.1	0	0	0	0	200	MCL	8	0	0	-
Fluoride	µg/L	60	57	95	0.079	0.194	0.66	3	5	0	0	0	0	4000	MCL	8	0	0	-
Hardness	µg/L	33	33	100	44.7	74.1	215	0	0	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Magnesium	µg/L	72	72	100	3.37	5.72	25.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	59	45	76.3	0.01	0.12	6.74	14	23.7	0	0	0	0	10000	MCL	8	0	0	-
Oxalate	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Perchlorate	µg/L	82	41	50	0.0501	0.254	1.02	41	50	0	0	0	0	24.5	Reg6	8	0	0	-
Potassium	µg/L	72	72	100	1.6	4.135	30.8	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Silicon Dioxide	µg/L	25	22	88	34.3	47.85	203	3	12	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Sodium	µg/L	72	72	100	12.3	18	171	0	0	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Specific Conductance	uS/cm	24	24	100	146	206	814	0	0	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Sulfate	µg/L	60	60	100	2.57	8.72	80.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Suspended Sediment Concentration	µg/L	19	13	68.4	1.5	7.02	279	6	31.6	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	28	24	85.7	0.055	0.3835	2.36	4	14.3	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-
Total Organic Carbon	µg/L	6	6	100	2.07	8.015	14.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	4	4	100	0.074	0.1115	0.121	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Suspended Solids	µg/L	5	4	80	9.43	41.75	108	1	20	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
pH	SU	24	24	100	5.49	6.48	7.08	0	0	n/a	n/a	n/a	n/a	n/a	n/a	7	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1 = WCO-2 7 = MSC-16-06293
2 = CDV-16-02655 8 = MSC-16-06294
3 = CDV-16-02656 9 = MSC-16-06295
4 = CDV-16-02657
5 = CDV-16-02658
6 = CDV-16-02659

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
2,4-Diamino-6-nitrotoluene	µg/L	31	0	0	-	-	-	31	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
3,5-dinitroaniline	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Acenaphthene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	365	Reg6	9	0	0	-
Acenaphthylene	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Acetone	µg/L	61	30	49.2	2.67	4.4	16.3	31	50.8	0	0	0	0	5475	Reg6	9	0	0	-
Acetonitrile	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	124.1	Reg6	8	0	0	-
Acetophenone	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	608.3333	Reg6	1	0	0	-
Acrolein	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.041619	Reg6	8	0	0	-
Acrylonitrile	µg/L	31	0	0	-	-	-	31	100	31	0	0	0	1.237239	Reg6	8	0	0	-
Aldrin	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.039548	Reg6	6	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	65	22	33.8	0.125	2.38	4.82	43	66.2	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	65	18	27.7	0.2	2.48	4.83	47	72.3	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Aniline	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	117.9501	Reg6	8	0	0	-
Anthracene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	1825	Reg6	9	0	0	-
Aroclor-1016	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1221	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1232	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1242	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1248	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1254	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1260	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Aroclor-1262	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.5	MCL	6	0	0	-
Atrazine	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	3	MCL	5	0	0	-
	µg/L	32	0	0	-	-	-	32	100	32	0	0	0	6.111958	Reg6	8	0	0	-
	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.106717	Reg6	6	0	0	-
BHC[beta-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.373509	Reg6	6	0	0	-
BHC[delta-]	µg/L	7	0	0	-	-	-	andard g	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
BHC[gamma-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.2	MCL	6	0	0	-
Benzene	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Benzidine	µg/L	11	0	0	-	-	-	11	100	11	0	0	0	0.000936	Reg6	5	0	0	-
Benzo(a)anthracene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.294985	Reg6	9	0	0	-
Benzo(a)pyrene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.2	MCL	9	0	0	-
Benzo(b)fluoranthene	µg/L	33	0	0	-	-	-	33	100	32	0	0	0	0.294985	Reg6	9	0	0	-
Benzo(g,h,i)perylene	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	2.949853	Reg6	9	0	0	-
Benzoic Acid	µg/L	27	0	0	-	-	-	27	100	0	0	0	0	146000	Reg6	9	0	0	-
Benzyl Alcohol	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	10950	Reg6	9	0	0	-
Bis(2-chloroethoxy)methane	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.602164	Reg6	9	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	33	2	6.06	2.4	2.45	2.5	31	93.9	30	0	0	0	6	MCL	9	0	0	-
Bromobenzene	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	23.25201	Reg6	9	0	0	-
Bromochloromethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Bromodichloromethane	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	10.69108	Reg6	9	0	0	-
Bromoform	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	85.10321	Reg6	9	0	0	-
Bromomethane	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	8.661017	Reg6	9	0	0	-
Bromophenyl-phenylether[4-]	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
										ND>Std	D>Std	D>Std/2	D>Std/2						
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	(number)	(number)	(number)	(rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Butanol[1-]	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	3650	Reg6	2	0	0	-
Butanone[2-]	μg/L	69	1	1.45	5.3	5.3	5.3	68	98.6	0	0	0	0	7064.516	Reg6	9	0	0	-
Butylbenzene[n-]	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	60.83333	Reg6	9	0	0	-
Butylbenzene[sec-]	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	60.83333	Reg6	9	0	0	-
Butylbenzene[tert-]	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	60.83333	Reg6	9	0	0	-
Butylbenzylphthalate	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	7300	Reg6	9	0	0	-
Carbazole	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	33.61577	Reg6	1	0	0	-
Carbon Disulfide	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	1042.857	Reg6	9	0	0	-
Carbon Tetrachloride	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Chlordane[alpha-]	μg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chlordane[gamma-]	μg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chloro-1,3-butadiene[2-]	μg/L	31	0	0	-	-	-	31	100	0	0	0	0	14.31373	Reg6	8	0	0	-
Chloro-1-propene[3-]	μg/L	31	0	0	-	-	-	31	100	0	0	0	0	1825	Reg6	8	0	0	-
Chloro-3-methylphenol[4-]	μg/L	29	0	0	-	-	-	29	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chloroaniline[4-]	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	146	Reg6	9	0	0	-
Chlorobenzene	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	100	MCL	9	0	0	-
Chlorodibromomethane	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	7.891034	Reg6	9	0	0	-
Chloroethane	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	228.5679	Reg6	9	0	0	-
Chloroethyl vinyl ether[2-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Chloroform	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	60	MCL	9	0	0	-
Chloromethane	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	21.34503	Reg6	9	0	0	-
Chloronaphthalene[2-]	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	486.6667	Reg6	9	0	0	-
Chlorophenol[2-]	μg/L	29	0	0	-	-	-	29	100	0	0	0	0	30.41667	Reg6	9	0	0	-
Chlorophenyl-phenyl[4-] Ether	μg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chlorotoluene[2-]	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	121.6667	Reg6	9	0	0	-
Chlorotoluene[4-]	μg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Chrysene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.2	MCL	9	0	0	-
DB[2,4-]	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	292	Reg6	5	0	0	-
DDD[4,4'-]	μg/L	7	1	14.3	0.0115	0.0115	0.0115	6	85.7	0	0	0	0	2.801314	Reg6	6	0	0	-
DDE[4,4'-]	μg/L	7	1	14.3	0.00838	0.00838	0.00838	6	85.7	0	0	0	0	1.977398	Reg6	6	0	0	-
DDT[4,4'-]	μg/L	7	1	14.3	0.016	0.016	0.016	6	85.7	0	0	0	0	1.977398	Reg6	6	0	0	-
DNX	μg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
D[2,4-]	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	70	MCL	5	0	0	-
Dalapon	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	200	MCL	5	0	0	-
Di-n-butylphthalate	μg/L	33	0	0	-	-	-	33	100	0	0	0	0	3650	Reg6	9	0	0	-
Di-n-octylphthalate	μg/L	33	1	3.03	9.6	9.6	9.6	32	97	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dibenz(a,h)anthracene	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.029499	Reg6	9	0	0	-
Dibenzofuran	μg/L	33	0	0	-	-	-	33	100	2	0	0	0	12.16667	Reg6	9	0	0	-
Dibromo-3-Chloropropane[1,2-]	μg/L	69	0	0	-	-	-	69	100	69	0	0	0	0.2	MCL	9	0	0	-
Dibromoethane[1,2-]	μg/L	69	0	0	-	-	-	69	100	69	0	0	0	0.05	MCL	9	0	0	-
Dibromomethane	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	60.83333	Reg6	9	0	0	-
Dicamba	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	1095	Reg6	5	0	0	-
Dichlorobenzene[1,2-]	μg/L	102	0	0	-	-	-	102	100	0	0	0	0	600	MCL	9	0	0	-
Dichlorobenzene[1,3-]	μg/L	102	1	0.98	0.58	0.58	0.58	101	99	0	0	0	0	600	MCL	9	0	0	-
Dichlorobenzene[1,4-]	μg/L	102	0	0	-	-	-	102	100	0	0	0	0	75	MCL	9	0	0	-
Dichlorobenzidine[3,3'-]	μg/L	33	0	0	-	-	-	33	100	33	0	0	0	1.494034	Reg6	9	0	0	-
Dichlorodifluoromethane	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	394.5946	Reg6	9	0	0	-
Dichloroethane[1,1-]	μg/L	69	0	0	-	-	-	69	100	0	0	0	0	25	NMGSU	9	0	0	-

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Dichloroethane[1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Dichloroethene[1,1-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	NMGSU	9	0	0	-
Dichloroethene[cis-1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	70	MCL	9	0	0	-
Dichloroethene[trans-1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	100	MCL	9	0	0	-
Dichlorophenol[2,4-]	µg/L	28	0	0	-	-	-	28	100	0	0	0	0	109.5	Reg6	9	0	0	-
Dichloropropane[1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Dichloropropane[1,3-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichloropropene[trans-1,3-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dichlorprop	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Dieldrin	µg/L	7	1	14.3	0.00786	0.00786	0.00786	6	85.7	4	0	0	0	0.04202	Reg6	6	0	0	-
Diethyl Ether	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Diethylphthalate	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	29200	Reg6	9	0	0	-
Dimethyl Phthalate	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	365000	Reg6	9	0	0	-
Dimethylphenol[2,4-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	730	Reg6	9	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	29	0	0	-	-	-	29	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	3.65	Reg6	9	0	0	-
Dinitrophenol[2,4-]	µg/L	28	0	0	-	-	-	28	100	0	0	0	0	73	Reg6	9	0	0	-
Dinitrotoluene[2,4-]	µg/L	98	0	0	-	-	-	98	100	0	0	0	0	73	Reg6	9	0	0	-
Dinitrotoluene[2,6-]	µg/L	98	1	1.02	0.162	0.162	0.162	97	99	0	0	0	0	36.5	Reg6	9	0	0	-
Dinoseb	µg/L	20	0	0	-	-	-	20	100	14	0	0	0	7	MCL	5	0	0	-
Dioxane[1,4-]	µg/L	14	0	0	-	-	-	14	100	0	0	0	0	61.11958	Reg6	6	0	0	-
Diphenylamine	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	912.5	Reg6	8	0	0	-
Endosulfan I	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Endosulfan II	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Endosulfan Sulfate	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Endrin	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	2	MCL	6	0	0	-
Endrin Aldehyde	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Endrin Ketone	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Ethyl Methacrylate	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	547.5	Reg6	8	0	0	-
Ethylbenzene	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	700	MCL	9	0	0	-
Fluoranthene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	1460	Reg6	9	0	0	-
Fluorene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	243.3333	Reg6	9	0	0	-
HMX	µg/L	69	56	81.2	0.102	4.02	364	13	18.8	0	0	0	0	1825	Reg6	9	0	0	-
Heptachlor	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.4	MCL	6	0	0	-
Heptachlor Epoxide	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.2	MCL	6	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorobenzene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	1	MCL	9	0	0	-
Hexachlorobutadiene	µg/L	64	0	0	-	-	-	64	100	33	0	0	0	8.619427	Reg6	9	0	0	-
Hexachlorocyclopentadiene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	50	MCL	9	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	0.000108	Reg6	3	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Hexachloroethane	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	48.02252	Reg6	9	0	0	-
Hexanone[2-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.294985	Reg6	9	0	0	-
Iodomethane	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Isophorone	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	707.7004	Reg6	9	0	0	-
Isopropylbenzene	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	658.1967	Reg6	9	0	0	-
Isopropyltoluene[4-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
MCPA	µg/L	6	0	0	-	-	-	6	100	6	0	0	0	18.25	Reg6	5	0	0	-
MCPP	µg/L	6	0	0	-	-	-	6	100	6	0	0	0	36.5	Reg6	5	0	0	-
MNX	µg/L	22	6	27.3	0.67	1.3	15	16	72.7	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Methacrylonitrile	µg/L	31	0	0	-	-	-	31	100	31	0	0	0	1.042857	Reg6	8	0	0	-
Methoxychlor[4,4'-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	40	MCL	6	0	0	-
Methyl Methacrylate	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	1419.444	Reg6	8	0	0	-
Methyl tert-Butyl Ether	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	370.8305	Reg6	5	0	0	-
Methyl-1-propanol[2-]	µg/L	28	0	0	-	-	-	28	100	0	0	0	0	1825	Reg6	8	0	0	-
Methyl-2-pentanone[4-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	1990.909	Reg6	9	0	0	-
Methylene Chloride	µg/L	69	1	1.45	2.1	2.1	2.1	68	98.6	60	0	0	0	5	MCL	9	0	0	-
Methylnaphthalene[1-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Methylphenol[2-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	1825	Reg6	9	0	0	-
Methylphenol[3-,4-]	µg/L	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Methylphenol[4-]	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	182.5	Reg6	9	0	0	-
Naphthalene	µg/L	57	1	1.75	0.27	0.27	0.27	56	98.2	0	0	0	0	30	NMGSU	9	0	0	-
Nitroaniline[2-]	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	109.5	Reg6	9	0	0	-
Nitroaniline[3-]	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitroaniline[4-]	µg/L	33	0	0	-	-	-	33	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrobenzene	µg/L	98	0	0	-	-	-	98	100	36	0	0	0	3.395349	Reg6	9	0	0	-
Nitrophenol[2-]	µg/L	29	0	0	-	-	-	29	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Nitrophenol[4-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	292	Reg6	9	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.122685	Reg6	5	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	0.096045	Reg6	9	0	0	-
Nitrosodiethylamine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.001436	Reg6	5	0	0	-
Nitrosodimethylamine[N-]	µg/L	32	0	0	-	-	-	32	100	32	0	0	0	0.004222	Reg6	8	0	0	-
Nitrosodiphenylamine[N-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	137.2072	Reg6	6	0	0	-
Nitrosopyrrolidine[N-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.32015	Reg6	5	0	0	-
Nitrotoluene[2-]	µg/L	64	1	1.56	0.182	0.182	0.182	63	98.4	0	0	0	0	2.92311	Reg6	9	0	0	-
Nitrotoluene[3-]	µg/L	64	0	0	-	-	-	64	100	0	0	0	0	121.6667	Reg6	9	0	0	-
Nitrotoluene[4-]	µg/L	64	0	0	-	-	-	64	100	0	0	0	0	39.54796	Reg6	9	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	µg/L	3	2	66.7	2.40E-06	6.25E-06	1.01E-05	1	33.3	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	9.536393	Reg6	9	0	0	-

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
PETN	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Pentachlorobenzene	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	29.2	Reg6	5	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Pentachlorophenol	µg/L	28	1	3.57	7.8	7.8	7.8	27	96.4	27	1	1	3.57	1	MCL	9	1	1	1
Phenanthrene	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-
Phenol	µg/L	29	0	0	-	-	-	29	100	29	0	0	0	5	NMGSU	9	0	0	-
Propionitrile	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Propylbenzene[1-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	60.83333	Reg6	9	0	0	-
Pyrene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	182.5	Reg6	9	0	0	-
Pyridine	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	36.5	Reg6	8	0	0	-
RDX	µg/L	69	46	66.7	0.157	4.6	264	23	33.3	0	22	28	**40.6**	6.11	Reg6	9	3	5	4, 5, 6
Styrene	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	100	MCL	9	0	0	-
TATB	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
TNX	µg/L	22	3	13.6	0.25	0.33	2.3	19	86.4	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
TP[2,4,5-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	50	MCL	5	0	0	-
T[2,4,5-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	365	Reg6	5	0	0	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	3.00E-05	MCL	5	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	0	0	0	0	3.00E-05	MCL	3	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	25.49549	Reg6	9	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	10	NMGSU	9	0	0	-
Tetrachloroethene	µg/L	69	3	4.35	0.489	0.52	2.6	66	95.7	0	0	1	1.45	5	MCL	9	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	14	0	0	-	-	-	14	100	14	0	0	0	5	MCL	5	0	0	-
Tetryl	µg/L	55	0	0	-	-	-	55	100	0	0	0	0	146	Reg6	9	0	0	-
Toluene	µg/L	69	9	13	0.298	0.459	0.51	60	87	0	0	0	0	750	NMGSU	9	0	0	-
Toxaphene (Technical Grade)	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	3	MCL	6	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	68	0	0	-	-	-	68	100	0	0	0	0	59179.86	Reg6	8	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	31	0	0	-	-	-	31	100	n/a	n/a	n/a	n/a	n/a	n/a	8	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	64	0	0	-	-	-	64	100	0	0	0	0	70	MCL	9	0	0	-
Trichloroethane[1,1,1-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	60	NMGSU	9	0	0	-
Trichloroethane[1,1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Trichloroethene	µg/L	69	1	1.45	2.86	2.86	2.86	68	98.6	0	0	1	1.45	5	MCL	9	0	0	-
Trichlorofluoromethane	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	5	MCL	9	0	0	-
Trichlorophenol[2,4,5-]	µg/L	28	0	0	-	-	-	28	100	0	0	0	0	3650	Reg6	9	0	0	-
Trichlorophenol[2,4,6-]	µg/L	28	0	0	-	-	-	28	100	0	0	0	0	61.11958	Reg6	9	0	0	-
Trichloropropane[1,2,3-]	µg/L	69	0	0	-	-	-	69	100	69	0	0	0	0.094692	Reg6	9	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	12.42906	Reg6	9	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	12.32618	Reg6	9	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	65	0	0	-	-	-	65	100	0	0	0	0	1095	Reg6	9	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	65	2	3.08	0.0851	0.09605	0.107	63	96.9	0	0	0	0	22.41051	Reg6	9	0	0	-
Vinyl Chloride	µg/L	69	0	0	-	-	-	69	100	69	0	0	0	1	NMGSU	9	0	0	-

Table B-8e
Screening Table for Water Canyon Organics in Alluvial Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Vinyl acetate	µg/L	31	0	0	-	-	-	31	100	0	0	0	0	412.4294	Reg6	8	0	0	-
Xylene (Total)	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	10000	MCL	1	0	0	-
Xylene[1,2-]	µg/L	69	0	0	-	-	-	69	100	0	0	0	0	1431.373	Reg6	9	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	69	0	0	-	-	-	69	100	n/a	n/a	n/a	n/a	n/a	n/a	9	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1 = WCO-2
2 = CDV-16-02655
3 = CDV-16-02656
4 = CDV-16-02657
5 = CDV-16-02658
6 = CDV-16-02659
7 = MSC-16-06293
8 = MSC-16-06294
9 = MSC-16-06295

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-9a Screening Table for Water Canyon Metals in Intermediate Groundwater (Preched Zone) Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	5000	NMGSF	4	0	0	-
Antimony	µg/L	19	1	5.26	1.1	1.1	1.1	18	94.7	0	0	0	0	6	MCL	4	0	0	-
Arsenic	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	10	MCL	4	0	0	-
Barium	µg/L	19	18	94.7	3.2	7.95	20.6	1	5.26	0	0	0	0	1000	NMGSF	4	0	0	-
Beryllium	µg/L	19	3	15.8	0.1	0.15	0.17	16	84.2	0	0	0	0	4	MCL	4	0	0	-
Boron	µg/L	19	14	73.7	17.5	40.95	245	5	26.3	0	0	0	0	750	NMGSF	4	0	0	-
Cadmium	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	5	MCL	4	0	0	-
Chromium	µg/L	19	5	26.3	1.6	2	6.2	14	73.7	0	0	0	0	50	NMGSF	4	0	0	-
Cobalt	µg/L	19	3	15.8	1.1	7.2	11.1	16	84.2	0	0	0	0	50	NMGSF	4	0	0	-
Copper	µg/L	18	9	50	3.4	4.7	8.9	9	50	0	0	0	0	1000	NMGSF	4	0	0	-
Iron	µg/L	19	9	47.4	18.8	29.4	2310	10	52.6	0	1	1	**5.26**	1000	NMGSF	4	1	1	3
Lead	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	15	MCL	4	0	0	-
Manganese	µg/L	19	16	84.2	1.5	6.85	183	3	15.8	0	0	2	**10.5**	200	NMGSF	4	0	1	-
Mercury	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	2	MCL	4	0	0	-
Molybdenum	µg/L	19	11	57.9	0.92	3	7.1	8	42.1	0	0	0	0	1000	NMGSF	4	0	0	-
Nickel	µg/L	19	13	68.4	0.75	3.2	723	6	31.6	0	2	2	**10.5**	100	MCL	4	1	1	3
Selenium	µg/L	19	1	5.26	2.6	2.6	2.6	18	94.7	0	0	0	0	50	NMGSF	4	0	0	-
Silver	µg/L	19	1	5.26	0.87	0.87	0.87	18	94.7	0	0	0	0	50	NMGSF	4	0	0	-
Strontium	µg/L	19	19	100	44.8	57.2	281	0	0	0	0	0	0	21900	Reg6	4	0	0	-
Thallium	µg/L	19	7	36.8	0.41	0.5	0.74	12	63.2	0	0	0	0	2	MCL	4	0	0	-
Tin	µg/L	11	0	0	-	-	-	11	100	0	0	0	0	21900	Reg6	4	0	0	-
Uranium	µg/L	19	16	84.2	0.28	0.36	0.74	3	15.8	0	0	0	0	30	NMGSF	4	0	0	-
Vanadium	µg/L	19	13	68.4	1.1	2.7	8.5	6	31.6	0	0	0	0	182.5	Reg6	4	0	0	-
Zinc	µg/L	19	10	52.6	2.4	6.55	17	9	47.4	0	0	0	0	10000	NMGSF	4	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=CdV-16-1(i)
2=CdV-16-2(i)r
3=R-25
4=R-26

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-9b
Screening Table for Water Canyon Metals in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Aluminum	µg/L	19	8	42.1	76	538	2960	11	57.9	0	0	0	0	36500	Reg6	4	0	0	-
Antimony	µg/L	21	1	4.76	0.72	0.72	0.72	20	95.2	0	0	0	0	6	MCL	4	0	0	-
Arsenic	µg/L	21	2	9.52	1.5	2.15	2.8	19	90.5	0	0	0	0	10	MCL	4	0	0	-
Barium	µg/L	21	21	100	5.2	9.6	21.3	0	0	0	0	0	0	2000	MCL	4	0	0	-
Beryllium	µg/L	21	5	23.8	0.15	0.19	0.22	16	76.2	0	0	0	0	4	MCL	4	0	0	-
Boron	µg/L	21	16	76.2	17.6	58.15	307	5	23.8	0	0	0	0	7300	Reg6	4	0	0	-
Cadmium	µg/L	21	2	9.52	0.045	0.0825	0.12	19	90.5	0	0	0	0	5	MCL	4	0	0	-
Chromium	µg/L	21	18	85.7	1.5	5.6	153	3	14.3	0	1	2	**9.52**	100	MCL	4	1	1	3
Cobalt	µg/L	21	4	19	7	15.15	18.4	17	81	0	0	0	0	730	Reg6	4	0	0	-
Copper	µg/L	19	11	57.9	1.6	11.2	63.2	8	42.1	0	0	0	0	1300	MCL	4	0	0	-
Iron	µg/L	21	17	81	24.8	506	4410	4	19	0	0	0	0	25550	Reg6	4	0	0	-
Lead	µg/L	21	9	42.9	0.72	1	12.7	12	57.1	0	0	1	4.76	15	Reg6	4	0	1	-
Manganese	µg/L	21	17	81	1.2	13.6	409	4	19	0	0	0	0	1703.09	Reg6	4	0	0	-
Mercury	µg/L	21	1	4.76	0.082	0.082	0.082	20	95.2	0	0	0	0	2	NMGSU	4	0	0	-
Molybdenum	µg/L	21	12	57.1	0.9	2.75	9.7	9	42.9	0	0	0	0	182.5	Reg6	4	0	0	-
Nickel	µg/L	21	19	90.5	2.2	5.3	1720	2	9.52	0	4	4	**19**	100	MCL	4	1	1	3
Selenium	µg/L	21	1	4.76	2.8	2.8	2.8	20	95.2	0	0	0	0	50	MCL	4	0	0	-
Silver	µg/L	21	0	0	-	-	-	21	100	0	0	0	0	182.5	Reg6	4	0	0	-
Strontium	µg/L	21	21	100	45	70.3	277	0	0	0	0	0	0	21900	Reg6	4	0	0	-
Thallium	µg/L	21	1	4.76	0.44	0.44	0.44	20	95.2	0	0	0	0	2	MCL	4	0	0	-
Tin	µg/L	13	0	0	-	-	-	13	100	0	0	0	0	21900	Reg6	4	0	0	-
Uranium	µg/L	21	20	95.2	0.29	0.385	0.93	1	4.76	0	0	0	0	30	MCL	4	0	0	-
Vanadium	µg/L	21	17	81	0.95	2.5	8.8	4	19	0	0	0	0	182.5	Reg6	4	0	0	-
Zinc	µg/L	21	16	76.2	2.6	16.5	62.4	5	23.8	0	0	0	0	10950	Reg6	4	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=CdV-16-1(i)
2=CdV-16-2(i)r
3=R-25
4=R-26

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-9c
Screening Table for Water Canyon General Inorganics in Intermediate Groundwater (Perched Zone) Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations	D>Std	D>Std/2	D>Std
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	with Data (number)	(number of locations)	(number of locations)	Station List[b]
Alkalinity-CO3	μg/L	13	0	0	-	-	-	13	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Alkalinity-CO3+HCO3	μg/L	19	19	100	43.2	54.9	86.4	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Alkalinity-HCO3	μg/L	2	2	100	47.6	51.1	54.6	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Ammonia as Nitrogen	μg/L	13	2	15.4	0.035	0.093	0.151	11	84.6	0	0	0	0	208.5714	Reg6	4	0	0	-
Bromide	μg/L	19	8	42.1	0.076	0.0895	0.111	11	57.9	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Calcium	μg/L	19	19	100	7.27	9.57	106	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloride	μg/L	19	19	100	1.06	2.67	13.5	0	0	0	0	0	0	250000	NMGSF	4	0	0	-
Cyanide (Total)	μg/L	7	2	28.6	0.00728	0.01919	0.0311	5	71.4	0	0	0	0	200	NMGSF	3	0	0	-
Dissolved Organic Carbon	μg/L	3	3	100	0.33	0.34	0.38	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Fluoride	μg/L	19	13	68.4	0.082	0.11	0.281	6	31.6	0	0	0	0	1600	NMGSF	4	0	0	-
Hardness	μg/L	11	11	100	28.7	33.5	285	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	μg/L	19	19	100	1.96	2.9	6.08	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrate-Nitrite as N	μg/L	19	19	100	0.083	0.536	1.04	0	0	0	0	0	0	10000	NMGSF	4	0	0	-
Perchlorate	μg/L	14	7	50	0.138	0.297	0.577	7	50	0	0	0	0	24.5	Reg6	3	0	0	-
Potassium	μg/L	19	19	100	0.354	2.13	2.54	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Silicon Dioxide	μg/L	19	19	100	35.1	58.2	68.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sodium	μg/L	19	19	100	8.33	11.4	36.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Specific Conductance	uS/cm	11	11	100	98.4	136	580	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sulfate	μg/L	19	19	100	0.799	7.08	207	0	0	0	0	0	0	600000	NMGSF	4	0	0	-
Total Dissolved Solids	μg/L	13	13	100	77	135	459	0	0	0	0	0	0	1000000	NMGSF	4	0	0	-
Total Kjeldahl Nitrogen	μg/L	19	9	47.4	0.011	0.171	0.616	10	52.6	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Phosphate as Phosphorus	μg/L	19	9	47.4	0.041	0.107	7.38	10	52.6	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
pH	SU	11	11	100	6.33	7	8.4	0	0	0	0	11	100	9	NMGSF	4	0	4	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSF   NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=CdV-16-1(i)
2=CdV-16-2(i)r
3=R-25
4=R-26

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-9d
Screening Table for Water Canyon General Inorganics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type				
Alkalinity-CO3	µg/L	2	0	0	-	-	-	2	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	2	2	100	46.2	47.75	49.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Alkalinity-HCO3	µg/L	2	2	100	46.1	47.7	49.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Ammonia as Nitrogen	µg/L	1	1	100	0.039	0.039	0.039	0	0	0	0	0	0	208.57	Reg6	1	0	0	-
Calcium	µg/L	21	21	100	7.27	12	104	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloride	µg/L	2	2	100	15.8	16.2	16.6	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Cyanide (Total)	µg/L	10	1	10	0.00591	0.00591	0.00591	9	90	0	0	0	0	200	MCL	3	0	0	-
Fluoride	µg/L	2	2	100	0.132	0.146	0.16	0	0	0	0	0	0	4000	MCL	1	0	0	-
Hardness	µg/L	13	13	100	31	37.8	279	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	µg/L	21	21	100	1.58	2.94	5.91	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	5	5	100	0.251	0.295	1.12	0	0	0	0	0	0	10000	MCL	2	0	0	-
Perchlorate	µg/L	28	14	50	0.21	0.3875	0.645	14	50	0	0	0	0	24.5	Reg6	4	0	0	-
Potassium	µg/L	21	21	100	0.403	2.13	2.54	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Silicon Dioxide	µg/L	13	13	100	38.4	57.8	68.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sodium	µg/L	21	21	100	8.37	10.6	53.1	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Specific Conductance	uS/cm	2	2	100	166	166	166	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Sulfate	µg/L	2	2	100	10.2	10.45	10.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Suspended Sediment Concentration	µg/L	3	3	100	8	12	1040	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	8	4	50	0.013	0.039	0.656	4	50	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Organic Carbon	µg/L	15	8	53.3	0.206	0.684	1.66	7	46.7	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	5	1	20	0.057	0.057	0.057	4	80	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Total Suspended Solids	µg/L	2	2	100	7.6	8.2	8.8	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
pH	SU	2	2	100	6.62	6.66	6.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=CdV-16-1(i)
2=CdV-16-2(i)r
3=R-25
4=R-26

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-9e
Screening Table for Water Canyon Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
2,4-Diamino-6-nitrotoluene	µg/L	17	1	5.88	0.355	0.355	0.355	16	94.1	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
3,5-dinitroaniline	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acenaphthene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	365	Reg6	4	0	0	-
Acenaphthylene	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acetone	µg/L	21	3	14.3	1.4	2.01	7.81	18	85.7	0	0	0	0	5475	Reg6	4	0	0	-
Acetonitrile	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	124.1	Reg6	4	0	0	-
Acrolein	µg/L	14	0	0	-	-	-	14	100	14	0	0	0	0.041619	Reg6	4	0	0	-
Acrylonitrile	µg/L	14	0	0	-	-	-	14	100	14	0	0	0	1.237239	Reg6	4	0	0	-
Aldrin	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.039548	Reg6	3	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	26	10	38.5	0.103	0.256	4.33	16	61.5	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	26	13	50	0.103	0.162	3.99	13	50	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Aniline	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	117.9501	Reg6	4	0	0	-
Anthracene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	1825	Reg6	4	0	0	-
Aroclor-1016	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1221	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1232	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1242	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1248	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1254	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1260	µg/L	8	0	0	-	-	-	8	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1262	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	0.5	MCL	3	0	0	-
Atrazine	µg/L	10	0	0	-	-	-	10	100	10	0	0	0	3	MCL	4	0	0	-
Azobenzene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	6.111958	Reg6	4	0	0	-
	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.106717	Reg6	3	0	0	-
	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.373509	Reg6	3	0	0	-
BHC[delta-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
BHC[gamma-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.2	MCL	3	0	0	-
Benzene	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Benzidine	µg/L	8	0	0	-	-	-	8	100	8	0	0	0	0.000936	Reg6	4	0	0	-
Benzo(a)anthracene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.294985	Reg6	4	0	0	-
Benzo(a)pyrene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.2	MCL	4	0	0	-
Benzo(b)fluoranthene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.294985	Reg6	4	0	0	-
Benzo(g,h,i)perylene	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	2.949853	Reg6	4	0	0	-
Benzoic Acid	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	146000	Reg6	4	0	0	-
Benzyl Alcohol	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	10950	Reg6	4	0	0	-
Bis(2-chloroethoxy)methane	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.602164	Reg6	4	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	17	0	0	-	-	-	17	100	15	0	0	0	6	MCL	4	0	0	-
Bromobenzene	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	23.25201	Reg6	4	0	0	-
Bromochloromethane	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Bromodichloromethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	10.69108	Reg6	4	0	0	-
Bromoform	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	85.10321	Reg6	4	0	0	-
Bromomethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	8.661017	Reg6	4	0	0	-
Bromophenyl-phenylether[4-]	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Butanol[1-]	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	3650	Reg6	1	0	0	-

Table B-9e
Screening Table for Water Canyon Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Butanone[2-]	µg/L	22	2	9.09	11.6	11.65	11.7	20	90.9	0	0	0	0	7064.516	Reg6	4	0	0	-
Butylbenzene[n-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzene[sec-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzene[tert-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzylphthalate	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	7300	Reg6	4	0	0	-
Carbon Disulfide	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	1042.857	Reg6	4	0	0	-
Carbon Tetrachloride	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Chlordane[alpha-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chlordane[gamma-]	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	14.31373	Reg6	4	0	0	-
Chloro-1-propene[3-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	1825	Reg6	4	0	0	-
Chloro-3-methylphenol[4-]	µg/L	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloroaniline[4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	146	Reg6	4	0	0	-
Chlorobenzene	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	100	MCL	4	0	0	-
Chlorodibromomethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	7.891034	Reg6	4	0	0	-
Chloroethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	228.5679	Reg6	4	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloroform	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60	MCL	4	0	0	-
Chloromethane	µg/L	22	1	4.55	2.7	2.7	2.7	21	95.5	0	0	0	0	21.34503	Reg6	4	0	0	-
Chloronaphthalene[2-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	486.6667	Reg6	4	0	0	-
Chlorophenol[2-]	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	30.41667	Reg6	4	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chlorotoluene[2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	121.6667	Reg6	4	0	0	-
Chlorotoluene[4-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chrysene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.2	MCL	4	0	0	-
DB[2,4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	292	Reg6	3	0	0	-
DDD[4,4'-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	2.801314	Reg6	3	0	0	-
DDE[4,4'-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	1.977398	Reg6	3	0	0	-
DDT[4,4'-]	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	1.977398	Reg6	3	0	0	-
DNX	µg/L	6	4	66.7	0.079	0.125	0.15	2	33.3	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
D[2,4-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	70	MCL	3	0	0	-
Dalapon	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	200	MCL	3	0	0	-
Di-n-butylphthalate	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	3650	Reg6	4	0	0	-
Di-n-octylphthalate	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.029499	Reg6	4	0	0	-
Dibenzofuran	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	12.16667	Reg6	4	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	22	0	0	-	-	-	22	100	22	0	0	0	0.2	MCL	4	0	0	-
Dibromoethane[1,2-]	µg/L	22	0	0	-	-	-	22	100	22	0	0	0	0.05	MCL	4	0	0	-
Dibromomethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Dicamba	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	1095	Reg6	3	0	0	-
Dichlorobenzene[1,2-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	600	MCL	4	0	0	-
Dichlorobenzene[1,3-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	600	MCL	4	0	0	-
Dichlorobenzene[1,4-]	µg/L	39	0	0	-	-	-	39	100	0	0	0	0	75	MCL	4	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	1.494034	Reg6	4	0	0	-
Dichlorodifluoromethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	394.5946	Reg6	4	0	0	-
Dichloroethane[1,1-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	25	NMGSU	4	0	0	-
Dichloroethane[1,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Dichloroethene[1,1-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	NMGSU	4	0	0	-

Table B-9e
Screening Table for Water Canyon Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Dichloroethene[cis-1,2-]	µg/L	20	0	0	-	-	-	20	100	0	0	0	0	70	MCL	4	0	0	-
Dichloroethene[trans-1,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	100	MCL	4	0	0	-
Dichlorophenol[2,4-]	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	109.5	Reg6	4	0	0	-
Dichloropropane[1,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Dichloropropane[1,3-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[trans-1,3-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichlorprop	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dieldrin	µg/L	7	0	0	-	-	-	7	100	2	0	0	0	0.04202	Reg6	3	0	0	-
Diethyl Ether	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Diethylphthalate	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	29200	Reg6	4	0	0	-
Dimethyl Phthalate	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	365000	Reg6	4	0	0	-
Dimethylphenol[2,4-]	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	730	Reg6	4	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	3.65	Reg6	4	0	0	-
Dinitrophenol[2,4-]	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	73	Reg6	4	0	0	-
Dinitrotoluene[2,4-]	µg/L	43	3	6.98	0.527	0.54	1.04	40	93	0	0	0	0	73	Reg6	4	0	0	-
Dinitrotoluene[2,6-]	µg/L	43	0	0	-	-	-	43	100	0	0	0	0	36.5	Reg6	4	0	0	-
Dinoseb	µg/L	15	0	0	-	-	-	15	100	9	0	0	0	7	MCL	4	0	0	-
Dioxane[1,4-]	µg/L	5	0	0	-	-	-	5	100	0	0	0	0	61.11958	Reg6	3	0	0	-
Diphenylamine	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	912.5	Reg6	4	0	0	-
Endosulfan I	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endosulfan II	µg/L	6	0	0	-	-	-	6	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endosulfan Sulfate	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	2	MCL	3	0	0	-
Endrin Aldehyde	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin Ketone	µg/L	7	0	0	-	-	-	7	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Ethyl Methacrylate	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	547.5	Reg6	4	0	0	-
Ethylbenzene	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	700	MCL	4	0	0	-
Fluoranthene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	1460	Reg6	4	0	0	-
Fluorene	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	243.3333	Reg6	4	0	0	-
HMX	µg/L	26	20	76.9	0.134	1.575	11.9	6	23.1	0	0	0	0	1825	Reg6	4	0	0	-
Heptachlor	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.4	MCL	3	0	0	-
Heptachlor Epoxide	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	0.2	MCL	3	0	0	-
Hexachlorobenzene	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	1	MCL	4	0	0	-
Hexachlorobutadiene	µg/L	31	0	0	-	-	-	31	100	17	0	0	0	8.619427	Reg6	4	0	0	-
Hexachlorocyclopentadiene	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	50	MCL	4	0	0	-
Hexachloroethane	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	48.02252	Reg6	4	0	0	-
Hexanone[2-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	15	0	0	-	-	-	15	100	15	0	0	0	0.294985	Reg6	4	0	0	-
Iodomethane	µg/L	21	0	0	-	-	-	21	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Isophorone	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	707.7004	Reg6	4	0	0	-
Isopropylbenzene	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	658.1967	Reg6	4	0	0	-
Isopropyltoluene[4-]	µg/L	22	0	0	-	-	-	22	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
MCPA	µg/L	6	0	0	-	-	-	6	100	6	0	0	0	18.25	Reg6	3	0	0	-
MCPP	µg/L	6	0	0	-	-	-	6	100	6	0	0	0	36.5	Reg6	3	0	0	-

Table B-9e
Screening Table for Water Canyon Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
MNX	μg/L	6	4	66.7	0.14	0.265	0.28	2	33.3	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Methacrylonitrile	μg/L	12	0	0	-	-	-	12	100	12	0	0	0	1.042857	Reg6	4	0	0	-
Methoxychlor[4,4'-]	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	40	MCL	3	0	0	-
Methyl Methacrylate	μg/L	12	0	0	-	-	-	12	100	0	0	0	0	1419.444	Reg6	4	0	0	-
Methyl tert-Butyl Ether	μg/L	4	3	75	0.264	0.31	1.24	1	25	0	0	0	0	370.8305	Reg6	3	0	0	-
Methyl-1-propanol[2-]	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	1825	Reg6	4	0	0	-
Methyl-2-pentanone[4-]	μg/L	22	1	4.55	5.35	5.35	5.35	21	95.5	0	0	0	0	1990.909	Reg6	4	0	0	-
Methylene Chloride	μg/L	22	0	0	-	-	-	22	100	19	0	0	0	5	MCL	4	0	0	-
Methylnaphthalene[1-]	μg/L	10	0	0	-	-	-	10	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[2-]	μg/L	16	0	0	-	-	-	16	100	0	0	0	0	1825	Reg6	4	0	0	-
Methylphenol[3-,4-]	μg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[4-]	μg/L	5	0	0	-	-	-	5	100	0	0	0	0	182.5	Reg6	3	0	0	-
Methylpyridine[2-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Naphthalene	μg/L	30	0	0	-	-	-	30	100	0	0	0	0	30	NMGSU	4	0	0	-
Nitroaniline[2-]	μg/L	17	0	0	-	-	-	17	100	0	0	0	0	109.5	Reg6	4	0	0	-
Nitroaniline[3-]	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitroaniline[4-]	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrobenzene	μg/L	43	0	0	-	-	-	43	100	17	0	0	0	3.395349	Reg6	4	0	0	-
Nitroglycerin	μg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Nitrophenol[2-]	μg/L	16	0	0	-	-	-	16	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrophenol[4-]	μg/L	16	0	0	-	-	-	16	100	0	0	0	0	292	Reg6	4	0	0	-
Nitroso-di-n-butylamine[N-]	μg/L	10	0	0	-	-	-	10	100	10	0	0	0	0.122685	Reg6	4	0	0	-
Nitroso-di-n-propylamine[N-]	μg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.096045	Reg6	4	0	0	-
Nitrosodiethylamine[N-]	μg/L	10	0	0	-	-	-	10	100	10	0	0	0	0.001436	Reg6	4	0	0	-
Nitrosodimethylamine[N-]	μg/L	17	0	0	-	-	-	17	100	17	0	0	0	0.004222	Reg6	4	0	0	-
Nitrosopyrrolidine[N-]	μg/L	10	0	0	-	-	-	10	100	10	0	0	0	0.32015	Reg6	4	0	0	-
Nitrotoluene[2-]	μg/L	26	1	3.85	0.229	0.229	0.229	25	96.2	0	0	0	0	2.92311	Reg6	4	0	0	-
Nitrotoluene[3-]	μg/L	26	0	0	-	-	-	26	100	0	0	0	0	121.6667	Reg6	4	0	0	-
Nitrotoluene[4-]	μg/L	26	0	0	-	-	-	26	100	0	0	0	0	39.54796	Reg6	4	0	0	-
Oxybis(1-chloropropane)[2,2'-]	μg/L	17	0	0	-	-	-	17	100	17	0	0	0	9.536393	Reg6	4	0	0	-
PETN	μg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Pentachlorobenzene	μg/L	10	0	0	-	-	-	10	100	0	0	0	0	29.2	Reg6	4	0	0	-
Pentachlorophenol	μg/L	16	0	0	-	-	-	16	100	16	0	0	0	1	MCL	4	0	0	-
Phenanthrene	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Phenol	μg/L	16	0	0	-	-	-	16	100	16	0	0	0	5	NMGSU	4	0	0	-
Propionitrile	μg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Propylbenzene[1-]	μg/L	22	0	0	-	-	-	22	100	0	0	0	0	60.83333	Reg6	4	0	3	-
Pyrene	μg/L	17	0	0	-	-	-	17	100	0	0	0	0	182.5	Reg6	4	0	0	-
Pyridine	μg/L	2	0	0	-	-	-	2	100	0	0	0	0	36.5	Reg6	1	0	0	-
RDX	μg/L	26	20	76.9	0.809	35.45	54.4	6	23.1	1	19	19	**73.1**	6.111958	Reg6	4	3	3	1, 2, 3
Styrene	μg/L	22	0	0	-	-	-	22	100	0	0	0	0	100	MCL	4	0	0	-
TATB	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
TNX	μg/L	6	2	33.3	0.12	0.295	0.47	4	66.7	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
TP[2,4,5-]	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	50	MCL	3	0	0	-
T[2,4,5-]	μg/L	6	0	0	-	-	-	6	100	0	0	0	0	365	Reg6	3	0	0	-
Tetrachlorobenzene[1,2,4,5-]	μg/L	10	0	0	-	-	-	10	100	10	0	0	0	3.00E-05	MCL	4	0	0	-
Tetrachloroethane[1,1,1,2-]	μg/L	22	0	0	-	-	-	22	100	0	0	0	0	25.49549	Reg6	4	0	0	-

Table B-9e
Screening Table for Water Canyon Organics in Intermediate Groundwater (Perched Zone) Unfiltered (UF) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations with Data	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)			
Tetrachloroethane[1,1,2,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	10	NMGSU	4	0	0	-
Tetrachloroethene	µg/L	22	15	68.2	0.289	0.794	1.4	7	31.8	0	0	0	0	5	MCL	4	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	9	0	0	-	-	-	9	100	9	0	0	0	5	MCL	4	0	0	-
Tetryl	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	146	Reg6	4	0	0	-
Toluene	µg/L	22	8	36.4	0.28	3.295	10.9	14	63.6	0	0	0	0	750	NMGSU	4	0	0	-
Toxaphene (Technical Grade)	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	3	MCL	3	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	59179.86	Reg6	4	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	29	0	0	-	-	-	29	100	0	0	0	0	70	MCL	4	0	0	-
Trichloroethane[1,1,1-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	60	NMGSU	4	0	0	-
Trichloroethane[1,1,2-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Trichloroethene	µg/L	22	6	27.3	0.285	1.214	1.8	16	72.7	0	0	0	0	5	MCL	4	0	0	-
Trichlorofluoromethane	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	5	MCL	4	0	0	-
Trichlorophenol[2,4,5-]	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	3650	Reg6	4	0	0	-
Trichlorophenol[2,4,6-]	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	61.11958	Reg6	4	0	0	-
Trichloropropane[1,2,3-]	µg/L	22	0	0	-	-	-	22	100	22	0	0	0	0.094692	Reg6	4	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	12.42906	Reg6	4	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	12.32618	Reg6	4	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	26	2	7.69	0.847	0.9285	1.01	24	92.3	0	0	0	0	1095	Reg6	4	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	26	4	15.4	1.9	4.77	9.36	22	84.6	0	0	0	0	22.41051	Reg6	4	0	0	-
Vinyl Chloride	µg/L	22	0	0	-	-	-	22	100	22	0	0	0	1	NMGSU	4	0	0	-
Vinyl acetate	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	412.4294	Reg6	4	0	0	-
Xylene (Total)	µg/L	10	0	0	-	-	-	10	100	0	0	0	0	10000	MCL	4	0	0	-
Xylene[1,2-]	µg/L	15	0	0	-	-	-	15	100	0	0	0	0	1431.373	Reg6	4	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	15	0	0	-	-	-	15	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=CdV-16-1(i)
2=CdV-16-2(i)r
3=R-25
4=R-26

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-10a Screening Table for Water Canyon Metals in Regional Groundwater Filtered (F) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	µg/L	58	10	17.2	14.8	23.25	153	48	82.8	0	0	0	0	5000	NMGSF	4	0	0	-
Antimony	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	6	MCL	4	0	0	-
Arsenic	µg/L	59	7	11.9	1.6	2.9	8.5	52	88.1	0	0	1	1.69	10	MCL	4	0	1	-
Barium	µg/L	61	61	100	5.3	22.5	260	0	0	0	0	0	0	1000	NMGSF	4	0	0	-
Beryllium	µg/L	61	1	1.64	0.093	0.093	0.093	60	98.4	0	0	0	0	4	MCL	4	0	0	-
Boron	µg/L	61	50	82	7.2	12.25	141	11	18	0	0	0	0	750	NMGSF	4	0	0	-
Cadmium	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	5	MCL	4	0	0	-
Chromium	µg/L	61	22	36.1	1.1	1.75	3.8	39	63.9	0	0	0	0	50	NMGSF	4	0	0	-
Cobalt	µg/L	61	12	19.7	0.612	2.35	6.2	49	80.3	0	0	0	0	50	NMGSF	4	0	0	-
Copper	µg/L	56	0	0	-	-	-	56	100	0	0	0	0	1000	NMGSF	4	0	0	-
Iron	µg/L	61	42	68.9	17.1	173	16100	19	31.1	0	14	17	**27.9**	1000	NMGSF	4	1	2	1
Lead	µg/L	61	5	8.2	0.051	0.12	0.325	56	91.8	0	0	0	0	15	MCL	4	0	0	-
Manganese	µg/L	61	52	85.2	0.647	125.5	3420	9	14.8	0	15	29	**47.5**	200	NMGSF	4	2	3	1, 4
Mercury	µg/L	46	2	4.35	0.056	0.057	0.058	44	95.7	0	0	0	0	2	MCL	4	0	0	-
Molybdenum	µg/L	61	26	42.6	0.499	1.75	16.7	35	57.4	0	0	0	0	1000	NMGSF	4	0	0	-
Nickel	µg/L	61	24	39.3	0.52	1.015	32.8	37	60.7	0	0	0	0	100	MCL	4	0	0	-
Selenium	µg/L	46	1	2.17	6.2	6.2	6.2	45	97.8	0	0	0	0	50	NMGSF	4	0	0	-
Silver	µg/L	61	0	0	-	-	-	61	100	0	0	0	0	50	NMGSF	4	0	0	-
Strontium	µg/L	61	61	100	39.7	57.4	931	0	0	0	0	0	0	21900	Reg6	4	0	0	-
Thallium	µg/L	61	14	23	0.3	0.4295	1.5	47	77	0	0	1	1.64	2	MCL	4	0	1	-
Tin	µg/L	40	0	0	-	-	-	40	100	0	0	0	0	21900	Reg6	4	0	0	-
Uranium	µg/L	57	44	77.2	0.029	0.355	0.71	13	22.8	0	0	0	0	30	NMGSF	4	0	0	-
Vanadium	µg/L	61	32	52.5	0.66	4.5	10.1	29	47.5	0	0	0	0	182.5	Reg6	4	0	0	-
Zinc	µg/L	59	30	50.8	0.96	3.6	65.6	29	49.2	0	0	0	0	10000	NMGSF	4	0	0	-

[a] Screening Standard

Std Type Standard (Source and Name)

MCL EPA Maximum Contaminant Level (MCL)

Reg6 EPA Region 6 Tap Water Screening Level

NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)

1=CdV-R-37-2

2=R-27

3=R-25

4=CdV-R-15-3

Note: Dash = none or no value.

Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-10b
Screening Table for Water Canyon Metals in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Aluminum	µg/L	60	7	11.7	14.7	26.1	39.3	53	88.3	0	0	0	0	36500	Reg6	4	0	0	-
Antimony	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	6	MCL	4	0	0	-
Arsenic	µg/L	61	10	16.4	2	2.935	6.4	51	83.6	0	0	1	1.64	10	MCL	4	0	1	-
Barium	µg/L	63	63	100	9.1	22.4	276	0	0	0	0	0	0	2000	MCL	4	0	0	-
Beryllium	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	4	MCL	4	0	0	-
Boron	µg/L	63	44	69.8	6.2	12.45	330	19	30.2	0	0	0	0	7300	Reg6	4	0	0	-
Cadmium	µg/L	63	1	1.59	0.38	0.38	0.38	62	98.4	0	0	0	0	5	MCL	4	0	0	-
Chromium	µg/L	63	44	69.8	0.58	3.5	28.3	19	30.2	0	0	0	0	100	MCL	4	0	0	-
Cobalt	µg/L	63	8	12.7	1.13	2.1	3	55	87.3	0	0	0	0	730	Reg6	4	0	0	-
Copper	µg/L	57	2	3.51	5.3	12.9	20.5	55	96.5	0	0	0	0	1300	MCL	4	0	0	-
Iron	µg/L	63	53	84.1	17.2	243	17100	10	15.9	0	0	7	**11.1**	25550	Reg6	4	0	1	-
Lead	µg/L	63	13	20.6	0.051	0.085	2.9	50	79.4	0	0	0	0	15	Reg6	4	0	0	-
Manganese	µg/L	63	55	87.3	1.13	132	3300	8	12.7	0	7	8	**12.7**	1703.09	Reg6	4	1	1	1
Mercury	µg/L	48	2	4.17	0.058	0.154	0.25	46	95.8	0	0	0	0	2	NMGSU	4	0	0	-
Molybdenum	µg/L	63	30	47.6	0.53	2.1	17.2	33	52.4	0	0	0	0	182.5	Reg6	4	0	0	-
Nickel	µg/L	63	38	60.3	0.67	3.2	40	25	39.7	0	0	0	0	100	MCL	4	0	0	-
Selenium	µg/L	48	0	0	-	-	-	48	100	0	0	0	0	50	MCL	4	0	0	-
Silver	µg/L	63	0	0	-	-	-	63	100	0	0	0	0	182.5	Reg6	4	0	0	-
Strontium	µg/L	63	63	100	39.3	57	718	0	0	0	0	0	0	21900	Reg6	4	0	0	-
Thallium	µg/L	63	1	1.59	0.72	0.72	0.72	62	98.4	0	0	0	0	2	MCL	4	0	0	-
Tin	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	21900	Reg6	4	0	0	-
Uranium	µg/L	58	45	77.6	0.034	0.316	0.67	13	22.4	0	0	0	0	30	MCL	4	0	0	-
Vanadium	µg/L	63	29	46	0.662	4.5	9.7	34	54	0	0	0	0	182.5	Reg6	4	0	0	-
Zinc	µg/L	61	42	68.9	1.95	6.35	7090	19	31.1	0	0	1	1.64	10950	Reg6	4	0	1	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=CdV-R-37-2
2=R-27
3=R-25
4=CdV-R-15-3

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-10c
Screening Table for Water Canyon General Inorganics in Regional Groundwater Filtered (F) Samples

Constituent		Summary by Sample								Exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)								Locations	(number	(number	D>Std
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	with Data (number)	of locations)	of locations)	Station List[b]
Alkalinity-CO3	µg/L	45	5	11.1	0.769	1.41	2.08	40	88.9	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	60	60	100	49.1	58.3	135	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Alkalinity-HCO3	µg/L	21	21	100	51.9	58.3	135	0	0	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Ammonia as Nitrogen	µg/L	52	29	55.8	0.013	0.113	0.634	23	44.2	0	0	0	0	208.5714	Reg6	4	0	0	-
Bromide	µg/L	60	4	6.67	0.062	0.0775	0.0978	56	93.3	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Calcium	µg/L	61	61	100	8.06	10.4	24.1	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloride	µg/L	60	60	100	1.27	1.565	3.09	0	0	0	0	0	0	250000	NMGSF	4	0	0	-
Cyanide (Total)	µg/L	13	1	7.69	0.00263	0.00263	0.00263	12	92.3	0	0	0	0	200	NMGSF	4	0	0	-
Fluoride	µg/L	60	52	86.7	0.068	0.2155	0.577	8	13.3	0	0	0	0	1600	NMGSF	4	0	0	-
Hardness	µg/L	40	40	100	31	39.2	89.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	µg/L	61	61	100	1.47	2.94	7.21	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	40	27	67.5	0.0176	0.245	0.369	13	32.5	0	0	0	0	10000	NMGSF	4	0	0	-
Oxalate	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Perchlorate	µg/L	27	8	29.6	0.202	0.22	0.238	19	70.4	0	0	0	0	24.5	Reg6	4	0	0	-
Potassium	µg/L	61	61	100	0.964	1.62	2.96	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Silicon Dioxide	µg/L	55	54	98.2	23.6	62.9	69.7	1	1.82	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sodium	µg/L	61	61	100	9.67	11.3	1910	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Specific Conductance	uS/cm	24	24	100	105	122.5	167	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Sulfate	µg/L	60	54	90	0.245	1.475	7.82	6	10	0	0	0	0	600000	NMGSF	4	0	0	-
Total Dissolved Solids	µg/L	24	24	100	76	130	155	0	0	0	0	0	0	1000000	NMGSF	4	0	0	-
Total Kjeldahl Nitrogen	µg/L	60	33	55	0.058	0.227	26.7	27	45	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	57	19	33.3	0.03	0.126	2.78	38	66.7	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
pH	SU	24	24	100	6.25	7.42	8.32	0	0	0	0	24	100	9	NMGSF	4	0	4	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSF   NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=CdV-R-37-2
2=R-27
3=R-25
4=CdV-R-15-3

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-10d
Screening Table for Water Canyon General Inorganics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Calcium	µg/L	63	63	100	8	10.3	23.9	0	0	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chemical Oxygen Demand	µg/L	2	1	50	20	20	20	1	50	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Cyanide (Total)	µg/L	11	0	0	-	-	-	11	100	0	0	0	0	200	MCL	4	0	0	-
Hardness	µg/L	42	42	100	30.8	38.45	89.2	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Magnesium	µg/L	63	63	100	1.34	2.97	7.16	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	10000	MCL	1	0	0	-
Perchlorate	µg/L	78	19	24.4	0.0585	0.262	0.561	59	75.6	0	0	0	0	24.5	Reg6	3	0	0	-
Potassium	µg/L	63	63	100	0.766	1.6	3.03	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Silicon Dioxide	µg/L	39	38	97.4	24.4	60.5	68.3	1	2.56	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Sodium	µg/L	63	63	100	5.74	11.2	20	0	0	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Suspended Sediment Concentration	µg/L	3	0	0	-	-	-	3	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	10	3	30	0.043	0.119	0.413	7	70	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Organic Carbon	µg/L	56	38	67.9	0.243	1.37	8	18	32.1	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	1	1	100	5.01	5.01	5.01	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Total Suspended Solids	µg/L	3	1	33.3	2.8	2.8	2.8	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=CdV-R-37-2
2=R-27
3=R-25
4=CdV-R-15-3

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-10e
Screening Table for Water Canyon Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
2,4-Diamino-6-nitrotoluene	µg/L	37	1	2.7	0.356	0.356	0.356	36	97.3	n/a[c]	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
3,5-dinitroaniline	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acenaphthene	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	365	Reg6	4	0	0	-
Acenaphthylene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Acetone	µg/L	54	7	13	1.4	5.09	22.2	47	87	0	0	0	0	5475	Reg6	4	0	0	-
Acetonitrile	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	124.1	Reg6	4	0	0	-
Acrolein	µg/L	25	0	0	-	-	-	25	100	25	0	0	0	0.041619	Reg6	4	0	0	-
Acrylonitrile	µg/L	33	0	0	-	-	-	33	100	33	0	0	0	1.237239	Reg6	4	0	0	-
Aldrin	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.039548	Reg6	4	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	86	3	3.49	0.142	0.15	0.202	83	96.5	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	86	1	1.16	0.135	0.135	0.135	85	98.8	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Aniline	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	117.9501	Reg6	4	0	0	-
Anthracene	µg/L	33	0	0	-	-	-	33	100	0	0	0	0	1825	Reg6	4	0	0	-
Aroclor-1016	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1221	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1232	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1242	µg/L	12	2	16.7	0.08	0.165	0.25	10	83.3	0	0	1	**8.33**	0.5	MCL	4	0	1	-
Aroclor-1248	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1254	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1260	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Aroclor-1262	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.5	MCL	4	0	0	-
Atrazine	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	3	MCL	4	0	0	-
Azobenzene	µg/L	35	0	0	-	-	-	35	100	35	0	0	0	6.111958	Reg6	4	0	0	-
	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.106717	Reg6	4	0	0	-
	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.373509	Reg6	4	0	0	-
BHC[delta-]	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
BHC[gamma-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.2	MCL	4	0	0	-
Benzene	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Benzidine	µg/L	22	0	0	-	-	-	22	100	22	0	0	0	0.000936	Reg6	3	0	0	-
Benzo(a)anthracene	µg/L	36	1	2.78	0.256	0.256	0.256	35	97.2	35	0	1	2.78	0.295	Reg6	4	0	1	-
Benzo(a)pyrene	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.2	MCL	4	0	0	-
Benzo(b)fluoranthene	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.294985	Reg6	4	0	0	-
Benzo(g,h,i)perylene	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	2.949853	Reg6	4	0	0	-
Benzoic Acid	µg/L	36	1	2.78	15.1	15.1	15.1	35	97.2	0	0	0	0	146000	Reg6	4	0	0	-
Benzyl Alcohol	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	10950	Reg6	4	0	0	-
Bis(2-chloroethoxy)methane	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.602164	Reg6	4	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	36	6	16.7	1.5	2.15	3.74	30	83.3	30	0	2	**5.56**	6	MCL	4	0	1	-
Bromobenzene	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	23.25201	Reg6	4	0	0	-
Bromochloromethane	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Bromodichloromethane	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	10.69108	Reg6	4	0	0	-
Bromoform	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	85.10321	Reg6	4	0	0	-
Bromomethane	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	8.661017	Reg6	4	0	0	-
Bromophenyl-phenylether[4-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Butanol[1-]	µg/L	6	0	0	-	-	-	6	100	0	0	0	0	3650	Reg6	3	0	0	-

Table B-10e
Screening Table for Water Canyon Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Butanone[2-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	7064.516	Reg6	4	0	0	-
Butylbenzene[n-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzene[sec-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzene[tert-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Butylbenzylphthalate	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	7300	Reg6	4	0	0	-
Carbon Disulfide	μg/L	52	2	3.85	1.61	1.655	1.7	50	96.2	0	0	0	0	1042.857	Reg6	4	0	0	-
Carbon Tetrachloride	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Chlordane[alpha-]	μg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chlordane[gamma-]	μg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloro-1,3-butadiene[2-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	14.31373	Reg6	4	0	0	-
Chloro-1-propene[3-]	μg/L	32	0	0	-	-	-	32	100	0	0	0	0	1825	Reg6	4	0	0	-
Chloro-3-methylphenol[4-]	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloroaniline[4-]	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	146	Reg6	4	0	0	-
Chlorobenzene	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	100	MCL	4	0	0	-
Chlorodibromomethane	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	7.891034	Reg6	4	0	0	-
Chloroethane	μg/L	49	0	0	-	-	-	49	100	0	0	0	0	228.5679	Reg6	4	0	0	-
Chloroethyl vinyl ether[2-]	μg/L	9	0	0	-	-	-	9	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chloroform	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	60	MCL	4	0	0	-
Chloromethane	μg/L	44	1	2.27	0.988	0.988	0.988	43	97.7	0	0	0	0	21.34503	Reg6	4	0	0	-
Chloronaphthalene[2-]	μg/L	35	0	0	-	-	-	35	100	0	0	0	0	486.6667	Reg6	4	0	0	-
Chlorophenol[2-]	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	30.41667	Reg6	4	0	0	-
Chlorophenyl-phenyl[4-] Ether	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chlorotoluene[2-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	121.6667	Reg6	4	0	0	-
Chlorotoluene[4-]	μg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Chrysene	μg/L	35	1	2.86	0.224	0.224	0.224	34	97.1	34	1	1	2.86	0.2	MCL	4	1	1	1
DB[2,4-]	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	292	Reg6	4	0	0	-
DDD[4,4'-]	μg/L	12	0	0	-	-	-	12	100	0	0	0	0	2.801314	Reg6	4	0	0	-
DDE[4,4'-]	μg/L	12	0	0	-	-	-	12	100	0	0	0	0	1.977398	Reg6	4	0	0	-
DDT[4,4'-]	μg/L	12	0	0	-	-	-	12	100	0	0	0	0	1.977398	Reg6	4	0	0	-
DNX	μg/L	12	1	8.33	2.4	2.4	2.4	11	91.7	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
D[2,4-]	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	70	MCL	4	0	0	-
Dalapon	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	200	MCL	4	0	0	-
Di-n-butylphthalate	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	3650	Reg6	4	0	0	-
Di-n-octylphthalate	μg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dibenz(a,h)anthracene	μg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.029499	Reg6	4	0	0	-
Dibenzofuran	μg/L	35	0	0	-	-	-	35	100	2	0	0	0	12.16667	Reg6	4	0	0	-
Dibromo-3-Chloropropane[1,2-]	μg/L	54	0	0	-	-	-	54	100	54	0	0	0	0.2	MCL	4	0	0	-
Dibromoethane[1,2-]	μg/L	54	0	0	-	-	-	54	100	54	0	0	0	0.05	MCL	4	0	0	-
Dibromomethane	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Dicamba	μg/L	11	0	0	-	-	-	11	100	0	0	0	0	1095	Reg6	4	0	0	-
Dichlorobenzene[1,2-]	μg/L	90	0	0	-	-	-	90	100	0	0	0	0	600	MCL	4	0	0	-
Dichlorobenzene[1,3-]	μg/L	90	0	0	-	-	-	90	100	0	0	0	0	600	MCL	4	0	0	-
Dichlorobenzene[1,4-]	μg/L	90	0	0	-	-	-	90	100	0	0	0	0	75	MCL	4	0	0	-
Dichlorobenzidine[3,3'-]	μg/L	35	0	0	-	-	-	35	100	35	0	0	0	1.494034	Reg6	4	0	0	-
Dichlorodifluoromethane	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	394.5946	Reg6	4	0	0	-
Dichloroethane[1,1-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	25	NMGSU	4	0	0	-
Dichloroethane[1,2-]	μg/L	54	1	1.85	0.49	0.49	0.49	53	98.1	0	0	0	0	5	MCL	4	0	0	-
Dichloroethene[1,1-]	μg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	NMGSU	4	0	0	-

Table B-10e
Screening Table for Water Canyon Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	
Dichloroethene[cis-1,2-]	µg/L	53	0	0	-	-	-	53	100	0	0	0	0	70	MCL	4	0	0	-
Dichloroethene[trans-1,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	100	MCL	4	0	0	-
Dichlorophenol[2,4-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	109.5	Reg6	4	0	0	-
Dichloropropane[1,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Dichloropropane[1,3-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichloropropene[cis/trans-1,3-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	6.709735	Reg6	1	0	0	-
Dichloropropene[trans-1,3-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dichlorprop	µg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dieldrin	µg/L	12	0	0	-	-	-	12	100	8	0	0	0	0.04202	Reg6	4	0	0	-
Diesel Range Organics	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Diethyl Ether	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Diethylphthalate	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	29200	Reg6	4	0	0	-
Dimethyl Phthalate	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	365000	Reg6	4	0	0	-
Dimethylphenol[2,4-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	730	Reg6	4	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	3.65	Reg6	4	0	0	-
Dinitrophenol[2,4-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	73	Reg6	4	0	0	-
Dinitrotoluene[2,4-]	µg/L	122	0	0	-	-	-	122	100	0	0	0	0	73	Reg6	4	0	0	-
Dinitrotoluene[2,6-]	µg/L	122	0	0	-	-	-	122	100	0	0	0	0	36.5	Reg6	4	0	0	-
Dinoseb	µg/L	37	0	0	-	-	-	37	100	26	0	0	0	7	MCL	4	0	0	-
Dioxane[1,4-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	61.11958	Reg6	4	0	0	-
Diphenylamine	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	912.5	Reg6	4	0	0	-
Endosulfan I	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Endosulfan II	µg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Endosulfan Sulfate	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Endrin	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	2	MCL	4	0	0	-
Endrin Aldehyde	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Endrin Ketone	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Ethyl Methacrylate	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	547.5	Reg6	4	0	0	-
Ethylbenzene	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	700	MCL	4	0	0	-
Fluoranthene	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	1460	Reg6	4	0	0	-
Fluorene	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	243.3333	Reg6	4	0	0	-
HMX	µg/L	86	2	2.33	0.193	0.2545	0.316	84	97.7	0	0	0	0	1825	Reg6	4	0	0	-
Heptachlor	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.4	MCL	4	0	0	-
Heptachlor Epoxide	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	0.2	MCL	4	0	0	-
Hexachlorobenzene	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	1	MCL	4	0	0	-
Hexachlorobutadiene	µg/L	69	0	0	-	-	-	69	100	36	0	0	0	8.619427	Reg6	4	0	0	-
Hexachlorocyclopentadiene	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	50	MCL	4	0	0	-
Hexachloroethane	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	48.02252	Reg6	4	0	0	-
Hexanone[2-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.294985	Reg6	4	0	0	-
Iodomethane	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Isophorone	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	707.7004	Reg6	4	0	0	-
Isopropylbenzene	µg/L	54	6	11.1	0.403	0.545	0.69	48	88.9	0	0	0	0	658.1967	Reg6	4	0	0	-
Isopropyltoluene[4-]	µg/L	54	0	0	-	-	-	54	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-

Table B-10e
Screening Table for Water Canyon Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
MCPA	µg/L	11	0	0	-	-	-	11	100	11	0	0	0	18.25	Reg6	4	0	0	-
MCPP	µg/L	11	0	0	-	-	-	11	100	11	0	0	0	36.5	Reg6	4	0	0	-
MNX	µg/L	12	1	8.33	0.71	0.71	0.71	11	91.7	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methacrylonitrile	µg/L	32	0	0	-	-	-	32	100	32	0	0	0	1.042857	Reg6	4	0	0	-
Methoxychlor[4,4'-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	40	MCL	4	0	0	-
Methyl Methacrylate	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	1419.444	Reg6	4	0	0	-
Methyl tert-Butyl Ether	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	370.8305	Reg6	4	0	0	-
Methyl-1-propanol[2-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	1825	Reg6	4	0	0	-
Methyl-2-pentanone[4-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	1990.909	Reg6	4	0	0	-
Methylene Chloride	µg/L	54	1	1.85	2.97	2.97	2.97	53	98.1	53	0	1	1.85	5	MCL	4	0	1	-
Methylnaphthalene[1-]	µg/L	26	0	0	-	-	-	26	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylnaphthalene[2-]	µg/L	35	0	0	-	-	-	35	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[2-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	1825	Reg6	4	0	0	-
Methylphenol[3-,4-]	µg/L	26	0	0	-	-	-	26	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[4-]	µg/L	10	0	0	-	-	-	10	100	0	0	0	0	182.5	Reg6	3	0	0	-
Methylpyridine[2-]	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Naphthalene	µg/L	66	1	1.52	0.257	0.257	0.257	65	98.5	0	0	0	0	30	NMGSU	4	0	0	-
Nitroaniline[2-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	109.5	Reg6	4	0	0	-
Nitroaniline[3-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitroaniline[4-]	µg/L	34	0	0	-	-	-	34	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrobenzene	µg/L	122	0	0	-	-	-	122	100	36	0	0	0	3.395349	Reg6	4	0	0	-
Nitroglycerin	µg/L	41	0	0	-	-	-	41	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Nitrophenol[2-]	µg/L	36	0	0	-	-	-	36	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Nitrophenol[4-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	292	Reg6	4	0	0	-
Nitroso-di-n-butylamine[N-]	µg/L	25	0	0	-	-	-	25	100	25	0	0	0	0.122685	Reg6	4	0	0	-
Nitroso-di-n-propylamine[N-]	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	0.096045	Reg6	4	0	0	-
Nitrosodiethylamine[N-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.001436	Reg6	4	0	0	-
Nitrosodimethylamine[N-]	µg/L	35	0	0	-	-	-	35	100	35	0	0	0	0.004222	Reg6	4	0	0	-
Nitrosopyrrolidine[N-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	0.32015	Reg6	4	0	0	-
Nitrotoluene[2-]	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	2.92311	Reg6	4	0	0	-
Nitrotoluene[3-]	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	121.6667	Reg6	4	0	0	-
Nitrotoluene[4-]	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	39.54796	Reg6	4	0	0	-
Oxybis(1-chloropropane)[2,2'-]	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	9.536393	Reg6	4	0	0	-
PETN	µg/L	82	0	0	-	-	-	82	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Pentachlorobenzene	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	29.2	Reg6	4	0	0	-
Pentachlorophenol	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	1	MCL	4	0	0	-
Phenanthrene	µg/L	33	1	3.03	0.205	0.205	0.205	32	97	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Phenol	µg/L	36	0	0	-	-	-	36	100	36	0	0	0	5	NMGSU	4	0	0	-
Propionitrile	µg/L	32	0	0	-	-	-	32	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Propylbenzene[1-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	60.83333	Reg6	4	0	0	-
Pyrene	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	182.5	Reg6	4	0	0	-
Pyridine	µg/L	1	0	0	-	-	-	1	100	0	0	0	0	36.5	Reg6	1	0	0	-
RDX	µg/L	86	4	4.65	0.134	0.171	0.593	82	95.3	0	0	0	0	6.111958	Reg6	4	0	0	-
Styrene	µg/L	54	2	3.7	0.69	0.715	0.74	52	96.3	0	0	0	0	100	MCL	4	0	0	-
TATB	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
TNX	µg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
TP[2,4,5-]	µg/L	11	0	0	-	-	-	11	100	0	0	0	0	50	MCL	4	0	0	-
T[2,4,5-]	µg/L	11	0	0	-	-	-	11	100	0	0	0	0	365	Reg6	4	0	0	-

Table B-10e
Screening Table for Water Canyon Organics in Regional Groundwater Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		Exceedances of Standard (Std)						Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Tetrachlorobenzene[1,2,4,5-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	3.00E-05	MCL	4	0	0	-
Tetrachloroethane[1,1,1,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	25.49549	Reg6	4	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	10	NMGSU	4	0	0	-
Tetrachloroethene	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	26	0	0	-	-	-	26	100	26	0	0	0	5	MCL	4	0	0	-
Tetryl	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	146	Reg6	4	0	0	-
Toluene	µg/L	54	3	5.56	1.03	1.22	2.4	51	94.4	0	0	0	0	750	NMGSU	4	0	0	-
Toxaphene (Technical Grade)	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	3	MCL	4	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	21	0	0	-	-	-	21	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	54	2	3.7	1.4	1.45	1.5	52	96.3	0	0	0	0	59179.86	Reg6	4	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	29	0	0	-	-	-	29	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	68	0	0	-	-	-	68	100	0	0	0	0	70	MCL	4	0	0	-
Trichloroethane[1,1,1-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	60	NMGSU	4	0	0	-
Trichloroethane[1,1,2-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Trichloroethene	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Trichlorofluoromethane	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	5	MCL	4	0	0	-
Trichlorophenol[2,4,5-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	3650	Reg6	4	0	0	-
Trichlorophenol[2,4,6-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	61.11958	Reg6	4	0	0	-
Trichloropropane[1,2,3-]	µg/L	54	0	0	-	-	-	54	100	54	0	0	0	0.094692	Reg6	4	0	0	-
Trichlorotrifluoroethane	µg/L	1	0	0	-	-	-	1	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Trimethylbenzene[1,2,4-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	12.42906	Reg6	4	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	54	0	0	-	-	-	54	100	0	0	0	0	12.32618	Reg6	4	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	86	0	0	-	-	-	86	100	0	0	0	0	1095	Reg6	4	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	86	2	2.33	0.121	0.1455	0.17	84	97.7	0	0	0	0	22.41051	Reg6	4	0	0	-
Vinyl Chloride	µg/L	54	0	0	-	-	-	54	100	54	0	0	0	1	NMGSU	4	0	0	-
Vinyl acetate	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	412.4294	Reg6	4	0	0	-
Xylene (Total)	µg/L	22	0	0	-	-	-	22	100	0	0	0	0	10000	MCL	3	0	0	-
Xylene[1,2-]	µg/L	35	0	0	-	-	-	35	100	0	0	0	0	1431.373	Reg6	4	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	35	1	2.86	0.559	0.559	0.559	34	97.1	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSF   NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=CdV-R-37-2
2=R-27
3=R-25
4=CdV-R-15-3

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-11a Screening Table for Water Canyon Metals in Springs Filtered (F) Samples

Constituent		Summary by Sample								exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	µg/L	37	34	91.9	33.7	677.5	6270	3	8.11	0	1	8	**21.6**	5000	NMGSF	6	1	5	6
Antimony	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	6	MCL	6	0	0	-
Arsenic	µg/L	37	0	0	-	-	-	37	100	2	0	0	0	10	MCL	6	0	0	-
Barium	µg/L	37	37	100	12.8	192	656	0	0	0	0	2	**5.41**	1000	NMGSF	6	0	1	-
Beryllium	µg/L	37	6	16.2	0.08	0.105	0.19	31	83.8	0	0	0	0	4	MCL	6	0	0	-
Boron	µg/L	23	22	95.7	12.7	22.9	1760	1	4.35	0	6	6	**26.1**	750	NMGSF	6	1	1	7
Cadmium	µg/L	37	11	29.7	0.042	0.137	2.7	26	70.3	0	0	1	2.7	5	MCL	6	0	1	-
Chromium	µg/L	37	25	67.6	0.71	1.3	3.4	12	32.4	0	0	0	0	50	NMGSF	6	0	0	-
Cobalt	µg/L	37	14	37.8	0.67	2.15	9.2	23	62.2	0	0	0	0	50	NMGSF	6	0	0	-
Copper	µg/L	36	9	25	1.87	3.4	10.1	27	75	0	0	0	0	1000	NMGSF	6	0	0	-
Iron	µg/L	37	33	89.2	14.6	400	3780	4	10.8	0	9	13	**35.1**	1000	NMGSF	6	5	5	2, 4, 5, 6, 7
Lead	µg/L	37	18	48.6	0.085	0.583	2.6	19	51.4	0	0	0	0	15	MCL	6	0	0	-
Manganese	µg/L	37	31	83.8	1.7	8	1450	6	16.2	0	3	5	**13.5**	200	NMGSF	6	2	2	4, 6
Mercury	µg/L	37	2	5.41	0.067	0.1535	0.24	35	94.6	0	0	0	0	2	MCL	6	0	0	-
Molybdenum	µg/L	23	8	34.8	2.1	3.1	4.4	15	65.2	0	0	0	0	1000	NMGSF	6	0	0	-
Nickel	µg/L	37	29	78.4	0.87	1.6	5.6	8	21.6	0	0	0	0	100	MCL	6	0	0	-
Selenium	µg/L	37	2	5.41	3.7	4.15	4.6	35	94.6	0	0	0	0	50	NMGSF	6	0	0	-
Silver	µg/L	37	2	5.41	0.23	0.365	0.5	35	94.6	0	0	0	0	50	NMGSF	6	0	0	-
Strontium	µg/L	23	23	100	39.9	115	148	0	0	0	0	0	0	21900	Reg6	6	0	0	-
Thallium	µg/L	37	12	32.4	0.02	0.062	0.66	25	67.6	0	0	0	0	2	MCL	6	0	0	-
Tin	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	21900	Reg6	6	0	0	-
Uranium	µg/L	30	23	76.7	0.065	0.31	1.7	7	23.3	0	0	0	0	30	NMGSF	6	0	0	-
Vanadium	µg/L	37	35	94.6	1.5	3.1	8.2	2	5.41	0	0	0	0	182.5	Reg6	6	0	0	-
Zinc	µg/L	37	20	54.1	1.1	3.75	30.2	17	45.9	0	0	0	0	10000	NMGSF	6	0	0	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=Water Canyon Gallery
2=Burning Ground Spring
3=CDV-5.0 SPRING
4=Peter Spring
5=SWSC Spring
6=Fish Ladder Spring
7=Martin Spring

Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Table B-11b
Screening Table for Water Canyon Metals in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample												Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)		exceedances of Standard (Std)									
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Aluminum	μg/L	37	36	97.3	43.1	1130	14900	1	2.7	0	0	0	0	36500	Reg6	6	0	0	-
Antimony	μg/L	36	2	5.56	0.85	7.625	14.4	34	94.4	0	1	1	2.78	6	MCL	6	1	1	5
Arsenic	μg/L	37	1	2.7	1.8	1.8	1.8	36	97.3	2	0	0	0	10	MCL	6	0	0	-
Barium	μg/L	37	37	100	14.3	183	1670	0	0	0	0	1	2.7	2000	MCL	6	0	1	-
Beryllium	μg/L	37	6	16.2	0.125	0.2065	0.28	31	83.8	0	0	0	0	4	MCL	6	0	0	-
Boron	μg/L	23	22	95.7	13.2	22.7	1740	1	4.35	0	0	0	0	7300	Reg6	6	0	0	-
Cadmium	μg/L	37	10	27	0.041	0.1185	2.3	27	73	0	0	0	0	5	MCL	6	0	0	-
Chromium	μg/L	37	29	78.4	0.93	2	7.5	8	21.6	0	0	0	0	100	MCL	6	0	0	-
Cobalt	μg/L	37	3	8.11	0.589	1.3	8.4	34	91.9	0	0	0	0	730	Reg6	6	0	0	-
Copper	μg/L	35	11	31.4	1.9	3.3	16.3	24	68.6	0	0	0	0	1300	MCL	5	0	0	-
Iron	μg/L	37	34	91.9	33.6	745	12400	3	8.11	0	0	0	0	25550	Reg6	6	0	0	-
Lead	μg/L	37	24	64.9	0.075	1.18	20	13	35.1	0	1	1	2.7	15	Reg6	6	1	1	4
Manganese	μg/L	37	28	75.7	2.1	10.3	2800	9	24.3	0	1	1	2.7	1703.09	Reg6	6	1	1	4
Mercury	μg/L	37	2	5.41	0.08	0.11	0.14	35	94.6	0	0	0	0	2	NMGSU	6	0	0	-
Molybdenum	μg/L	23	8	34.8	2.5	3.4	3.9	15	65.2	0	0	0	0	182.5	Reg6	6	0	0	-
Nickel	μg/L	37	28	75.7	0.91	2	13.8	9	24.3	0	0	0	0	100	MCL	6	0	0	-
Selenium	μg/L	37	2	5.41	2.98	3.685	4.39	35	94.6	0	0	0	0	50	MCL	6	0	0	-
Silver	μg/L	37	7	18.9	0.24	0.39	7.5	30	81.1	0	0	0	0	182.5	Reg6	6	0	0	-
Strontium	μg/L	23	23	100	51.2	121	154	0	0	0	0	0	0	21900	Reg6	6	0	0	-
Thallium	μg/L	37	9	24.3	0.025	0.111	0.46	28	75.7	0	0	0	0	2	MCL	6	0	0	-
Tin	μg/L	23	0	0	-	-	-	23	100	0	0	0	0	21900	Reg6	6	0	0	-
Uranium	μg/L	30	26	86.7	0.082	0.415	1.9	4	13.3	0	0	0	0	30	MCL	6	0	0	-
Vanadium	μg/L	37	36	97.3	2.1	3.75	21.2	1	2.7	0	0	0	0	182.5	Reg6	6	0	0	-
Zinc	μg/L	37	21	56.8	1.9	6.4	54.4	16	43.2	0	0	0	0	10950	Reg6	6	0	0	-

[a] Screening Standard
Std Type   Standard (Source and Name)
MCL   EPA Maximum Contaminant Level (MCL)
Reg6   EPA Region 6 Tap Water Screening Level
NMGSU   NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=Water Canyon Gallery
2=Burning Ground Spring
3=CDV-5.0 SPRING
4=Peter Spring
5=SWSC Spring
6=Fish Ladder Spring
7=Martin Spring

Note: Dash = none or no value.

Table B-11c
Screening Table for Water Canyon General Inorganics in Springs Filtered (F) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]		Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type				
Alkalinity-CO3	µg/L	4	0	0	-	-	-	4	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	4	4	100	42.9	66.2	104	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Ammonia as Nitrogen	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	208.5714	Reg6	3	0	0	-
Bromide	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Calcium	µg/L	37	37	100	6.55	17.7	30.1	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chloride	µg/L	4	4	100	1.03	24.65	25.7	0	0	0	0	0	0	250000	NMGSF	3	0	0	-
Cyanide (Total)	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	200	NMGSF	3	0	0	-
Fluoride	µg/L	4	4	100	0.12	0.1835	0.581	0	0	0	0	0	0	1600	NMGSF	3	0	0	-
Hardness	µg/L	23	23	100	24.4	65.8	104	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Magnesium	µg/L	37	37	100	1.96	5.25	7.04	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	4	4	100	0.237	0.627	2.15	0	0	0	0	0	0	10000	NMGSF	3	0	0	-
Perchlorate	µg/L	8	4	50	0.192	0.5335	0.547	4	50	0	0	0	0	24.5	Reg6	3	0	0	-
Potassium	µg/L	37	37	100	1.65	3.06	3.74	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Silicon Dioxide	µg/L	15	12	80	37.5	43.25	56.7	3	20	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Sodium	µg/L	37	37	100	6.06	16.7	33.9	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Specific Conductance	µg/L	4	4	100	95.6	232	354	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Sulfate	µg/L	4	4	100	2.38	8.015	14.8	0	0	0	0	0	0	600000	NMGSF	3	0	0	-
Total Dissolved Solids	µg/L	23	23	100	60	166	245	0	0	0	0	0	0	1000000	NMGSF	6	0	0	-
Total Kjeldahl Nitrogen	µg/L	4	1	25	0.235	0.235	0.235	3	75	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
pH	µg/L	4	4	100	6.93	7.26	7.7	0	0	0	0	4	100	9	NMGSF	3	0	3	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSF NMAC 20.6.2, Groundwater Standards (Filtered)

[b] Station List (codes)
1=Water Canyon Gallery
2=Burning Ground Spring
3=CDV-5.0 SPRING
4=Peter Spring
5=SWSC Spring
6=Fish Ladder Spring
7=Martin Spring

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-11d
Screening Table for Water Canyon General Inorganics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample								exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Alkalinity-CO3	µg/L	19	0	0	-	-	-	19	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Alkalinity-CO3+HCO3	µg/L	33	33	100	26.6	63.8	115	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Ammonia as Nitrogen	µg/L	16	0	0	-	-	-	16	100	0	0	0	0	208.5714	Reg6	5	0	0	-
Bromide	µg/L	33	9	27.3	0.088	0.111	0.331	24	72.7	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Calcium	µg/L	37	37	100	7.54	18.4	30	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chloride	µg/L	33	33	100	2.68	18.5	29	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Cyanide (Total)	µg/L	36	4	11.1	0.00266	0.00392	0.00493	32	88.9	0	0	0	0	200	MCL	6	0	0	-
Fluoride	µg/L	33	30	90.9	0.064	0.2035	0.655	3	9.09	0	0	0	0	4000	MCL	5	0	0	-
Hardness	µg/L	23	23	100	29.6	70.7	104	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Magnesium	µg/L	37	37	100	2.36	5.5	7.12	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Nitrate-Nitrite as N	µg/L	33	28	84.8	0.497	1.04	3.72	5	15.2	0	0	0	0	10000	MCL	5	0	0	-
Oxalate	µg/L	14	0	0	-	-	-	14	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Perchlorate	µg/L	52	30	57.7	0.0527	0.6405	0.768	22	42.3	0	0	0	0	24.5	Reg6	5	0	0	-
Potassium	µg/L	37	37	100	1.77	3.17	5.3	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Silicon Dioxide	µg/L	19	16	84.2	39.9	46.6	89.8	3	15.8	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Sodium	µg/L	37	37	100	6.32	16.8	32.7	0	0	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Specific Conductance	µg/L	19	19	100	28.1	200	394	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Sulfate	µg/L	33	33	100	4.89	11.3	20.5	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Suspended Sediment Concentration	µg/L	18	11	61.1	2	6.38	98.2	7	38.9	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Total Kjeldahl Nitrogen	µg/L	21	9	42.9	0.179	0.472	1.23	12	57.1	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Total Organic Carbon	µg/L	4	4	100	1.11	1.455	2.26	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Phosphate as Phosphorus	µg/L	3	1	33.3	0.129	0.129	0.129	2	66.7	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Total Suspended Solids	µg/L	5	3	60	18.2	27.2	76.8	2	40	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
pH	µg/L	19	19	100	6.22	6.96	7.44	0	0	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=Water Canyon Gallery
2=Burning Ground Spring
3=CDV-5.0 SPRING
4=Peter Spring
5=SWSC Spring
6=Fish Ladder Spring
7=Martin Spring

[c] n/a = Not applicable.
Note: Dash = none or no value.

Table B-11e
Screening Table for Water Canyon Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample								exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
2,4-Diamino-6-nitrotoluene	µg/L	23	0	0	-	-	-	23	100	n/a[c]	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
2,6-Diamino-4-nitrotoluene	µg/L	21	1	4.76	0.191	0.191	0.191	20	95.2	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
3,5-dinitroaniline	µg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Acenaphthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	365	Reg6	6	0	0	-
Acenaphthylene	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Acetone	µg/L	37	18	48.6	1.74	3	17.2	19	51.4	0	0	0	0	5475	Reg6	6	0	0	-
Acetonitrile	µg/L	23	2	8.7	7.6	8.4	9.2	21	91.3	0	0	0	0	124.1	Reg6	6	0	0	-
Acrolein	µg/L	18	0	0	-	-	-	18	100	18	0	0	0	0.0416	Reg6	6	0	0	-
Acrylonitrile	µg/L	23	0	0	-	-	-	23	100	23	0	0	0	1.2372	Reg6	6	0	0	-
Aldrin	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.0395	Reg6	3	0	0	-
Amino-2,6-dinitrotoluene[4-]	µg/L	36	28	77.8	0.117	0.4415	2.2	8	22.2	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Amino-4,6-dinitrotoluene[2-]	µg/L	36	25	69.4	0.12	0.394	1.93	11	30.6	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Aniline	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	117.9501	Reg6	6	0	0	-
Anthracene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1825	Reg6	6	0	0	-
Aroclor-1016	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1221	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1232	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1242	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1248	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1254	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1260	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Aroclor-1262	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.5	MCL	3	0	0	-
Atrazine	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	3	MCL	5	0	0	-
Azobenzene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	6.1120	Reg6	6	0	0	-
BHC[alpha-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.1067	Reg6	3	0	0	-
BHC[beta-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.3735	Reg6	3	0	0	-
BHC[delta-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
BHC[gamma-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.2	MCL	3	0	0	-
Benzene	µg/L	37	1	2.7	0.45	0.45	0.45	36	97.3	0	0	0	0	5	MCL	6	0	0	-
Benzidine	µg/L	8	0	0	-	-	-	8	100	8	0	0	0	0.0009	Reg6	3	0	0	-
Benzo(a)anthracene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2950	Reg6	6	0	0	-
Benzo(a)pyrene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2	MCL	6	0	0	-
Benzo(b)fluoranthene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2950	Reg6	6	0	0	-
Benzo(g,h,i)perylene	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Benzo(k)fluoranthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	2.9499	Reg6	6	0	0	-
Benzoic Acid	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	146000	Reg6	5	0	0	-
Benzyl Alcohol	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	10950	Reg6	6	0	0	-
Bis(2-chloroethoxy)methane	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Bis(2-chloroethyl)ether	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.6022	Reg6	6	0	0	-
Bis(2-ethylhexyl)phthalate	µg/L	19	0	0	-	-	-	19	100	18	0	0	0	6	MCL	6	0	0	-
Bromobenzene	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	23.2520	Reg6	6	0	0	-
Bromochloromethane	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Bromodichloromethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	10.6911	Reg6	6	0	0	-
Bromoform	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	85.1032	Reg6	6	0	0	-
Bromomethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	8.6610	Reg6	6	0	0	-
Bromophenyl-phenylether[4-]	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Butanol[1-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	3650	Reg6	1	0	0	-
Butanone[2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	7065	Reg6	6	0	0	-
Butylbenzene[n-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60.8333	Reg6	6	0	0	-
Butylbenzene[sec-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60.8333	Reg6	6	0	0	-
Butylbenzene[tert-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60.8333	Reg6	6	0	0	-
Butylbenzylphthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	7300	Reg6	6	0	0	-
Carbon Disulfide	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	1042.8571	Reg6	6	0	0	-
Carbon Tetrachloride	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	MCL	6	0	0	-

Table B-11e
Screening Table for Water Canyon Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample								exceedances of Standard (Std)				Screening Standard[a]		Location Summary			
			Detects (D)					Nondetects (ND)											
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Chlordane[alpha-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chlordane[gamma-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloro-1,3-butadiene[2-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	14.3137	Reg6	6	0	0	-
Chloro-1-propene[3-]	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	1825	Reg6	6	0	0	-
Chloro-3-methylphenol[4-]	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Chloroaniline[4-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	146	Reg6	6	0	0	-
Chlorobenzene	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	100	MCL	6	0	0	-
Chlorodibromomethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	7.8910	Reg6	6	0	0	-
Chloroethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	228.5679	Reg6	6	0	0	-
Chloroethyl vinyl ether[2-]	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Chloroform	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60	MCL	6	0	0	-
Chloromethane	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	21.3450	Reg6	6	0	0	-
Chloronaphthalene[2-]	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	486.6667	Reg6	6	0	0	-
Chlorophenol[2-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	30.4167	Reg6	5	0	0	-
Chlorophenyl-phenyl[4-] Ether	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chlorotoluene[2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	121.6667	Reg6	6	0	0	-
Chlorotoluene[4-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Chrysene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2	MCL	6	0	0	-
DB[2,4-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	292	Reg6	3	0	0	-
DDD[4,4'-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	2.8013139	Reg6	3	0	0	-
DDE[4,4'-]	µg/L	4	1	25	0.0076	0.0076	0.0076	3	75	0	0	0	0	1.9773981	Reg6	3	0	0	-
DDT[4,4'-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	1.9773981	Reg6	3	0	0	-
DNX	µg/L	13	5	38.5	0.21	0.26	0.28	8	61.5	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
D[2,4-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	70	MCL	3	0	0	-
Dalapon	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	200	MCL	3	0	0	-
Di-n-butylphthalate	µg/L	19	1	5.26	1.4	1.4	1.4	18	94.7	0	0	0	0	3650	Reg6	6	0	0	-
Di-n-octylphthalate	µg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dibenz(a,h)anthracene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.0294985	Reg6	6	0	0	-
Dibenzofuran	µg/L	19	0	0	-	-	-	19	100	1	0	0	0	12.166667	Reg6	6	0	0	-
Dibromo-3-Chloropropane[1,2-]	µg/L	37	0	0	-	-	-	37	100	37	0	0	0	0.2	MCL	6	0	0	-
Dibromoethane[1,2-]	µg/L	37	0	0	-	-	-	37	100	37	0	0	0	0.05	MCL	6	0	0	-
Dibromomethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60.833333	Reg6	6	0	0	-
Dicamba	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	1095	Reg6	3	0	0	-
Dichlorobenzene[1,2-]	µg/L	56	0	0	-	-	-	56	100	0	0	0	0	600	MCL	6	0	0	-
Dichlorobenzene[1,3-]	µg/L	56	0	0	-	-	-	56	100	0	0	0	0	600	MCL	6	0	0	-
Dichlorobenzene[1,4-]	µg/L	56	0	0	-	-	-	56	100	0	0	0	0	75	MCL	6	0	0	-
Dichlorobenzidine[3,3'-]	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	1.4940341	Reg6	6	0	0	-
Dichlorodifluoromethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	394.59459	Reg6	6	0	0	-
Dichloroethane[1,1-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	25	NMGSU	6	0	0	-
Dichloroethane[1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	MCL	6	0	0	-
Dichloroethene[1,1-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	NMGSU	6	0	0	-
Dichloroethene[cis-1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	70	MCL	6	0	0	-
Dichloroethene[trans-1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	100	MCL	6	0	0	-
Dichlorophenol[2,4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	109.5	Reg6	5	0	0	-
Dichloropropane[1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	MCL	6	0	0	-
Dichloropropane[1,3-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichloropropane[2,2-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichloropropene[1,1-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichloropropene[cis-1,3-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichloropropene[trans-1,3-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Dichlorprop	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Dieldrin	µg/L	4	0	0	-	-	-	4	100	1	0	0	0	0.0420197	Reg6	3	0	0	-
Diethyl Ether	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Diethylphthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	29200	Reg6	6	0	0	-

Table B-11e
Screening Table for Water Canyon Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]		Locations with Data	D>Std	D>Std/2	D>Std Station
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	(number)	(number of locations)	(number of locations)	List[b]
Dimethyl Phthalate	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	365000	Reg6	6	0	0	-
Dimethylphenol[2,4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	730	Reg6	5	0	0	-
Dinitro-2-methylphenol[4,6-]	µg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Dinitrobenzene[1,3-]	µg/L	36	0	0	-	-	-	36	100	0	0	0	0	3.65	Reg6	6	0	0	-
Dinitrophenol[2,4-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	73	Reg6	5	0	0	-
Dinitrotoluene[2,4-]	µg/L	55	1	1.82	0.118	0.118	0.118	54	98.2	0	0	0	0	73	Reg6	6	0	0	-
Dinitrotoluene[2,6-]	µg/L	55	1	1.82	0.09	0.09	0.09	54	98.2	0	0	0	0	36.5	Reg6	6	0	0	-
Dinoseb	µg/L	15	0	0	-	-	-	15	100	11	0	0	0	7	MCL	5	0	0	-
Dioxane[1,4-]	µg/L	12	0	0	-	-	-	12	100	0	0	0	0	61.119577	Reg6	6	0	0	-
Diphenylamine	µg/L	18	0	0	-	-	-	18	100	0	0	0	0	912.5	Reg6	6	0	0	-
Endosulfan I	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endosulfan II	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	-
Endosulfan Sulfate	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	2	MCL	3	0	0	-
Endrin Aldehyde	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Endrin Ketone	µg/L	4	0	0	-	-	-	4	100	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	-
Ethyl Methacrylate	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	547.5	Reg6	6	0	0	-
Ethylbenzene	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	700	MCL	6	0	0	-
Fluoranthene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	1460	Reg6	6	0	0	-
Fluorene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	243.33333	Reg6	6	0	0	-
HMX	µg/L	37	34	91.9	0.243	2.04	36.6	3	8.11	0	0	0	0	1825	Reg6	6	0	0	-
Heptachlor	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.4	MCL	3	0	0	-
Heptachlor Epoxide	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	0.2	MCL	3	0	0	-
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	µg/L	2	2	100	8.83E-07	9.27E-07	9.71E-07	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzodioxins (Total)	µg/L	2	2	100	9.71E-07	1.52E-06	2.07E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Heptachlorodibenzofurans (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorobenzene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	1	MCL	6	0	0	-
Hexachlorobutadiene	µg/L	42	0	0	-	-	-	42	100	19	0	0	0	8.6194275	Reg6	6	0	0	-
Hexachlorocyclopentadiene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	50	MCL	6	0	0	-
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	0.0001084	Reg6	1	0	0	-
Hexachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[1,2,3,7,8,9-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofuran[2,3,4,6,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachlorodibenzofurans (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Hexachloroethane	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	48.022525	Reg6	6	0	0	-
Hexanone[2-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Indeno(1,2,3-cd)pyrene	µg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.2949853	Reg6	6	0	0	-
Iodomethane	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Isophorone	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	707.70036	Reg6	6	0	0	-
Isopropylbenzene	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	658.19672	Reg6	6	0	0	-
Isopropyltoluene[4-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
MCPA	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	18.25	Reg6	3	0	0	-
MCPP	µg/L	4	0	0	-	-	-	4	100	4	0	0	0	36.5	Reg6	3	0	0	-
MNX	µg/L	13	8	61.5	0.24	0.26	0.56	5	38.5	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methacrylonitrile	µg/L	23	0	0	-	-	-	23	100	23	0	0	0	1.0428571	Reg6	6	0	0	-
Methoxychlor[4,4'-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	40	MCL	3	0	0	-
Methyl Methacrylate	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	1419.4444	Reg6	6	0	0	-
Methyl tert-Butyl Ether	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	370.83052	Reg6	3	0	0	-

Table B-11e
Screening Table for Water Canyon Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]		Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type				
Methyl-1-propanol[2-]	μg/L	23	0	0	-	-	-	23	100	0	0	0	0	1825	Reg6	6	0	0	-
Methyl-2-pentanone[4-]	μg/L	37	0	0	-	-	-	37	100	0	0	0	0	1990.9091	Reg6	6	0	0	-
Methylene Chloride	μg/L	37	1	2.7	3.12	3.12	3.12	36	97.3	35	0	1	2.7	5	MCL	6	0	1	-
Methylnaphthalene[1-]	μg/L	12	0	0	-	-	-	12	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Methylnaphthalene[2-]	μg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Methylphenol[2-]	μg/L	18	0	0	-	-	-	18	100	0	0	0	0	1825	Reg6	5	0	0	-
Methylphenol[3-,4-]	μg/L	11	0	0	-	-	-	11	100	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
Methylphenol[4-]	μg/L	7	0	0	-	-	-	7	100	0	0	0	0	182.5	Reg6	3	0	0	-
Naphthalene	μg/L	42	1	2.38	1	1	1	41	97.6	0	0	0	0	30	NMGSU	6	0	0	-
Nitroaniline[2-]	μg/L	19	0	0	-	-	-	19	100	0	0	0	0	109.5	Reg6	6	0	0	-
Nitroaniline[3-]	μg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Nitroaniline[4-]	μg/L	19	0	0	-	-	-	19	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Nitrobenzene	μg/L	55	0	0	-	-	-	55	100	19	0	0	0	3.3953488	Reg6	6	0	0	-
Nitrophenol[2-]	μg/L	17	0	0	-	-	-	17	100	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	-
Nitrophenol[4-]	μg/L	17	0	0	-	-	-	17	100	0	0	0	0	292	Reg6	5	0	0	-
Nitroso-di-n-butylamine[N-]	μg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.1226854	Reg6	5	0	0	-
Nitroso-di-n-propylamine[N-]	μg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.096045	Reg6	6	0	0	-
Nitrosodiethylamine[N-]	μg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.0014356	Reg6	5	0	0	-
Nitrosodimethylamine[N-]	μg/L	19	0	0	-	-	-	19	100	19	0	0	0	0.0042223	Reg6	6	0	0	-
Nitrosodiphenylamine[N-]	μg/L	1	0	0	-	-	-	1	100	0	0	0	0	137.20721	Reg6	1	0	0	-
Nitrosopyrrolidine[N-]	μg/L	12	0	0	-	-	-	12	100	12	0	0	0	0.3201502	Reg6	5	0	0	-
Nitrotoluene[2-]	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	2.9231102	Reg6	6	0	0	-
Nitrotoluene[3-]	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	121.66667	Reg6	6	0	0	-
Nitrotoluene[4-]	μg/L	36	0	0	-	-	-	36	100	0	0	0	0	39.547961	Reg6	6	0	0	-
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	μg/L	2	2	100	3.79E-06	3.89E-06	3.98E-06	0	0	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Oxybis(1-chloropropane)[2,2'-]	μg/L	19	0	0	-	-	-	19	100	19	0	0	0	9.5363932	Reg6	6	0	0	-
PETN	μg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Pentachlorobenzene	μg/L	12	0	0	-	-	-	12	100	0	0	0	0	29.2	Reg6	5	0	0	-
Pentachlorodibenzodioxin[1,2,3,7,8-]	μg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-

Table B-11e
Screening Table for Water Canyon Organics in Springs Unfiltered (UF) Samples

Constituent		Summary by Sample														Location Summary			
			Detects (D)					Nondetects (ND)		exceedances of Standard (Std)				Screening Standard[a]					
Metals	Units	Total	Number	Rate (%)	Min.	Median	Max.	Number	Rate (%)	ND>Std (number)	D>Std (number)	D>Std/2 (number)	D>Std/2 (rate, %)	Level	Std Type	Locations with Data (number)	D>Std (number of locations)	D>Std/2 (number of locations)	D>Std Station List[b]
Pentachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[1,2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofuran[2,3,4,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorodibenzofurans (Totals)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Pentachlorophenol	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	1	MCL	5	0	0	-
Phenanthrene	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Phenol	µg/L	17	0	0	-	-	-	17	100	17	0	0	0	5	NMGSU	5	0	0	-
Propionitrile	µg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Propylbenzene[1-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60.833333	Reg6	6	0	0	-
Pyrene	µg/L	19	0	0	-	-	-	19	100	0	0	0	0	182.5	Reg6	6	0	0	-
Pyridine	µg/L	7	0	0	-	-	-	7	100	0	0	0	0	36.5	Reg6	3	0	0	-
RDX	µg/L	37	33	89.2	0.158	20.4	181	4	10.8	0	28	30	**81.1**	6.1119577	Reg6	6	3	3	2, 5, 7
Styrene	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	100	MCL	6	0	0	-
TATB	µg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
TNX	µg/L	13	8	61.5	0.2	0.345	0.42	5	38.5	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	-
TP[2,4,5-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	50	MCL	3	0	0	-
T[2,4,5-]	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	365	Reg6	3	0	0	-
Tetrachlorobenzene[1,2,4,5-]	µg/L	12	0	0	-	-	-	12	100	12	0	0	0	3.00E-05	MCL	5	0	0	-
Tetrachlorodibenzodioxin[2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	0	0	0	0	3.00E-05	MCL	1	0	0	-
Tetrachlorodibenzodioxins (Total)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofuran[2,3,7,8-]	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachlorodibenzofurans (Totals)	µg/L	2	0	0	-	-	-	2	100	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	-
Tetrachloroethane[1,1,1,2-]	µg/L	32	0	0	-	-	-	32	100	0	0	0	0	25.495491	Reg6	6	0	0	-
Tetrachloroethane[1,1,2,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	10	NMGSU	6	0	0	-
Tetrachloroethene	µg/L	37	23	62.2	0.268	1.5	1.83	14	37.8	0	0	0	0	5	MCL	6	0	0	-
Tetrachlorophenol[2,3,4,6-]	µg/L	11	0	0	-	-	-	11	100	11	0	0	0	5	MCL	4	0	0	-
Tetryl	µg/L	26	0	0	-	-	-	26	100	0	0	0	0	146	Reg6	6	0	0	-
Toluene	µg/L	37	2	5.41	0.281	0.2965	0.312	35	94.6	0	0	0	0	750	NMGSU	6	0	0	-
Toxaphene (Technical Grade)	µg/L	4	0	0	-	-	-	4	100	0	0	0	0	3	MCL	3	0	0	-
Tri-o-cresylphosphate (TOCP)	µg/L	18	0	0	-	-	-	18	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Trichloro-1,2,2-trifluoroethane[1,1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	59179.857	Reg6	6	0	0	-
Trichlorobenzene[1,2,3-]	µg/L	23	0	0	-	-	-	23	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-
Trichlorobenzene[1,2,4-]	µg/L	42	0	0	-	-	-	42	100	0	0	0	0	70	MCL	6	0	0	-
Trichloroethane[1,1,1-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	60	NMGSU	6	0	0	-
Trichloroethane[1,1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	MCL	6	0	0	-
Trichloroethene	µg/L	37	26	70.3	0.275	1.61	2.2	11	29.7	0	0	0	0	5	MCL	6	0	0	-
Trichlorofluoromethane	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	5	MCL	6	0	0	-
Trichlorophenol[2,4,5-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	3650	Reg6	5	0	0	-
Trichlorophenol[2,4,6-]	µg/L	17	0	0	-	-	-	17	100	0	0	0	0	61.119577	Reg6	5	0	0	-
Trichloropropane[1,2,3-]	µg/L	37	0	0	-	-	-	37	100	37	0	0	0	0.0946924	Reg6	6	0	0	-
Trimethylbenzene[1,2,4-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	12.429058	Reg6	6	0	0	-
Trimethylbenzene[1,3,5-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	12.326182	Reg6	6	0	0	-
Trinitrobenzene[1,3,5-]	µg/L	36	18	50	0.118	0.2325	0.852	18	50	0	0	0	0	1095	Reg6	6	0	0	-
Trinitrotoluene[2,4,6-]	µg/L	36	15	41.7	0.0874	0.363	3.41	21	58.3	0	0	0	0	22.410511	Reg6	6	0	0	-
Vinyl Chloride	µg/L	37	0	0	-	-	-	37	100	37	0	0	0	1	NMGSU	6	0	0	-
Vinyl acetate	µg/L	23	0	0	-	-	-	23	100	0	0	0	0	412.42938	Reg6	6	0	0	-
Xylene[1,2-]	µg/L	37	0	0	-	-	-	37	100	0	0	0	0	1431.3725	Reg6	6	0	0	-
Xylene[1,3-]+Xylene[1,4-]	µg/L	37	0	0	-	-	-	37	100	n/a	n/a	n/a	n/a	n/a	n/a	6	n/a	n/a	-

[a] Screening Standard
Std Type Standard (Source and Name)
MCL EPA Maximum Contaminant Level (MCL)
Reg6 EPA Region 6 Tap Water Screening Level
NMGSU NMAC 20.6.2, Groundwater Standards (UnFiltered)

[b] Station List (codes)
1=Water Canyon Gallery
2=Burning Ground Spring
3=CDV-5.0 SPRING
4=Peter Spring
5=SWSC Spring
6=Fish Ladder Spring
7=Martin Spring

[c] n/a = Not applicable.
Note: Dash = none or no value.
Shading = Constitutent equals 1/2 standard greater than or equal to 5% of detects.

Appendix C

Methods, Procedures,
and Investigation-Derived Waste Management

CONTENTS

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C-1 PROCEDURES FOR MEASURING GROUNDWATER LEVELS AND COLLECTING WATER SAMPLES UNDER THE INTERIM PLAN

Procedure Identifier	Procedure Title	Applicability
Measurement of Groundwater Levels		
ENV-DO-202	Manual Groundwater Level Measurements	Obtaining groundwater water-level data
ENV-DO-201	Pressure Transducer Installation, Removal, and Maintenance	Groundwater-level program single screen wells
ENV-WQH SOP-064	Westbay Pressure Transducer Installation, Removal, and Maintenance	Groundwater-level program transducer operation
Collection of Groundwater Samples		
ENV-WQH SOP-048	Groundwater Sampling Using Bladder Pump	Groundwater sampling using bladder pump
ENV-WQH SOP-049	Groundwater Sampling Using Submersible Pumps	Groundwater sampling using a submersible pump
ENV-WQH SOP-050	Groundwater Sampling Using Westbay System	Groundwater sampling using the Westbay MP System
EP-ERSS-SOP-5111	Groundwater Sampling Using BARCAD System	Groundwater sampling using the BARCAD System
EP-ERSS-SOP-5112	Groundwater Sampling Using BASKI System	Groundwater sampling using BASKI System
EP-ERSS-SOP-5113	Groundwater Sampling Using a Bennett Pump	Groundwater sampling using a Bennett Pump
Collection of Base Flow and Spring Samples		
ENV-DO-204	Spring and Surface Water Sampling	Spring and base-flow sampling
ENV-WQH SOP-009	Operation and Maintenance of Stream Gauge Stations	Flow measurement of springs and surface water
Measuring Field Parameters		
ENV-DO-203	Field Water Quality Analyses	Measurement of field parameters
Sample Preparation, Preservation, and Transportation		
ENV-WQH SOP-066	Filtering and Chemical Preservation of Water Samples	Filtering procedures for water samples
ENV-DO-206	Sample Containers and Preservation	Sample container and preservation procedures and tables.
ENV-DO-207	Handling, Packaging, and Transporting Field Samples	Sample packaging and shipping
ENV-WQH QP-028	Creating and Maintaining Chain-of-Custody	Generating an analytical request and maintaining chain-of-custody of samples

C-2 BRIEF DESCRIPTION OF FIELD INVESTIGATION METHODS

Method	Summary
General	The objective is the collection of a "representative" sample of the current groundwater conditions for the well or from a spring and for base-flow samples. To meet this objective, sampling equipment, sampling method, monitoring well operation and maintenance, and sample handling procedures are implemented that are intended not to alter the chemistry of the sample.
Groundwater-Level Measurement Referenced Procedures: • ENV-DO-201, Pressure Transducer Installation, Removal, and Maintenance • ENV-DO-202, Manual Groundwater Level Measurements	• Prior to any site activity, a static water level is determined, using either a manual water-level tape or a pressure transducer. • For manual water levels, the measurement is taken from a permanent reference point. • The depth of water is used to determine purge volumes and in assessing the relationship of the water level to the pump and screen settings. • This information is documented in the Groundwater Sampling Field Sheet.
Groundwater Level Measurements Referenced Procedures: • ENV-DO-201, Pressure Transducer Installation, Removal, and Maintenance • ENV-DO-202, Manual Groundwater Level Measurements • ENV WQH SOP-064.1, Westbay Pressure Transducer Installation, Removal and Maintenance	• There are two types of methods used to collect water data. • Almost all wells in the water-level program will be instrumented with transducer equipment. The equipment is used to periodically measure water levels in individual wells at specified intervals and to record these values in memory for later retrieval. • There are two types of transducer equipment currently used in monitoring wells. ➢ "Compensated" or "gaged" pressure transducers have pressure sensors that are compensated for atmospheric pressure. When using these transducers, calculations of water depth above the transducer exclude atmospheric pressure considerations. Examples of compensated or gaged transducers include the standard In-Situ, Inc. miniTroll and Level-Troll transducers. ➢ The "absolute" or "uncompensated" pressure transducers measure absolute pressure (pounds per square inch absolute]) and are not compensated for atmospheric pressure. Pressure measurements from this type of transducer include atmospheric pressure as a component; therefore, atmospheric pressure must be subtracted from the absolute measurement to determine the pressure due to water. All transducers used with the Westbay MP multiple port monitoring system measure absolute pressure. • The manual measuring of a water level is used to confirm transducer readings and to physically measure the distance from the preestablished measuring point on a well to the water level in a well. An electric water-level meter is used to take a physical measurement. This meter consists of a flat graduated measurement tape attached to a weighted stainless steel probe containing an electrode, which emits an audible and visible signal when contact is made with water. The information collected from a manual water-level measurement is documented on the Groundwater Level Measurement Form.

Method	Summary
Groundwater Sampling Using Submersible Pump Referenced Procedures: • ENV-DO-203, Field Water Quality Analyses. • ENV-DO-206, Sample Containers and Preservation • ENV-WQH SOP-049, Groundwater Sampling Using Submersible Pumps • ENV-SOP-066, Filtering and Chemical Preservation of Water Samples	• Wells to be sampled are equipped with a dedicated electrical submersible pump and discharge line. • All pumps and discharge lines are constructed of stainless steel. • The pumps are set at a sufficient depth below the water level where drawdown during pumping does not allow air to enter the pump; see well Table D-3. • The pump rate during purging is adjusted so that excessive drawdown does not occur. • The discharge measurement will be made using the bucket and stopwatch method or an in-line flow meter. • Purge water is discharged under approved notice of intent (NOI) with New Mexico Environment Department (NMED) or containerized pending waste determination. • Wells equipped with submersible pumps will be purged sufficient to reach confidently into the aquifer. The purge duration will be a calculated duration based on pump rate, the saturated column in the borehole, filter-pack length, and aquifer properties as determined from existing aquifer tests. The purge requirements will be specific to each perched intermediate and regional well screen. Stable parameters over three consecutive readings will also be a goal once the minimum purge volume is met. • Water-quality parameters will be collected using the methods, instruments, and flow through cell indicated in Table C-3. • The frequency for collection of water-quality parameters and a water level is every 5 min for the first half hour and every 15–20 min thereafter. • Samples are collected directly from the pump discharge line as soon as practical after purging is complete, but later than 8 hours. • All samples will be collected directly into a container that has been specifically prepared for that given parameter. • Sample containers are precleaned to a “300 Series” (I-Chem, ESS) and are commercially available through a number of vendors. • The pump rate during sampling is adjusted to produce a smooth, constant flow rate and so that turbulent flow is not allowed during the filling of sample bottles. • No sampling equipment or material is reused, so there is no decontamination process for this activity. • Sample labels and documentation shall be completed for each sample following procedures referenced in this integrated management plan (IMP). • All samples shall be submitted to the Los Alamos National Laboratory (the Laboratory) in a timely manner to allow the analytical laboratory to conduct analyses within analytical method holding times. • New disposable gloves shall be used at each sampling site. • Signed and dated chain-of-custody seals shall be applied to each cooler prior to transport of samples from the site.

Method	Summary
Groundwater Sampling Using Bladder Pumps Referenced Procedures: • ENV-DO-203, Field Water Quality Analyses. • ENV-DO-206, Sample Containers and Preservation • ENV-WQH SOP-048, Groundwater Sampling Using Bladder Pump	• Wells to be sampled are equipped with a dedicated bladder pump and discharge line. • All pumps are constructed of stainless steel/Teflon and the discharge lines are Teflon line tubing. • The pumps are set at a sufficient depth below the water level where drawdown during pumping does not allow air to enter the pump (see Table D-3). • The pumps are operated using compressed nitrogen gas, and the pump rate during purging is adjusted so that excessive drawdown does not occur. • The discharge measurement will be made using the bucket and stopwatch method. • Purge water will be discharged under approved NOI with NMED or containerized pending waste determination. • Wells equipped with submersible pumps will be purged sufficient to reach confidently into the aquifer. The purge duration will be a calculated duration based on pump rate, the saturated column in the borehole, filter-pack length, and aquifer properties as determined from existing aquifer tests. The purge requirements will be specific to each perched intermediate and regional well screen. Stable parameters over three consecutive readings will also be a goal once the minimum purge volume is met. • Water quality parameters will be collected using the methods, instruments, and flow through cell indicated in Table C-3. • The frequency for collection of water-quality parameters and a water level is every 5 min for the first half hour and every 10–15 min thereafter. • Samples are collected directly from the pump discharge line as soon as practical after purging is complete but no later than 8 h after purging is complete. • All samples will be collected directly into a container that has been specifically prepared for that given parameter. Sample containers are precleaned to a 300 Series (I-Chem, ESS) and are commercially available through a number of vendors. • The pump rate during sampling is adjusted to produce a smooth, constant flow rate and so that turbulent flow is not allowed during the filling of sample bottles. • No sampling equipment or material is reused, so there is no decontamination process for this activity. • Sample labels and documentation shall be completed for each sample following procedures referenced in this IMP. • All samples shall be submitted to the laboratory in a timely manner to allow the analytical laboratory to conduct analyses within analytical method holding times. • New disposable gloves shall be used at each sampling site. • Signed and dated chain-of-custody seals shall be applied to each cooler prior to transport of samples from the site.

Method	Summary
Groundwater Sampling Using Westbay System Referenced Procedures: • ENV-DO-203, Field Water Quality Analyses. • ENV-DO-206, Sample Containers and Preservation • ENV-WQH SOP-050, Groundwater Sampling Using Westbay Sampling System • ENV-WQH SOP-064, Westbay Pressure Transducer Installation, Removal and Maintenance • ENV-SOP-066, Filtering and Chemical Preservation of Water Samples	• A number of wells are multicompletion and are outfitted with the Westbay MP System (see well table). The Westbay MP System is a modular multilevel groundwater monitoring system using a single closed access tube with valved ports. The valved ports are used to provide access to several different levels of a borehole through a single well casing. The modular design permits as many monitoring zones to be established as desired during well completion. This system also allows for sampling without purging the zone under normal aquifer conditions and takes samples at an in-situ pressure. • The Westbay MP System consists of casing components that are permanently installed in the final casing, portable pressure measurement and sampling probes, and specialized tools. The Westbay Sampling probe and sample containers are constructed of stainless steel. • The sampling probes are lowered to a precise port depth, and a sample is collected at that depth (see well status table). This sampling system is a nonpurge system. • Water-quality parameters are performed on each run and will be collected using the methods and instruments indicated in Table C-3. • All information during the collection of samples, sample runs, port pressures, field parameters will be documented on the Water Quality Sampling Record for Westbay Wells. • Since there is no purging of the well, no purge water is generated. • Residual water from the collection of field parameters will be discharged under approved NOI with NMED or containerized pending waste determination. • The sample probe and sample containers are the only equipment or materials that are reused, and these are cleaned between each port used with Alconox and at least three rinses of deionized water. This decon water will be discharged under approved NOI with NMED or containerized pending waste determination. • Sample labels and documentation shall be completed for each sample following procedures referenced in this IMP. • All samples shall be submitted to the Laboratory in a timely manner to allow the analytical laboratory to conduct analyses within analytical method holding times. • New disposable gloves shall be used at each sampling site. • Signed and dated chain-of-custody seals shall be applied to each cooler prior to transport of samples from the site. • Samples are collected directly into the sampling probe's sample containers and as soon as they reach the surface, they are transferred directly into a container that has been specifically prepared for that given parameter. Sample containers are precleaned to a 300 Series (I-Chem, ESS) and are commercially available through a number of vendors.

Method	Summary
Spring and Surface Water Sampling Referenced Procedures: • ENV-DO-203, Field Water Quality Analyses. • ENV-DO-204, Spring and Surface Water Sampling • ENV-DO-206, Sample Containers and Preservation • ENV-WQH SOP-009, Operation and Maintenance of Stream Gauge Stations	• Permanent surface water sampling sites may be identified by posts or permanent gaging stations. However, this may not be possible at some sites due to potential for public access, vandalism, or physical location (e.g., near a road). • Base flow and snowmelt samples shall be collected from running water. Alternatively, in some cases a project may require sampling pooled or ponded water. Samples shall be collected far enough upstream of a confluence so that the sample is not influenced by water from another stream. • Where flow conditions allow, a discharge measurement will be made using a current meter or Parshall flume. If the conditions do not allow for a physical measurement, then an estimated discharge will be provided and documented. • Spring sampling sites may be identified as similar to surface water locations. However, because of fluctuation of spring discharge, field personnel must choose where (or even whether) to sample springs in order to obtain a representative water sample. Upon arrival at the site, locate the spring and determine where/whether the spring should be sampled in accordance with the guidance developed from past experience, in the table "Sampling Site Approach and Considerations" as part of the referenced procedure. • If there is any question about whether a representative sample can be collected, attempt to contact the requestor before proceeding. • Always document in the field notes the rationale for choosing the sample location or for choosing not to sample. • In addition, two distinct spring discharge types have been observed and are often discussed: • One type is for those springs that discharge from a large grassy hillside with no one substantial source of flow and no significant depth of water. These springs do not issue from a point, but over a large area. To obtain a representative sample, collect it at a point where a strong flow occurs and a sample is not influenced by channel soils. • The other discharge type is over some length in a gully or steam channel. The collection point should be where a large pool forms in the drainage due to adjacent spring discharge. • A grab sample will be collected from the horizontal and vertical center of the channel in an area that provides good stream mixing. • If possible, samples will be collected directly into a container that has been specifically prepared for that given parameter. Otherwise, use a sample bottle (glass or plastic depending on the type of sample being collected) or a peristaltic pump to transfer water into the sample container. • The sample containers used are precleaned to a 300 Series (I-Chem, ESS) and are commercially available through a number of vendors. • No sampling equipment or material is reused, so there is no decontamination process for this activity. • Sample labels and documentation shall be completed for each sample following procedures referenced in this IMP. • All samples shall be submitted to the laboratory in a timely manner to allow the analytical laboratory to conduct analyses within analytical method holding times. • New disposable gloves shall be used at each sampling site. • Signed and dated chain-of-custody seals shall be applied to each cooler prior to transport of samples from the site.
Sample bottles and preservation of samples Referenced Procedures: • ENV-DO-206, Sample Containers and Preservation • ENV-WQH, SOP-066, Filtering and Chemical Preservation of Water Samples	• All samples will be collected in a container that has been specifically prepared for that given parameter. • Sample containers are precleaned to a 300 Series (I-Chem, ESS) and are commercially available through a number of vendors. • The pump rate during sampling is adjusted to produce a smooth, constant flow rate and so that turbulent is not allowed during the filling of sample bottles. • For filtered samples – in-line 0.45-micron (µm) disposable filter capsules, or – in-line filter holders with a 0.45-µm filter membrane will be used for the collection of samples for analysis of dissolved constituents. • All samples will be preserved in following Environmental Protection Agency (EPA) guidance in SW-846 and/or 40 CFR 136 (see preservation table in procedure ENV-DO-206) immediately upon collection and, where applicable, the pH checked 15 min later to assess preservation.

<table>
<tr><th>Method</th><th>Summary</th></tr>
<tr><td>Handling, Packaging, and Shipping of Samples
Referenced Procedures:
• ENV-DO-207, Handling, Packaging, and Transporting Field Samples</td><td>• In general, all samples are transported to the Sample Management Office (SMO) for shipment to off-site analytical laboratories.
• After all samples are collected and preserved, the sample containers
– are wiped off and
– custody tape is applied before packaging.
• The sampling personnel coordinate with the SMO concerning levels of radioactivity in the action-level or limited-quantity ranges.</td></tr>
<tr><td>Sample Documentation
Referenced Procedures:
• ENV-DO-204, Spring and Surface Water Sampling
• ENV-WQH QP-028, Creating and Maintaining Chain-of-Custody
• ENV-WQH SOP-009, Operation and Maintenance of Stream Gauge Stations
• ENV-WQH SOP-049, Groundwater Sampling Using Submersible Pumps
• ENV-WQH SOP-048, Groundwater Sampling Using Bladder Pump
• ENV-WQH SOP-050, Groundwater Sampling Using Westbay Sampling System</td><td>• The requested parameters, preservation and bottle type, chain-of-custody, required field parameters, and any other additional information are included on the Analytical Request generated from the database.
• Chain-of-custody is documented on the Analytical Request and signed to verify that the samples were not left unattended.
• All field information, date and time of sample, purging and final field parameters, field conditions, sampling personnel are included in the specific sampling method field sheet.</td></tr>
<tr><td>Field Quality Control Samples
Referenced Procedures:
• ENV-WQH, QP-028, Creating and Maintaining Chain-of-Custody</td><td>• Field-quality control samples are collected as directed in the Compliance Order on Consent as follows:
– Field Duplicate: At a frequency of 10%; collected at the same time as a regular sample and submitted for the same analyses
– Equipment Rinsate Blank: At a frequency of 10%; collected by rinsing sampling equipment with deionized water, which is collected in a sample container and submitted for laboratory analysis.
– Trip Blanks: Required for all field events that include the collection of samples for volatile organic compound (VOC) analysis.
– Trip blanks containers of certified clean sand that are opened and kept with the other sample containers during the sampling process.</td></tr>
</table>

C-3 INSTRUMENT MEASUREMENTS

Field Parameter	Method Description	EPA-Approved Methods	Field Instrument(s)	Flow-Through Cell Used/Type	Description
pH	Hydrogen Ion, pH (pH units): Electrometric measurement	EPA Method 150.1 Standard Methods, 4500-H^+ B Editions 18^{th}, 19^{th}, 20^{th}	Beckman 255 or YSI 556 Multiprobe	Geotech Multiprobe Flowcell Sampling System or YSI 556 cell	Samples will be analyzed for pH and temperature as soon as possible in the field using a flow-through cell during well purging and at the time of sample collection. The listed instruments are commercially available with a temperature sensor for automatic compensation. A calibration check is performed on the meter using the manufacturer's instructions with standard buffers traceable to National Institute of Standards and Technology (NIST) and recorded. Standards are purchased from commercial vendors.
Temperature	Temperature Thermometric, (C^o)	EPA Method 170.1 Standard Methods, 2550 B Editions 18^{th}, 19^{th}, 20^{th}	Beckman 255 (pH meter parameter) or YSI 556 Multiprobe	Geotech Multiprobe Flowcell Sampling System or YSI 556 cell	Samples will be analyzed for temperature concurrently with pH measurement as soon as possible in the field using a flow-through cell during well purging and at the time of sample collection. The listed instruments are commercially available with a temperature sensor for automatic compensation.
Specific Conductance	Electrical Conductance, (micromhos/cm at 25^oC): Wheatstone bridge	EPA Method 120.1 Standard Methods, 2510 B Editions 18th, 19th, 20th	Hach Sension 5 or YSI 556 Multiprobe	Geotech Multiprobe Flowcell Sampling System or YSI 556 cell	Samples will be analyzed for specific conductance as soon as possible in the field using a flow-through cell during well purging and at the time of sample collection. The listed instruments are commercially available with a temperature sensor for automatic compensation. A calibration check is performed on the meter using the manufacturer's instructions with standard buffers traceable to NIST and is recorded. Standards are purchased from commercial vendors.
Dissolved Oxygen	Oxygen, Dissolved, (mg/l): Electrode	EPA Method 360.1 Standard Methods, 4500-O G Editions 18th, 19th, 20th	WTW Oxi 330i or YSI 85/10ft or YSI 556 Multiprobe	Geotech Multiprobe Flowcell Sampling System or YSI 556 cell	Samples will be analyzed for dissolved oxygen as soon as possible in the field using a flow-through cell during well purging and at the time of sample collection. The listed instruments are commercially available with a temperature sensor for automatic compensation. The meter is calibrated using the manufacturer's instructions and is recorded.

Field Parameter	Method Description	EPA-Approved Methods	Field Instrument(s)	Flow-Through Cell Used/Type	Description
Turbidity	Turbidity, (NTU): Nephelometric	EPA Method 180.1 Standard Methods, 2130 B Editions 18th, 19th, 20th	Hach 2100P	Single sample aliquot application	Samples will be analyzed for turbidity as soon as possible in the field using a single aliquot during well purging and at the time of sample collection. The listed instrument is commercially available and a calibration check is performed on the meter using the manufacturer's instructions.
Redox Potential	Reduction-Oxidation Potential-Electrode Method	Standard Methods, 2580 A Editions 18th, 19th, 20th	Orion 230A or Thermo Orion 250A or YSI 556 Multiprobe	Geotech Multiprobe Flowcell Sampling System or YSI 556 cell	Samples will be analyzed for oxygen-reduction potential (ORP) as soon as possible in the field using a flow-through cell during well purging and at the time of sample collection. The listed instruments are commercially available with a temperature sensor for automatic compensation. A calibration check is performed on the meter using the manufacturer's instructions and is recorded. ORP will not be collected in surface water, springs, and alluvial groundwater because of the unreliability of that measurement in those media.

C-4 ANALYTICAL METHODS—GROUNDWATER ANALYTICAL SUITES

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
DIOXIN AND FURANS						
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Dioxin and Furans	EPA:1613B or 8290	1.5	pg/L	50	pg/L
Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	Dioxin and Furans	EPA:1613B or 8290	2.4	pg/L	50	pg/L
Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Dioxin and Furans	EPA:1613B or 8290	1.8	pg/L	50	pg/L
Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Dioxin and Furans	EPA:1613B or 8290	1.5	pg/L	50	pg/L
Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Dioxin and Furans	EPA:1613B or 8290	1.3	pg/L	50	pg/L
Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Dioxin and Furans	EPA:1613B or 8290	1.3	pg/L	50	pg/L
Hexachlorodibenzofuran[1,2,3,4,7,8-]	Dioxin and Furans	EPA:1613B or 8290	2.2	pg/L	50	pg/L
Hexachlorodibenzofuran[1,2,3,6,7,8-]	Dioxin and Furans	EPA:1613B or 8290	0.96	pg/L	50	pg/L
Hexachlorodibenzofuran[1,2,3,7,8,9-]	Dioxin and Furans	EPA:1613B or 8290	2.5	pg/L	50	pg/L
Hexachlorodibenzofuran[2,3,4,6,7,8-]	Dioxin and Furans	EPA:1613B or 8290	2.2	pg/L	50	pg/L
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Dioxin and Furans	EPA:1613B or 8290	3.7	pg/L	100	pg/L
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Dioxin and Furans	EPA:1613B or 8290	4.7	pg/L	100	pg/L
Pentachlorodibenzodioxin[1,2,3,7,8-]	Dioxin and Furans	EPA:1613B or 8290	1.9	pg/L	50	pg/L
Pentachlorodibenzofuran[1,2,3,7,8-]	Dioxin and Furans	EPA:1613B or 8290	2.6	pg/L	50	pg/L
Pentachlorodibenzofuran[2,3,4,7,8-]	Dioxin and Furans	EPA:1613B or 8290	3.4	pg/L	50	pg/L
Tetrachlorodibenzodioxin[2,3,7,8-]	Dioxin and Furans	EPA:1613B or 8290	3.4	pg/L	10	pg/L
Tetrachlorodibenzofuran[2,3,7,8-]	Dioxin and Furans	EPA:1613B or 8290	3	pg/L	10	pg/L
FIELD						
Dissolved Oxygen	Field Measurement	Spectrophotometer	n/a[a]	mg/L	1	mg/L
pH	Field Measurement	Potentiometric meter	n/a	pH units	0.1	SU
Specific Conductance	Field Measurement	EC[b] meter using bridge	n/a	micromhos/cm at 25^{o}C	1	US/cm
Temperature	Field Measurement	Thermocouple	n/a	C ^{o}	1	C
Turbidity	Field Measurement	Turbidity Meter (attenuation cell)	n/a	NTU	0.1	NTU
GENERAL INORGANIC						
Perchlorate	EPA 6850 Modified	LC/TS-MS[c]	n/a	n/a	0.2	µg/L
Specific Conductance	EPA:120.1	EC meter	n/a	n/a	n/a	n/a
Total Dissolved Solids	EPA:160.1	Gravimetric	n/a	n/a	n/a	n/a

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
GENERAL INORGANIC (Cont.)						
pH	EPA:150.1	pH meter	n/a	pH units	n/a	n/a
Suspended Sediment Concentration	EPA:160.2	Gravimetric	n/a	n/a	n/a	n/a
Bromide	EPA:300	Inductively Coupled	0.041	mg/L	0.2	mg/L
Chloride	EPA:300	Inductively Coupled	0.053	mg/L	0.2	mg/L
Fluoride	EPA:300	Inductively Coupled	0.03	mg/L	0.1	mg/L
Orthophosphate	EPA:300	Inductively Coupled	0.038	mg/L	0.2	mg/L
Sulfate	EPA:300	Inductively Coupled	0.057	mg/L	0.4	mg/L
Alkalinity-CO3	EPA:310.1	Titrimetric	0.725	mg/L	1	mg/L
Alkalinity-CO3+HCO3	EPA:310.1	Titrimetric	0.725	mg/L	1	mg/L
Perchlorate	EPA:314.0	Inductively Coupled	0.004	mg/L	0.012	mg/L
Cyanide (Total)	EPA:335.3	Colorimetry	0.0025	mg/L	0.005	mg/L
Ammonia	EPA:350.1	Colorimetry	0.01	mg/L	0.05	mg/L
Ammonia as Nitrogen	EPA:350.1	Colorimetry	0.01	mg/L	0.05	mg/L
Total Kjeldahl Nitrogen	EPA:351.2	Colorimetry	0.01	mg/L	0.1	mg/L
Nitrate-Nitrite as N	EPA:353.1	Colorimetry	0.01	mg/L	0.1	mg/L
Total Phosphate as Phosphorus	EPA:365.4	Colorimetry	0.01	mg/L	0.05	mg/L
Hardness	SM:A2340B	Titrimetric	1	mg/L	2	mg/L
Calcium	SW-846:6010B	ICPES[d]	36	µg/L	100	µg/L
Magnesium	SW-846:6010B	ICPES	85	µg/L	300	µg/L
Potassium	SW-846:6010B	ICPES	50	µg/L	150	µg/L
Silicon Dioxide	SW-846:6010B	ICPES	15	µg/L	100	µg/L
Silicon Dioxide	SW-846:6010B	ICPES	15	µg/L	100	µg/L
Sodium	SW-846:6010B	ICPES	45	µg/L	150	µg/L
HIGH EXPLOSIVES (General Engineering Laboratory)						
2,4-Diamino-6-nitrotoluene	SW-846:8321A_MOD	HPLC/TS/MS[e]	0.39	µg/L	1.3	µg/L
2,6-Diamino-4-nitrotoluene	SW-846:8321A_MOD	HPLC/TS/MS	0.39	µg/L	1.3	µg/L
3,5-dinitroaniline	SW-846:8321A_MOD	HPLC/TS/MS	1.3	µg/L	2.6	µg/L
Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
Dinitrobenzene[1,3-]	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
Dinitrotoluene[2,4-]	SW-846:8321A_MOD	HPLC/TS/MS	0.078	µg/L	0.325	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
HIGH EXPLOSIVES (General Engineering Laboratory) (Cont.)						
Dinitrotoluene[2,6-]	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
HMX	SW-846:8321A_MOD	HPLC/TS/MS	0.0845	µg/L	0.325	µg/L
Nitrobenzene	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
Nitrotoluene[2-]	SW-846:8321A_MOD	HPLC/TS/MS	0.13	µg/L	0.325	µg/L
Nitrotoluene[3-]	SW-846:8321A_MOD	HPLC/TS/MS	0.13	µg/L	0.325	µg/L
Nitrotoluene[4-]	SW-846:8321A_MOD	HPLC/TS/MS	0.169	µg/L	0.65	µg/L
PETN	SW-846:8321A_MOD	HPLC/TS/MS	0.52	µg/L	1.3	µg/L
RDX	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
TATB	SW-846:8321A_MOD	HPLC/TS/MS	0.819	µg/L	1.3	µg/L
Tetryl	SW-846:8321A_MOD	HPLC/TS/MS	0.1625	µg/L	0.65	µg/L
Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	HPLC/TS/MS	0.078	µg/L	0.325	µg/L
Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	HPLC/TS/MS	0.065	µg/L	0.325	µg/L
Tri-o-cresylphosphate (TOCP)	SW-846:8321A_MOD	HPLC/TS/MS	0.13	µg/L	1.3	µg/L
HIGH EXPLOSIVES (Severn Trent Laboratory)						
MNX	SW-846:8330	HPLC[f]	0.07	µg/L	0.5	µg/L
DNX	SW-846:8330	HPLC	0.034	µg/L	0.5	µg/L
TNX	SW-846:8330	HPLC	0.041	µg/L	0.5	µg/L
METALS						
Aluminum	SW-846:6010B	ICPES	68	µg/L	200	µg/L
Arsenic	SW-846:6010B	ICPES	6	µg/L	15	µg/L
Barium	SW-846:6010B	ICPES	1	µg/L	5	µg/L
Beryllium	SW-846:6010B	ICPES	1	µg/L	5	µg/L
Boron	SW-846:6010B	ICPES	10	µg/L	50	µg/L
Chromium	SW-846:6010B	ICPES	1	µg/L	5	µg/L
Cobalt	SW-846:6010B	ICPES	1	µg/L	5	µg/L
Copper	SW-846:6010B	ICPES	3	µg/L	10	µg/L
Iron	SW-846:6010B	ICPES	18	µg/L	100	µg/L
Manganese	SW-846:6010B	ICPES	2	µg/L	10	µg/L
Mercury	SW846:7470A	CVAA[g]	0.05	µg/L	0.2	µg/L
Molybdenum	SW-846:6010B	ICPES	2	µg/L	10	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
METALS (cont.)						
Strontium	SW-846:6010B	ICPES	1	µg/L	5	µg/L
Tin	SW-846:6010B	ICPES	2.5	µg/L	10	ug/L
Vanadium	SW-846:6010B	ICPES	1	µg/L	5	ug/L
Zinc	SW-846:6010B	ICPES	2	ug/L	10	ug/L
Antimony	SW-846:6020	ICPMS[h]	0.5	ug/L	2	µg/L
Cadmium	SW-846:6020	ICPMS	0.1	µg/L	1	µg/L
Lead	SW-846:6020	ICPMS	0.5	µg/L	2	µg/L
Nickel	SW-846:6020	ICPMS	0.5	µg/L	2	µg/L
Selenium	SW-846:6020	ICPMS	2.5	µg/L	5	µg/L
Silver	SW-846:6020	ICPMS	0.2	µg/L	1	µg/L
Thallium	SW-846:6020	ICPMS	0.4	µg/L	1	µg/L
PCBS						
Aroclor-1016	SW-846:8082	GC ECD[i]	0.0875	µg/L	0.5	µg/L
Aroclor-1221	SW-846:8082	GC ECD	0.4165	µg/L	0.5	µg/L
Aroclor-1232	SW-846:8082	GC ECD	0.19	µg/L	0.5	µg/L
Aroclor-1242	SW-846:8082	GC ECD	0.222	µg/L	0.5	µg/L
Aroclor-1248	SW-846:8082	GC ECD	0.135	µg/L	0.5	µg/L
Aroclor-1254	SW-846:8082	GC ECD	0.127	µg/L	0.5	µg/L
Aroclor-1260	SW-846:8082	GC ECD	0.067	µg/L	0.5	µg/L
Aroclor-1262	SW-846:8082	GC ECD	0.0935	µg/L	0.5	µg/L
PESTICIDES						
Aldrin	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
BHC[alpha-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
BHC[beta-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
BHC[delta-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
BHC[gamma-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
Chlordane[alpha-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
Chlordane[gamma-]	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
DDD[4,4'-]	SW-846:8081A	GC ECD	0.01	µg/L	0.04	µg/L
DDE[4,4'-]	SW-846:8081A	GC ECD	0.01	µg/L	0.04	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
PESTICIDES (continued)						
DDT[4,4'-]	SW-846:8081A	GC ECD	0.015	µg/L	0.04	µg/L
Dieldrin	SW-846:8081A	GC ECD	0.015	µg/L	0.04	µg/L
Endosulfan I	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
Endosulfan II	SW-846:8081A	GC ECD	0.011	µg/L	0.04	µg/L
Endosulfan Sulfate	SW-846:8081A	GC ECD	0.00625	µg/L	0.04	µg/L
Endrin	SW-846:8081A	GC ECD	0.005	µg/L	0.04	µg/L
Endrin Aldehyde	SW-846:8081A	GC ECD	0.01	µg/L	0.04	µg/L
Endrin Ketone	SW-846:8081A	GC ECD	0.01	µg/L	0.04	µg/L
Heptachlor	SW-846:8081A	GC ECD	0.005	µg/L	0.02	µg/L
Heptachlor Epoxide	SW-846:8081A	GC ECD	0.0075	µg/L	0.02	µg/L
Methoxychlor[4,4'-]	SW-846:8081A	GC ECD	0.05	µg/L	0.2	µg/L
Toxaphene (Technical Grade)	SW-846:8081A	GC ECD	0.125	µg/L	1	µg/L
RADIONUCLIDES						
Gross alpha	EPA:900	Alpha Proportional Counting	n/a	n/a	3	pCi/L
Gross beta	EPA:900	Beta Proportional Counting	n/a	n/a	3	pCi/L
Cesium-137	EPA:901.1	Gamma Spectroscopy	n/a	n/a	8	pCi/L
Cobalt-60	EPA:901.1	Gamma Spectroscopy	n/a	n/a	8	pCi/L
Gross gamma	EPA:901.1	Gamma Spectroscopy	n/a	n/a	120	pCi/L
Neptunium-237	EPA:901.1	Gamma Spectroscopy	n/a	n/a	10	pCi/L
Potassium-40	EPA:901.1	Gamma Spectroscopy	n/a	n/a	10	pCi/L
Sodium-22	EPA:901.1	Gamma Spectroscopy	n/a	n/a	10	pCi/L
Strontium-90	EPA:905.0	Gamma Proportional Counting	n/a	n/a	0.5	pCi/L
Tritium	EPA:906.0	LSC[j]	n/a	n/a	200	pCi/L
Tritium	Generic:LLEE[11]	Gas Proportional Counting	n/a	n/a	1	pCi/L
Americium-241	HASL-300:AM-241	Alpha Spectroscopy	n/a	n/a	0.05	pCi/L
Plutonium-238	HASL-300:ISOPU	Alpha Spectroscopy	n/a	n/a	0.05	pCi/L
Plutonium-239/240	HASL-300:ISOPU	Alpha Spectroscopy	n/a	n/a	0.05	pCi/L
Uranium-234	HASL-300:ISOU	Alpha Spectroscopy	n/a	n/a	1	pCi/L
Uranium-235/236	HASL-300:ISOU	Alpha Spectroscopy	n/a	n/a	1	pCi/L
Uranium-238	HASL-300:ISOU	Alpha Spectroscopy	n/a	n/a	0.5	pCi/L
Uranium	SW-846:6020	ICPMS	0.05	µg/L	0.1	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
SEMIVOLATILE ORGANIC COMPOUNDS						
Acenaphthene	SW-846:8270C	GCMS[k]	0.31	µg/L	1	µg/L
Acenaphthylene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Aniline	SW-846:8270C	GCMS	2.5	µg/L	10	µg/L
Anthracene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Atrazine	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Azobenzene	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Benzidine	SW-846:8270C	GCMS	2	µg/L	50	µg/L
Benzo(a)anthracene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Benzo(a)pyrene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Benzo(b)fluoranthene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Benzo(g,h,i)perylene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Benzo(k)fluoranthene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Benzoic Acid	SW-846:8270C	GCMS	6	µg/L	20	µg/L
Benzyl Alcohol	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Bis(2-chloroethoxy)methane	SW-846:8270C	GCMS	3	µg/L	10	µg/L
Bis(2-chloroethyl)ether	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Bis(2-ethylhexyl)phthalate	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Bromophenyl-phenylether[4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Butylbenzylphthalate	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Chloro-3-methylphenol[4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Chloroaniline[4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Chloronaphthalene[2-]	SW-846:8270C	GCMS	0.35	µg/L	1	µg/L
Chlorophenol[2-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Chrysene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Dibenz(a,h)anthracene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Dibenzofuran	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dichlorobenzene[1,2-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dichlorobenzene[1,3-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dichlorobenzene[1,4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dichlorobenzidine[3,3'-]	SW-846:8270C	GCMS	1	µg/L	10	µg/L
Dichlorophenol[2,4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
SEMIVOLATILE ORGANIC COMPOUNDS (cont.inued						
Diethylphthalate	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dimethyl Phthalate	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dimethylphenol[2,4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Di-n-butylphthalate	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dinitro-2-methylphenol[4,6-]	SW-846:8270C	GCMS	3	µg/L	10	µg/L
Dinitrophenol[2,4-]	SW-846:8270C	GCMS	10	µg/L	20	µg/L
Dinitrotoluene[2,4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Dinitrotoluene[2,6-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Di-n-octylphthalate	SW-846:8270C	GCMS	3	µg/L	10	µg/L
Dinoseb	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Diphenylamine	SW-846:8270C	GCMS	3	µg/L	10	µg/L
Fluoranthene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Fluorene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Hexachlorobenzene	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Hexachlorobutadiene	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Hexachlorocyclopentadiene	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Hexachloroethane	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Indeno(1,2,3-cd)pyrene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Isophorone	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Methylnaphthalene[1-]	SW-846:8270C	GCMS	0.3	µg/L	1	µg/L
Methylnaphthalene[2-]	SW-846:8270C	GCMS	0.3	µg/L	1	µg/L
Methylphenol[2-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Methylphenol[3-,4-]	SW-846:8270C	GCMS	3	µg/L	10	µg/L
naphthalene	SW-846:8270C	GCMS	0.3	µg/L	1	µg/L
Nitroaniline[2-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitroaniline[3-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitroaniline[4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitrobenzene	SW-846:8270C	GCMS	3	µg/L	10	µg/L
Nitrophenol[2-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitrophenol[4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitrosodiethylamine[N-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitrosodimethylamine[N-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
SEMIVOLATILE ORGANIC COMPOUNDS (continued)						
Nitroso-di-n-butylamine[N-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitroso-di-n-propylamine[N-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Nitrosopyrrolidine[N-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Pentachlorobenzene	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Pentachlorophenol	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Phenanthrene	SW-846:8270C	GCMS	0.2	µg/L	1	µg/L
Phenol	SW-846:8270C	GCMS	1	µg/L	10	µg/L
Pyrene	SW-846:8270C	GCMS	0.3	µg/L	1	µg/L
Tetrachlorobenzene[1,2,4,5-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Trichlorobenzene[1,2,4-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
Trichlorophenol[2,4,5-]	SW-846:8270C	GCMS	1	µg/L	10	µg/L
Trichlorophenol[2,4,6-]	SW-846:8270C	GCMS	2	µg/L	10	µg/L
STABLE ISOTOPES						
Carbon-12/Carbon-13 Ratio	USGS	Isotope Ratio Mass Spectroscopy	n/a	n/a	n/a	n/a
Deuterium Ratio	USGS	Isotope Ratio Mass Spectroscopy	n/a	n/a	n/a	n/a
Nitrogen-15/Nitrogen-14 Ratio	USGS	Isotope Ratio Mass Spectroscopy	n/a	n/a	n/a	n/a
Oxygen-18/Oxygen-16 Ratio	USGS	Isotope Ratio Mass Spectroscopy	n/a	n/a	n/a	n/a
VOLATILE ORGANIC COMPOUNDS						
Acetone	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Acetonitrile	SW-846:8260B	GCMS	6.25	µg/L	25	µg/L
Acrolein	SW-846:8260B	GCMS	3	µg/L	5	µg/L
Acrylonitrile	SW-846:8260B	GCMS	1	µg/L	5	µg/L
Benzene	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Bromobenzene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Bromochloromethane	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Bromodichloromethane	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Bromoform	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Bromomethane	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Butanone[2-]	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Butylbenzene[n-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
VOLATILE ORGANIC COMPOUNDS (continued)						
Butylbenzene[sec-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Butylbenzene[tert-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Carbon Disulfide	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Carbon Tetrachloride	SW-846:8260B	GCMS	0.25	µ/L	1	µg/L
Chloro-1,3-butadiene[2-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Chloro-1-propene[3-]	SW-846:8260B	GCMS	3.7	µg/L	5	µg/L
Chlorobenzene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Chlorodibromomethane	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Chloroethane	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Chloroform	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Chloromethane	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Chlorotoluene[2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Chlorotoluene[4-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Dibromoethane[1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dibromomethane	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichlorobenzene[1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichlorobenzene[1,3-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichlorobenzene[1,4-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichlorodifluoromethane	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Dichloroethane[1,1-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichloroethane[1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichloroethene[1,1-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichloroethene[cis-1,2-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichloroethene[trans-1,2-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichloropropane[1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichloropropane[1,3-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichloropropane[2,2-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Dichloropropene[1,1-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichloropropene[cis-1,3-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dichloropropene[trans-1,3-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Dioxane[1,4-]	SW-846:8260B	GCMS	20	µg/L	50	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
VOLATILE ORGANIC COMPOUNDS (continued)						
Ethyl Methacrylate	SW-846:8260B	GCMS	1	µg/L	5	µg/L
Ethylbenzene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Hexachlorobutadiene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Hexanone[2-]	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Iodomethane	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Isopropylbenzene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Isopropyltoluene[4-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Methacrylonitrile	SW-846:8260B	GCMS	1	µg/L	5	µg/L
Methyl Methacrylate	SW-846:8260B	GCMS	1	µg/L	5	µg/L
Methyl-1-propanol[2-]	SW-846:8260B	GCMS	13	µg/L	50	µg/L
Methyl-2-pentanone[4-]	SW-846:8260B	GCMS	1.25	µg/L	5	µg/L
Methylene Chloride	SW-846:8260B	GCMS	2	µg/L	5	µg/L
naphthalene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Propionitrile	SW-846:8260B	GCMS	1.5	µg/L	5	µg/L
Propylbenzene[1-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Styrene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Tetrachloroethane[1,1,1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Tetrachloroethane[1,1,2,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Tetrachloroethene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Toluene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	GCMS	1	µg/L	5	µg/L
Trichlorobenzene[1,2,3-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Trichlorobenzene[1,2,4-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Trichloroethane[1,1,1-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Trichloroethane[1,1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Trichloroethene	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Trichlorofluoromethane	SW-846:8260B	GCMS	0.31	µg/L	1	µg/L
Trichloropropane[1,2,3-]	SW-846:8260B	GCMS	0.3	µg/L	1	µg/L
Trimethylbenzene[1,2,4-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L

Analyte	Analytical Method	Method Description	Method Detection Limit	Units	Practical Quantitation Limit	Units
Trimethylbenzene[1,3,5-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Vinyl acetate	SW-846:8260B	GCMS	1.5	µg/L	5	µg/L
Vinyl Chloride	SW-846:8260B	GCMS	0.5	µg/L	1	µg/L
Xylene[1,2-]	SW-846:8260B	GCMS	0.25	µg/L	1	µg/L
Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	GCMS	0.25	µg/L	2	µg/L

[a] n/a = Not applicable.
[b] EC = Electroconductivity probe and meter.
[c] LC/TS-MS = Liquid chromatography-TS mass spectrometry.
[d] ICPES = Inductively coupled emission spectrometry.
[e] HPLC/TS/MS = High pressure liquid chromatography/total solids/mass spectrometry.
[f] HPLC = High pressure liquid chromatography.
[g] CVAA = Cold vapor atomic absorption.
[h] ICPMS = Inductively coupled mass spectrometry.
[i] GC ECD = gas chromatography with electron-capture detection.
[j] LSC = Liquid scintillation counting.
[k] GCMS = Gas chromatography mass spectrometry.

C-5 INVESTIGATION-DERIVED WASTE MANAGEMENT

This appendix describes how investigation-derived waste (IDW) generated during the groundwater monitoring activities conducted under the Los Alamos National Laboratory (the Laboratory) Interim Facility-Wide Groundwater Monitoring Plan (Interim Plan) will be managed. IDW is waste generated as a result of field investigation activities and may include, but is not limited to, purge water, contaminated personal protective equipment (PPE), sampling supplies, and plastic; fluids from the decontamination of PPE and sampling equipment; and all other wastes potentially contacting contaminants. IDW generated during implementation of the Interim Plan will be managed to protect human health and the environment comply with applicable regulatory requirements and to adhere to Laboratory waste minimization goals.

All IDW generated during groundwater-monitoring activities will be managed in accordance with applicable Environmental Programs–Environment and Remediation Support Services (EP-ERSS) standard operating procedures (SOPs). These SOPs incorporate the requirements of all applicable EPA and NMED regulations, DOE Orders, and LIRs. SOPs applicable to the characterization and management of IDW are the following:

- SOP-1.06, Management of Environmental Restoration Project Waste
- SOP-1.10, Waste Characterization

The SOPs in their entirety are available at the following URL:
http://erproject.lanl.gov/documents/procedures.html.

The Laboratory's 2006 "Los Alamos National Laboratory Hazardous Waste Minimization Report" (LANL 2006, 096015) will be implemented during groundwater monitoring to minimize waste generation. This document is updated annually as a requirement of Module VIII of the Laboratory's Hazardous Waste Facility Permit.

The IDW waste streams associated with groundwater monitoring are identified in Table C-5 and are briefly described below. Table C-5 also summarizes the waste type, estimated volume, and method of on-site management.

Waste Determinations

As part of the waste characterization process, data will be reviewed to identify the presence of reproducible detections of Resource Conservation and Recovery Act (RCRA) hazardous waste and hazardous constituents. In conformance with the NOI decision tree process, the data that will be used include available data that are less than 1 yr old (decision point D1 of the NOI Decision Tree). Where no data less than 1 yr old are available, waste will be managed as RCRA hazardous waste (pending analysis) until new data are available and are reviewed.

Once a waste determination has been made for a location, waste generated from subsequent sampling events at that location will be managed according to the initial determination for 1 yr, unless new process knowledge or data indicate that the determination should be reevaluated sooner. Reevaluation after the 1-yr limit will be dependent on the monitoring schedule for a particular well or surface-water location; thus, the waste determination for any given location will be reevaluated using the first samples collected 1 yr after the initial determination is made.

The number of sampling events that will be used to make RCRA waste determinations will be based on acceptable knowledge (AK) of groundwater conditions within a watershed in the area of a well or surface sample location. Acceptable knowledge will include review of existing data and may also include source term/process identification performed to identify whether sources of potential listed hazardous waste exist (i.e., due diligence reviews). The number of sampling events that the Laboratory will use to make the initial 1-yr waste determination for a given location is summarized as follows:

- For locations where all existing AK does not indicate the presence of RCRA hazardous waste or hazardous constituents constituents above RCRA regulatory limits (decision point D2 of the NOI Decision Tree), one sampling event will be used annually to confirm the nonhazardous waste determination.
- For locations where existing AK indicates that the presence of RCRA hazardous waste or hazardous constituents is likely, or where a single sampling event has detected RCRA hazardous waste or hazardous constituents, at least one additional sampling event will be used to make a waste determination that will be considered representative for 1 yr. Using *a **minimum*** of two rounds of data will ensure that the reproducibility of RCRA-regulated chemical detections can be verified. Where reproducibility issues exist, or new RCRA-regulated chemical detections are identified, up to four rounds of sampling and data review will be performed to make a waste determination that will be considered representative for 1 yr.
- For new wells and surface-water locations with no existing AK, two sampling events (to ensure reproducibility of data) will be used to make the initial 1-yr waste determination.
- Where a RCRA hazardous waste determination has been made, subsequent IDW generated at that location will be managed as hazardous waste until the data from four consecutive sampling events contain no RCRA hazardous waste or hazardous constituents above RCRA regulatory limits.

<u>*Purge water*</u>: The purge water waste stream will consist of water purged from wells prior to sampling in order to ensure that representative samples are collected. Purge water from wells may be land applied to the ground surface at the well site or on roads for dust suppression if compliant with the requirements of decision points D1, D2, and D6 of the NMED-approved NOI Decision Tree (Attachment C-1). Purge water not suitable for land application will be evaluated for treatment at one of the Laboratory's wastewater treatment facilities (decision point D7) or for management in accordance with RCRA and HWA requirements (decision points D3-D5).

The purge water from all wells not meeting the requirements of decision point D1, existing water-quality data less than 1 year old, will be collected and containerized as it is removed from the wells. The type of container used will depend on the volume of purge water expected but may include 55-gal. drums or tanks, U.S. Department of Transportation (DOT)-approved, as appropriate. The containers of purge water will be staged in secure accumulation areas approved by the Laboratory's Water Quality and RCRA (ENV-RCRA) Group pending results of analysis. The accumulation areas may be at the location of the wells, or may be at other locations at the Laboratory. Containerized purge water will be characterized based on the results of the analysis of water samples from the associated well(s) or by direct sampling and analysis of the purge water. The characterization approach for specific wells will be specified in the waste characterization strategy form (WCSF) for the associated monitoring activity.

The results of the water analyses, along with acceptable knowledge of the sources of constituents identified in the purge water, will be used to determine whether the water contains hazardous waste, in accordance with the requirements of decision point D2. If the water is determined to contain hazardous waste, it will be treated or disposed of at a permitted off-site treatment, storage, or disposal facility (disposal pathway P1), unless a contained-in determination has been granted by NMED (decision point D5). If the water is determined to be nonhazardous, then it will be evaluated for compliance with the criteria for land application in decision point D6. Water satisfying the criteria for land application may be land applied in accordance with the requirements specified in disposal pathway P2.

Water not meeting the requirements for land application will be evaluated for treatment and disposal at one of the Laboratory's six wastewater treatment facilities (decision point D7, disposal pathways P3-P8). Compliance with a wastewater treatment facility's Waste Acceptance Criteria will determine the appropriate disposal pathway.

Spent PPE: The spent PPE waste stream will consist of PPE that has "contacted" potentially contaminated environmental media (i.e., purge water) and that cannot be decontaminated. The bulk of this waste stream will consist of protective clothing such as coveralls, gloves, and shoe covers. Spent PPE will be collected in containers at an approved accumulation area. Characterization of this waste stream will be performed through acceptable knowledge of the waste materials, the methods of generation, and the levels of contamination observed in the environmental media (e.g., the results of analysis of associated water samples). The Laboratory expects most of these contact wastes to be designated as nonhazardous waste that will be disposed of at a New Mexico solid waste landfill. If groundwater contains elevated radioactivity, the contact wastes may be designated as low-level radioactive waste and disposed of at Technical Area (TA) 54 Area G.

Disposable sampling supplies: The disposable sampling supplies waste stream will consist of all equipment and materials necessary for collection of samples that come into direct contact with potentially contaminated environmental media and that cannot be decontaminated. This waste stream also includes wastes associated with dry decontamination activities. This waste stream will consist primarily of paper, plastic, and glass items collected in bags at the sampling location and transferred to accumulation drums. Characterization of this waste stream will be performed through acceptable knowledge of the waste materials, the methods of generation, and the levels of contamination observed in the environmental media (e.g., the results of analysis of associated water samples). The Laboratory expects most of these contact wastes to be designated as nonhazardous waste that will be disposed of at a New Mexico solid waste landfill. If groundwater contains elevated radioactivity, the contact wastes may be designated as low-level radioactive waste and disposed of at TA-54 Area G.

Decontamination fluids: The decontamination fluids waste stream will consist of liquid wastes from decontamination activities (i.e., decontamination solutions and rinse waters). Consistent with waste minimization practices, the Laboratory employs dry decontamination methods to the extent possible. If dry decontamination cannot be performed, liquid decontamination wastes will be collected in containers at the point of generation. The decontamination fluids waste stream will be accumulated in drums and characterized through acceptable knowledge of the waste materials, the levels of contamination observed in the environmental media (e.g., the results of the associated water samples) and, if necessary, direct sampling of the containerized waste. The Laboratory expects these wastes to be designated as nonhazardous liquid waste or radioactive liquid waste that would be sent to one of the Laboratory's wastewater treatment facilities.

Prior to the start of field investigation activities, a WCSF will be prepared and approved per requirements of SOP 01.10. The WCSF will provide detailed information on IDW characterization methods, management, containerization, and potential volumes. IDW characterization will be completed through review of existing data and/or documentation, sampling of the media being investigated (i.e., surface soil, subsurface soil, etc.), or by direct sampling of the IDW. If direct waste sampling is necessary, sampling and analysis procedures will be described in the WCSF.

The selection of waste containers will be based on appropriate DOT requirements, waste types, and estimated volumes of IDW to be generated. Immediately following containerization, each waste container will be individually labeled with a unique identification number and with information regarding waste classification, content, radioactivity (if applicable), and date generated. The wastes will be contained in clearly marked and appropriately constructed waste accumulation areas. Waste accumulation area postings, regulated storage duration, and inspection requirements will be based on the type of IDW and its classification. Container and storage requirements will be detailed in the WCSF and approved prior to waste being generated.

C-5-1 Summary of Estimated IDW Generation and Management

Waste Stream	Estimated Volume	On-Site Management
Purge water	5 to 1000 gal. per well per sampling event	Discharge per NOI Decision Tree and draft Radiological Decision Tree, accumulation in 55-gal. drums, or tanks
Spent PPE	Less than 55 gal. per watershed monitoring campaign	Accumulation in 55-gal. drums
Disposable sampling supplies	Less than 55 gal. per watershed monitoring campaign	Accumulation in 55-gal. drums
Decontamination fluids	Less than 55 gal. per watershed monitoring campaign	Accumulation in 55-gal. drums

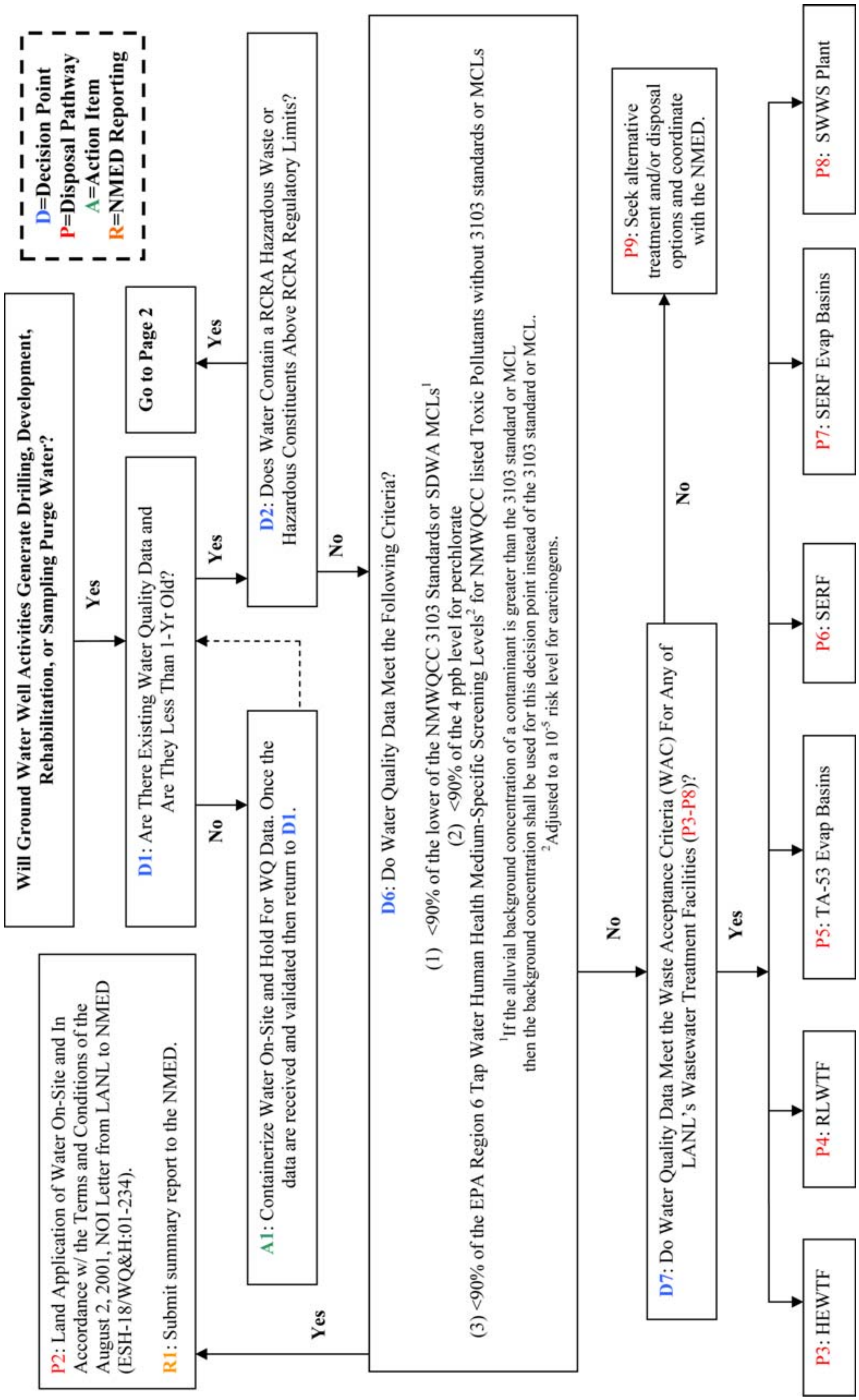
C-6 REFERENCES

The following list includes all documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ER ID number. This information is also included in text citations. ER ID numbers are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau; the U.S. Department of Energy–Los Alamos Site Office; the U.S. Environmental Protection Agency, Region 6; and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

LANL (Los Alamos National Laboratory), November 2006. "Los Alamos National Laboratory Hazardous Waste Minimization Report," Los Alamos National Laboratory document LA-UR-06-8175, Los Alamos, New Mexico. (LANL 2006, 096015)

LANL (Los Alamos National Laboratory), November 2006. "Los Alamos National Laboratory Hazardous Waste Minimization Report," Los Alamos National Laboratory document LA-UR-06-8175, Los Alamos, New Mexico. (LANL 2006, 096015)


D=Decision Point
P=Disposal Pathway
A=Action Item
R=NMED Reporting
Will Ground Water Well Activities Generate Drilling, Development, Rehabilitation, or Sampling Purge Water?
Yes
D1: Are There Existing Water Quality Data and Are They Less Than 1-Yr Old?
No
Yes
A1: Containerize Water On-Site and Hold For WQ Data. Once the data are received and validated then return to D1.
D2: Does Water Contain a RCRA Hazardous Waste or Hazardous Constituents Above RCRA Regulatory Limits?
Yes
Go to Page 2
No
D6: Do Water Quality Data Meet the Following Criteria?
(1) <90% of the lower of the NMWQCC 3103 Standards or SDWA MCLs¹
(2) <90% of the 4 ppb level for perchlorate
(3) <90% of the EPA Region 6 Tap Water Human Health Medium-Specific Screening Levels² for NMWQCC listed Toxic Pollutants without 3103 standards or MCLs
¹If the alluvial background concentration of a contaminant is greater than the 3103 standard or MCL then the background concentration shall be used for this decision point instead of the 3103 standard or MCL.
²Adjusted to a 10⁻⁵ risk level for carcinogens.
Yes
P2: Land Application of Water On-Site and In Accordance w/ the Terms and Conditions of the August 2, 2001, NOI Letter from LANL to NMED (ESH-18/WQ&H:01-234).
R1: Submit summary report to the NMED.
No
D7: Do Water Quality Data Meet the Waste Acceptance Criteria (WAC) For Any of LANL's Wastewater Treatment Facilities (P3-P8)?
No
P9: Seek alternative treatment and/or disposal options and coordinate with the NMED.
Yes
P3: HEWTF
P4: RLWTF
P5: TA-53 Evap Basins
P6: SERF
P7: SERF Evap Basins
P8: SWWS Plant

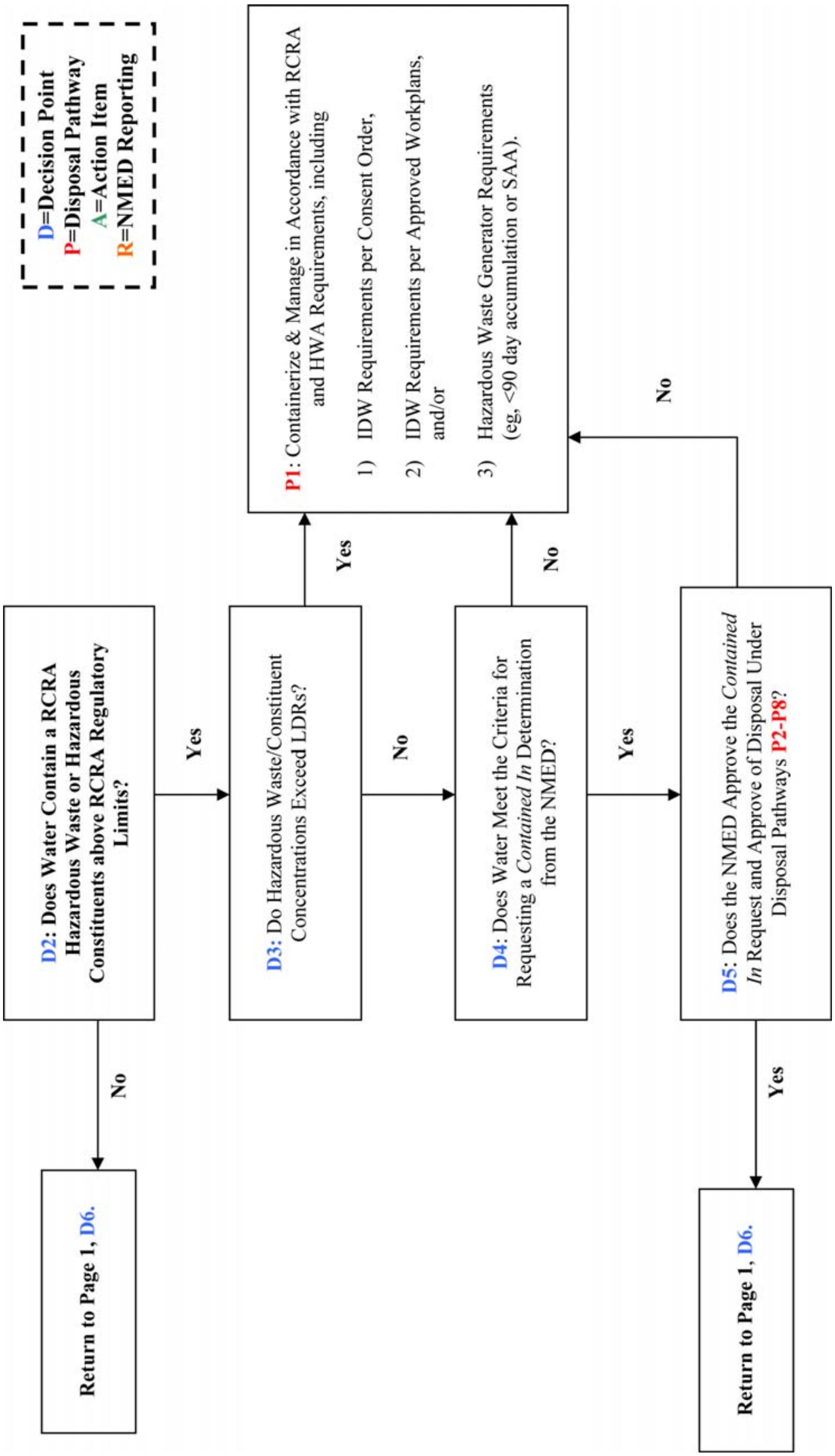


Figure C-1 NOI Decision Tree

Appendix D

Justification Information and Data

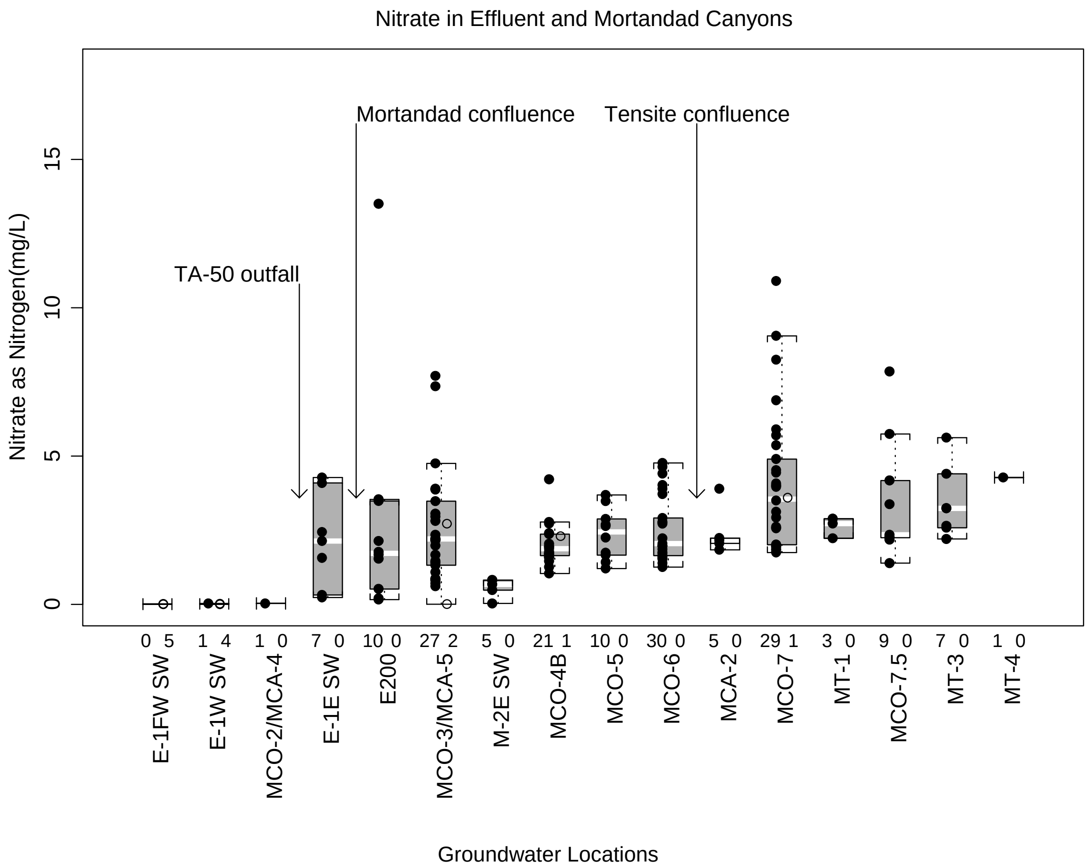
Figures

Figure D-1 Box plots showing the spatial distribution of nitrate (as N) at surface water and alluvial groundwater locations in Effluent and Mortandad Canyons 1

Figure D-2 Box plots showing the spatial distribution of perchlorate at surface water and alluvial groundwater locations in Effluent and Mortandad Canyons 2

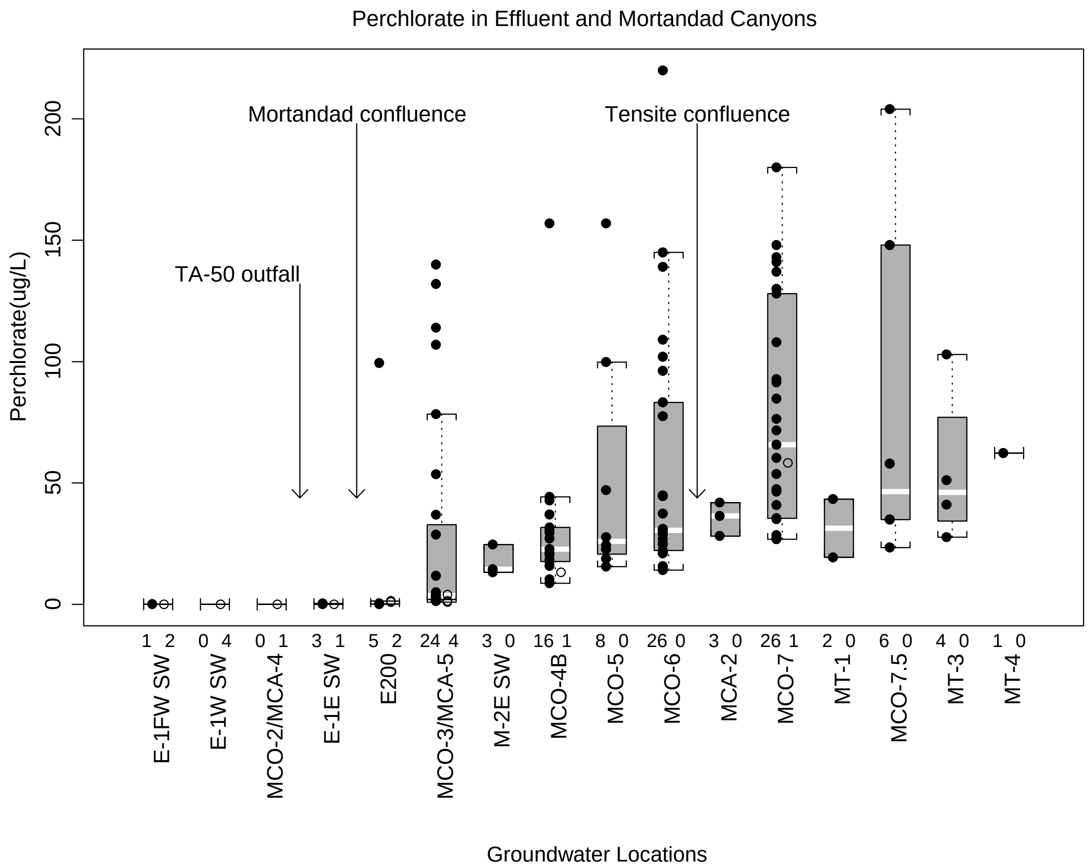
Figure D-3 Comparison of nitrate concentrations over time in alluvial wells in Mortandad Canyon —history since 2001.. 3

Figure D-4 Comparison of perchlorate concentrations over time in alluvial wells in Mortandad Canyon—history since 2001 4



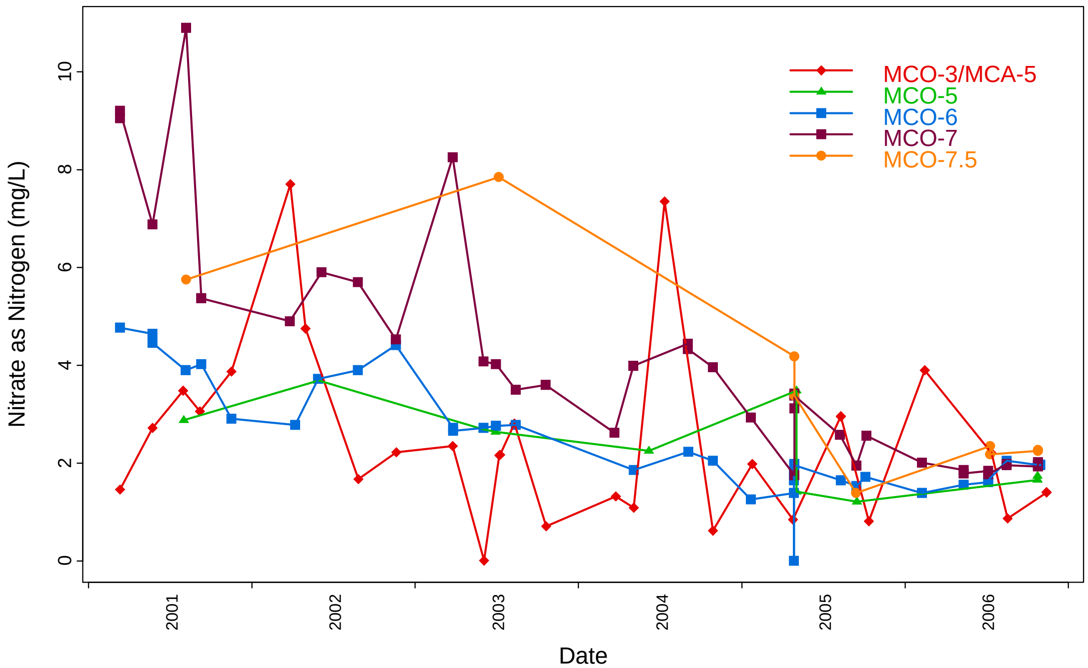
Notes: Filtered and nonfiltered samples are included. Annotation shows the relative locations of key contaminant sources and other geographic features.

Figure D-1 Box plots showing the spatial distribution of nitrate (as N) at surface water and alluvial groundwater locations in Effluent and Mortandad Canyons



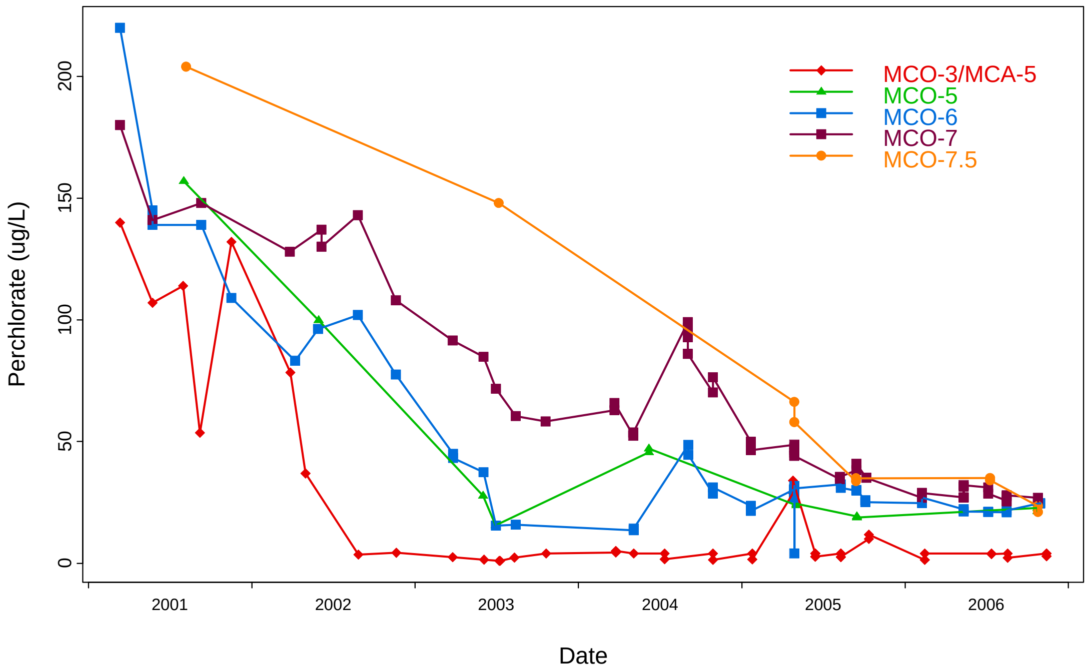
Notes: Filtered and nonfiltered samples are included. Annotation shows the relative locations of key contaminant sources and other geographic features.

Figure D-2 Box plots showing the spatial distribution of perchlorate at surface water and alluvial groundwater locations in Effluent and Mortandad Canyons



Note: Filtered and nonfiltered samples are included.

Figure D-3 Comparison of nitrate concentrations over time in alluvial wells in Mortandad Canyon —history since 2001



Note: Filtered and nonfiltered samples are included.

Figure D-4 Comparison of perchlorate concentrations over time in alluvial wells in Mortandad Canyon—history since 2001

Appendix E

QA/QC Data Review

Table E-1
Description of How Field QA/QC Results Are Reviewed

QA/QC Sample Type	Summary
General	This appendix summarizes the procedures for review of field-quality assurance/quality control (QA/QC) results for acceptability with respect to the data-quality objective (DQO). Field QA/QC samples are collected in accordance with the New Mexico Environment Department Consent Order, Section IX.B. Specifically, the field QA/QC samples collected are field duplicates, field blanks, equipment rinsate blanks, reagent blanks, if necessary, and trip blanks for QA during groundwater and surface water sampling activities. QA/QC samples are specified for each matrix and method in the National Nuclear Security Administration (NNSA) Model Statement of Work for Analytical Laboratories (Los Alamos National Laboratory is currently using Revision 6, August 2004). The results are used for secondary data validation conducted for all water data following the NNSA Model Data Validation Procedure (Revision 4, July 2005). Procedures for laboratory QA/QC samples are presented in detail in the NNSA Model Statement of Work used by Los Alamos National Laboratory (the Laboratory) for contracting analyses, and the data validation procedure describes how laboratory QA/QC sample results are used in the secondary data validation process. This summary addresses how field QA/QC results are used and the types of corrective actions that may be taken to address exceedance of target measures for each QA/QC sample type.
Field Blanks	Field blanks are collected at a rate of no less than one per day per sample site. Field blanks are collected by filling sample containers in the field with deionized water to check for sources of sample contamination in the field. Field-blank results are evaluated as part of the secondary data validation process by using the result to validate the associated sample results. If there are any detected analytes in the field blank, the sample result from the associated sample is qualified as undetected if the sample result is less than 5 times the amount for the analyte found in the associated field blank. A validation reason code is also assigned to describe why the data were qualified.
Field Rinsate Blanks	Equipment rinsate blanks are collected at the rate of 5% but no less than one equipment rinsate blank per sampling day. If disposable sampling equipment is used, equipment rinsate blanks are collected at the rate of one equipment rinsate blank per sampling day. Rinsate samples are collected by passing deionized water through unused or decontaminated sampling equipment prior to sampling to detect any sample contamination resulting from the equipment condition or decontamination techniques. In the secondary validation process, equipment rinsate blanks are evaluated the same as field blanks, and any detected analytes are qualified in the samples associated with the rinsate blank.

QA/QC Sample Type	Summary
Field Duplicates	Field duplicates are collected at a rate of 10% with a minimum of one field duplicate collected per sample batch. A sample batch consists of a group of samples for one media submitted to the analytical laboratory during one period. Field duplicates are samples collected from the same sample location during the same event to provide information on the ability to duplicate the entire sampling and analysis process. Currently field-duplicate results are evaluated during secondary validation using the same criteria as the regular sample results following the NNSA Model Data Validation Procedure (Revision 4, July 2005). Field duplicates are evaluated using the same process as laboratory duplicate data with the same validation qualifiers assigned to the sample and field duplicate results. Field-duplicate results are compared with the associated sample results, and a relative percent difference is calculated. The acceptable threshold for relative percent differences is 20% for data greater than 5 times the reporting limit. For data within 5 times the reporting limit, the data would be qualified for results that do not agree to plus or minus the laboratory reporting limit. These are the same limits currently used to qualify the results for an analytical batch based on laboratory duplicate results.

Table E-1 (continued)

QA/QC Sample Type	Summary
Trip Blanks	Trip blanks accompany any samples collected for volatile organic compound (VOC) analyses. The trip blanks are obtained from the analytical laboratory and consist of analyte-free deionized water that is shipped to the Laboratory for use as trip blanks. At least one trip blank is placed in each shipping container that contains samples for VOC analyses. In the secondary data validation process, trip blanks are evaluated the same as field blanks, and any detected analytes are qualified in the samples associated with the trip blank. If there are any detected analytes in the trip blank, the sample result from the associated sample is qualified as undetected if the sample result is less than 5 times the amount of the concentration of an analyte found in the associated field blank. These results are given a validation reason code to describe why the data were qualified.
Corrective Actions Tool Box	Exceedance of target measures for each of the QA/QC sections summarized above triggers any number of potential corrective actions. The selection of one or more corrective actions is dependent on project DQOs and a variety of other factors. Therefore, a general toolbox of potential corrective actions is considered on a case-by-case basis. The potential corrective actions generally follow a graded approach and include the following. **Data review/focused validation:** A typical first step is to review field paperwork (e.g., chains-of-custody, sample collection logs) to ensure that sample identifiers align with analytical results. Detailed data review and focused validation can also sometimes provide insights into improper use of sample preservatives and other similar errors in sample collection. **Reanalysis:** Review of QA/QC results sometimes reflect problems that occur with the analysis of the samples. In these instances, reanalysis of an aliquot of the original sample can be requested of the analytical laboratory, assuming that there are no holding time issues with the sample aliquot. **Resampling:** If the QA/QC problem is not resolved using the approaches described above, resampling might be necessary. The decision to resample is largely dependent on the schedule for the subsequent sampling round. For instance, if a sampling round is scheduled for a site on a quarterly basis, the sample collected for that round should suffice in filling the data gap. If the site is on an annual sampling schedule, it might be necessary to resample after the discovery of a QA/QC concern if it would leave an important data gap based on project DQOs. If a certain unacceptable QA/QC condition persists, then pursuing the source of the problem and making root-level corrections in a specific portion of the process will be initiated. An example of this situation includes corrections or modifications that might be made to an equipment decontamination process.