Water, Air, Monitoring & Analysis

LLNL-AR-411431-12-3

LLNL Experimental Test Site, Site 300 Compliance Monitoring Report for Waste Discharge Requirement (WDR) Order No. R5-2008-0148

Annual/Second Semester Report 2011

Author

Richard G. Blake





Table of Contents

Cer	tificati	on	iii
List	of Ab	breviations and Acronyms	iv
Exe	cutive	Summary	Summ-1
1.	Intro	oduction	1
2.	Sewa	age Evaporation and Percolation Ponds	3
	2.1.	Effluent and Pond Compliance Monitoring Program	3
	2.2.	Sewage Pond Wastewater Sampling and Analysis	4
	2.3.	Sewage Pond Wastewater Monitoring Results	4
	2.4.	Ground Water Sampling and Analysis	4
	2.5.	Ground Water Monitoring Results	5
3.	Cool	ling Tower Network	5
	3.1.	Cooling Tower Compliance Monitoring Program	5
	3.2.	Cooling Tower Blow Down Effluent Sampling and Analysis	5
	3.3.	Cooling Tower Blow Down Monitoring Results	6
	3.4	Cooling Tower Percolation Pit Monthly Inspections	7
4.	Mec	hanical Equipment Effluent Monitoring	7
	4.1.	Mechanical Equipment Discharge Monitoring Program	7
	4.2.	Mechanical Equipment Effluent Sampling and Analysis	7
	4.3.	Mechanical Equipment Effluent Monitoring Results	7
	4.4.	Mechanical Equipment Percolation Pit Monthly Inspections	8
5.	Perm	nit Related Summaries and Updates	8
	5.1.	Regulatory Correspondence	8
Ref	erence	s	9
Ack	nowle	edgments	11
		List of Figures	
Figi	are 1.	Locations of Site 300 facilities with septic systems and percolation pits	2

Appendices

Appendix A Sewage Evaporation and Percolation Pond Network

Field Tracking Forms

Sewer Pond Inspection Reports

Ground Water Sampling Data Forms

Historical Data Plots: Sewage Evaporation Pond and Percolation Pond Network (ISWP, ESWP, and Ground Water Wells)

Appendix B Cooling Tower Network

Cooling Tower Blow Down Effluent Monitoring Network with Discharges to Percolation Pits (Bldgs. 801, 809, 812, 817A, 825, 826, 827A, and 851) and Cooling Tower Percolation Pit Inspection Forms

Appendix C Mechanical Equipment Network

Mechanical Equipment Discharge Effluent Monitoring for Buildings 806A and 827A, 827C, 827D, and 827E

Mechanical Equipment Room and Cooling Tower Percolation Pit Inspection Forms

Certification

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate, and the work was performed in accordance with professional standards.



Richard G. Blake

California Professional Geologist

No. 5550

License expires: July 30, 2012

Date

List of Abbreviations and Acronyms

3CMP samples collected at Site 300 for Compliance Monitoring Program

3EMG samples collected at Site 300 for the Permits and Regulatory Affairs Division

3GIV samples collected at Site 300 for site investigations

3VES three casing volumes purged using an electric submersible pump

BCLABS-BAK BC Laboratories, Inc. in Bakersfield, CA

BOD Biochemical oxygen demand

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CMP Compliance Monitoring Program (conducted under CERCLA)
CMR Compliance Monitoring Report (prepared under CERCLA)

CoC chain-of-custody form

CVRWQCB Central Valley Regional Water Quality Control Board

DO dissolved oxygen

DSWP sewage percolation pond influent sampling location

DTW depth to (ground) water

EC electrical conductivity, or specific conductance (SC)

EFA Environmental Functional Area

ESWP sampling location within sewage evaporation pond

GF Grundfos pump

FRUITGROWL FGL Environmental Laboratories in Stockton, CA

ft feet

gal gallons

gpm gallons per minute (measurement of flow)

GWE Ground water elevation (above mean sea level)

HSU hydrostratigraphic unit ID identification number

ISWP sewage evaporation pond influent sampling location

LLNL Lawrence Livermore National Laboratory

MCL maximum contaminant level (for drinking water)

mL milliliters

List of Abbreviations and Acronyms (Continued)

MPN most probable number

MRP monitoring and reporting program

mV millivolts (measure of oxidation-reduction potential)

NA not applicable

ND none detected, or not detected

NO₃ nitrate

NR analysis not required by Permit at this sampling location

pH measure of the acidity or alkalinity of a solution

OG off gassing measured by scale of 1-5, 5 being high amounts of off gassing

OU Operable Unit under CERCLA

Q flow rate, or number of well volumes purged (according to context)

Qal Quaternary Age alluvial deposits

QC quality control

Qt Quaternary Age terrace deposits

RHWM Radioactive and Hazardous Waste Management

SC specific conductance, or electrical conductivity (same as EC)

SHO short analytical holding time (such as samples for coliform bacteria analyses)

VOA samples collected for analysis of volatile organic compounds

WDR waste discharge requirements (Permit)

Executive Summary

Under authority of the State of California, and required by the Porter-Cologne Water Quality Control Act, the Central Valley Regional Water Quality Control Board (CVRWQCB) issued Order No. R5-2008-0148 for the Experimental Test Site (Site 300), to Lawrence Livermore National Laboratory (LLNL). Monitoring and Reporting Program (MRP) Number R5-2008-0148 was adopted in September 2008, and revised effective December 1, 2009. The revised MRP terms and conditions have been implemented in this report. Under the terms of this MRP, LLNL submits semiannual and annual monitoring reports detailing its Site 300 discharges of domestic and wastewater effluent to sewage evaporation pond and percolation pond in the General Services Area, and cooling tower blow down to percolation pits and septic systems, and mechanical equipment discharges to percolation pits located throughout the site.

This report contains all the elements required by Waste Discharge Requirement (WDR) Order R5-2008-0148 for the second semester/annual report for 2011 and updates the status of equipment and facilities since the adoption of R5-2008-0148. Permit terms and conditions were met for all permitted networks. Compliance certification accompanies this report, as required by the permit.

1. Introduction

Site 300, operated by Lawrence Livermore National Security, LLC, is located in the Altamont Hills approximately 10.5 kilometers (6.5 miles) southwest of downtown Tracy, California. Required monitoring for specific Lawrence Livermore National Laboratory (LLNL) Site 300 monitoring networks is defined in the Monitoring and Reporting Program (MRP) Order Number R5-2008-0148, which was adopted in September 2008, and revised effective December 1, 2009. The revised MRP has been implemented in this report. Applicable reporting requirements are found in the Standard Provisions and Reporting Requirements specified in the Waste Discharge Requirements (WDR) Order R5-2008-0148 (CVRWQCB, 2008) permit and in the MRP R5-2008-0148.

This report provides a summary of monitoring in designated networks conducted during the first and second semesters of 2011 under the revised MRP R5-2008-0148 (CVRWQCB, 2008). The report details the monitoring results of the three compliance networks and presents analytical data, field summary sheets, and inspection logs associated with discharges at the networks.

Compliance monitoring networks discussed in the report include:

- Sewage evaporation and percolation ponds wastewater and ground water monitoring (Sections 2.1 through 2.5).
- Cooling tower blow down discharge monitoring and percolation pit inspections (Sections 3.1 through 3.4).
- Mechanical equipment effluent discharge monitoring and percolation pit inspections (Sections 4.1 through 4.4).
- Status of special studies.

BC Laboratories, Inc. and FGL Environmental Laboratory provided off-site analytical support for the monitoring networks.

This annual/second semester report summarizes the 2011 activities associated with these monitoring networks including: tabular summaries or data plots for all data for at least the last five years; ground water elevation contour map with well locations; identification of any data gaps or deficiencies; and a discussion of any changes to the monitoring program.

Figure 1 shows the locations of the wastewater systems permitted under WDR R5-2008-0148, including mechanical equipment percolation pits and the sewage oxidation and percolation ponds (sewage ponds) located in the General Services Area. None of the permitted mechanical equipment percolation pits overflowed during this monitoring period, and no standing water was observed within the Cristy boxes. There were no detected impacts to ground water around the sewage ponds. Discharges from cooling towers and mechanical equipment were consistent with historic information provided in the Report of Waste Discharge submitted for the renewal of WDR 96-248.

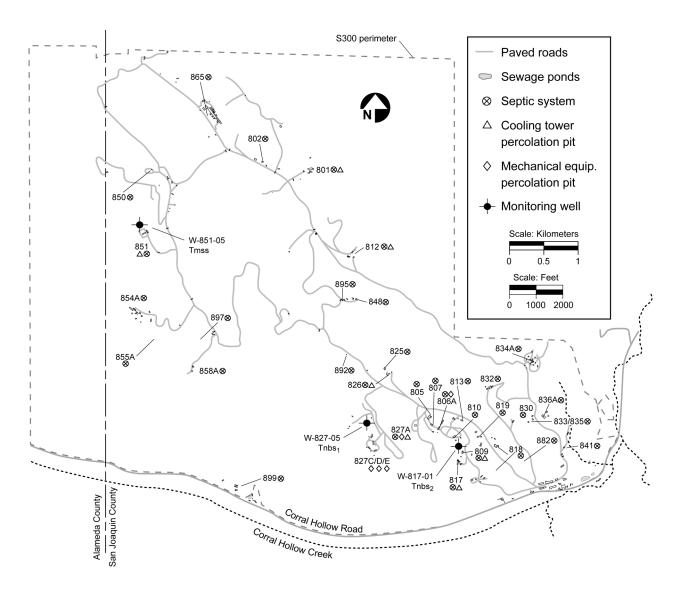


Figure 1. Locations of Site 300 facilities with septic systems and percolation pits.

2. Sewage Evaporation and Percolation Ponds

2.1. Effluent and Pond Compliance Monitoring Program

MRP R5-2008-0148 requires semi-annual samples be collected of wastewater flowing into the sewage evaporation pond (sewage pond) for analysis. Sample collection is by grab sampling from a location west of the sewage pond (see sampling location ISWP in **Appendix A**, **Figure A-1** showing the Site 300 sewage evaporation and percolation ponds and ground water and wastewater compliance monitoring locations.) Location ISWP is a port in a pipe that captures all waste streams before they flow into the sewage pond. The samples are analyzed for specific conductance (SC, or electrical conductivity), pH, and biochemical oxygen demand (BOD).

MRP R5-2008-0148 also requires samples be collected of wastewater within the sewage pond and wastewater discharging into the sewage percolation pond. Semiannual wastewater samples are collected by grab sampling from a dock at the eastern end of the sewage pond (sampling location ESWP) and analyzed for SC, pH, metals, dissolved oxygen (DO), BOD, and total and fecal coliform. Any discharge from the sewage pond to the sewage percolation pond (sampling location DSWP) is grab sampled and analyzed for the same constituents. Permit WDR R5-2008-0148 requires LLNL to operate the sewage pond with adequate freeboard to minimize the frequency of discharges to the sewage percolation pond. No wastewater discharges occurred to the sewage percolation pond during the second semester 2011.

Observations of the sewage pond are made and recorded at least monthly for freeboard, color, odor, and levee condition. **Appendix A** contains several second semester 2011 data sets including; field tracking forms, sewer pond inspection reports, ground water sampling data forms, historical data plots for the sewage evaporation pond, and percolation pond network, and ground water well field observation forms for the sewage pond. Inspection reports indicate some animal burrows are observed in the levee from time to time. These burrows continue to be monitored by operations personnel to ensure that the integrity of the levee is not compromised.

Leak detection and monitoring compliance at the sewage evaporation and percolation ponds is accomplished by monitoring the shallow ground water beneath and adjacent to the ponds. Ground water monitoring includes semiannual sampling during the first and second semesters when ground water levels are the highest and lowest and analysis of the collected samples for SC, pH, total and fecal coliform, chloride, nitrate, sulfate, total dissolved solids, sodium, and metals. In addition, ground water elevations are routinely recorded and contoured (**Appendix A**, **Figure A-1**) with respect to the ponds, and tables of ground water specifications and elevations for the second semester 2011 for each well are provided (**Appendix A**, **Tables A-1 and A-2**).

In addition to normal operation of the sewer evaporation pond, several discharges to the sewer pond occurred that were associated with the beneficial use of discharged water. These discharges were in preparation for potable water delivery to Site 300 from the San Francisco Public Utility District Hetch Hetchy water system. In this case, eleven discharges associated with the final pipeline flushing were reused as evaporation loss makeup water to the sewage pond. These discharges occurred between July 15 through November 30, 2011.

2.2. Sewage Pond Wastewater Sampling and Analysis

For the sewage pond wastewater sampling and analysis, calibration is performed on DO, SC, and pH meters less than 12 hours before sampling. DO, SC, pH, and temperatures of the samples are measured and written on the field tracking forms (field logs) when the grab samples from ISWP, ESWP, and DSWP are collected. Chain-of-custody (CoC) forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

The samples required under MRP R5-2008-0148 for locations ISWP and ESWP were collected on September 19, 2011. These samples, and all samples collected with results presented in this report, were collected, analyzed, and results entered into the Environmental Functional Area (EFA) database according to a complete set of written protocols documented in the LLNL Environmental Protection Department's Environmental Monitoring Plan (Gallegos, 2012).

2.3. Sewage Pond Wastewater Monitoring Results

Results are summarized here for samples collected during the monitoring period as required under MRP R5-2008-0148. Monitoring data are found in **Appendix A**. Coliform, anion, BOD, DO, and specific conductance data summaries are presented in **Table A-3**. A metal data summary for the location ESWP is found in **Table A-4**. **Table A-5** provides a duplicate (QA) sampling data summary for the sewage pond's wastewater monitoring network. All results and observations were in compliance with the Permit's discharge specifications. Adequate free board was provided to prevent any over-topping or erosion of the pond embankment. Field tracking forms are provided in **Appendix A**, which also contains the field logs, including field measurements. The CoCs and laboratory analytical results are stored at LLNL and are available upon request.

2.4. Ground Water Sampling and Analysis

Semiannual sampling of ground water from wells at the sewage evaporation and percolation ponds was performed during the second semester of 2011. Ground water samples were collected and analyzed, and results entered into the EFA database according to written protocol (Goodrich and Lorega, 2009). The monitor wells were purged and sampled during two phases, from July 18 to August 22, and from November 14 to November 18, 2011, according to prescribed methods assigned to each monitor well. Information regarding the conditions during sampling, as well as field measurements taken at the time of sampling, is found in the ground water sampling data sheets located in **Appendix A**. The collected samples were transferred to an offsite analytical laboratory for physical parameters and analyses listed in **Section 2.1**. Following the initial sampling event, each well was treated with a pre-calculated dose of chlorine and pumped to circulate the chlorine throughout the water column. On the following day, wells were tested for residual chlorine and samples collected to be analyzed for total and fecal coliform bacteria at an offsite analytical laboratory. Wells that tested positive for chlorine were pumped until chlorine was not detected prior to sampling, according to the aforementioned written protocols.

2.5. Ground Water Monitoring Results

All monitored parameters were in compliance with the Permit limits; ground water data are presented in Tables found in **Appendix A**. Anion data are listed in **Table A-6**. Coliform data are found in **Table A-7**. **Table A-8** provides a summary of physical chemistry data and **Table A-9** lists metals data. QA data summaries for the monitoring network are located in **Table A-10**. During the second semester, fecal coliform bacteria (**Table A-7**) was not detected over the reporting limit in any monitoring wells. Total coliform was detected in wells W-26R-05 (2.0MPN/100mL) and W-26-R-11 (4 MPN/100mL); however, the absence of fecal coliform indicates the septic system is probably not the source of the detected coliform. LLNL will continue to monitor these wells for total and fecal coliform.

Appendix A, Figure A-2 contains the ground water elevation contour map for the most shallow ground water zones (Hydrostratigraphic Units [HSUs]) in the sewage evaporation and percolation ponds area. This map reflects ground water elevation levels from August 3 to December 12, 2011. The sewer pond ground water network map showing concentrations of nitrates is presented in **Appendix A, Figure A-3**. **Figure A-3** also provides data tables for nitrates and other monitored constituents to assist the reader in evaluating the data presented in this report. The CoCs and laboratory analytical results are archived at LLNL and are available upon request.

3. Cooling Tower Network

3.1. Cooling Tower Compliance Monitoring Program

Monitoring required for the cooling tower blow down is specified in MRP R5-2008-0148. LLNL implemented the cooling tower blow down monitoring starting the fourth quarter of 2008. Applicable reporting requirements are found in the Standard Provisions and Reporting Requirements of WDR R5-2008-0148 and the MRP.

Cooling towers located at Site 300 discharge either into percolation pits or into septic systems. Currently, there are eight operating cooling towers. The cooling tower locations are identified in **Appendix B, Figure B-1**. The cooling tower located at Building 825 discharges to a septic system. The remaining cooling towers located at Buildings 801, 809, 817, 826, 827, and 851 all discharge to percolation pits. The two original cooling towers located at Building 851 were replaced in the second semester 2009 with a single new cooling tower. The two cooling towers located at Building 827 have blended cooling water and a combined discharge line and therefore only one sample was collected to characterize the discharge of these cooling towers.

MRP R5-2008-0148 requires semi-annual sampling of the cooling tower blow down. Grab samples are collected from the water circulating in the cooling tower, either at a valve or a drainpipe. The grab samples are collected directly into the containers specified by the laboratory. Samples are analyzed for metals, pH, sodium, SC, sulfate, total alkalinity, total dissolved solids, total hardness, and total phosphorus.

3.2. Cooling Tower Blow Down Effluent Sampling and Analysis

Second semester 2011 routine cooling tower blow down samples were collected on October 19, 2011. For the cooling tower blow down sampling and analysis, calibration is performed on SC

and pH meters less than 12 hours before sampling. SC and pH data measured in the field are written down on field tracking forms. CoC forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

3.3. Cooling Tower Blow Down Monitoring Results

Analytical results for the Building 826 cooling tower blow down routine samples collected on October 19 were significantly higher or inconsistent with first semester 2011 data. These discrepancies appear in anions (**Table B-1**), metals (**Table B-2**), and physical characteristics (**Table B-3**) data. An inspection of the cooling tower operations after the sampling event indicated that the circulation pump at the Building 826 cooling tower was not functioning properly at the time of the October 19 sampling. Therefore, the pump was taken out of service and repaired. Subsequently, the cooling tower was resampled on January 30, 2012 and the new data in **Tables B-1** through **B-3** are consistent with first semester sample results, and all other data are generally consistent with data found in WDR Order No. R5-2008-0148, Attachments 16 and 20, with the following exceptions:

- Copper concentrations in samples collected ranged from 6.1 μg/L to 9.8 μg/L, as compared to the concentrations summarized in the WDR attachments (5.6 μg/L to 8.3 μg/L). Cooling towers at Building 826 (9.8 μg/L) and Building 827 (9.8 μg/L) had elevated copper values. The value of the copper in the Building 827 cooling tower effluent was slightly lower than last semester (9.8 μg/L vs. 25 μg/L last semester) and the effluent at Building 826 was higher (9.8 μg/L vs. 5.6 μg/L last semester). **Table B-2** presents metals results data in units of μg/L.
- Molybdenum concentrations in samples collected ranged from <25 μ g/L to 95 μ g/L, which is greater than the concentrations of data summarized in the WDR attachments (<25 μ g/L to 31 μ g/L). The cooling towers at Buildings 801 (95 μ g/L) and 827 (25 μ g/L) were two of the cooling towers that showed elevated molybdenum concentrations in the second semester 2011 results. **Table B-2** presents metals results in units of μ g/L. LLNL will continue to closely evaluate future molybdenum data.
- Zinc concentrations in samples collected ranged from <20 μ g/L to 100 μ g/L and were slightly lower than zinc concentrations last semester, but slightly greater than the concentrations of data summarized in the WDR attachments (<20 μ g/L to 44 μ g/L). The cooling towers at Buildings 817 (66 μ g/L) and 826 (100 μ g/L) were two of the cooling towers that showed the most elevated zinc concentrations in the second semester 2011 results. **Table B-2** presents metals results in units of μ g/L.

Although the concentrations for copper, molybdenum, and zinc are slightly above the range in the WDR attachments, the discharge concentrations are well below the values calculated using the Designated Level Methodology to impact ground water. LLNL will continue to closely evaluate future copper, molybdenum, and zinc data.

All cooling tower sample results are listed in **Appendix B** along with the Quality Assurance results, field tracking forms, and CoCs. **Table B-1** lists anion data, **Table B-2** lists metals

results, and **Table B-3** provides data on the required physical characteristics. QC data from duplicate sampling is provided in **Table B-4**.

3.4. Cooling Tower Percolation Pit Monthly Inspections

Since the first semester 2010, LLNL implemented monthly visual inspections of the cooling tower percolation pits located at Buildings 801, 809, 812, 817A, 826, 827A, and 851 (**Appendix B, Figure B-1**), which collect effluent from the cooling towers as specified in MRP R5-2008-0148.

If standing water is present, the MRP requires the inspection frequency to be increased to weekly until standing water is no longer visible. Visual inspections are conducted to verify the percolation pits are working properly and do not have the potential to overflow. Copies of the inspection forms are found in **Appendix B**. No standing water was observed and no overflows were reported during this semester, except for the cooling tower at Building 801 that showed standing water during the October 18 inspection. The follow-up inspection on November 2 indicated normal operations.

4. Mechanical Equipment Effluent Monitoring

4.1. Mechanical Equipment Discharge Monitoring Program

Monitoring required for mechanical equipment discharge effluent to percolation pits is specified in the MRP R5-2008-0148. During the first semester of 2010, LLNL first implemented the monitoring elements for the identified mechanical equipment systems located at Buildings 806B, 827A, 827C, 827D, and 827E. **Appendix C, Figure C-1** provides the locations of those systems.

4.2. Mechanical Equipment Effluent Sampling and Analysis

The results for the mechanical equipment room effluent monitoring for the second semester of 2011 are reported in **Appendix C**. Monitoring is performed using composite sampling from Cristy boxes that allows an automatic sampler to be placed within the boxes, allowing composite samples to be collected during operations. During this sampling period, samples were taken from the Buildings 806B, 827A, 827C, 827D, and 827E locations.

For the sampling and analysis of mechanical equipment effluent, CoC forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs, provided in **Appendix C**. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

4.3. Mechanical Equipment Effluent Monitoring Results

Sample analytical results for this monitoring network are presented in **Appendix C**. Results are consistent with data found in Attachments 5 and 6 in the MRP R5-2008-0148. **Table C-1** lists anion data, **Table C-2** lists metals results and **Table C-3** provides data on the required physical characteristics. Data from duplicate sampling is provided in the data tables.

4.4. Mechanical Equipment Percolation Pit Monthly Inspections

MRP R5-2008-0148 requires monthly inspections of the five mechanical equipment percolation pits located at Buildings 806B, 827A, 827C, 827D, and 827E (**Appendix C, Figure C-1**). **Appendix C** contains the second semester 2011 mechanical equipment percolation pit inspection checklists. If standing water is visible during the inspection, the inspection frequency for the percolation pit with the standing water is increased to weekly until no standing water is visible. During the second semester, standing water was observed at B827A on November 7 and November 14. The follow up inspection on November 21 indicated routine operations.

5. Permit Related Summaries and Updates

5.1. Regulatory Correspondence

The following letters or verbal communication has been provided to the CVRWQCB during 2011 and are summarized below.

- Well abandonment correspondence. Telephoned Marcus Pierce at the CVRWQCB on January 25, 2012 and indicated that LLNL proposes to abandon monitoring well W-25N-20, a downgradient well at the Site 300 sewer pond. It has been determined that this well has a cracked casing and the integrity of the well is in question. This well is one of seven downgradient wells at the sewer pond and any contaminant that could potentially originate from the sewer pond would be detected in the remaining ground water monitoring wells. LLNL believes that a replacement well is not necessary because of the location of other downgradient wells, and is requesting permission to abandon this well. LLNL has prepared a letter to CVRWQCB for concurrence.
- Stormwater Cleanout Letter: Submitted letter to CVRWQCB on November 2, 2011 regarding discharge of storm drain clean-out water as make-up water to the sewage evaporation pond at Site 300 under permit WDR-R5-2008-0148. Storm drain cleanout activities are necessary at S300 and the discharge from these activities could be a waste discharge requiring disposal. LLNL requested and the CVRWQCB concurred that the discharge is consistent with our existing permit, which covers the Sewer Evaporation Pond (R5-2008-0148). Cleanout activities that can be performed consistent with Attachment 4 of the permit "Culvert Flushings" will not require discharges to the Sewer Evaporation Pond.
- Mercury Monitoring letter: Submitted letter to CVRWQCB on May 18, 2011 regarding mercury monitoring in WDR-R5-2008-0148 ground water monitoring wells. LLNL is requesting the removal of the mercury monitoring requirement, which appears to have been inadvertently added to the Monitoring and Reporting Program during the 2009 revision. We are awaiting a response from the CVRWQCB, and in the meantime, according to the MRP, we have performed mercury analyses from ground water samples from these wells. Mercury analysis results for all of these wells indicate non-detect values. This data will be presented in the first semester 2012 report. Based on these results, LLNL continues to request that mercury be removed from the MRP.
- Building 835 Septic Tank System Replacement/Repair: A letter was submitted on July 15, 2011, notifying the CVRWQCB within 30 days of planned septic system replacement. LLNL is currently investigating the condition of the septic tank and a repair without replacement may be possible.
- 14-Day letter: A release at B-827 from an above ground tank was reported to the CVRWQCB on July 15, 2011. All corrective actions have been implemented.

References

- Blake, R. (2008), LLNL Experimental Test Site 300 Compliance Monitoring Report for WasteDischarge Requirements 96-248, First Quarter 2008, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-AR-125915-08-1).
- Brown, R. (2006), LLNL Experimental Test Site 300 Compliance Monitoring Report for WasteDischarge Requirements 96-248, First Quarter 2007, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-AR-125915-07-1).
- Campbell, Chris (2010), Record of Communication (ROC) to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: *Algae Removal at the Site 300 Sewer Pond, Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, ROC PRAD10:091, April 14, 2010.
- Clesceri, L.S., Greenberg, A.E., and Eaton, A.D., Ed. (1998), *Standard Methods for the Examination of Water and Wastewater*, 20th ed.
- Condon, C. (2006), Letter from the Central Valley Regional Water Quality Control Board to Ellen Raber re: *Revision of Monitoring and Reporting Program 96-248, Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, March 7, 2006.
- CVRWQCB (1991), Standard Provisions and Reporting Requirements for Waste Discharge Requirements, Central Valley Regional Water Quality Control Board, March 1, 1991.
- CVRWQCB (1996), Order No. 96-248, Waste Discharge Requirements for University of California Lawrence Livermore National Laboratory Experimental Test Site (Site 300) and US Department of Energy Evaporation and Percolation Ponds and Class II Surface Impoundments, San Joaquin and Alameda Counties, September 20, 1996.
- CVRWQCB (2008), Order No. R5-2008-0148, Waste Discharge Requirements Issued To Lawrence Livermore National Security, LLC, and the U.S. Department of Energy for Lawrence Livermore National Laboratory Experimental Test Site (Site 300) Sewage Evaporation and Percolation Ponds, Septic Systems, Cooling Tower Discharges, Mechanical Equipment Wastewater Discharges, and Other Low Threat Discharges, September 2008.
- Dominic, Kathryn (2010), Letter from the Central Valley Regional Water Quality Control Board re: Report of Waste Discharge for New Equipment Under Waste Discharge Requirements No. R5-2008-0148 at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties, December 16, 2010.
- Gallegos, G. [Ed.] (2012), *Environmental Monitoring Plan*, Environmental Protection Department, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-ID-106132, Rev. 6).
- Goodrich, R., and G. Lorega (2009), *LLNL Livermore Site and Site 300 Environmental Restoration Project Standard Operating Procedures (SOPs)*, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-MA-109115 Rev. 13).
- Goodwin, S. (2007), Release of Sewage Pond Wastewater to Ground While Fighting a Wildfire at Lawrence Livermore National Laboratory Experimental Test Site (Site 300), Lawrence Livermore National Laboratory, Livermore, CA (FireSewageLtr_07_102).

- Mansoor, K., and Z. Demir (2010), Evaluation of Potential Impact to Ground Water from Percolation Pits and Septic Systems at Lawrence Livermore National Laboratory Site 300 for the Central Valley Regional Quality Control Board Waste Discharge Requirements Order No. R5-2008-0148, Lawrence Livermore National Laboratory, Livermore, CA (LLNL-AR-461303).
- Mansoor, K., and Z. Demir (2011), Evaluation of Potential Impact to Ground Water from Percolation Pits and Septic Systems at Lawrence Livermore National Laboratory Site 300 for the Central Valley Regional Quality Control Board Waste Discharge Requirements Order No. R5-2008-0148, Lawrence Livermore National Laboratory, Livermore, CA (LLNL-AR-461303. Revision 1).
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: Results of Tracer Investigation for Mechanical Equipment Discharges at Building 827A at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties, November 12, 2010.
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: *Addition of New Equipment to LLNL Building 825 Under WDR R5-2008-0148 at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, November 12, 2010(b).
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: Report Summarizing Final Hetch Hetchy Water System Pipeline Flushing and Connection for Water Delivery to Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties, December 20, 2010.
- U.S. Environmental Protection Agency (2005), Title 40 Code of Federal Regulations, Part 136.

Acknowledgments

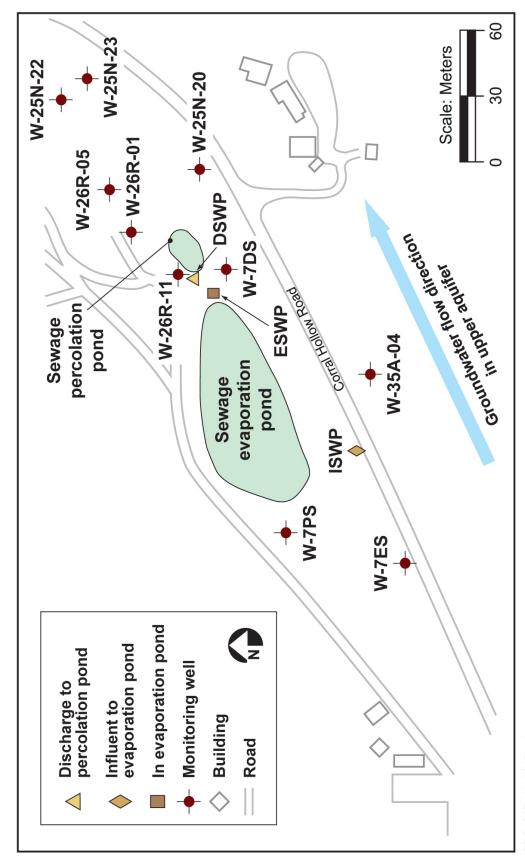
The compliance-monitoring program supporting WDR 08-0148 is large and could not be performed without the dedicated efforts of many people. The completion of this report, and the groundwork laid for future report submissions, would not have been possible without the invaluable and timely contributions of Don MacQueen, John Radyk, Suzie Chamberlain, and Dawn Chase.

Thanks are also due to Environmental Functional Area and Environmental Restoration Department sampling technologists: Bob Williams, Karl Brunckhorst, Crystal Foster, and Eric Walter; data management support, Kim Swanson; Kevin Melissare for graphic arts contributions; and Rosanne Depue for providing strong administrative assistance. Additional appreciation goes to Allen Grayson for his timely collection of field logs and inspection sheets and John Scott at Site 300 for his support in this effort.

Appendix A

Sewage Evaporation and Percolation Pond Network

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011



EDR_S3R_11_0015rev1

Figure A.1. Sewer pond wastewater and ground water monitoring network.

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011

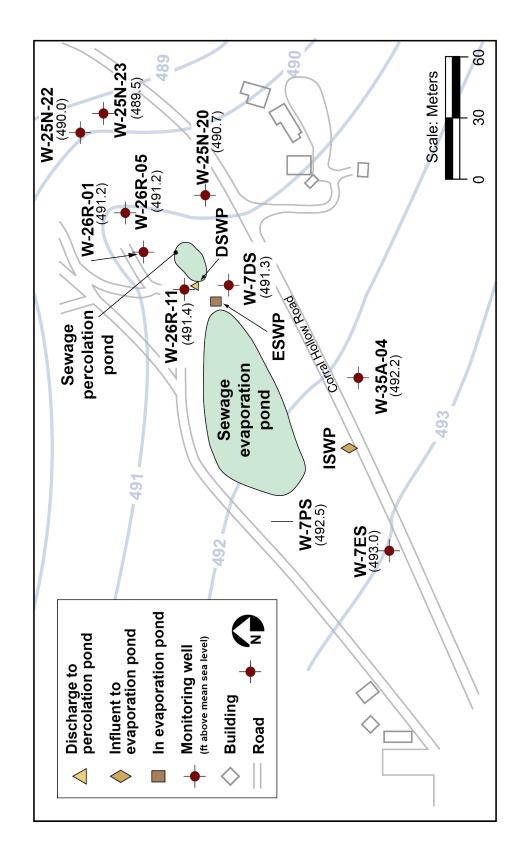
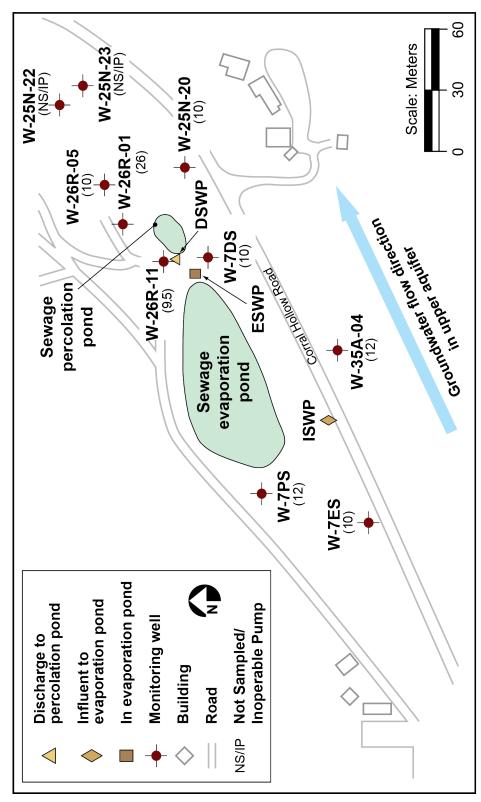


Figure A.2. Site 300 sewer pond wastewater and effluent monitoring network with ground water elevations (ft above mean sea level).

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011



EDR_S3R_12_fig_A3

Figure A.3. Site 300 sewer pond wastewater and effluent monitoring network with nitrate concentration (in mg/L).

Table A-1. Summary of Site 300 sewer pond well specifications.

				Ground	Measuring		Screen			
Well	HSU	Easting	Northing	surface elevation	point elevation	Screen top elevation	bottom elevation	Bentonite top elevation	Filter pack top elevation	Well bottom elevation
W-7ES	Qal- Tnbs ₁	1,711,719	414,586	506.41	509.71	491.41	481.41	496.41	495.41	479.61
W-7PS	Qal- Tnbs ₁	1,711,773	414,782	506.10	508.78	489.60	486.60	494.10	492.10	486.60
W-35A-04	Qal- Tnbs ₁	1,712,036	414,642	504.07	503.98	485.07	475.07	494.87	486.27	475.07
W-26R-01	Qal- Tnbs ₁	1,712,267	415,036	506.74	509.71	486.94	481.94	494.24	490.74	476.94
W-26R-11	Qal- Tnbs ₁	1,712,198	414,961	504.93	507.21	489.13	479.13	493.13	491.13	477.93
W-26R-05	Qal- Tnbs ₁	1,712,339	415,070	511.31	513.11	491.11	486.11	500.81	498.81	485.81
W-25N-20	Qal- Tnbs ₁	1,712,371	414,923	502.11	504.94	490.11	475.11	494.61	492.61	474.11
W-7DS	Qal- Tnbs ₁	1,712,206	414,880	503.30	506.60	487.80	477.80	491.80	489.80	476.30
W-25N-22	Qal- Tnbs ₁	1,712,486	415,152	510.25	513.06	492.25	482.25	497.25	495.25	481.75
W-25N-23	Qal- Tnbs ₁	1,712,521	415,109	507.58	510.39	488.58	473.58	495.08	493.08	472.28

Notes.

All measurements are made in feet; elevations are in feet above mean sea level.

HSU = Hydrostratigraphic unit.

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7ES	Jan 20	17.3	492.4
W-7ES	Feb 2	17.5	492.2
W-7ES	Feb 3	17.5	492.2
W-7ES	May 4	9.0	500.7
W-7ES	May 4	9.1	500.6
W-7ES	May 5	9.2	500.5
W-7ES	Aug 9	12.6	497.1
W-7ES	Aug 11	12.7	497.1
W-7ES	Sep 7	14.3	495.4
W-7ES	Nov 16	16.7	493.0
W-7ES	Nov 17	16.8	493.0
W-7ES	Dec 12	17.0	492.7
W-7PS	Jan 20	16.9	491.9
W-7PS	Feb 2	17.1	491.7
W-7PS	Feb 3	17.1	491.7
W-7PS	May 3	9.1	499.7
W-7PS	May 4	9.1	499.7
W-7PS	Aug 10	12.3	499.7
W-7PS	Aug 10	12.7	496.4
W-7PS	Sep 7		
W-7PS	Nov 15	14.0	494.8
W-7PS		16.3	492.5
W-7PS	Nov 16	16.3	492.5
	Dec 12	16.6	492.2
W-35A-04	Jan 25	3.1	501.0
W-35A-04	Feb 2	12.7	491.4
W-35A-04	Feb 3	12.8	491.3
W-35A-04	May 9	4.8	499.3
W-35A-04	May 10	4.8	499.3
W-35A-04	Jun 2	5.1	498.9
W-35A-04	Jun 14	5.3	498.8
W-35A-04	Aug 8	7.7	496.4
W-35A-04	Aug 9	7.8	496.3
W-35A-04	Sep 29	10.6	493.5
W-35A-04	Nov 16	11.9	492.2
W-35A-04	Nov 17	11.9	492.2
W-25N-20	Jan 20	14.5	490.4
W-25N-20	Jan 26	13.6	491.3
W-25N-20	Jan 27	14.6	490.3
W-25N-20	May 2	7.6	497.4
W-25N-20	May 3	7.6	497.3
W-25N-20	May 4	7.7	497.2
W-25N-20	Aug 3	10.0	494.9
W-25N-20	Aug 4	10.1	494.8
W-25N-20	Sep 7	12.0	492.9
W-25N-20	Dec 12	14.3	490.7
W-25N-23	Jan 20	21.2	489.2
W-25N-23	Jan 31	21.3	489.1

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-25N-23	Feb 1	21.3	489.1
W-25N-23	May 4	15.1	495.3
W-25N-23	May 26	15.3	495.1
W-25N-23	Sep 7	18.9	491.5
W-25N-23	Dec 12	20.9	489.5
W-25N-22	Jan 20	10.3	502.7
W-25N-22	Jan 31	23.6	489.4
W-25N-22	May 4	17.8	495.2
W-25N-22	Sep 7	21.2	491.8
W-25N-22	Dec 12	23.1	490.0
W-26R-01	Jan 20	19.1	490.6
W-26R-01	Jan 26	19.3	490.4
W-26R-01	Jan 27	19.2	490.5
W-26R-01	May 2	13.1	496.6
W-26R-01	May 3	11.9	497.8
W-26R-01	May 4	12.0	497.7
W-26R-01	Aug 3	14.4	495.3
W-26R-01	Aug 4	14.4	495.3
W-26R-01	Sep 7	6.5	503.2
W-26R-01	Nov 14	18.5	491.2
W-26R-01	Nov 15	18.5	491.2
W-26R-01	Dec 12	28.8	480.9
W-26R-05	Jan 20	21.5	491.6
W-26R-05	Jan 31	22.7	490.5
W-26R-05	Feb 3	25.2	487.9
W-26R-05	May 2	15.9	497.2
W-26R-05	May 5	15.9	497.2
W-26R-05	Jun 2	16.4	496.8
W-26R-05	Jul 18	17.3	495.8
W-26R-05	Jul 21	18.4	494.7
W-26R-05	Sep 7	20.1	494.7
W-26R-05	Nov 14	21.9	493.0
W-26R-05	Nov 17	21.9	491.2
W-26R-05	Dec 12	22.2	490.9
W-26R-11	Jan 20	16.4	
W-26R-11	Jan 31	16.5	490.8 490.7
W-26R-11	Feb 1	16.6	490.7
W-26R-11	May 2		495.4
W-26R-11	May 3	11.8 9.1	493.4
W-26R-11	May 4	9.1	498.1
W-26R-11	Aug 8		498.0
W-26R-11		11.8	
W-26R-11	Aug 9 Sep 7		495.3
		14.0	493.3
W-26R-11	Nov 14	15.7	491.5
W-26R-11	Nov 15	15.8	491.4
W-26R-11	Dec 12	16.1	491.1
W-7DS	Jan 20	15.3	491.3

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7DS	Feb 2	15.9	490.7
W-7DS	Feb 3	15.9	490.7
W-7DS	May 3	8.4	498.2
W-7DS	May 4	8.5	498.1
W-7DS	Aug 8	11.2	495.4
W-7DS	Aug 9	11.3	495.3
W-7DS	Sep 7	13.0	493.7
W-7DS	Nov 15	15.3	491.3
W-7DS	Nov 16	* 15.1	491.5
W-7DS	Dec 12	15.4	491.2

Table A-3. Site 300 sewer pond wastewater monitoring network second semester/annual 2011 coliform, anion, and physical characteristic data summary.

Well	Date	рН	Specific Conductance (umhos/cm)	Biochemic al Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)	Sodium (mg/L)
3-ESWP-OW	Apr 21	9.6	4,730	33	14	13,000	24,000	1,200
3-ESWP-OW	Sep 19	9.4	6,380	28	6.8	2,300	5,000	1,500
3-ISWP-OW	Apr 21	8.2	1,640	150	_	_	_	_
3-ISWP-OW	Sep 19	8.5	1,760	340	-	a	_	_

Note:

⁻⁼ Analysis not required.

LLNL Experimental Test Site 300 Compliance Monitoring Report for WDR R5-2008-0148 Annual/Second Semester Report2011

Table A-4. Site 300 sewer pond wastewater monitoring network 2011 annual/second semester report metals data summary.

Analyte	Date	3-ESWP-OW (ug/L)
Aluminum	Apr 21	140
	Sep 19	<100
Arsenic	Apr 21	2.8
	Sep 19	3.9
Barium	Apr 21	<25
	Sep 19	33
Boron	Apr 21	4,900
	Sep 19	7,000
Cadmium	Apr 21	<50
	Sep 19	<50
Calcium	Apr 21	18,000
	Sep 19	17,000
Chromium	Apr 21	2.0
	Sep 19	2.5
Hexavalent Chromium	Apr 21	<1
	Sep 19	<1
Copper	Apr 21	7.0
	Sep 19	7.8
Iron	Apr 21	440
	Sep 19	200
Lead	Apr 21	<5
	Sep 19	<5
Magnesium	Apr 21	9,800
	Sep 19	4,300
Manganese	Apr 21	<60
	Sep 19	<60
Molybdenum	Apr 21	<50
	Sep 19	75
Nickel	Apr 21	3.4
	Sep 19	5.4
Potassium	Apr 21	67,000
	Sep 19	92,000
Selenium	Apr 21	4.2
	Sep 19	6.6
Silver	Apr 21	<1
	Sep 19	<1
Vanadium	Apr 21	<20
	Sep 19	<20
Zinc	Apr 21	37
	Sep 19	20
Selenium	Apr 21	4.2
	Sep 19	6.6
Silver	Apr 21	<1
	Sep 19	<1
Vanadium	Apr 21	<20
7 970.0970.00.00	Sep 19	<20
Zinc	Apr 21	37
	Sep 19	20

LLNL Experimental Test Site 300 Compliance Monitoring Report for WDR R5-2008-0148 Annual/Second Semester Report2011

Table A-5. Site 300 sewer pond wastewater monitoring network annual/second semester 2011 QA data.

3					Biochemical				
		*		Specific	Oxygen	Dissolved			
			Hd	Conductance	Demand	Oxygen	Fecal Coliform	Total Coliform	Sodium
Location	Date	Type	Units	(muhos/cm)	(mg/L)	(mg/L)	(MPN/100mL)	(MPN/100mL)	(mg/L)
3-ESWP-OW	Apr 21	Routine	9.6	4,730	33	14	13,000	24.000	1.200
3-ESWP-OW	Apr 21	Duplicate	1	a	38	ſ			1
3-ISWP-OW	Sep 19	Routine	8.5	1,760	340	1	1	1	Ī
3-ISWP-OW	Sep 19	Duplicate	1	1,760	Ë	1	1	1	1

Note:

-= Analysis not required.

Table A-6. Site 300 sewer pond ground water monitoring network annual/second semester 2011 anions data summary.

				Nitrate		
Well	Date	Sodium	Chloride	(as NO3)	Sulfate	Fluoride
W-7ES	Feb 2	170	140	9.4	340	0.44
W-7ES	May 4		_	12	_	_
W-7ES	Aug 10	160	120	10	290	0.33
W-7ES	Nov 16	_	_	10		
W-7PS	Feb 2	190	150	17	250	0.51
W-7PS	May 3	_	_	16	_	_
W-7PS	Aug 10	190	130	14	290	0.43
W-7PS	Nov 15		_	12	_	_
W-35A-04	Feb 2	170	140	11	330	0.46
W-35A-04	May 9	_		13	_	_
W-35A-04	Aug 8	160	120	13	280	0.48
W-35A-04	Nov 16	_	_	12	_	_
W-25N-20	Jan 26	170	140	11	330	0.40
W-25N-20	May 2	_	_	12		_
W-25N-20	Aug 3	150	120	10	300	0.36
W-25N-23	Jan 31	160	110	2.1	450	0.55
W-26R-01	Jan 26	210	150	28	240	0.32
W-26R-01	May 2	_	_	22	-	_
W-26R-01	Aug 3	200	150	20	250	0.38
W-26R-01	Nov 14	-	_	26	_	_
W-26R-05	Jan 31	150	100	1.7	220	0.48
W-26R-05	May 2	-	_	19	_	_
W-26R-05	Jul 18	190	140	21	230	0.37
W-26R-05	Nov 14	_		10		_
W-26R-11	Jan 31	180	140	11	270	0.39
W-26R-11	May 2	_	_	13		-
W-26R-11	Aug 8	170	120	12	280	0.40
W-26R-11	Nov 14	_		9.5	_	_
W-7DS	Feb 2	170	140	9.6	330	0.46
W-7DS	May 3	_	_	12		_
W-7DS	Aug 8	150	120	11	290	0.41
W-7DS	Nov 15	_ **	_	10		_

Note:

-= Analysis not required.

Table A-7. Site 300 sewer pond ground water monitoring network annual/second semester 2011 coliform data summary.

Well	Date	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)
W-7ES	Feb 3	<2	<2
W-7ES	May 5	<2	<2
W-7ES	Aug 11	<2	<2
W-7ES	Nov 17	<2	<2
W-7PS	Feb 3	<2	<2
W-7PS	May 4	<2	<2
W-7PS	Aug 11	<2	<2
W-7PS	Nov 16	<2	<2
W-35A-04	Feb 3	<2	11
W-35A-04	May 10	2.0	13
W-35A-04	Aug 9	<2	<2
W-35A-04	Nov 17	<2	<2
W-25N-20	Jan 27	<2	<2
W-25N-20	May 3	<2	<2
W-25N-20	Aug 4	<2	<2
W-25N-23	Feb 1	<2	2.0
W-26R-01	Jan 27	<2	<2
W-26R-01	May 3	<2	2.0
W-26R-01	Aug 4	<2	<2
W-26R-01	Nov 15	<2	<2
W-26R-05	Feb 3	<2	<2
W-26R-05	May 5	<2	30
W-26R-05	Jul 21	<2	<2
W-26R-05	Nov 17	<2	2.0
W-26R-11	Feb 1	<2	<2
W-26R-11	May 3	<2	<2
W-26R-11	Aug 9	<2	<2
W-26R-11	Nov 15	<2	4.0
W-7DS	Feb 3	<2	<2
W-7DS	May 4	<2	<2
W-7DS	Aug 9	<2	<2
W-7DS	Nov 16	<2	<2

Table A-8. Site 300 sewer pond ground water monitoring network annual/second semester 2011 physical chemistry data.

			Specific	Total Alkalinity	Total dissolved	Total Hardness	Total Phosphorus
			Conductance	(as CaCO3)	solids	(as CaCO3)	(as PO4)
Well	Date	pН	(µmhos/cm)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
W-7ES	Feb 2	7.8	1,550	290	1,000	510	<1
W-7ES	May 4	7.8	1,280	0 = 0	-	_	
W-7ES	Aug 10	7.7	1,340	260	980	420	<1
W-7ES	Nov 16	7.7	1,500	_	_	_	_
W-7PS	Feb 2	7.8	1,490	300	980	410	<1
W-7PS	May 3	7.8	1,370	rs —	177	_	_
W-7PS	Aug 10	7.8	1,410	310	1,000	380	<1
W-7PS	Nov 15	7.7	1,510	_	=	-	_
W-35A-04	Feb 2	7.9	1,450	280	1,000	480	<1
W-35A-04	May 9	7.8	1,220	-	_	_	_
W-35A-04	Aug 8	8.0	1,370	260	920	390	<1
W-35A-04	Nov 16	7.7	1,470	(-)	-	_	_
W-25N-20	Jan 26	8.0	1,380	280	1,000	480	<1
W-25N-20	May 2	7.6	1,270	S - 2	-	_	- 7
W-25N-20	Aug 3	7.8	1,150	270	920	390	<1
W-25N-23	Jan 31	7.6	1,480	200	1,100	450	<1
W-26R-01	Jan 26	8.0	1,290	250	940	280	<1
W-26R-01	May 2	7.8	1,400	-	_	-	_
W-26R-01	Aug 3	7.8	1,200	260	950	260	<1
W-26R-01	Nov 14	7.8	1,400	_	-	==:	_
W-26R-05	Jan 31	8.0	1,100	210	760	240	<1
W-26R-05	May 2	8.0	1,320	_	_	-	_
W-26R-05	Jul 18	7.8	1,360	240	840	280	<1
W-26R-05	Nov 14	8.2	1,230	_	_	=	
W-26R-11	Jan 31	7.7	1,430	280	940	400	<1
W-26R-11	May 2	7.7	1,280	_		 /	_
W-26R-11	Aug 8	7.7	1,400	280	960	390	<1
W-26R-11	Nov 14	7.8	1,430		=	=:	_
W-7DS	Feb 2	7.8	1,520	280	1,000	490	<1
W-7DS	May 3	7.9	1,300	-	-	_	_
W-7DS	Aug 8	7.9	1,370	260	920	400	<1
W-7DS	Nov 15	7.8	1,460	_	=	=	_

Note:

⁻⁼ Analysis not required.

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011

Table A-9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary.

Name	Analytic (mark) That any and any	D. 45	O TO A	747 AD	0 7 2 7 10	00 1430 144					
Name Jan San San	Allalyte (µg/L)	Date	W-/ES	W-/F3	W-35A-04	W-25N-20	W-25N-25	W-26K-01	W-26R-05	W-26R-11	W-7DS
New CSO CSO	Aluminum	Jan	1	ı	1	<50	<50	<50	<50	<50	ļ
Jul		Feb	<50	<50	<50	ı	1	Ē		1	<50
c Aug <50 <50		Jul	1	1	-	1	1	ı	<50		1
c Jan - - - 2.9 <2 9.2 7.9 3.3 Jul -		Aug	<50	<50	<50	<50		<50	1	<50	<50
Feb 2,4 3,5 3,7	Arsenic	Jan	ï	î	Ť	2.9	<2	9.2	7.9	3.3	9
Aug 4.1 - - - - - 7.9 - Aug 4.1 4.9 3.1 - - - 7.9 - Aug 4.1 4.9 2.1 - - - - - Aug 5.1 6.1 44 - - - - - - Aug 4.5 6.3 37 41 -		Feb	2.4	3.5	3.7	-	1	1	1	1	3.1
Aug 4.1 4.9 4.3 2.1 - 7.6 - 3.7 1 Nov - - - 49 29 35 28 5.3 1 Feb 51 61 44 -		Jul	Ĩ	ī	1	-	1	1	7.9	E	L
Nov - 3,9 - <td></td> <td>Aug</td> <td>4.1</td> <td>4.9</td> <td>4.3</td> <td>2.1</td> <td>E</td> <td>9.7</td> <td>Ē</td> <td>3.7</td> <td>3.1</td>		Aug	4.1	4.9	4.3	2.1	E	9.7	Ē	3.7	3.1
Jan - - - 49 29 35 28 53 Jul - - - - - - - - - Jul - - - - - - - - - Nov -		Nov	t	Ê	3.9	-	2 202	-	1	1	ī
Feb 51 61 44 .	Barium	Jan	î	Ē	Ē	49	29	35	28	53	1
Jul —		Feb	51	61	44	Ĩ.	1	1	1	1	50
Aug 45 63 37 41 — 33 — 50 Nov — — 43 — <t< td=""><td></td><td>Jul</td><td>Í</td><td>ĩ</td><td>Ĩ</td><td>Ĩ</td><td>-</td><td>1</td><td>32</td><td>1</td><td>H</td></t<>		Jul	Í	ĩ	Ĩ	Ĩ	-	1	32	1	H
Nov — 43 —		Aug	45	63	37	41	-	33	1	50	42
Jan — — 2,700 1,300 1,700 1,100 2,500 Feb 2,800 2,400 3,000 — 2,400 —		Nov	1	Ĩ	43	ì	1		100	1	1
Feb 2,800 2,400 3,000 —	Boron	Jan	1	Ĩ.	ì	2,700	1,300	1,700	1,100	2,500	
Jul — — — — — 1,400 — Aug 2,500 2,500 2,400 — 1,700 — 2,400 Jan — — — — — 2,400 — 2,400 Jul — — — — — — — — Nov — — — — — — — — Jul — — — — — — — — — Jul — — — — — — — — Jul — — — — — — — — Aug 97,000 88,000 88,000 110,000 — — — — — — Jul — — — — — — — — Feb		Feb	2,800	2,400	3,000	1	1	Ĺ	1	E	2,800
Aug 2,500 2,500 2,400 — 1,700 — 2,400 Jan — — — — — — 2,400 Feb — — — — — — — Jul — — — — — — — Nov — — — — — — — Jul — — — — — — — — Jul — — — — — — — — Jul — — — — — — — — Jul — <td></td> <td>Jul</td> <td>ı</td> <td>ı</td> <td>ı</td> <td>Î</td> <td>1</td> <td>Ĭ</td> <td>1,400</td> <td>1</td> <td>ı</td>		Jul	ı	ı	ı	Î	1	Ĭ	1,400	1	ı
Jan —		Aug	2,500	2,500	2,500	2,400	1	1,700	1	2,400	2,400
Feb <50 <50 <50 -	Cadmium	Jan	I	I	1	<50	<50	<50	<50	<50	1
Aug <50 <50 <50 <50 <50 Nov - - <50		Feb	<50	<50	<50	1	1	1	1	1	<50
Aug <50 <50 <50 <50 <50 Nov -		Jul	1	1	1		1	1	<50	ı	ı
Nov — <0.5 — <td></td> <td>Aug</td> <td><50</td> <td><50</td> <td><50</td> <td><50</td> <td>1</td> <td><20</td> <td>Ê</td> <td><50</td> <td><50</td>		Aug	<50	<50	<50	<50	1	<20	Ê	<50	<50
Jan — — — — — 110,000 58,000 91,000 Feb 11,0000 93,000 110,000 —		Nov	1	1	<0.5	1	3		ľ	1	1
Feb 11,0000 93,000 110,000 —	Calcium	Jan	1	1	1	110,000	110,000	70,000	58,000	91,000	1
Jul — — — — 70,000 — Aug 97,000 88,000 88,000 — 66,000 — 89,000 Jan — — — — 89,000 — 89,000 Feb <1		Feb	11,0000	93,000	110,000	Ü	Ĭ.	1	E	-	110,000
Aug 97,000 88,000 88,000 - 66,000 - 89,000 Jan - - - 1.1 <1		Jul	172	ť	Ü	ı	1	1	70,000	1	-
Jan —		Aug	97,000	88,000	88,000	89,000	ı	000'99	1	89,000	92,000
<1	Chromium	Jan	Ī	I	I	1.1	7	<1	<1	<1	-
- -		Feb	7	1.6	1.4	1	ı	1	-		1.5
<1 1.1 1.1 <1 - <1 - <1		Jul	j	1	1	j	1		<1	1	
		Aug	∇	1.1	1.1	⊽	Ė	< <u>-</u> 1	Ĺ	<1	<1
		Nov	I	0 <u>577</u> 0	1.0	ï	Ü	Ü	1	-	ſ

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011

Table A-9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary. (Cont.)

Amolute (me/f) Date W 7DC W 7DC	Jack.	W 7EC		VI 25 4 04	OC MAC MA	00 1x10 1xx		AXI OF A AXI AND AXI AND AXI AND AXI AND AXI AND AXI AND AXI AXI AND AXI	un y (Court)	
many to (4g/L)	Date	W=/ES	W-/FS	W-35A-04	07-NIC7-W	W-25IN-23	W-26K-01	W-26K-05	W-26K-11	W-7DS
Hexavalent	Jan	1	1	1	√1		₩	[[>	1
Chromium										-
	Feb	₩	√	7	_		1	ı	9	~
	Jul	Ê	Ĺ	1	1	_	-	⊽	1	1
	Aug	⊽	\	7	<1	_	<1		⊽	⊽
Copper	Jan	Ī	ï	1	1.2	1.7	2.4	1.8	⊽	1
	Feb	1.1	1.4	1.4	-	_		1	E	1.3
	Jul	ī	ī	1	_	1	1	1.4	1	1
2)	Aug	7	\ <u>\</u>	<1	1.1	ľ	1.9	Ľ	7	\[\text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \qq\qq \qq\qq\qq\qq\qq\qq\qq\qq\qq\qq\qq\qq\qq
	Nov	ì	1	<10	f	_	ı	1	1	1
Iron	Jan	l	Ē	Ē	<100	<100	<100	<100	<100	1
	Feb	<100	<100	<100	-	1	1	1	1	<100
	Jul	ı	ı	1	:	2 man		<100	1	1
	Aug	<100	<100	<100	<100	1	<100	Ē	<100	<100
Lead	Jan	1	1	1	<5	<5	<5	<>	\$	1
	Feb	\$	\$	\$	75	ľ	-	Ē	t	\$
	Jul	ı	I	1	ř	Ē	Û	<5	T.	-
	Aug	\$	❖	\$	\$	ř	<5	1	<\$	\$
	Nov	1	1	2	Î	Î	ı	1	1	1
Magnesium	Jan	ı	1	ı	50,000	44,000	26,000	22,000	42,000	1
	Feb	54,000	43,000	52,000	1	1	5000	-	1	52,000
	Jul	ı	ı	1	1	1	1	26,000	-	1
	Aug	44,000	40,000	41,000	41,000	1	24,000	-	41,000	42,000
Manganese	Jan	ı	1	1	<30	<30	<30	<30	<30	1
	Feb	<30	<30	<30	1	Í	Ť	Ĩ	_	<30
	Jul	ı	ı	į	ï	1	Ĩ	<30	-	I
	Aug	<30	<30	<30	<30	1	<30	Ĭ	<30	<30
Molybdenum	Jan	ı	Ī	1	<25	25	25	<25	<25	1
	Feb	425	<25	425	î	1	1	1	1	<25
	Jul	1	Î	1	1	1	1	<25	-	1
	Aug	25	<25	425	<25	1	<25	1	<25	<25
	Nov	1		425	1	1	1	Ĩ	1	1

Table A-9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary. (Cont.)

Jan -	Analyte (ug/L) Date W-7FS W-7PS	Date	W-7ES		W-35A-04 W-25N-20 W-25N-23 W-26D-01 W 36D-05 W 36D-11	W-25N-20	W.25N.23	W.26P.01	W 2KD 05	W 26D 11	W 70C
Signature Jan 1	VI:1-1							TO-WOW- AL	CO-WOZ-11	11-N07-11	W=/DS
Feb 3.1 3.3 3.6 Aug 3.1 3.0 2.5 2.0 2.6 Nov 2.6 Ssium Jan 2.6 Jul	Nickel	Jan	1	Į)	Ĩ	4.8	5.1	2.2	8	3.6	1
National Aug		Feb	3.1	3.3	3.6	Ī	I	-	1	1	3.2
Signam Aug 3.1 3.0 2.5 2.0 — <2 — 2.6 Signam Jan — </td <td></td> <td>Jul</td> <td>-</td> <td>ļ</td> <td>1</td> <td>Ĩ</td> <td>j</td> <td>ı</td> <td>\$</td> <td>1</td> <td> </td>		Jul	-	ļ	1	Ĩ	j	ı	\$	1	
Signim Nov - <5 -		Aug	3.1	3.0	2.5	2.0	. 7:	7	4	2.6	2.3
ssium Jan - - 5,500 11,000 11,000 9,600 5,500 Heb 5,700 5,900 5,500 - - - - - Jug 5,000 5,400 5,200 4,800 - - - - - Nov - - 5,300 -		Nov	ł	Ţ	<\$	1	1	1	į	ì	I
Feb 5,700 5,500 - - - -	Potassium	Jan	ı	1	1	5,500	11,000	11,000	9,600	5,500	j
Jul — — — — — 5,500 4,800 — — 10,000 — 5,500 Now Aug 5,000 5,300 4,800 — 10,000 — 5,500 Inium Jan — — 5,300 — — — — — Jul —		Feb	5,700	5,900	5,500	Ļ	Ţ	I		1	5,800
Aug 5,000 5,200 4,800 — 10,000 — 5,500 nium Nov — — 5,300 — — — — 5,500 —		Jul	1	ŧ	1	1	Ť	1	10,000		1
Mov — 5,300 — </td <td></td> <td>Aug</td> <td>5,000</td> <td>5,400</td> <td>5,200</td> <td>4,800</td> <td>Ţ</td> <td>10,000</td> <td>5</td> <td>5,500</td> <td>5,200</td>		Aug	5,000	5,400	5,200	4,800	Ţ	10,000	5	5,500	5,200
lium Jan - - - 5.8 2.3 11 2.2 10 Heb 5.7 16 5.5 -		Nov	1	1	5,300	1	1	1	1	1	1
Feb 5.7 16 5.5	Selenium	Jan	1	1		5.8	2.3	11	2.2	10	Ü
Jul — — — — — 7.3 — Aug 5.5 9.5 4.4 4.2 — 9.4 — 6.0 Aug 5.5 9.5 4.4 4.2 — 9.4 — 6.0 Aug 5.0 5.5 9.5 4.4 4.2 — 9.4 — 6.0 Aug 5.0 5.0 5.0 — — 6.0 — 6.0 — Aug 5.0 5.0 5.0 — — — 6.0 — Aug 5.0 5.0 5.0 — — — — — Aug 5.0 5.0 5.0 — — — 5.0 — Jul — — — — — — — — — Aug — — — — — — — —		Feb	5.7	16	5.5		1	1	1	Ü	5.9
Aug 5.5 9.5 4.4 4.2 - 9.4 - 6.0 r Jan - - 4.6 - - - - - - Feb <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10		Jul	1	1	1	1	1	ı	7.3	î	ī
r Nov - 4.6 - <td></td> <td>Aug</td> <td>5.5</td> <td>9.5</td> <td>4.4</td> <td>4.2</td> <td>I.</td> <td>9.4</td> <td>1</td> <td>0.9</td> <td>4.4</td>		Aug	5.5	9.5	4.4	4.2	I.	9.4	1	0.9	4.4
feb <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <td></td> <td>Nov</td> <td>1</td> <td>Į.</td> <td>4.6</td> <td>1</td> <td>t</td> <td>1</td> <td>1</td> <td>I</td> <td>1</td>		Nov	1	Į.	4.6	1	t	1	1	I	1
Feb <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <td>Silver</td> <td>Jan</td> <td>Ę</td> <td>Ē</td> <td>1</td> <td><10</td> <td><10</td> <td><10</td> <td><10</td> <td><10</td> <td>ĵ</td>	Silver	Jan	Ę	Ē	1	<10	<10	<10	<10	<10	ĵ
Jul —		Feb	<10	<10	<10	-	- T	-		Ţ	<10
Aug <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <td></td> <td>Jul</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td><10</td> <td>1</td> <td>I</td>		Jul	1	1	1	1	1	1	<10	1	I
Mov — -		Aug	<10	<10	<10	<10		<10	1	<10	<10
ddium Jan - - - - - 20 620		Nov	3	1	<0.5	1	1	E	-		L
Feb <20 <20 <20 -	Vanadium	Jan	9	1	1	<20	<20	<20	<20	<20	Į
Jul —		Feb	<20	<20	<20	1	1	1	ı	1	<20
Aug <20 <20 <20 <20 - <20 - <20 - <20 - <20 - <20 - - <20 -		Jul	E	£	8	1	L	t	<20	1	1
Nov -		Aug	<20	<20	<20	<20	1	<20	1	<20	<20
Jan -		Nov	£	f	<25	1	1	-	-	1	1
<20 <20 <20 <- -<	Zinc	Jan	1	1	1	<20	<20	<20	<20	<20	1
- - - - - - - - - <20		Feb	<20	<20	<20	ı	ı	1	-	-	<20
<20		Jul	ı	ı	1	1	1	1	<20	1	1
<20		Aug	<20	<20	<20	<20	ı	<20	1	<20	<20
		Nov	1	I)	<20	ı	1	E	E	1	1

Note:

-= Analysis not required.

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148 Annual/Second Semester Report 2011

Table A-10. Site 300 sewer pond ground water monitoring network 2011 second semester QA data.

	т							_	
Constituent	Units	W-7PS	W-7PS	W-7PS	W-7PS	W-26R- 01	W-26R- 01	W-26R- 01	W-26R- 01
		Nov 15	Nov 15	Nov 16	Nov 16	Nov 14	Nov 14	Nov 15	Nov 15
		Routine	Duplicate	Routine	Duplicate	Routine	Duplicate	Routine	Duplicate
pH	Units	7.7	7.7	_	-	7.8	7.8		
Specific									
Conductance	μmhos/cm	1,510	1,510	-	_	1,400	1,410	_	10_20
Fecal						2,100	1,.10	10.2.41	
Coliform	MPN/100mL	_	_	<2	<2		_	<2	<2
Total									
Coliform	MPN/100mL	7 <u>22</u>	_	<2	<2		_	<2	<2
Nitrate (as						-	-		- ^2
NO3)	mg/L	12	12	-	-	26	27	<u></u>	_

Note:

⁻⁼ Analysis not required.

Revised 3/18/11

EAST END OF SITE 300 SEWAGE POND FIELD TRACKING FORM

9-19-14

DATE:

TIME: /0:10

မ္တ FG Ship It # CoC # Lab

> Semi-Annual Sampling in 2nd and 4th Quarters (April & Oct) Print collection time on sample bottles. DO/conductivity/pH hold time 24 hr. Samples must be taken after 1 p.m. Special Instructions:

Conductivity meter calibrated DO meter calibrated pH meter calibrated

		Field	Measur	Field Measurements				Samples for I ab Analysis
Location	퓜	COND Depth	Depth	DO (PPM)	Temp (°C)	Comments	Initials	Analytical Codoc:
3-ESWP-01-OW							XX	FGLAB
(East end of Sewage Pond) 9.34 6.28 %	pt. b	6.28mS		15.64	20.9		202	E360.1 DO (1x500-mL glass, NO head space)
	<u> </u>	١					ł	E120.1A & E150.1A Conductivity/pH
								(2x250-mL poly)
								SM9221 Total, Fecal Coliform (1x250mL) 6hr hold
3-WSWP-01-OW								SM5210B-A BOD (1x500mL poly)
duplicate of								
3-ESWP-01-0W								BC Labs
								S3METALS (1X500mL Poly)

SM5210B-A 202011 Duplicate

See ISWP Field Tracking Form 4Q2011 Duplicate

Copy to Analyst, Allen Grayson

Copy of CoC given to TRR

INFLUENT TO SITE 300 SEWAGE POND FIELD TRACKING FORM

DATE: 9-19-11

55:60 TIME:

FGF Ship It # CoC # Lab

Semi-Annual Sampling in 2nd and 4th Quarters (April & Oct) pH meter calibrated Special Instructions:

Conductivity meter calibrated

DO meter calibrated

Samples should be taken after 1 p.m. during higher flow. BOD Hold Time 48hr. Conductivity/pH Hold Time 24hr. Print collection time on sample bottles.

		Field Me	Field Measuremer	nts			Samples for Lab Analysis
Location	H	pH COND	DO (PPM)	Temp (°C)	Comments	Initiale	
3-ISWP-01-OW	4.37	\$ 1111				20	Analytical Codes:
(mindelle to Dewaye Folia)	100	(+094)	hrol	33.4		7 °	E120.1A & E150.1A (Conductivity/pH)
						+	(2 X 250-mL poly)
THE CANONIC							SM5210B-A (BOD)
3-W3WP-01-0W							(1 X 500-mL poly)
duplicate of							
3-ISWP-01-OW							

E120.1A 2Q2011 Duplicate 4Q2011 Duplicate

See ESWP Field Tracking Form

Copy to Analyst, Allen Grayson

Copy of CoC given to TRR

Chain of Custody

Work Authorized By: EPD
TRR Approver:
Project Info:

:54277	Analytical Lab - EDI HTGBOW	A -1-41-41
54077	The state of the s	Additional
342//	TAT: 20d	
A. Grayson	Analytical Lab Log #:	
: EPD / brunckhorst2	Project/Network: WDRPOND	
35166	LLNL Acct #: 3297-41	
1.03.02.06.02.06	Release #: UNICARD	
swanson15@linl.gov	Fax/Email #2:	

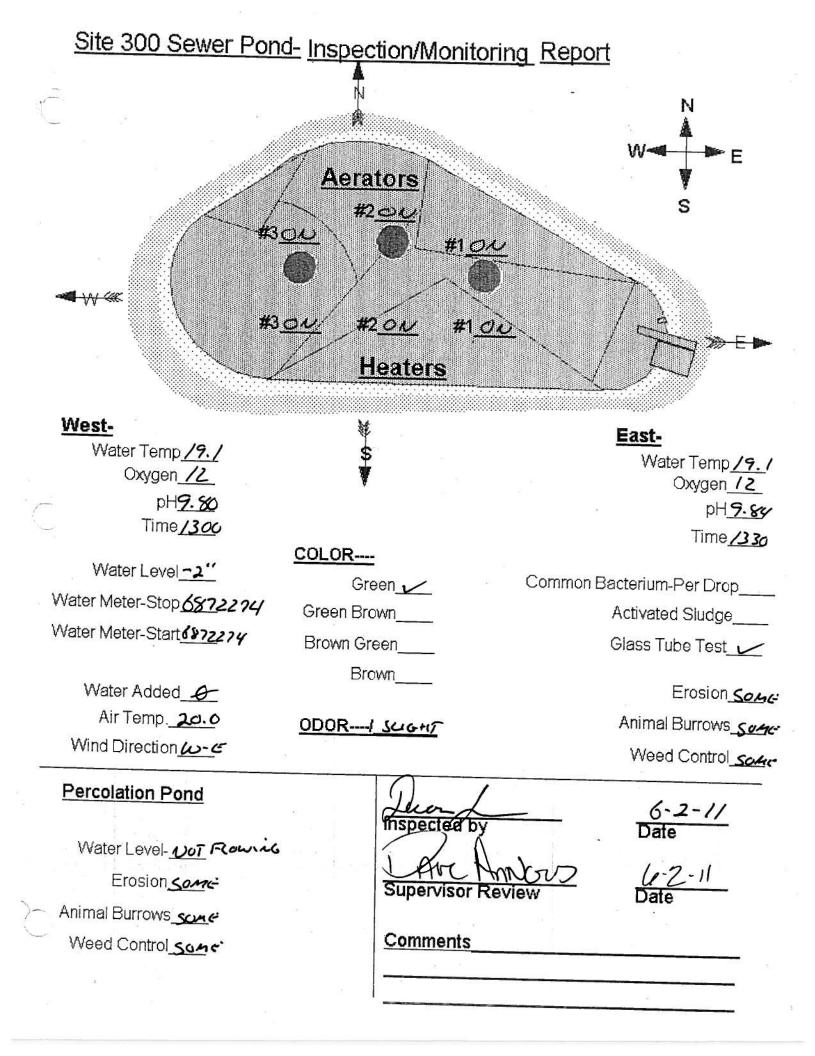
Access/COC #: 54277 National Laboratory Requester/LLNL Analyst: A. Grayson Organization / Sampler: EPD / brunckhorst2 PCI Project #: 35166 PCI Task #: 1.03.02.06.02.06	khorst2 2.06	RUITGROWL 0d VDRPOND 297-41 INICARD	Additional instructions:
DMT Additional Copies:	itional Copies:	rax/Email #2:	

3-ESWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL 3-ESWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E150.1A ALL 3-ESWP-01-OW 9-PRINT (a.c.) SW P 1 WDR SM5210B-A ALL Ubes 20 or more 3-ESWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL Ubes 20 or more 3-ISWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL Dresent 3-ISWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL Dresent 3-ISWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL Dresent 3-ISWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL 3-ISWP-01-OW 9-PRINT (a.c.) SW P 1 WDR E120.1A ALL 3-ISWP-01-OW	Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab	Lab Instructions	,
9 1/31/ 10:10 SW G 1 WDR E150.1A ALL 9 1/31/ 10:10 SW G 1 WDR E360.1 ALL 9 1/31/ 10:10 SW P 1 WDR SMS210B-A ALL Lubes: Orfmore 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Lubes: Orfmore 9 1/31/ 10:10 SW P 1 WDR E150.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW P 1 WDR E120.1A ALL Dresent 9 1/31/ 10:10 SW Dresent D	ESWP-01-OW	Cr. 01 1161 6	SW	. P.s	- 1	WDR	E120.1A	ΙΙΨ			l
9 μ9μ (1912) SW G 1 WDR E360.1 ALL Use 20 or more tubes: OK fill tubes: O	-ESWP-01-OW	9 1911/10:13	SW	Ь		WDR	F150 1A	ALI	******	Tatal Salah	100 mm
9 1 10 1 10 1 10 1 10 1 1	ESWP-01-OW		SW	ပ	1	WDR	F360 1	AI I		120	20 PM
9 V9U 0:1.0 SW P 1 WDR SM9221 ALL Lubes: OK if L	ESWP-01-OW		SW	PO	0.0	WDR	SM5210B-A	AII	1000	130	
9 V9 // Cq:55 SW P 1 WDR E120.1A ALL present 9 V9 // Cq:55 SW P 1 WDR E150.1A ALL present 9 V9 // Cq:55 SW P 1 WDR E120.1A ALL ALL PRESENT ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	ESWP-01-OW		S	۵	-	WDR	SM9221	ALL	Use	20 or mo	ه ا
9 V91/ 05/55 SW P 1 WDR E120.1A All present 9 V91/ 05/55 SW P 1 WDR E150.1A All 9 V91/ 05/55 SW PO 1 WDR E150.1A All 9 V91/ 05/55 SW PO 1 WDR E120.1A All 9 V91/ 05/55 SW PO 1 WDR E120.1A All 9 V91/ 05/55 SW PO 1 WDR E120.1A All 10 V91/ 05/57 SW PO 1 WDR E120.1A All 10 V91/ 05/57 SW PO 1 WDR E120.1A All			35 u					THE COMMENT OF THE	tub	ses: OK if	,
9 V91/ 07:55 SW P 1 WDR E120.1A ALL 9 V91/ 07:55 SW P 1 WDR E150.1A ALL 9 V91/ 07:55 SW P 1 WDR E150.1A ALL 9 V91/ 07:55 SW P 1 WDR E120.1A ALL E120.1						× 1		120 To 100 To 10	but	bbles are	
9 190 All MDR E120.1A All MDR E150.1A All E120.1A All MDR E120.1A All All MDR E120.1A All All All MDR E120.1A All All All All All All All All All A	ISWP-01-0W		4.	2		1	100	100 A		present	
9 1911 20135 SW P 1 WDR E150.1A ALL 9 1911 20135 SW P 1 WDR SM5210B-A ALL 1 WDR E120.1A ALL 1 WDR E12	SWP-01-OW	П	1		OT SECTION	WDK	E120.1A	ALL		10.07	
φ μφι/ σι55 SW PO 1 WDR SM5210B-A ALL φ μφι/ σι55 SW P 1 WDR E120.1A ALL Company Qate Time Received Signature Commany Date	ISIMP 01 OW	0 121 001.35	2	2		WDR	E150.1A	源恋 ALL		V4525	
Company Date Time Received Signature Company Date	MCIME OF OW	7 119 W CO'S	4	2		WDR	SM5210B-A	ALL		77.52	
Company Date, Time Received Signature Commany Date	10-10-110-11		δ S	1	-	WDR	E120.1A	ALL			
Company Date, Time Received Signature Commany Date											
Company Date, Time Received Signature Commany Date											
Company Date, Time Received Signature Company Date				_							
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date, Time Received Signature Company Date											
Company Date Received Signature Company Date											
Company Date Time Received Signature Company Date											
	uished Signature	Company		ate	Time		ived Signature	Compa) ato	i.

livellinguisting oldinari	Company	Date	Time	Received Signature	Comment		į
1 /201		1		Simming account	Company	Date	
the fuelly	LLNLEPD	1/6//6	11:11	2	177	10/6	100
					700	1114111	(0)
				3			
				4			
7							
				2			
Revision Printed: 09/14/2011/10/32/51	itio						
		iatule Order - 1	sampler, 2: C	atule Order - 1; Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT		0	Page 1 of 1

Chain of Custody

Additional Instructions:	Lab Instructions		Date Time			
Analytical Lab : BCLABS-BAK TAT: 20d tical Lab Log #: roject/Network: WDRPOND LLNL Acct #: 3297-41 Release #: UNICARD Fax/Email #2:	Analysis Detail TOTAL		Company			
Analytical Lab :BCLABS-B/ TAT:20d Analytical Lab Log #: Project/Network:WDRPOND LLNL Acct #: 3297-41 Release #: UNICARD Fax/Email #2:	Analysis S3METALS S3METALS		Received Signature			halyst, 5: DMT
Access/COC #: 54276 Document Control #: 54276 Requester/LLNL Analyst: A. Grayson Organization / Sampler: EPD / brunckhorst2 PCI Project #: 35166 PCI Task #: 103.02.06.02.06 Fax/Email #1: swanson15@llnl.gov DMT Additional Copies:	WDR WDR		2	8	4 v	Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT
Access/COC #: 54276 ment Control #: 54276 //LLNL Analyst: A. Gra tion / Sampler: EPD // PCI Project #: 35166 PCI Task #: 103.03 Fax/Email #1: swans	Cont. Cont.		+		1	1: Sample
Access/COC #: 54276 Document Control #: 54276 tequester/LLNL Analyst: A. Gra Organization / Sampler: EPD / I PCI Project #: 35166 PCI Task #: 1.03.03 Fax/Email #1: swansc	SW SW	Date	9/19/2011			ure Order -
The second secon	Sampled Date/Time 09/19/2011 0::10	Company	LLNL/EPD			Signar
EPD: EMAD/PRAD/ESPD Lawrence Livermore National Laboratory P.O. Box 808 L-629 Livermore, CA 94551 Work Authorized By: EPD TRR Approver:	3-ESWP-01-0W 3-ESWP-01-0W	Relinquished Signature				evision Printed: 09/14/2011/10/32/51



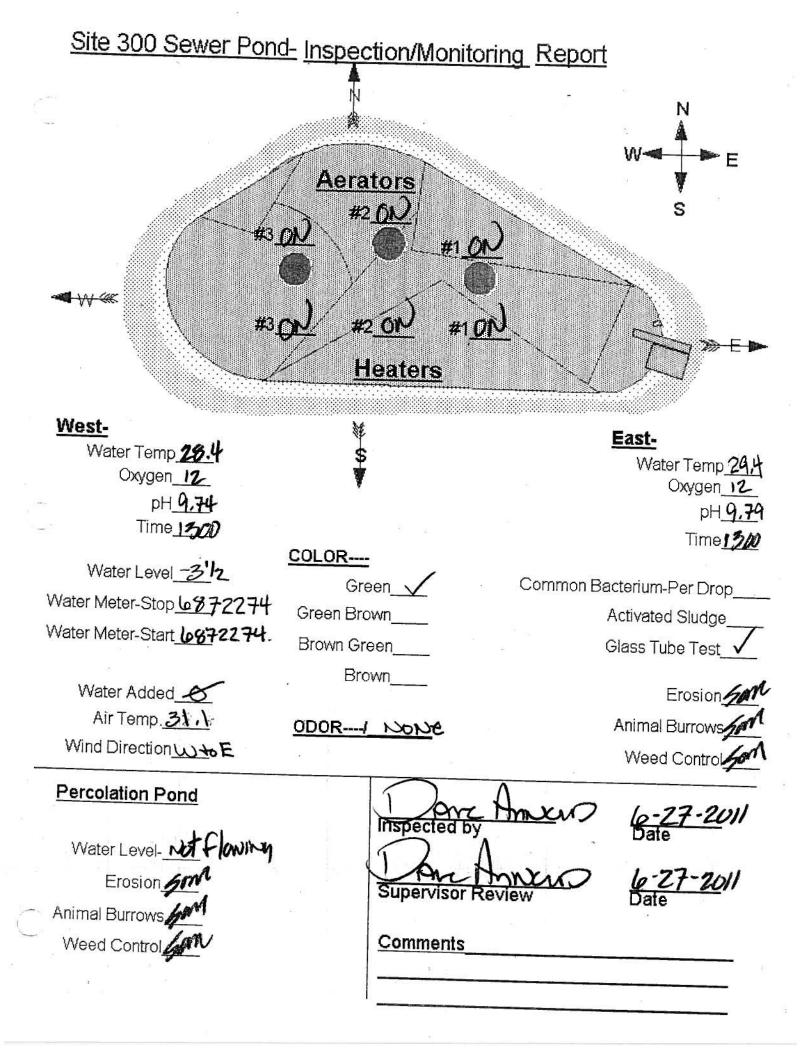
Site 300 Sewer Pond- Inspection/Monitoring Report Aerators #2oル #30*L* #1<u>01</u> #2 0/0 Heaters West-East-Water Temp 21.1 Water Temp / 8.6 Oxygen 12 Oxygen /Z pH 9.80 pH 9.22 Time /330 Time /300 COLOR----Water Level - 2 " Common Bacterium-Per Drop_ Green / Water Meter-Stop 6872274 Activated Sludge Green Brown Water Meter-Start 872274 Glass Tube Test Brown Green Brown Erosion SOME Water Added & Animal Burrows Source Air Temp. 18.9 ODOR --- 1_SUCUT Wind Direction E-W Weed Control sone Percolation Pond Water Level- NOT FLOWING Erosion Same Animal Burrows some Comments Weed Control Son C

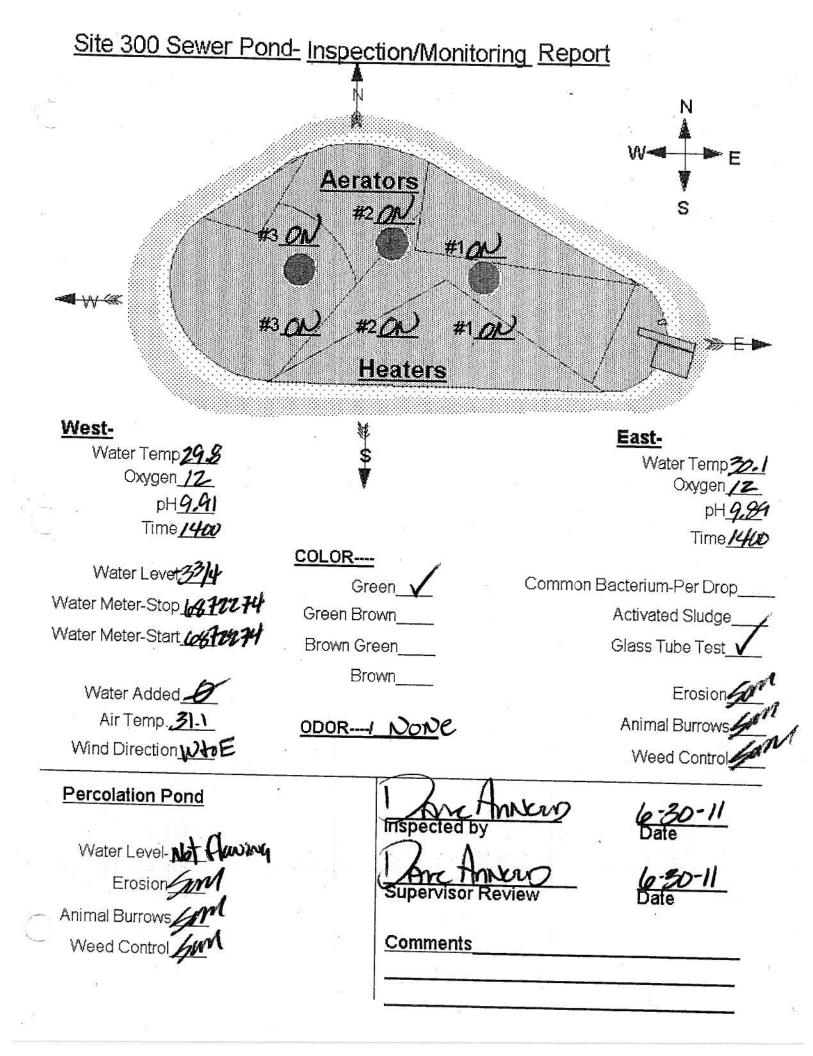
Site 300 Sewer Pond- Inspection/Monitoring Report Aerators #2<u>0</u> #3 O & #1*01* #2 ON #1 ov Heaters West-East-Water Temp 28.8 Water Temp 24.8 Oxygen /2 Oxygen /2 pH 9.69 pH 9.73 Time /300 Time /330 COLOR----Water Level -//4" Common Bacterium-Per Drop Green / Water Meter-Stop 6872274 Activated Sludge___ Green Brown Water Meter-Start 6872274 Glass Tube Test Brown Green Brown Erosion Some Water Added Animal Burrows Souc Air Temp. 30.6 ODOR --- ISLIGHT Wind Direction 6-E Weed Control Source Percolation Pond Water Level-NOT FZOWIG Erosion Some Animal Burrows Some Comments Weed Control_Some

Site 300 Sewer Pond- Inspection/Monitoring Report Aerators #2 *0*1 #2 ON Heaters West-East-Water Temp 29.2 Water Temp 27.4 Oxygen_IZ Oxygen_/Z pH 998 pH986 Time 1300 Time 1300 COLOR----Water Level-2" Common Bacterium-Per Drop Green 1 Water Meter-Stop 6772274 Activated Sludge Green Brown Water Meter-Start & 672274. Glass Tube Test Brown Green Brown Animal Burrows Water Added 6 Air Temp. 31.1 ODOR----I_ Wind Direction Wto E Percolation Pond inspected by Water Level- not flushy. Erosion Jow Animal Burrows Comments Weed Control

Site 300 Sewer Pond- Inspection/Monitoring Report Aerators #2 OU #3*0*N #1 ON #2 ov #1 ov. **Heaters** West-East-Water Temp 26.7 Water Temp 22.6 Oxygen /2 Oxygen/Z pH 9.80 pH 9.95 Time /300 Time /330 COLOR----Water Level_-//w Common Bacterium-Per Drop Green_/ Water Meter-Stop 6812274 Activated Sludge Green Brown Water Meter-Start 6872274 Glass Tube Test 🗸 Brown Green Brown Erosion Source Water Added O Animal Burrows Some Air Temp. 31. / ODOR---I-SCICORT Wind Direction AUGE Weed Control Sono Percolation Pond 6 -/6-11 Date inspected by Water Level- Not Floring 0-16-11 Date Erosion Some Animal Burrows Some Comments Weed Control Sare

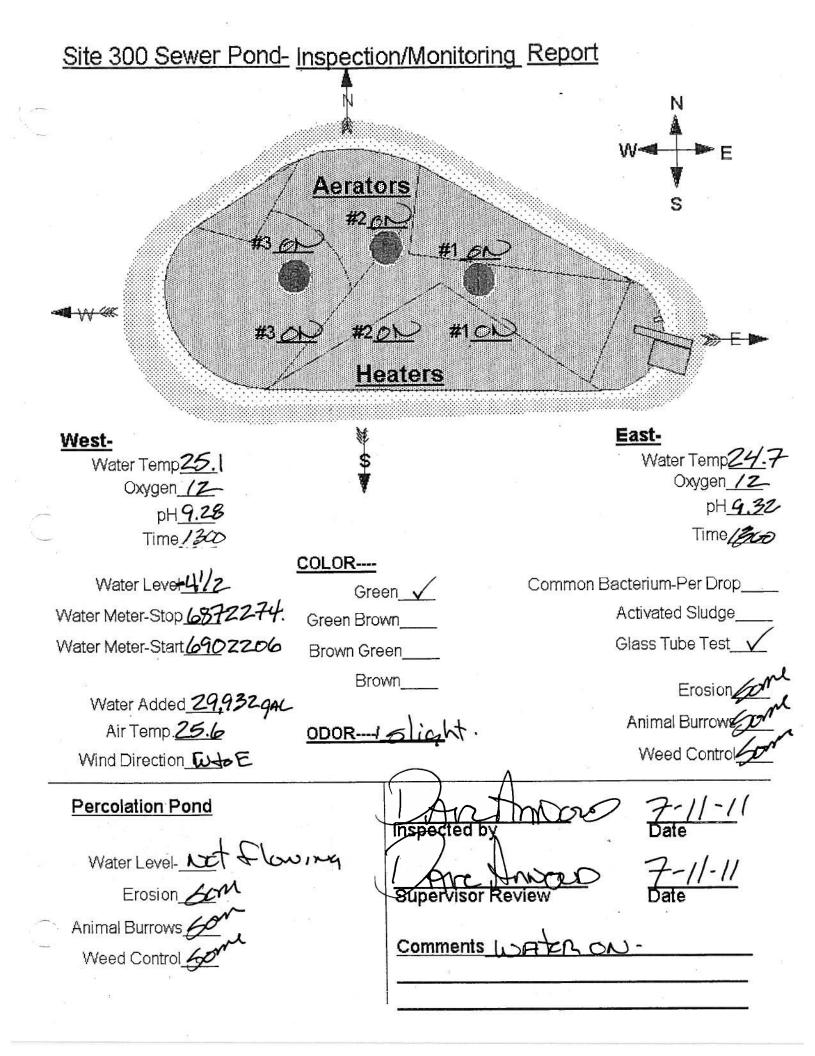
Site 300 Sewer Pond- Inspection/Monitoring Report <u>Aerators</u> #2 O1 #1 でん #2 O/L #3 O/L Heaters East-West-Water Temp 26.2 Water Temp 26.2 Oxygen /2 Oxygen_/2_ pH 9.23 pH 9.73 Time/330 Time / 300 COLOR----Water Level -34" Common Bacterium-Per Drop____ Green 🗸 Activated Sludge Water Meter-Stop 6872274 Green Brown Glass Tube Test v Water Meter-Start 68722>4 Brown Green Brown Erosion Souc Water Added 6 Animal Burrows Sour Air Temp. 33.3 ODOR----I SLIGHT Weed Control Source Wind Direction W-6 Percolation Pond Water Level- NOTFCOURT Erosion Conc Animal Burrows Sone Comments Weed Control Some





Site 300 Sewer Pond- Inspection/Monitoring Report <u>Aerators</u> #2 #1 #3 #1 Heaters West-East-Water Temp 30.1 Water Temp 30.2 Oxygen 12 Oxygen /2 pH_10.4 pH_10.2 Time //00 Time 1/100 COLOR----Water Level 40 Common Bacterium-Per Drop Green 1 Water Meter-Stop 6572274 Activated Sludge Green Brown Water Meter-Start 667074 Glass Tube Test Brown Green Brown Erosion Animal Burrows Water Added Air Temp. 37.8 ODOR --- None Weed Control Wind Direction NW Percolation Pond 7-4-11 Date Inspected by Water Level- White Flaving
Erosion Animal Burrows Weed Control 7-4-11 Supervisor Review Weed Control Comments

Site 300 Sewer Pond- Inspection/Monitoring Report <u>Aerators</u> #2 #1 #1 Heaters West-East-Water Temp 31.2 Water Temp31.6 Oxygen 12 Oxygen_/2 pH 18.4 Time_1/00 Time//a COLOR----Water Level - 43/4 Common Bacterium-Per Drop Green Water Meter-Stop 6872274 Activated Sludge Green Brown Water Meter-Start 6872274 Glass Tube Test Brown Green Brown Erosion 4000 Animal Burrows Water Added 18 ODOR----I Nove Air Temp. 37.8 Weed Control Wind Direction NE Percolation Pond 7-7-11 Date Water Level-Not flumy 7-7-11 Date Erosion Supervisor Review Animal Burrows Comments Turn make up water Weed Control 5000 ON Today - 1500 Hos



Site 300 Sewer Pond- Inspection/Monitoring Report W--Aerators #2 ow #3 ON #1 ON #2 ON **Heaters** East-West-Water Temp 22.ス Water Temp 24.1 Oxygen /2 Oxygen_/Z pH 7.41 pH 9.29 Time /33c Time /300 COLOR----Water Level - 41/2 Common Bacterium-Per Drop___ Green / Water Meter-Stop 69/9052 Activated Sludge Green Brown Water Meter-Start 6902206 Glass Tube Test ./ Brown Green Brown Erosion Sour Water Added 16,846 Animal Burrows Sone ODOR --- SCIGHT Air Temp. 23.3 Weed Control Conc Wind Direction 4-E Percolation Pond. inspected by Water Level-NOT ROWING Erosion some Supervisor Review Animal Burrows Sunce Comments Weed Control Same

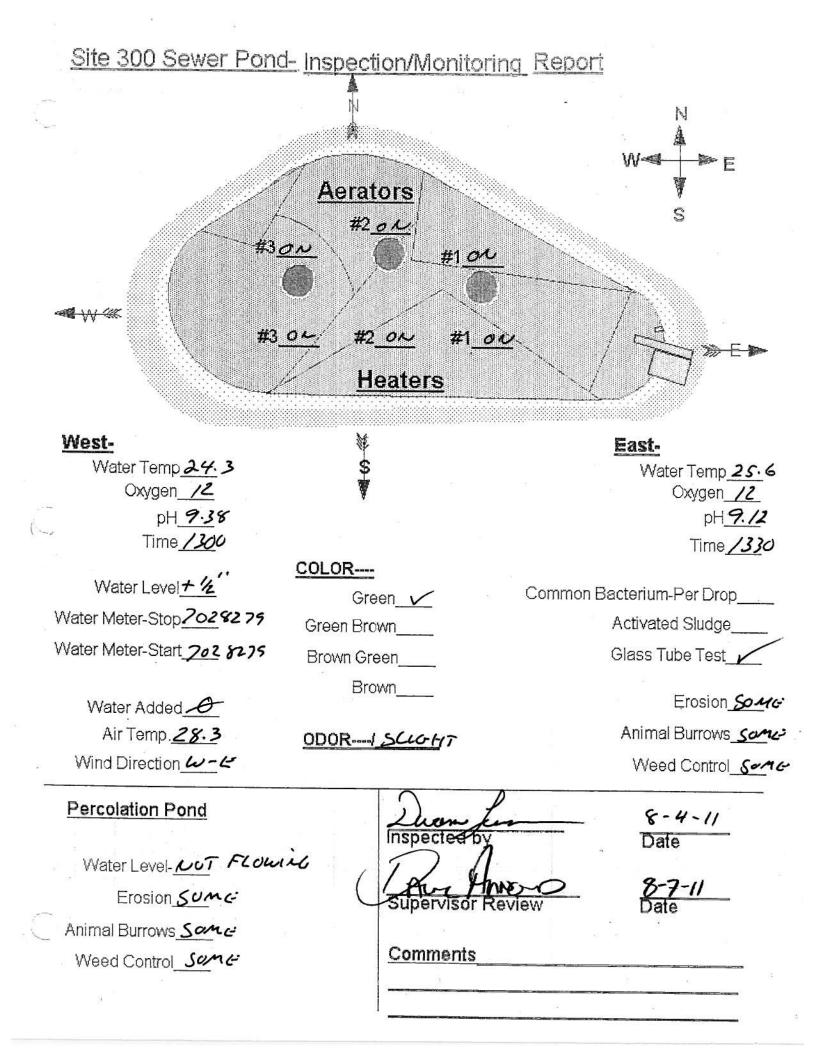
Site 300 Sewer Pond- Inspection/Monitoring Report M <u>Aerators</u> #2 GN #1 610 #2 07 **Heaters** West-East-Water Temp 26.6 Water Temp 30.2 Oxygen 1Z Oxygen 12 pH 9.46 pH 9-63 Time 1300 Time 1300 COLOR----Water Level 23/4 Common Bacterium-Per Drop Green \ Water Meter-Stop 64446 Activated Sludge_ Green Brown Water Meter-Start 6919052 Glass Tube Test Brown Green Brown Erosion 20 Water Added 23394 Animal Burrows 🖊 ODOR-1 Slight. Air Temp. 294 Weed Control Wind Direction W+F Percolation Pond MNOW. Water Level-Not Ylama Erosion Gor Animal Burrows Comments Weed Control

Site 300 Sewer Pond-Inspection/Monitoring Report N <u>Aerators</u> #2 ON #1 0 N #3 O L #1 0*1*U Heaters West-East-Water Temp_3/./ Water Temp 27./ Oxygen_/Z Oxygen /2 pH9.51 pH 7.48 Time /300 Time /330 COLOR----Water Level -2" Common Bacterium-Per Drop_ Green / Water Meter-Stop 69603/9 Activated Sludge_ Green Brown Water Meter-Start 691 9052 Glass Tube Test____ Brown Green Brown Erosion Scure Water Added 44,267 Animal Burrows some Air Temp. 33.3 ODOR --- SCIGHT Wind Direction W-& Weed Control Sage Percolation Pond 7-21-11 Water Level- KET Flowing Erosion_Sone Supervisor Review Animal Burrows Some Comments Weed Control_sonc

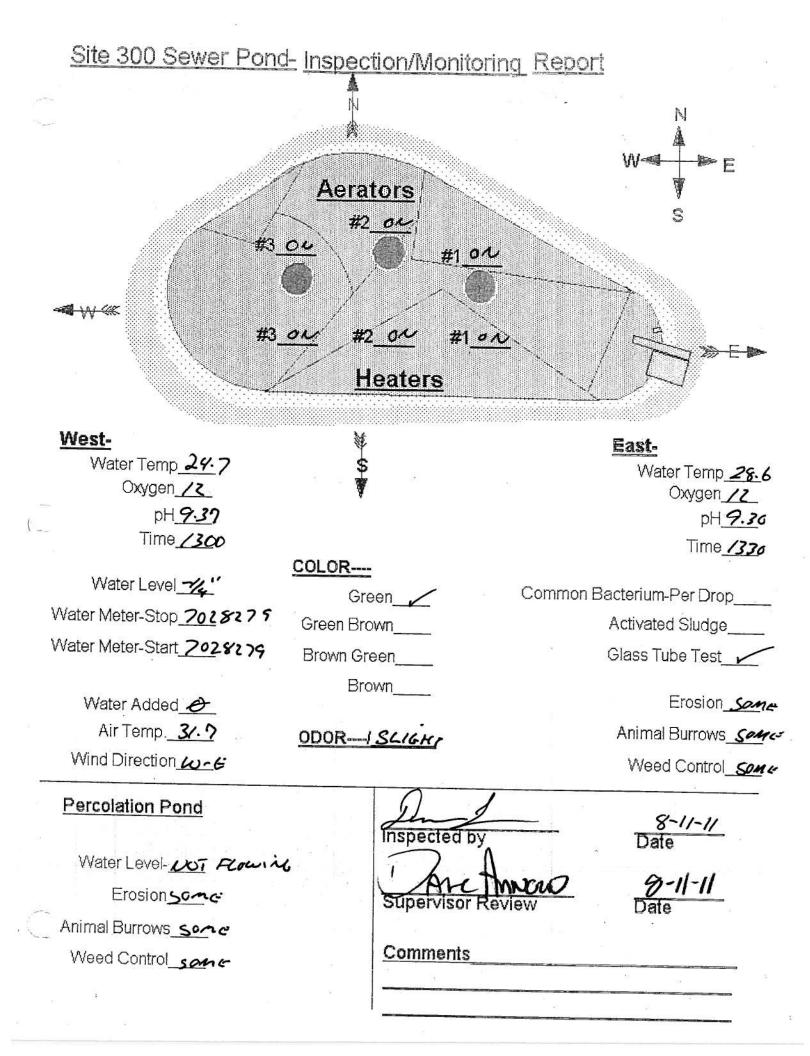
Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2*GN* #1 DN #2<u>Ó</u>N **Heaters** West-East-Water Temp 30. Water Temp 2 Oxygen_12 Oxygen_17 pH 9.49 Time_1200 Time_1360 COLOR----Water Level-1" Common Bacterium-Per Drop Green ' Water Meter-Stop 6988310 Activated Sludge Green Brown Water Meter-Start 1091,0319 Glass Tube Test Brown Green Brown Erosion Water Added 27981 Animal Burrows Air Temp. 30.5 ODOR----/_ Weed Control 400 Wind Direction E+W Percolation Pond Water Level- Not Haw Ing Erosion //m Supervisor Review Animal Burrows Weed Control Junu Comments

Site 300 Sewer Pond-Inspection/Monitoring Report N <u>Aerators</u> #2 OA #3<u>01</u> #1 00 #2<u>0</u>N #1 ozi <u>Heaters</u> East-West-Water Temp 25.7 Water Temp 28.3 Oxygen /2 Oxygen /2 pH 9.48 pH 9.51 Time /300 Time /330 COLOR----Water Level+1/2" Common Bacterium-Per Drop____ Green / Water Meter-Stop 6999771 Activated Sludge Green Brown Water Meter-Start 6988310 Glass Tube Test Brown Green Brown Erosion_Source Water Added //, 461 عمری Animal Burrows Air Temp. 36.1 ODOR ---- SCIGHT Weed Control Wind Direction E-w Percolation Pond inspected by Water Level- NOT Flowing 7-76-1! Erosion_Some Supervisor Review Animal Burrows Sauce Comments Weed Control_sance

Site 300 Sewer Pond- Inspection/Monitoring Report <u>Aerators</u> #2 O**1 Heaters** West-East-Water Temp 36.0 Water Temp 27.5 Oxygen_12 Oxygen 12 pH 4.50 pH 9.54 Time 1300 Time 130h COLOR----Common Bacterium-Per Drop Green -Water Meter-Stop 7027462 Activated Sludge Green Brown Water Meter-Start 699771 Glass Tube Test Brown Green Brown Erosion_ Animal Burrows Water Added 27 66 Air Temp. 311 ODOR----/ Weed Control Wind Direction whE Percolation Pond passected by Water Level- NH Hwwy Erosion **Sym** Supervisor Review Animal Burrows Comments Weed Control



Site 300 Sewer Pond- Inspection/Monitoring Report <u>Aerators</u> #2 6A #2 ON Heaters West-East-Water Temp 27-4 Water Temp 27.8 Oxygen /Z Oxygen 12 pH 9.42 pH 9.43 Time 13/60 Time 1330 COLOR----Water Level_-'/4 Common Bacterium-Per Drop Green V Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7626279. Glass Tube Test Brown Green Brown Erosion SMI Water Added Animal Burrows Air Temp. 33.3 ODOR----/ Wind Direction W+E Weed Control Percolation Pond Inspected b Water Level- No 4 wmy Erosion Jow Supervisor Review Animal Burrows Comments Weed Control



Site 300 Sewer Po	ond- Inspecti	on/Monitoring	Report	a a	
	N	8 	8 9 8	N	
				WE	
	<u> Aerat</u>	<u>ors</u> /			
Á	/\ #2 _. j	<u> </u>		60	
	#3 <u>0</u> \\	#1 <u>01</u>			
∞ \\				7	
	#3 <u>0N</u> #2_	<u>ón</u> #100	. /		
	<u>He</u>	<u>eaters</u>	~/	J J	
	77				
West-	. 其			East-	
Water Temp 29,4 Oxygen 12	\$			Water Temp 29.2 Oxygen 12	
pH 9.48				рН 9.46	
Time_ <u>/300</u> 0	COLOR	<i>y</i>		Time_1340	
Water Level -1/2	Gre	en	Common Ba	acterium-Per Drop	
Water Meter-Stop 701824	2.00112.0	wn		Activated Sludge	
Water Meter-Start 4006 240	Brown Gre	en		Glass Tube Test 🗸	
Water Added ${\cal O}$	Brov	wn		Erosion 5m	ι,
Air Temp. 37.8	ODOR/	Slight		Erosion 5000 Animal Burrows 5000 Weed Control 5000	<i>ا</i> د
Wind Direction E-W		X		Weed Control	
Percolation Pond		Rug Am	NU	9-15-11	
12 Pl	4	Inspected by	13	9-15-11 Date	
Water Level- Not Flo	wing	An Ana	COD	8-15-11 Date	
Erosion_5001		Supervisor Revi	ew	Date	
Weed Control 4		Comments			
		• · · · · · · · · · · · · · · · · · · ·			
				F	

Site 300 Sewer Por	nd- Inspection/Monito	orina Report
	Aerators #2 on #1 C	W- W- ▼ S
#W #W	(ביי ביי ביי ביי ביי ביי ביי ביי ביי ביי	
West- Water Temp284 Oxygen_12 pH9.71 Time_136	\$	Water Temp 28.2 Oxygen 12 pH 9.66
Water Level	Green Brown Brown Green	Time 1300 Common Bacterium-Per Drop Activated Sludge Glass Tube Test
Water Added <u>- O</u> Air Temp. <u>33-3</u> Wind Direction <u>E - W</u>	ODOR-15kht	Erosion Low Animal Burrows Low Weed Control
Percolation Pond Water Level- Not Flowing Erosion Som Animal Burrows Som Weed Control Som	Inspected by Supervisor F	MYND 8-22-11

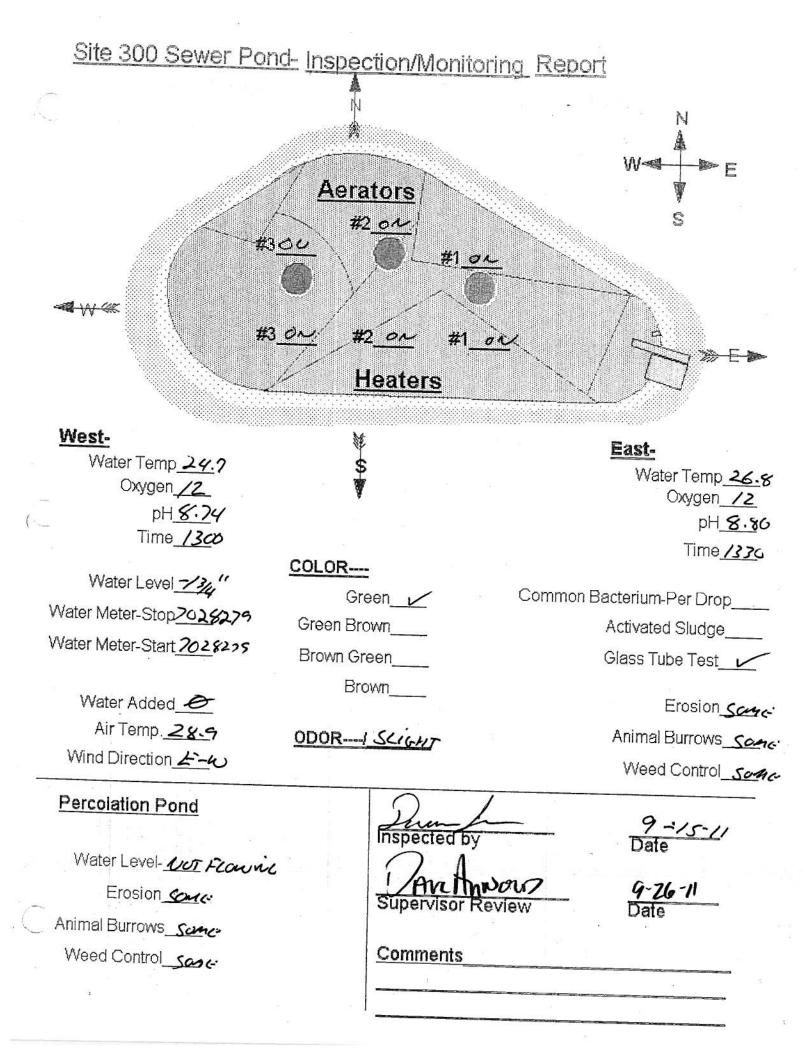
Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2<u>0</u>1 #1 ON #2 OU #3 OH <u>Heaters</u> West-East-Water Temp 28.3 Water Temp 29./ Oxygen / Z Oxygen_/2 pH 9.90 pH 9.88 Time/300 Time /330 COLOR----Water Level-/" Common Bacterium-Per Drop Green ___ Water Meter-Stop 20 28279 Activated Sludge Green Brown Water Meter-Start 20228225 Glass Tube Test Brown Green Brown Erosion Source Water Added 31,178 Animal Burrows Johc Air Temp. 36.7 ODOR---ISUGAT Wind Direction 6-4 Weed Control Source Percolation Pond inspected by Water Level-NOT Flow 16 Erosion Sone Supervisor Re Animal Burrows 5000 Comments Weed Control CVAC

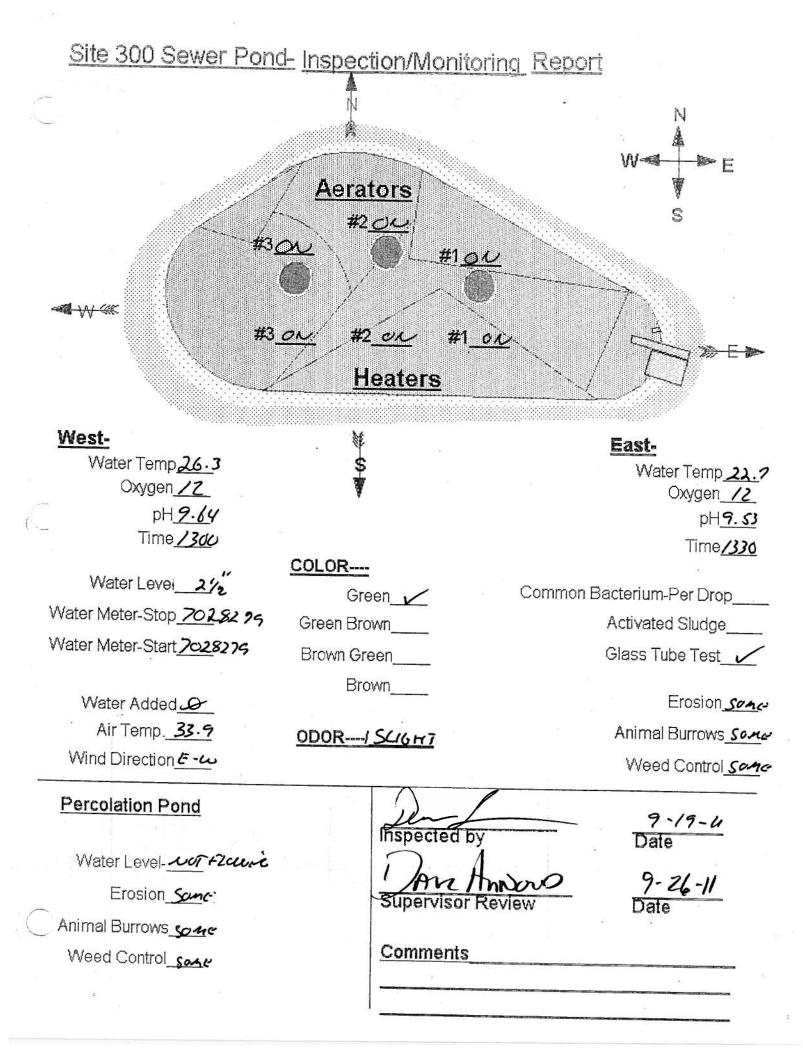
Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2 O1 #3<u>0</u>L #1 01 #2 ON #1 ON Heaters West-East-Water Temp 25.1 Water Temp 29.3 Oxygen /2 Oxygen_/2 pH 9-20 pH9.28 Time /330 Time /300 COLOR----Water Level -/" Common Bacterium-Per Drop Green 🗸 Water Meter-Stop 702 8219 Activated Sludge____ Green Brown Water Meter-Start 7028279 Glass Tube Test Brown Green Brown Erosion Some Water Added O Animal Burrows Sone Air Temp. 33.3 ODOR- SUGAT Weed Control Some Wind Direction E-W Percolation Pond inspected by Water Level- NOT Flowing Erosion Some Supervisor Review Animal Burrows Some Comments Weed Control Same

Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2<u>01</u> #3 04 #1*0*N #2 ov **Heaters** West-East-Water Temp 26. / Water Temp24./ Oxygen 12 Oxygen /2 pH9.19 pH9.20 Time /300 Time/330 COLOR----Water Level -//4 Common Bacterium-Per Drop Green___ Water Meter-Stop 2028279 Activated Sludge Green Brown Water Meter-Start 70282 29 Glass Tube Test_ Brown Green Brown Erosion Some Water Added & Air Temp. 3/7 Animal Burrows Some ODOR --- SLIGHT Wind Direction E-W Weed Control Some Percolation Pond Inspected by Water Level- Not Flowing 9-26-11 Erosion Some Animal Burrows Some Comments Weed Control Sono

Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2<u>0</u>~ #1 *0* U #3<u>or</u> #2 0~ #1 on **Heaters** West-East-Water Temp 24.2 Water Temp 27./ Oxygen /2 Oxygen /Z pH 9.09 pH 9.11 Time /300 Time /330 COLOR----Water Level - 2" Common Bacterium-Per Drop Green ~ Water Meter-Stop 2028279 Activated Sludge____ Green Brown Water Meter-Start 70282 79 Glass Tube Test____ Brown Green__ Brown Erosion Some Water Added Air Temp. 36./ Animal Burrows Some ODOR --- SCIGHT Wind Direction ₩-€ Weed Control_Some Percolation Pond Water Level-NOT Flowing 9-26-11 Erosion_Sour Supervisor Review Animal Burrows Some Comments Weed Control_sonc

Site 300 Sewer Pond- Inspection/Monitoring Report 1 We Aerators #2<u>0</u>v #3*0,0* #1 o/U #2 Oル #1*0N* **Heaters** West-East-Water Temp 26.7 Water Temp 25. & Oxygen_/2 Oxygen /2 pH9.08 pH 9.0) Time /300 Time /330 COLOR----Water Level_- ٤" Common Bacterium-Per Drop Green___ Water Meter-Stop 2026275 Activated Sludge Green Brown Water Meter-Start 2028279 Glass Tube Test 🗸 Brown Green Brown Erosion Some Water Added 🗸 Air Temp. 33.3 Animal Burrows Source ODOR---ISCIGHT Weed Control some Wind Direction £-w Percolation Pond 9-12-11 Inspected by Water Level- NOT Flowing, 9-26-11 Erosion Some Supervisor Review Animal Burrows_some Comments Weed Control Some





Site 300 Sewer Pond- Inspection/Monitoring Report N <u>Aerators</u> #2<u>@</u>~ #30^ #1 ov #3 0ペ #2 ON #1 o~ Heaters West-East-Water Temp 29.3 Water Temp 24.5 Oxygen 12 Oxygen_/2 pH 9.64 pH 7.55 Time/300 Time/330 COLOR----Water Level -2/2 Common Bacterium-Per Drop_ Green / Water Meter-Stop 702 8279 Green Brown Activated Sludge Water Meter-Start 208279 Glass Tube Test Brown Green Brown Erosion Souc Water Added A Air Temp. 34.4 Animal Burrows Same ODOR --- SLICKT Wind Direction とん Weed Control Some Percolation Pond 9-22-11 Inspected by Water Level- NOT FLOW IN 9-26-11 Erosion Some Supervisor Review Animal Burrows Some Comments Weed Control Some

Site 300 Sewer Pond- Inspection/Monitoring Report W-<u>Aerators</u> #2 or #1 OM #2 ON **Heaters** East-West-Water Temp 25.2 Water Temp 274 Oxygen_/2 Oxygen_12 pH9.62 pH9.60 Time 1300 Time /200 COLOR----Water Level -274 Common Bacterium-Per Drop Green Y Water Meter-Stop 7624219 Activated Sludge Green Brown Water Meter-Start 7018279 Glass Tube Test Brown Green Brown Erosion // Water Added 10 Animal Burrows ODOR-1 SIGHT Air Temp. 28.9 Weed Control Wind Direction E-W Percolation Pond Inspected by Water Level- Not Plawing. Erosion for Supervisor Review Animal Burrows Comments Weed Control 40M

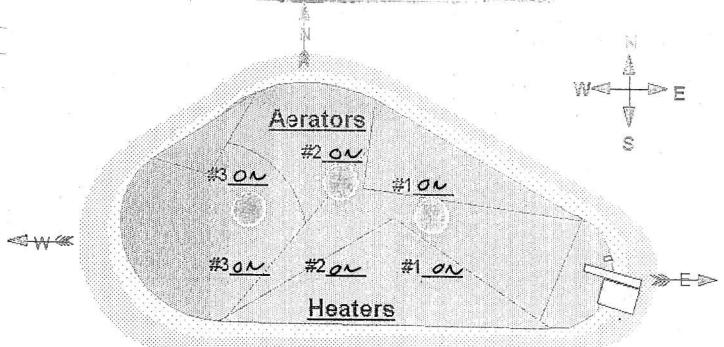
Site 300 Sewer Panc- Inspection/Monitoring Resold <u>Aerators</u> #2 01 料1 のん #3 OI #1 0ル **Heaters** East-West-Water Temp 23.3 Water Temp_26.3 Oxygen /Z Oxygen_/Z pH**9.55** pH9.62 Time /376 Time /300 COLOR-Water Level ~//4" Common Bacterium-Per Drop Green 🖊 Activated Sludge Water Meter-Stop 2028275 Green Brown Water Meter-Start_7028279 Glass Tube Test 🕑 Brown Green Brown Erosion Sone Water Added Animal Burrows Some Air Temp. 35.0 ODOR --- SULLY Weed Control Some Wind Direction &- W Percolation Pond Inspected by Water Level- NOT Flows Erosion Sume Supervisor Review Animal Burrows Some Comments Weed Control Some

Site 300 Sewer Ponc-Inspection/Monitoring Report **Aerators** #2 ON #1 ON #102 #2 ON **Heaters** East-West-Water Temp 17.4 Water Temp 18.2 Oxygen_/2 Oxygen 12 pH 944 pH 941 Time 1300 Time 1300 COLOR---Water Level 15 Common Bacterium-Per Drop Green Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 1026279 Glass Tube Test Brown Green Erosion_____ Brown Water Added *P* Animal Burrows Air Temp. 33.3 ODOR Wind Direction E-W Weed Control Percolation Pond Water Level-No Flow Erosion m Supervisor Review Animal Burrows Comments Weed Control

Site 300 Sewer Fanc- inspection/Monitoring Penni **Aerators** #2 oU #3<u>0U</u> #1 0ル #3 ひい **Heaters** West-East-Water Temp 16.2 Water Temp/6/ Oxygen /2 Oxygen__/2 pH 9,44 pH 9.40 Time 07:40 Time 07:16 COLOR----Water Level 15" Common Bacterium-Per Drop_ Green 👡 Water Meter-Stop 202 8279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test ,__ Brown Green Brown. Erosion Some Water Added O Animal Burrows some Air Temp. /2.8 ODOR --- SLIGHT Wind Direction 6-6 Weed Control Some Percolation Pond Water Level- wiFLON Erosion Song Animal Burrows Sune Comments Weed Control Sarvo

Site 300 Sewer Pana- Inspection/Monitoring Renait Aerators #2<u>6</u>P 差1.0℃ Heaters West-East-Water Temp //.1 Water Temp_16-0 Oxygen_/Z Oxygen /Z pH 940 pH 9-38 Time 1:30 Time/336 COLOR---Water Level_6 Common Bacterium-Per Drop Green Water Meter-Stop 10282 79 Activated Sludge Green Brown Water Meter-Start 7026279 Glass Tube Test • Brown Green Brown Erosion Water Added 0 Animal Burrows Air Temp. 13.3 ODOR---/ Wind Direction w-E Weed Control Percolation Pond Water Level- not Howing Erosion MM Animal Burrows Comments Weed Control

Site 300 Sewer Panci- inspection/Monitoring Report



33	7 -	_4
41	18	SI:
Name of		

Water Temp 12.5

Oxygen_/2

pH 9.45

Time obw

Water Level_ 1/2"

Water Meter-Stop 2018219

Water Meter-Start 702 82 76

Water Added 6

Air Temp. 10.0

Wind Direction W-C



COLOR---

Green /

Green Brown

Brown Green

Brown

ODOR-1546MI

-fast

Water Temp 16.3

Oxygen_/2

PH 9.92

Time 0630

Common Bacterium-Per Drop_

Activated Sludge

Glass Tube Test_

Erosion_Some

Animal Burrows Some

Weed Control Some

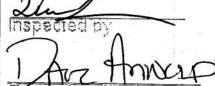
Percolation Pond

Water Level- Not Flowing

Erosion Some

Animal Burrows som c

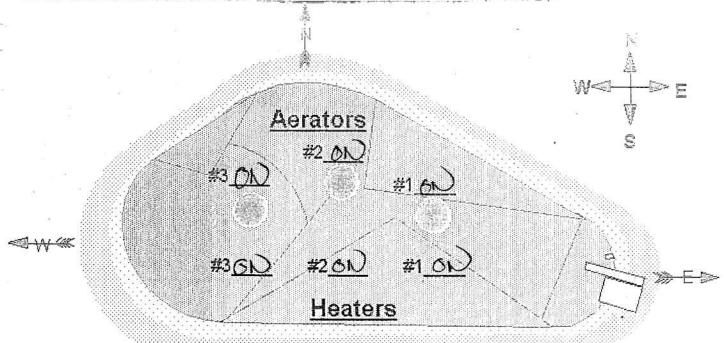
Weed Control_Some



<u> 10-17-11</u> Data

Comments

Site 300 Sewer Pand- inspection/Maniforing Report



W	P	2	4.
4.4	*	•	

Water Temp<u>75.6</u> Oxygen<u>.5</u> pH<u>9.6</u>8

Time [300]
Water Level 1/2

Water Meter-Stop<u>7025</u>279 Water Meter-Start<u>702</u>5276

Water Added Air Temp. 79.4

Wind Direction E-W

島を後

COLOR---

Green •

Green Brown___

Brown Green

Brown___

ODOR-1_NONC

East-

Water Temp 22.7
Oxygen 5
pH 3.39

Time <u>1300</u>

Common Bacterium-Per Drop____

Activated Sludge_

Glass Tube Test 🗸

Erosion 5

Animal Burrows

Weed Control

Percolation Pond

Water Level- NO Flowing

Erosion Son

Animal Burrows

Weed Control bow

And Annoco

Supervisor Review

10-17-11

10-17-11 Date

Comments

Site 300 Sewer Panc-Inspection/Monitoring Report <u>Aerators</u> #30K #1 on #3 0人 Heaters West-East-Water Temp 17.3 Water Temp/6.1 Oxygen_/2 Oxygen /2 pH 8.41 pH 8.5% Time 6700 Time > 730 COLOR----Water Level_<u>½</u>" Common Bacterium-Per Drop__ Green / Water Meter-Stop 1028219 Activated Sludge Green Brown Water Meter-Start 202 8279 Glass Tube Test 🗸 Brown Green Brown Erosion Some Water Added Air Temp. 9.4 Animal Burrows Some ODOR --- | SCIGNS Weed Control & Wind Direction 6 Percolation Pond inspected by Water Level- NOT Flow-6 Erosion some Supervisor Review Animal Burrows Some

Comments

Weed Control Some

Site 300 Sewer Pand-Inspection/Monitoring Report <u>Aerators</u> #2 ON #1<u>0N</u> #2<u>0</u>10 **Heaters** West-East-Water Temp 21.6 Water Temp 186 Oxygen 15 Oxygen 15 pH 9.7 Time /300 Time /300 COLOR-Water Level Z" Common Bacterium-Per Drop Green ^ Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 70242-79 Glass Tube Test N Brown Green Brown Water Added Animal Burrows ODOR-1 NONE Air Temp. 278 Wind Direction **E-W** Weed Control Percolation Pond Water Level-Not Howing Erosion 600

Comments

Animal Burrows

Weed Control

Site 300 Sewer Panc- Inspection Monitoring Report <u>Aerators</u> #2*01* 熱 0心 #1 ひん #3 O1 Heaters West-East-Water Temp /2-6 Water Temp /2./ Oxygen /2 Oxygen /2 pH 8.58 pH 8.60 Time 0700 Time 0230 COLOR----Water Level<u>≠ /¾</u> " Common Bacterium-Per Drop Green ... Water Meter-Stop 2028279 Activated Sludge Green Brown Water Meter-Start 2028279 Glass Tube Test 🖊 Brown Green Brown Erosion Some Water Added Animal Burrows Some Air Temp. 4.4 ODOR | SCIGHT Wind Direction E-W Weed Control Some Percolation Pond Inspecied by Water Level- NOT Flowing Erosion Some Animal Burrows SONE

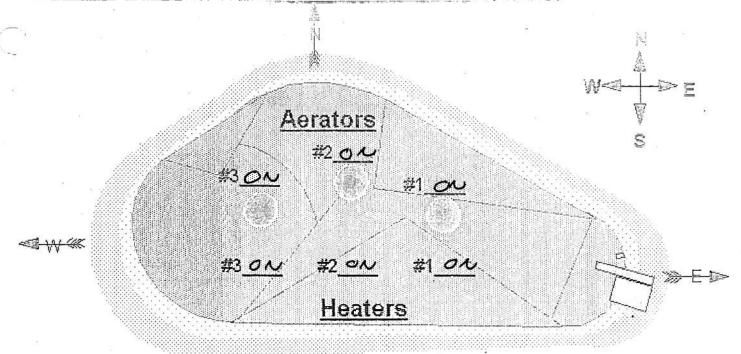
Comments

Weed Control Some

Site 300 Sewer Panc-Inspection Monitories Report Aerators #2<u>6N</u> #3<u>0N</u> **学1 6で** #3<u>6N</u>2 #2 ON #1 ON Heaters West-East-Water Temp 228 Water Temp 19.1 Oxygen_/Z Oxygen_/Z pH857 pH8.62 Time (300) Time 1300 COLOR----Water Level + 13/4 Common Bacterium-Per Drop Green v Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 4026279 Glass Tube Test Brown Green Brown Erosion 50M Water Added Animal Burrows Air Temp. 25.6 ODOR --- NONE Wind Direction EtoW Weed Control Percolation Pond Water Level- Not Plany Erosion / Animal Burrows Comments Weed Control

Site 300 Sewer Fonc- inspection Monitoring Report <u>Aerators</u> Heaters West-East-Water Temp 17.4 Water Temp 16.0 Oxygen_12 Oxygen 12 pH 8.56 pH 8-70 Time 1300 Time 1500 COLOR----Water Level + 13/4. Common Bacterium-Per Drop Green Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test Brown Green Brown Erosion_ Water Added ODOR - Slight Animal Burrows 6 Air Temp. 26,7 Wind Direction F + W Weed Control Percolation Pond Water Level-Not Human Erosion 601 Animal Burrows Comments Weed Control

Site 300 Sewer Pand-Inspection/Monitoring



West-

Water Temp /2.2

Oxygen 12

pH 8.57

Time_**07.**00

COLOR---

Water Level +3" Water Meter-Stop 702 8279

Water Meter-Start 70282 79

Water Added Ø

Air Temp. 8.9

Wind Direction Newe

Green 1/

Green Brown

Brown Green

Brown_

ODOR --- SUGHT

East-

Water Temp_//.3

Oxygen_/?

pH 8.55

Time 01.30

Common Bacterium-Per Drop

Activated Sludge

Glass Tube Test 🗸

Erosion Some

Animal Burrows Some

Weed Control Sunc

Percolation Pond

Water Level- NOT Flow-NG

Erosion Sund

Animal Burrows Some

Weed Control_sone

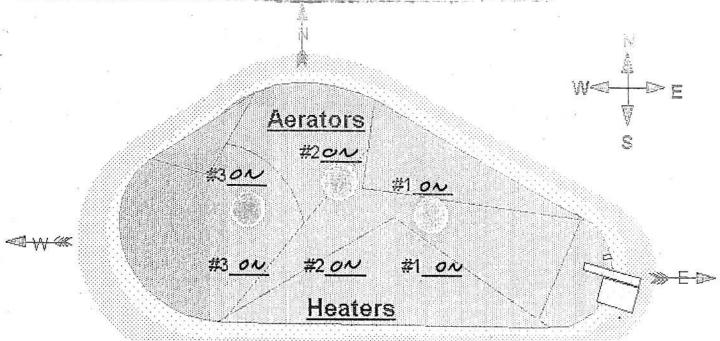
inspected by

//-3-// Date

Commenis

Site 300 Sawer Panc-Inspection/Monitoring Rapa Aerators #2 ON #3 ON #1 ON #3 6N **Heaters** West-East-Water Temp 11.7 Water Temp 11.3 Oxygen /Z Oxygen_/2 pH 8,54 pH9.52 Time 1990 Time/330 COLOR----Water Level+3 Common Bacterium-Per Drop Green Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test 1 Brown Green Brown Animal Burrows Water Added Ø ODOR-15/19ht Air Temp. 15.10 Wind Direction E to W Percolation Pond Water Level- wat flowing //-7-// Date Erosion Jun Animal Burrows Comments Weed Control

Site 300 Sawer Ponc- Inspection/Monitoring Rappor



0200203-01	17.5%
7537	-
A.A.C.	31.

Water Temp 9.3

Oxygen /2

pH 8.50

Time **0700**

Water Level +3"

Water Meter-Stop 702 8219

Water Meter-Start 702 82 24

Water Added @

Air Temp. -//

Wind Direction www



COLOR---

Green__

Green Brown

Brown Green

Brown

ODOR --- SUGHT

East-

Water Temp 9.3

Oxygen /2

pH 8.51

Time 0730

Common Bacterium-Per Drop

Activated Sludge

Glass Tube Test

Erosion Some

Animal Burrows Some

Weed Control Same

Percolation Pond

Water Level-NUT Flank

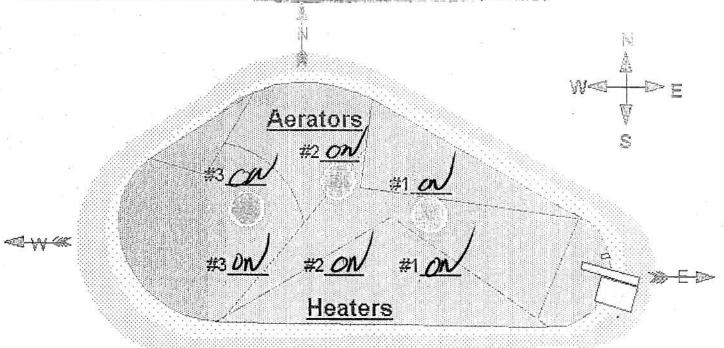
Erosion Source

Animal Burrows some

Weed Control_Some

Comments

Site 300 Sewer Pand- Inspection/Moniforing Repair



W	0	•	4
24 50	Ç.	3	4

Water Temp 13.7 Oxygen 12

pH**3.**25 Time**/5:60**

Water Level+3

Water Meter-Stop 7028279

Water Meter-Start 3029279

Water Added **X**

Air Temp. 20.0

Wind Direction EhW

自る様

COLOR----

Green

Green Brown

Brown Green

Brown___

ODOR-1 None

East-

Water Temp 124

Oxygen_/2

pH8.29

Time<u>)3`</u>∞

Common Bacterium-Per Drop_

Activated Sludge

Glass Tube Test_

Erosion 4

Animal Burrows

Weed Control

Percolation Pond

Water Level-ND Comin

Erosion /

Animal Burrows

Weed Control

LANC HANGE

 \bigcap \bigcap

supervisor Review

11-14-11

11-14-11

Comments

Site 300 Sewer Fond- inspection/Monitoring Rep <u>Aerators</u> #2 OU 約00 #1 0 W #3 OU #2 OU #1 ON **Heaters** West-East-Water Temp 11.6 Water Temp/0.3 Oxygen 8 Oxygen_10.0 pH 8.33 pH8.50 Time 0700 Time 0730 COLOR----Water Level +4" Common Bacterium-Per Drop_ Green _ Water Meter-Stop 7028229 Green Brown Activated Sludge Water Meter-Start 7028276 Glass Tube Test____ Brown Green Brown Erosion Sance Water Added Air Temp. 3.3 Animal Burrows Sonce ODOR-ISLIGHT Wind Direction Nacco Weed Control Sanc Percolation Pond Water Level- NOT Franks Erosion save Animal Burrows sone Comments Weed Control_Some

Site 300 Sewer Fond- inspection Monitoring Rep <u>Aerators</u> #20N #3 ON #1<u>02</u> #2 on #1 ov **Heaters** West-East-Water Temp 9.8 Water Temp 5.8 Oxygen_/Z_ Oxygen_/2_ pH 8.44 pH 8:52 Time 07:00 Time 07.70 COLOR---Water Level + 31/2 Common Bacterium-Per Drop_ Green , Water Meter-Stop 702 82 79 Activated Sludge . Green Brown Water Meter-Start 2028275 Glass Tube Test____ Brown Green Brown Water Added Erosion Somo Air Temp. 4.4 ODOR --- | SCIUMI Animal Burrows Samo Wind Direction Nove Weed Control Sanc Percolation Pond 11.24-11 Water Level- NO FCWic *||-28-||* Date Erosion Sance Supervisor Review Animal Burrows Some Comments Weed Control_scms

Site 300 Sewer Pana- inspection/Monitoring Regard <u>Aerators</u> #2<u>On</u> 郑3 ON #1 OU #2 on #3 OU #1 ON Heaters West-East-Water Temp 13.8 c Water Temp 13.3c Oxygen 12 Oxygen 12 pH8.25 pH 8.30 Time 13:30 Time 13:30 COLOR ----Water Level+3 Common Bacterium-Per Drop Green / Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 70282 79 Glass Tube Test_-Brown Green Brown Erosion Some Water Added -0-Air Temp. 17.9 c Animal Burrows Some ODOR --- Slight Wind Direction East towest Weed Control Some Percolation Pond due Rockstead Inspecied by Water Level-Not Flowing 11-28-11 Erosion Some Supervisor Review Date Animal Burrows Some Comments

Weed Control Some

Site 300 Sewer Fond- Inspection/Monitoring Rev <u>Aerators</u> #2<u>0</u>~ 郷 ひん #1 ひん 郷の心 #2 on 群1 ひん <u>Heaters</u> West-East-Water Temp 8.5 Water Temp 2. / Oxygen /2 Oxygen_/2 pH 8.35 PH 8:42 Time 0600 Time_0630 COLOR---Water Level +4" Common Bacterium-Per Drop____ Green__/ Water Meter-Stop 2028279 Activated Sludge Green Brown___ Water Meter-Start 702 82 19 Glass Tube Test____ Brown Green Brown Erosion Source Water Added -Air Temp. 7.8 Animal Burrows Some ODOR-1SLIGHT Wind Direction W-E Weed Control_some Percolation Pond Water Level-MT Flowing Erosion Some Animal Burrows Some Weed Control some Comments

Site 300 Sewer Fond- Inspection/Monitoring Factor <u>Aerators</u> #2<u>6N</u> #10N #2 ON <u>Heaters</u> West-East-Water Temp 13.6 Water Temp 12.2 Oxygen 12 Oxygen_/2 pHg.25 pH8.29 Time 1300 Time 1300 COLOR----Water Level +4 Common Bacterium-Per Drop Green Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7036 279 Glass Tube Test Brown Green Brown Water Added Animal Burrows 100 Air Temp. 15.6 ODOR-15 light Wind Direction F + W Weed Control 50 Percolation Pond Water Level- Not Acwing Erosion San Supervisor Animal Burrows Comments Weed Control

Site 300 Sewer Pand- inspection/Monitoring Report Aerators #2<u>01</u> #3<u>0</u>~ #1<u>on</u> #2<u>0ル</u> **Heaters** West-East-Water Temp 4.1 Water Temp 4.4 Oxygen_/2 Oxygen_/2 pH 8.50 pH 8.44 Time 0760 Time 0730 COLOR-Water Level +3/2 Common Bacterium-Per Drop 💮 Green 🖊 Water Meter-Stop 202 8294 Activated Sludge Green Brown Water Meter-Start 762 9275 Glass Tube Test Brown Green Brown 💮 Erosion Some Water Added -Animal Burrows Some Air Temp. O ODOR --- SCIGHT Wind Direction Nove Weed Control Somo Percolation Pond Inspected by Water Level- NUT Flouris Erosion Scare Animal Burrows Some Commenis Weed Control_some

Site 300 Sewer Pand- Inspection/Manitoring Report <u>Aerators</u> #2<u>011</u> #3<u>/O</u>/I #1 ON #2<u>on</u> #1 on **Heaters** West-East-Water Temp 7.6 Water Temp 4.4 Oxygen_12 Oxygen_12 pH 8.85 PH 8.52 Time 11:35 Time_11:30 COLOR----Water Level + 4 Common Bacterium-Per Drop Green / Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test Brown Green Brown Erosion Some Water Added -0-Animal Burrows Some Air Temp. 9.0 ODOR-1 Slight Weed Control Some Wind Direction None Percolation Pond Water Level-Not Flowing 12-12-11 Date Erosion Some Supervisor Review Animal Burrows Some Comments Weed Control Some

Site 300 Sewer Pand- inspection/Plantforms Report W-S <u>Aerators</u> #2<u>مر</u>ر #1<u>0ル</u> <u>Heaters</u> West-East-Water Temp 7.1 Water Temp 6.7 Oxygen_12 Oxygen_/2_ pH 8.48 02.8 Hq Time 0700 Time <u>0730</u> COLOR----Water Level+4" Common Bacterium-Per Drop Green / Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test 🗸 Brown Green Brown Erosion some Water Added -Animal Burrows same Air Temp. 5.6 ODOR --- SLIGHT Wind Direction Now Weed Control_some Percolation Pond inspected by Water Level- NUT Fround Erosion sonci Supervisor Review

Comments

Animal Burrows 5000

Weed Control_ some

Site 300 Sewer Func- inspection/Honitoring Repo Aerators #2<u>or</u> #3<u>00</u> 約00 #3 のル #1 or Heaters West-East-Water Temp 4.2 Water Temp 4.2 Oxygen /2 Oxygen 12 pH 8.44 pH 8.56 Time 0700 Time 0730 COLOR----Water Level + 3/2 Common Bacterium-Per Drop Green / Water Meter-Stop 702 82 75 Activated Sludge___ Green Brown Water Meter-Start 2028275 Glass Tube Test_ ~ Brown Green Brown Erosion Some Water Added Animal Burrows_some Air Temp. 4.4 ODOR --- SCIGHT Wind Direction Nove Weed Control Sunc Percolation Pond 12-22-11 Water Level-NOT ROWILL Erosion Sone Animal Burrows Some Comments Weed Control Sure

Site 300 Sawer Func-Inspection Monitoring Report Aerators #2 on #3 on 学1 017 #2 On #1 ON **Heaters** Westeast-Water Temp 5.6 Water Temp4.8 Oxygen_12 Oxygen_12 pH_<u>8.5</u>7 pH 8.54 Time 2:00 Time_1:50 COLOR---Water Level +3 Common Bacterium-Per Drop Green 4 Water Meter-Stop 7038279 Activated Sludge Green Brown Water Meter-Start_7028279 Glass Tube Test 4 Brown Green Brown Erosion Some Water Added & Animal Burrows Some Air Temp. 15.5 DDOR-1 None Wind Direction None Weed Control Some Percolation Pond 12-26-11 Water Level- Not Flowing Erosion Some Animal Burrows Some Comments

Weed Control Some

Site 300 Sewer Fond- inspection/Monitoring Eggs <u>Aerators</u> #2<u>on</u> #1 6 M **Heaters** West-East-Water Temp 10.6 Water Temp 10.1 Oxygen 12 Oxygen_\2 pH 8.61 pH8.69 Time 14:15 Time 14:20 COLOR---Water Level +3 Common Bacterium-Per Drop Green L Water Meter-Stop 7028279 Activated Sludge Green Brown Water Meter-Start 7028279 Glass Tube Test / Brown Green Brown Erosion Some Water Added 0 Air Temp. 16.5 Animal Burrows Some ODOR- None Wind Direction Non = Weed Control Some Percolation Pond Water Level-Not Flowing Erosion Some __ Animal Burrows Some Comments Weed Control Some

Та	rget	Sample Date:	09-Aug-20	11		Month: N	orm Qtr: 3	Norm Year: 2	1011 (y)()	
WELL ID:			N-7DS			AREA INFO:		S300/GSA/EGS		
DATE:		09-Aug-2011	l .	LOG BOOK (DOCUMENT	CONTROL) #:		AA21132		
PURGE ME	THOD	SAMPLE METHOD	: GP / 3	VES		CONTAMINANT	PRESENT:	N	D	
SCREENED	INT	ERVAL:	18.80 - 2	8.80		PUMP INTAKE	DEPTH:	2	7.80	
CASING D	EPTH	(calc)/(fbgs):	30.30	/ 27		CASING DIAME	TER/TCASING	HT(in): 4.	5 / 3.00	
DEPTH TO	WATI	ER(fbmp):8	.50 on 04-	-MAY-11 1	1-28		VOLUME	FACTOR: 0.82	26	
WATER IN	CAS	ING (ft): 2	1.50 (9.02		CASING VOL (Gal/Time):	17.76	5.7 × 3.0 = 47.	(
TIME PUM	P ON		0618			INITIAL FLOW	RATE (Q=GPM	ı):2	00	
TIME PUM	P OF	?:	09	549	MEASURED BE	FLOW METER	GRAD CYL./ BUG	CKET/ OTHER		
TIME	Q	GAL PURGED	VOLUMES	pН	TEMP C	sc	mV	OG	DTW	
0626		15,7	l	7.45	20.9	1411	155	(11.32	
5634		31.4	2	B.87	20.8	1411	141	l l	11.33	
8412		41.1	3	139	20.7	1411	133	1	11.33	
BB44				7-37	21.0	1412	136			
0646				7.37	21.0	1410	133			
METER		SERIAL #		ALIERATED KES/NO		SAMPLER/EMPLO	OYER:	silva90		
рН : SC :		6	(000)	YES/NO		PROJECT:		3MRP		
nV :				YES/NO				of REAGENT:	NA PRIN	
H20:				YES/NO		TF LOCATION:		·		
QC SAMPLE	E ID:	-		QC LAB(S):		-	QC SAM	PLE TIME:	-	
SAMPLE ID	(VE	RIFY): U-	705/3	283		TIME COLLECTE	3D:	0849	•	
PI	ROJEC	T / A	NALYTICAL	LAB / RI	EQUESTED	ANALYSIS /	QUANTII	TY / TYPI	E OF CONTAINERS	
	3M	RP	BCLABO-BI	T. C.	SJAN	TONS-	-1	250_	ml Polyethylene	
	3M 3M		BCLARS BA		SIME		-1		al Polyethylene	
	3M		-BGLABS-BI		SOMETAINS	TFILTER	-0		al Polyothylene	
	3M		FGLSTK	145	SM922		1		al Polyethylene	

Removedall CL

Revision: 07/08/2011

Down

i	Target	Sample Date:	16-Nov-201	11	1	Month: No	orm Qtr: 4	Norm Year:	2011
WELL II):		W-7DS		1	AREA INFO:		8300/GSA/E	GSA
		16-Nov-2011							
		/SAMPLE METHOD							ND
SCREEN	ED INT	ERVAL:	18.80 - 2	8.80]	PUMP INTAKE	DEPTH:		27.80
CASING	DEPTH	(calc)/(fbgs):	30.30	/ 27	(CASING DIAME:	TER/TCASING	HT(in):	4.5 / 3.00
DEPTH 3	TAW OT	ER(fbmp): 1	2.95 on 07	-SEP-11	15/0		VOLUME	FACTOR: 0	.826
WATER I	IN CAS	ING (ft): 17	7.05	15.20	(CASING VOL (Gal/Time):	14.09	17.5 + 3 - = 37.5
		:((
TIME PO	JMP OF	P:	1033		1	MEASURED BY:	FLOW METER/	GRAD CYL./	BUCKET/ OTHER
TIME	Q	GAL PURGED	VOLUMES	pН	TEMP C	sc	mV	OG	DTW
lck.		12.5	1	8.09	22.0	1522	207	1	15,14
1020		25	2	793	22.0	1523	778	1	15.18
1025	-	37.5	3	7.92	21.9	1522	230	. \	15,20
1027				7.90	21.9	1520	230	(
1029				7.89	21.9	1523	228		
								·	

METER		SERIAL #		ALIBRATED (NO		SAMPLER/EMPLO	OYER:	silvas	
sc :				TES/NO			RVATION/AMT		
mV :				YES/NO			CESS H2O DES		8300-DRUM
H2O:				YES/NO					
QC SAME	LE ID	·		QC LAB(S):		akere air versusalarike kundinisis NAN NAN SAN VARIAN SAN VARIAN SAN VARIAN SAN VARIAN SAN VARIAN SAN VARIAN S	QC SAM	PLE TIME:	
SAMPLE	ID (VI	erify): W	.705	3082	1	PIME COLLECTI	ED:	1033	
	PROJE	CT / A		a .					YPE OF CONTAINERS
	(-3±		BCLABS-B	The second secon	B12				50 ml Polyethylene
NO	,		BCLABS-B		B15		-1	2	50 ml Polyethylene
		e ng- eng	_BCLABS=BI FGLSTK		B300.1		1	-	50 ml Polyethylene Sterilized Polyethylene

Evacuated all CL . Used First Strips to Verify

Revision: 07/08/2011

Page: 1 of 1

Ta	rget	Sample Date:	15-Nov-201	11		Month: N	Norm Qtr: 4	Norm Year:	2011 WOLD
WELL ID:			W-7D8			AREA INFO:		S300/GSA/EG	ISA /
DATE:		15-Nov-2011		LOG BOOK	(DOCUMENT	CONTROL) #:	***************************************	AA23009	
PURGE ME	THOD	SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:		ND
SCRBENED	INTE	RVAL:	18.80 - 2	8.80		PUMP INTAKE	DEPTH:		27.80
		(calc)/(fbgs):							
DEPTH TO	WATE	R(fbmp):1	2.95 on 07	-SEP-11	15.28	W.	VOLUME	FACTOR: 0.	826
WATER IN	CASI	NG (ft): 17	7.05	15.02		CASING VOL (Gal/Time):	14.09	12.41 30- = 37.2
TIME PUM	P ON:		1008			INITIAL FLOW	RATE (Q=GPM):	25
TIME PUM	P OFF	7:				MEASURED BY:	FLOW METER/	GRAD CYL./ E	SUCKET/ OTHER
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW
1013		12.4	1	8-11	215	1531	319		15,29
1018		24.8	2	7.97	218	1522	327		1579
1023		37.2	3	7,93	219	1524	330	\	15.33
1025				7-91	21.9	1520	325	(
1027				7-91	21,7	1518	327	[]	
sc:			0863	ALIBRATED YES/NO YES/NO	8	PROJECT: SAMPLE PRESE		3EMG of REAGENT:_	r)
mV : H2O:				YES/NO			CESS H2O DES		S300-DRUM
QC SAMPLI	ID:	Magaz		QC LAB(S):					
		RIFY): W-	1						
		CT / A MG MG	- 1	LAB / F K K		ANALYSIS /		TY / TY 25: 25:	PE OF CONTAINERS onl Polyethylene ml Polyethylene ml Polyethylene
NO	310	M("	- PGLSTM-		SM9221		1		o mi rolyconylone

Adll 2500 of CL to well

Revision: 07/08/2011

Т	arget	Sample Date:	09-Aug-20	11		Month: 1	Norm Qtr: 3	Norm Year: 2	011 / W	(9)
WELL ID:			W-7ES			AREA INFO:		S300/GSA/CGSA	1	
DATE: 8	10/11	69=3ug=201.	- hw	LOG BOOK (DOCUMENT	CONTROL) #:		AA2113&- Y		
PURGE ME	THOD.	SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:	NO3-	-11	
SCREENED	INT	ERVAL:	18.30 - 2	8.30		PUMP INTAKE	DEPTH:	20	6.30	
CASING D	EPTH	(calc)/(fbgs):	30.10	/ 26.8		CASING DIAME	TER/TCASING	HT(in): 4.5	5 / 3.00	
DEPTH TO	WATI	R(fbmp): 9	.20 on 05-	HAY-11	2.58		VOLUME	FACTOR: 0.82	6	
WATER IN	CAS	NG (ft): 2	0.60	7.52		CASING VOL (Gal/Time):	17.02 /	4.8 × 3=	43.5
TIME PUM	P ON:		Ogo)		INITIAL FLOW	RATE (Q=GPM	3./	Q	
TIME PUM	P OF	'÷				MEASURED BY:	FLOW METER	GRAD CYL./ BUC	KET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	
0905		145	\	7.57	21.4	1448	42	(12.70	
0910		29	7_	7.49	21.5	1444	10	1	12-76	
414		43.5	3	7.50	21.6	1441	10	(12.78	
2916				7.53	21,5	1441	9	- (
0916				7.53	215	1440	9	l		
METER		SERIAL #	cr.2 c	AL, FRATED	\$	SAMPLER/EMPL	OYER:	silva90		
рн :		SERIAL #	,002	TES NO		PROJECT:		3MRP		
				YES/NO		NAMPLE PRESE	RVATION/AMT	of REAGENT:	MA	
120:				YES/NO	,	FF LOCATION:	CESS RZU DES	F: 51.06 / 830 8300	DO-DRUM	
C SAMPLE	E ID:	CGSAFB		C LAB(S):				PLE TIME:	0922	-
SAMPLE II	(VE	RIFY):	-7ES/	3020		TIME COLLECT	ED:	0972	2	
PI	ROJEC		NALYTICAL		QUESTED	ANALYSIS /	QUANTIT	Y / TYPE	OF CONTAINERS	
	3M1		BCLABS-BA		S3AN1		1	250 π	nl Polyethylene	•
	3MI		BCLABS-BA		SSMET		1	500m	l Polyethylene	
	3MI		BCLABS-BA		SSMETALS		0		l Polyethylene	
	3MI		BCLABS-BA		SSWET	CHEM ◆ SHO	2	500m	l Polyethylene	
		_	rangin		447	TOLIO	- American	_ 250 ml Sta	rillzed Polvet	avlene

Added 2.0 or of CL

Revision: 07/08/2011

Та	rget	Sample Date:	16-Nov-20	11		Month: N	orm Qtr: 4	Norm Year:	2011
WELL ID:			W-7ES		·····	AREA INFO:		S300/GSA/CG	ISA
DATE:		16-Nov-201	l.	LOG BOOK	(DOCUMENT	CONTROL) #:		AA23010	
PURGE ME	THOD	/SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:	NO.	03-11
SCREENED	INT	ERVAL:	18.30 - 2	8.30		PUMP INTAKE	DEPTH:	***	26.30
CASING D	EPTH	(calc)/(fbgs):	30.10	/ 26.8		CASING DIAME	TER/TCASING	HT(in):	4.5 / 3.00
DEPTH TO	WAT	BR(fbmp):1	4.26 on 07	-SEP-11	16.77	-	VOLUME	FACTOR: 0.	826
									11.0 x 3cc = 33
TIME PUMP ON: 1227 INITIAL FLOW RATE (Q=GPM): 250 TIME PUMP OFF: 1249 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER									
TIME	Q	GAL PURGED	VOLUMES	pĦ	TEMP C	sc	mV	OG	DTW
1232		11	ŧ	7.60	72.2	1577	110	į	16.81
1236		21	2	7.65	224	1545	95	(16-93
121240		33	3	7.63	27.3	1544	99	١	16.95
11242				7.63	27.3	1540	100	(
1244				7.62	221	1542	103	(
METER ph :		serial #	12892	ALIBRATED YES/NO	S	AMPLER/EMPLO	YER:) 3CNP
SC :				YES/NO		AMPLE PRESER		of REAGENT:	NA
H2O:				YES/NO		URGE VOL/EXC F LOCATION:			3300-DRUM
QC SAMPLE	ID:	CGSAFB	(QC LAB(S):	FGLST	K, BCLABS-BA	K QC SAMI	PLE TIME:	1249
SAMPLE ID	(VE	RIFY):	745		T	IME COLLECTE	D:		1249
PF	OJEC					ANALYSIS /		Y / TY	PE OF CONTAINERS
	3E		BCLABS-BA BCLABS-BA		E120		1		ml Polyethylene
	3E		BCLABS-BA		E150 B300.0	_	1		ml Polyethylene
	3CI		BCLABS-BA		E60		3) ml Polyethylene
	3E		FGLSTK		SM9221		1		mL Glass VOA vial terilized Polyethylene

Added 2.0 oz of CL

T	arget	: Sample Date:	11-Aug-20	11		Month: 1	Norm Qtr: 3	Norm Year:	2011 (Wb.10)
WELL ID			W~7P8			AREA INFO:		8300/GSA/CG	SA W
		11-Aug-201							
		/SAMPLE METHO							
		ERVAL:							
									1.5 / 2.68
DEPTH TO	WAT	ER(fbmp):	0.09 on 04	-MAY-11	12.68		VOLUME	FACTOR: 0.	826
WATER IN	CAS	ING (ft): 1	3.09 (2.37		CASING VOL (Gal/Time):	10.81 /	10.2 × 8=0 = 396
TIME PUM	P ON		1033			INITIAL FLOW	RATE (Q≕GPM):	1-4
		7:							
TIME	Q	GAL PURGED	VOLUMES	рн	TEMP C	sc	mV	OG	DTW
1040		10.2	(7.70	21.6	1509	130	(=	1268
1047		20.4	2	7.59	21.8	1513	99	1	12,68
1055		30.6	3	7.59	21.8	1513	90	1	12.68
1057				7.58	218	1512	87	ĺ	
1059				7.59	268	1511	63	1	
METER		SERIAL #	с	ALIEBATED		AMPLER/EMPLO	OYER:	silva90	
рн: sc:				YES/NO	-	ROJECT:		3NRP	
mV :				YES NO	-	URGE VOL/EYC	CESS H20 DEST	reagent:	200 00104
H2O:				YES NO	_	F LOCATION:		S300	300-9R0M
		H-75¥		QC LAB(S):	FGLST	K, BCLABS-BA	NK QC SAMP	LE TIME:	Host 1113
SAMPLE ID	(VE	RIFY): W	785	3025	T	IME COLLECTE	:D:	110	M
	OJEC 3mi	T / A	•	LAB / R		ANALYSIS /	QUANTITY	Y / TYP	PE OF CONTAINERS
	-3111		BCLARS BA		SIMET		1		ml Polyethylene
	-SHI	_	BCLABS-RA		SIMETALS:		0		mi Polyethylene
	-3MI	~ ~	BCLABS-BA	K.	SAMEDE	HEM	2	-500	ml Polyethylene
	ЗМЕ	UP.	FGLSTK		SM9221	:SHO	1	250 ml St	erilized Polyethylene

NOTE:

Purge rate/time: N/A since est_sus_flow = 0

Purge Volume: 23.7900009 gal. Revision: 07/08/2011

Te	arget	Sample Date:	09-Aug-20	11	I	Month: N	lorm Qtr: 3	Norm Year	: 2011 W	
WELL ID:			W-7P8			AREA INFO:		S300/GSA/C		
DATE: 81	ioli	09 Aug 201	- W	LOG BOOK (DOCUMENT	CONTROL) #:		AA21138-	4	<u>-</u>
PURGE ME	THOD	/SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:	TCE-	-3/NO3-17	_
SCREENED	INT	ERVAL:	19.48 - 2	2.48		INTAKE DEPTH	:		0.00	_
CASING D	ЕРТН	(calc)/(fbgs):	22.48	/ 19.5	(CASING DIAME	TER/TCASING	HT(in):	4.5 / 2.68	
).826	•
									9.4 × 30 = 2	5.2_C
		? :								,
TIME			VOLUMES	рН	TEMP C		mV	OG	DTW	
0449		4.4	1	7.72	21.8		48	1	12-61	
0956		16.8	2	7-61	22.0	1512	47	1	12.65	
1003		25.7	3	7.59	220	1510	43	1	12.65	
1005				7.59	21.9	1512	40	(
1007				7.58	21.9	1515	40	1		
		8)								
					E					
METER ph :		serial #	085°	ALIMRATED YES/NO	S	AMPLER/EMPLO	OYER:	silva9		
SC :				YES/NO	s	AMPLE PRESER		of REAGENT:	NA	
H2O:				YES/NO		URGE VOL/EXC F LOCATION:_			S300-DRUM	
QC SAMPLE	ID:	W-75¥		QC LAB(S):_	FGLST	K, BCLABS-BA	K QC SAM	PLE TIME:	1//3	
SAMPLE ID	(VE	RIFY): W-	7PS / 3	UES	т	IME COLLECTE	D:	1011	•	
PF	ROJEC 3MI 3MI 3MI	RP RP	NALYTICAL BCLABS-BA BCLABS-BA	LAB / RE K K	QUESTED SANIO	ANALYSIS / ONS ALS	QUANTIT 1 1	Y / T 25 5	YPE OF CONTAINERS 50 ml Polyethylene 00ml Polyethylene	
	3MI 3MI	RP	BCLABS-BA BCLABS-BA		S3METALS: S3WETC	HEM	0 2	5	00ml Polyethylene 00ml Polyethylene	

Added 2002 of CL

NOTE:

Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 23.7900009 gal.
Revision: 07/08/2011

Te	arget	Sample Date:	16-Nov-20	11		Month: N	form Qtr: 4	Norm Year:	2011
WELL ID:			W-7PS			AREA INFO:		8300/GSA/C	SSA
DATE:		16-Nov-2011	l .	LOG BOOK (DOCUMENT	CONTROL) #:		AA230 09-	
PURGE ME	THOD	/SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:	TCE-	3/NO3-17
SCREENED	INT	ERVAL:	19.48 - 2	2.48		INTAKE DEPTH	*	0	.00
CASING D	EPTH	(calc)/(fbgs):	22.48	/ 19.5		CASING DIAME	TER/TCASING H	HT(in):	4.5 / 2.68
DEPTH TO	WAT	ER(fbmp): 1	4.00 on 07	-SBP-11	6.30		VOLUME	FACTOR: 0	.826
WATER IN	CAS	ING (ft): 8	. 18	6.19	6	CASING VOL (Gal/Time):	6.76	1 X 300 = 15,3 Cat
TIME PUM	P ON		1043			INITIAL FLOW	RATE (Q=GPM)	: <u> </u>	
TIME PUM	P OF	F:	1103			MEASURED BY:	LOW HETER/ G	GRAD CYL./	BUCKET/ OTHER
TIME	Q	GAL PURGED	VOLUMES	рн	TEMP C	sc	mV	OG	DTW
1047		5.1	•	7.84	230	1589	425		16.61
1050		10.2	7	7.65	13.1	1584	413		16.68
1053		15.3	3	7-64	23.1	1585	344	(16.73
1055				763	230	1583	381		16,75
1057			(+)	7.63	23,0	1580	379	1	
METER		SERIAL #		ALIBRATED	:	SAMPLER/EMPLO	OYER:	silva9	0
pH :		(O(C	88.3	TES/NO		PROJECT:			3CKP
SU :				YES/NO		SAMPLE PRESEI PURGE VOL/EXC			
H2O:				YES/NO		TF LOCATION:			8300-DKGM
QC SAMPLI	E ID:	W-75¥		•		TK, BCLABS-B	AK QC SAMP	LE TIME:	1150
SAMPLE I	D (VE	RIFY): W	-7PS/2	wes		TIME COLLECTI	ED:	1103	
P	ROJE	CT / A	NALYTICAL	LAB / RI	EQUESTED	ANALYSIS /	OUANTIT	Y / 'T'	YPE OF CONTAINERS
	3E	MG	BCLABS-BA		E12		1		0 ml Polyethylene
	3E	MG	BCLABS-BA	LK	E15	0.1	1		0 ml Polyethylene
	3E	MG	BCLABS-BA	A.K	E300.	0:NO3	1		0 ml Polyethylene
		MP	BCLABS-BA	N.K	E60	01	3		mL Glass VOA vial
	3E	MG	FGLSTK		SM922	1:SHO	1	250 ml s	Sterilized Polyethylen

Everytal all Cl used test strips to

NOTE:

Purge rate/time: N/A since est_sus_flow = 0

Purge Volume: 23.7900009 gal. Revision: 07/08/2011

Target Sample Date: 15-Nov-2011						ionth: N	orm Qtr: 4	Norm Year	:: 2011 (V	10mg
WELL ID: W-7PS						ARBA INFO: 8300/G8A/CGSA			CGSA	_/
DATE:		15-Nov-2011		LOG BOOK (DOCUMENT	CONTROL) #:		AA23009		
PURGE METHOD/SAMPLE METHOD: GF / 3VES						CONTAMINANT PRESENT: TCE-3/NO3-17				
SCREENED INTERVAL: 19.48 - 22.48						INTARE DEPTH: 0.00				
CASING DEPTH(calc)/(fbgs): 22.48 / 19.5 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68										
DEPTH TO	WATE	R(fbmp): 1	4.00 on 07	-SEP-11	16.28		VOLUME	FACTOR:	0.826	
WATER IN	CASI	NG (ft): 8	.18	6.2		CASING VOL (Gal/Time):	6.76	5. (k 3 = =	15.3
TIME PUM	P ON:	***************************************	1045	•		NITIAL FLOW	RATE (Q=GPM):	1.4	
TIME PUM	P OFF	*				IEASURED BY:	FLOW METER/	GRAD CYL./	BUCKET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	
1049		5.1	(1.86	22.5	1593	277	1	16.55	
1052		10.2	2	7.87	27.9	1510	300	1	16.57	
1056		15.3	3	7.87	72.8	1589	293		16.60	
1058										
1100										
METER		SERIAL #	c. c.	ALIPRATED	ıı s	AMPLER/EMPLO	OYER:	silva	90	
PH: YES/NO					P	PROJECT: 3EMG 3CMP SAMPLE PRESERVATION/AMT OF REAGENT:				
SC :				YES/NO			RVATION/AMT (CESS H2O DES			
H2O:				YES/NO					BJ00-DROR	
		W-75¥		-					1134	
SAMPLE ID (VERIFY): U-705 3085 TIME COLLECTED: \\05										
P	ROJEC	T / A	NALYTICAL	LAB / R	EQUESTED	ANALYSIS /	QUANTIT	ry /	TYPE OF CONTAINE	RS
		BCLABS-BA			E120.1			250 ml Polyethyle		
	3E!		BCLABS-BA		E150		1		250 ml Polyethyle	
	3E1		BCLABS-BA		E300.0		1		250 ml Polyethyle	
NO	3CI		BCLABS-BA	i.K	E60 SM9221		3		0 mL Glass VOA v: Sterilized Poly	
_							-	as v MA		I TOHE

Alled 20 or of CL

NOTE:

Purge rate/time: N/A since est_sus_flow = 0

Purge Volume: 23.7900009 gal. Revision: 07/08/2011

Target Sample Date: 08-Aug-2011						Month: N	lorm Qtr: 3	Norm Year:	2011		
WELL ID: W-35A-04						AREA INFO: S300/GSA/CGSA					
DATE:		08-Aug-2011	L	LOG BOOK (DOCUMENT	CONTROL) #:		AA21132			
PURGE METHOD/SAMPLE METHOD: Grunfos / 3VES						CONTAMINANT PRESENT: ND					
SCREENED INTERVAL: 19.30 - 29.30						PUMP INTAKE DEPTH: 26.28					
CASING D	EPTH	(calc)/(fbgs):	28.57	/ 29	······································	CASING DIAME	TER/TCASING	HT(in):	4.5 / 0.00		
DEPTH TO	WAT	ER(fbmp):5	.31 on 14-	JUN-11 7.	65		VOLUME	PACTOR: 0.	826		
WATER IN	CAS	ING (ft): 2:	3.69 28	192		CASING VOL (Gal/Time):	19.57	1.3 K 51.9 Cal		
TIME PUMP ON: NICE INITIAL FLOW RATE (Q=GPM): 2-5 Q											
TIME PUMP OFF: 1199 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER											
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW		
1123		17.3	(7.86	21.8	1405	124	\	7.75		
1130		34.6	2	7.82	220	407	25		7.75		
1137	77	51.9	3	7-82	220	1400	125	<u> </u>	7-78		
1139				7.81	21.8	1403	120				
1(41				7.81	21.9	1403	120				
			<u> </u>								
METER		SERIAL #	3 0	ALIBRATED YES/NO	;	SAMPLER/EMPLO	OYER:)		
sc :		000	,,,	YES/NO		SAMPLE PRESER	RVATION/AMT	3MRP of REAGENT:	NA		
mV : H2O:				YES NO		PURGE VOL/EXC					
	. TD.		_	YES/NO		FF LOCATION:			-		
SAMPLE II	(VE	RIFY):	95A-04			FIME COLLECTE	BD:		1144		
Pi	ROJEC	CT / A						TY / TY	PE OF CONTAINERS		
3MRP BCLABS-BAK S3AN: 3MRP BCLABS-BAK S3ME*							1		250 ml Polyethylene		
									00ml Polyethylene		
	5 A. C.					CHEM	0 2		500ml Polyethylene		
	-3M		FGLSTE		SM922		-1		Oml Polyethylene		

Added 20 or of CL

Revision: 07/08/2011

Та	rget	Sample Date:	09-Aug-20	11	1	Month: N	orm Qtr: 3	Norm Year:	2011 (W)
WELL ID:			W-35A-04			AREA INPO:		8300/GSA/CGS	JA V
DATE:		09-Aug-2011	L	LOG BOOK (DOCUMENT	CONTROL) #:		AA21132	
PURGE ME	THOD	/SAMPLE METHOD	: Grunfe	os / 3VES		CONTAMINANT	PRESENT:	1	ND
SCREENED	INT	ERVAL :	19.30 - 2	29.30		PUMP INTAKE I	DEPTH:		26.28
CASING D	EPTH	(calc)/(fbgs):	28.57	/ 29	(CASING DIAME:	TER/TCASING	HT(in): 4	.5 / 0.00
		ER(fbmp): 5							
									11 k 30 = 51.3
		: <i>C</i>							
		F:						GRAD CYL./ BU	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW
0949		17-1	١	7.63	21.4	1413	163	(8:03 7.83
0956		34.2	2	7-83	25.0	1409	185	1	8.7.87
1063		51.3	3	7.57	212	1411	173	. 1	7.93
1005				253	210	1408	2490		
1007				2.52	21.0	1407	300	(
METER pH : SC : mV :		serial #	643 °	ALIFATED YES/NO YES/NO YES/NO YES/NO	P S P	ROJECT: AMPLE PRESER	RVATION/AMT C	silva90 3MRP of REAGENT: T: 58.72 / No	NA
						***************************************	QC SAMI	PLE TIME:	
SAMPLE ID	(VE	RIFY):	-35A-C	1/3085	тт	IME COLLECTE	D:	1011	
		CT / A RP RP RP	NALYTICAL BCLABS BI BCLABS BI BCLABS BI BCLABS BI	LAB / RI	EQUESTED SAMETALO SAMETALO	ANALYSIS / ONS ALS PILIER	QUANTIT	Y / TYP	mI Polyethylene mI Polyethylene mI Polyethylene mI Polyethylene mI Polyethylene
	3M	RP .	BCLARS B	Ht-	SIMPORLO	PILTER HEM	-0-	500 500	ml Polyethyle

Evacuatel all CL

	arget	_					orm Qtr: &		11	No.
WELL ID:			W-35A-04			AREA INFO:	deleter.	8300/GSA/C	GSA	Mar.
DATE:		16-Nov-20	11	LOG BOOK (DOCUMENT	CONTROL) #:_		AA23010		
PURGE ME	THOD	SAMPLE METHO	D: Grunfo	s / 3VES		CONTAMINANT 1	PRESENT:		ND	***************************************
SCREENEI	INT	ERVAL:	19.30 - 2	9.30	1	PUMP INTAKE D	EPTH:		26.28	
CASING I	EPTH	(calc)/(fbgs)	: 28.57	/ 29	(CASING DIAMET	ER/TCASING I	HT(in):	4.5 / 0.00	
DEPTH TO	WATI	ER(fbmp):	10.55 on 29	-SEP-11	11.88		VOLUME	FACTOR: 0	.826	
WATER IN	CAS	ING (ft):	18.45	16.69	(CASING VOL (G	al/Time):	15.24	13.7 Gal X	seu = 6
TIME PUN	P ON:	:	0844			INITIAL FLOW	RATE (Q=GPM)	ا:3، ن		
TIME PUM	P OF	?:	0810			MEASURED BY:F	LOW METER/ C	GRAD CYL./	BUCKET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	Hq	TEMP C	sc	mV	og	DTW	
0849		13.7	1	8.34	20.5	1528	171	1	1191	
0853		27.4	2	8.04	21.5	1512	169	(11.95	
0857		41.1	3	7.93	215	1512	170	{	11.98	
0659				7.95	21.4	1518	173	(,		
0901				7.95	21.2	1520	173	1		
	<u> </u>					1 / 4 -			1	- 1
		,								
								<u>'</u>		
ieter		SERIAL	# 0	ALTERATED		SAMPLER / PMPLO	VRD •	silvag	0	
ieter DH:		SERIAL 6(0	# 0	ALTERATED		SAMPLER / PMPLO	VRD •	silva9 3ENG	0 3 3 CMP	
LETER OH:		610	486 S	ALTERATED		SAMPLER / PMPLO	VRD •	silva9 3EMC	0 3 3 CMP	
METER OH : OC :		610	486 S	ALTERATED		SAMPLER / PMPLO	VRD •	silva9 3EMC of REAGENT: ': 45.7	0 3 CMP //	
METER DH : GC :		610	586 3	TALIBRATED YES/NO YES/NO YES/NO		SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC PF LOCATION:	YER:_ VATION/AMT c ESS H2O DEST	3EMG of REAGENT: 1: 45.73 / Ground	None	
METER DH: SC: SV: SV: SV: SV: SV: SV: SV: SV: SV: SV	E ID:	610	586.5	ALIBRATED YES/NO YES/NO YES/NO YES/NO QC LAB(S):	S	SAMPLER/EMPLO PROJECT: SAMPLE PRESER FURGE VOL/EXC F LOCATION:	YER:	JENCO SERVICE	None	
METER OH:	E ID:	6(0 ERIFY): W	- 35 A-04	TALIBRATED YES/NO YES/NO YES/NO YES/NO QC LAB(S):	SEE	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC PF LOCATION:	YER:	of REAGENT: 1: 45.73 / Ground PLE TIME:	None	
METER OH:	E ID: D (VE	(6) (0) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	- 35 A-04 ANALYTICAL GEL	TALIBRATED YES/NO YES/NO YES/NO YES/NO QC LAB(S):	S F F T T EQUESTED AS:FI	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC FF LOCATION: CIME COLLECTE ANALYSIS /	YER: VATION/AMT C ESS H20 DEST QC SAMP D: QUANTIT 0	of REAGENT: 1: 45.73 / Ground PLE TIME:	Mone YPE OF CONTAINER 1L Polyethylene	
METER OH:	E ID: D (VE ROJEC 3E 3E	ERIFY): W	- 3< A-o4 ANALYTICAL GEL GEL	ALLBRATED YES/NO YES/NO YES/NO OC LAB(S):	S S S S S S S S S S S S S S S S S S S	SAMPLER/EMPLO PROJECT: PAMPLE PRESER PURGE VOL/EXC F LOCATION: THE COLLECTE ANALYSIS / LTER ISO	YER:QC SAMP D:QUANTIT 0 2	of REAGENT: 1: 45.73 / Ground PLE TIME: // / T	Mone YPE OF CONTAINER 1L Polyethylene 1L Polyethylene	<u> </u>
METER OH:	E ID: D (VE ROJEC 3E 3E 3E	ERIFY): W	- 3< A-o4 ANALYTICAL GEL GEL BCLABS-B	ALIBRATED YES/NO YES/NO YES/NO OC LAB(S): LAB / R	S S S S S S S S S S S S S S S S S S S	SAMPLER/EMPLO PROJECT: PAMPLE PRESER PURGE VOL/EXC PF LOCATION: PIME COLLECTE ANALYSIS / LTER ISO 0.1	YER:QC SAMP D:QUANTIT 0 2 1	JEMO OF REAGENT: 1: 45.73 / Ground OLE TIME: O)/D Y / T	Mone YPE OF CONTAINER 1L Polyethylene 1L Polyethylene 60 ml Polyethylene	
METER OH: GC: GC: GC: GC: GC: GC: GC: GC: GC: GC	E ID: O (VE ROJEC 3E 3E 3E 3E	ERIFY): W	- 3< A-o4 ANALYTICAL GEL GEL	ALIBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R	EQUESTED AS:FII AS:U E120 E150	SAMPLER/EMPLO PROJECT: SAMPLE PRESER FURGE VOL/EXC F LOCATION: CIME COLLECTE ANALYSIS / LTER ISO 0.1	YER:QC SAMP QC SAMP QUANTIT 0 2 1 1	JEMO OF REAGENT: 1: 45.73 / Ground OLE TIME: O)/D Y / T	Mone YPE OF CONTAINER: 1L Polyethylene 1L Polyethylene 60 ml Polyethylene 60 ml Polyethylene	
METER OH:	E ID: O (VE ROJEC 3E 3E 3E 3E	ERIFY): W ET / MG MG MG MG MG MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI	ALIBRATED YES/NO YES/NO YES/NO OC LAB(S): LAB / R	S S S S S S S S S S S S S S S S S S S	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC OF LOCATION: CIME COLLECTE ANALYSIS / LTER ISO 1.1 5.1 FILTER	YER:QC SAMP D:QUANTIT 0 2 1	JEMO OF REAGENT: 1: 45.73 / Ground OLE TIME: O)/D Y / T	Mone YPE OF CONTAINER: 1L Polyethylene 1L Polyethylene 60 ml Polyethylene 60 ml Polyethylene 1L Polyethylene	
METER OH: GC: GC: GC: GC: GC: GC: GC: GC: GC: GC	E ID: O (VE ROJEC 3E 3E 3E 3E 3E	ERIFY): W ET / MG MG MG MG MG MG MG MG MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI	ALIBRATED YES/NO YES/NO YES/NO OC LAB(S): LAB / R	EQUESTED AS:FII AS:U: E120 E150 E200.7:1	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC PF LOCATION: PIME COLLECTE ANALYSIS / LTER ISO111 FILTER 7:K	YER:QC SAMP QC SAMP QUANTIT 0 2 1 1 0	JEMO of REAGENT: 1: 45.73 / Ground PLE TIME:	Mone YPE OF CONTAINER: 1L Polyethylene 1L Polyethylene 60 ml Polyethylene 60 ml Polyethylene	
METER OH:	E ID: PROJECT RESIDENT	ERIFY): W	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI	CALLERATED YES/NO YES/NO YES/NO OC LAB(S): LAB / R	EQUESTED AS:FII AS:U E120 E150 E200.7:1	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC OF LOCATION: THE COLLECTE ANALYSIS / LTER ISO 1.1 FILTER 7:K 1:NO3	YER:QC SAMP QC SAMP QUANTIT 0 2 1 1 0 1	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME:	WPE OF CONTAINER 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene	6 e e
METER OH:	E ID: ROJEC RESIDENTE ROJEC RESIDENTE R	ERIFY): W CT / MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI	ALIBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R AK	EQUESTED AS:FIT AS:U E120 E200.7: E200.0 E300.0 E300.0	SAMPLER/EMPLO PROJECT: PAMPLE PRESER PURGE VOL/EXC F LOCATION: THE COLLECTE ANALYSIS / LTER ISO1111111	YER:QC SAMP QC SAMP QUANTIT QUANTIT 1 1 6	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 40	Mone YPE OF CONTAINER IL Polyethylene IL Polyethylene io ml Polyethylene IL Polyethylene IL Polyethylene IL Polyethylene IL Polyethylene in Polyethylene io ml Polyethylene	S e e e e e e al
METER OH:	E ID: ROJEC RESIDENTE ROJEC RESIDENTE R	ERIFY): W CT / MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI	ALLBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R LAB / R LK LK LK LK LK LK LK LK LK L	EQUESTED AS:FI AS:U E120 E150 E200.7:1 E200. E300.0 E300.0 E502 E60	SAMPLER/EMPLO PROJECT: DAMPLE PRESER PURGE VOL/EXC F LOCATION: CIME COLLECTE ANALYSIS / LTER ISO 1.1 1.1 FILTER 7:K 1:NO3 1:PERC 1.2 1	YER:QC SAMP D:QC SAMP D:1 0 2 1 1 0 1 1 6 3	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 40	Mone YPE OF CONTAINER 1L Polyethylene 1L Polyethylene 60 ml Polyethylene 1L Polyethylene 1L Polyethylene 1L Polyethylene 60 ml Polyethylene 60 ml Polyethylene 60 ml Polyethylene	S e e e e e e al
METER OH:	E ID: D (VE ROJEC 3E:	ERIFY): W CT / MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI	ALLBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R LAB / R LK LK LK LK LK LK LK LK LK L	EQUESTED AS:FII AS:U E120 E150 E200.7:1 E200. E300.0 E502 E60 E8330	SAMPLER/EMPLO PROJECT: PAMPLE PRESER PURGE VOL/EXC PF LOCATION: PIME COLLECTE ANALYSIS / LTER ISO 1.1 1.1 FILTER 7:K 1:NO3 1:PERC 1.2 1 1:R+H	YER:QC SAMP D:QC SAMP 1 0 2 1 1 0 1 1 6 3 3	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 40	Mone YPE OF CONTAINER 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 1L Polyethylene 1L Polyethylene 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 10 ml Polyethylene 11 Glass VOA via mL Glass VOA via 11 Amber Glass	S e e e e e e al
METER OH:	E ID: O (VE ROJEC SE: SE: SE: SE: SE: SE: SE: S	ERIFY): W CT / MG	ANALYTICAL GEL GEL BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI BCLABS-BI GEL	ALLBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R LAB / R LK LK LK LK LK LK LK LK LK L	EQUESTED AS:FII AS:U E120 E150 E200.7: E300.0 E300.0 E502 E60 E8330 E90	SAMPLER/EMPLO PROJECT: PAMPLE PRESER PURGE VOL/EXC PF LOCATION: CIME COLLECTE ANALYSIS / LTER ISO 1.1 1.1 FILTER 7:K 2:NO3 :PERC .2 1 :R+H 0	YER:QC SAMP QC SAMP QUANTIT 0 2 1 1 0 1 1 6 3 3 1	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 40	Mone YPE OF CONTAINER IL Polyethylene IL Polyethylene ID Polyethylene IL Glass VOA via IL Amber Glass IL Polyethylene	S e e e e e e al
METER OH:	E ID: O (VE ROJEC SE SE SE SE SE SE SE SE SE	ERIFY): W CT / MG	ANALYTICAL GEL GEL BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA GEL GEL	ALLBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R LAB / R LK LK LK LK LK LK LK LK LK L	EQUESTED AS:FII AS:U: E120 E150 E200.7: E200. E300.0 E300.0 E502 E60 E8330 E900:F3	SAMPLER/EMPLO PROJECT: SAMPLE PRESER FURGE VOL/EXC F LOCATION: CIME COLLECTE ANALYSIS / LITER 7:K 1:NO3 1:PERC 1:2 1 1:R+H 0 1:LTER	YER:	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2	Mone YPE OF CONTAINER: 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 12 Mr Polyethylene 13 Mr Polyethylene 14 Mr Polyethylene 15 Mr Polyethylene 16 Mr Polyethylene 16 Mr Polyethylene 17 Mr Polyethylene 18 Mr Polyethylene 18 Mr Polyethylene 19 Mr Polyethylene 19 Mr Polyethylene 10 Mr Polyethylene 11 Mr Polyethylene 11 Mr Polyethylene	S e e e e e e e e al
METER OH:	E ID: O (VE ROJEC SE SE SE SE SE SE SE SE SE	ERIFY): W	ANALYTICAL GEL GEL BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA GCLABS-BA GEL GEL	ALLBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R LAB / R LK LK LK LK LK LK LK LK LK L	EQUESTED AS:FII AS:U: E120 E200.7: E200. E300.0 E300.0 E502 E60 E8330 E90 E900:FI	SAMPLER/EMPLO PROJECT: SAMPLE PRESER FURGE VOL/EXC F LOCATION: CIME COLLECTE ANALYSIS / LTER ISO 1.1 1.1 FILTER 7:K 1:NO3 1:PERC 1.2 1 1:R+H 0 ILTER 6	YER:	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 2: 40 40	WPE OF CONTAINER 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 1L Polyethylene 1L Polyethylene 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 10 ml Polyethylene 11 Glass VOA via 11 Amber Glass 11 Polyethylene 12 MGLASS-AMBER	S e e e e e e al
METER OH:	E ID: O (VE ROJEC SE SE SE SE SE SE SE SE SE	ERIFY): W	ANALYTICAL GEL GEL BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA BCLABS-BA GEL GEL	ALIBRATED YES/NO YES/NO YES/NO QC LAB(S): LAB / R AK	EQUESTED AS:FII AS:U: E120 E150 E200.7: E200. E300.0 E300.0 E502 E60 E8330 E900:F3	SAMPLER/EMPLO PROJECT: SAMPLE PRESER PURGE VOL/EXC OF LOCATION: THE COLLECTE ANALYSIS / LITER ISO111111111	YER:	3EM6 of REAGENT: 1: 45.73 / Ground PLE TIME: 2: 2: 40 40	Mone YPE OF CONTAINER: 1L Polyethylene 1L Polyethylene 10 ml Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 11 Polyethylene 12 Mr Polyethylene 13 Mr Polyethylene 14 Mr Polyethylene 15 Mr Polyethylene 16 Mr Polyethylene 16 Mr Polyethylene 17 Mr Polyethylene 18 Mr Polyethylene 18 Mr Polyethylene 19 Mr Polyethylene 19 Mr Polyethylene 10 Mr Polyethylene 11 Mr Polyethylene 11 Mr Polyethylene	S e e e e e e al

Added 25 or ofle

Revision: 07/08/2011

Page: 1 of 1

Target	t Sample Date:	03-Aug-20	11		Month: 1	Norm Qtr: 3	Norm Year	: 2011 ())()	N. /
WELL ID:		W-25N-20			AREA INFO:_		S300/GSA/E	GSA	
DATE:	03-Aug-201	1	LOG BOOK (DOCUMENT	CONTROL) #:		AA21130		
PURGE METHOD	SAMPLE METHOD	: GF /	3 VES		CONTAMINANT	PRESENT:		ND	rodina
SCREENED INT	PERVAL:	14.83 - 2	19.83		PUMP INTAKE	DEPTH:		26.00	
CASING DEPTH	(calc)/(fbgs):	30.83	/ 28		CASING DIAME	TER/TCASING	HT(in):	4.5 / 2.53	
DEPTH TO WAT	TER(fbmp): 7	.71 on 04	, 03 -нат-11			VOLUME	FACTOR: 0	.826	
WATER IN CAS	ING (ft): 2	2.82 20	0.8		CASING VOL (Gal/Time):	18.85	17.2 × 3cm = 5	1.66
TIME PUMP ON	:	037			INITIAL FLOW	RATE (Q=GPM	1):	34	-
TIME PUMP OF	F:			1	MEASURED BY:	NOW METER	GRAD CYL./	BUCKET/ OTHER	
TIME Q	GAL PURGED	VOLUMES	Щq	TEMP C	sc	mV	OG	DTW	
1043	11.2	1	7.81	22.2	1384	-10	١	10,11	
1047	344	2	7.57	21.9	1399	-0	1	10.12	
1052	51.6	3	7.60	220	1403	-0	1	10:12	
1054	96		7.59	21.8	1402	-0			
1056			7.59	21.8	1401	-0			
SC : mV : H2O:		85	ALICRATED YES/NO YES/NO YES/NO YES/NO		PURGE VOL/EXC OF LOCATION:	RVATION/AMT CESS H2O DES	3MRP of REAGENT: T: 56.56 / 8300	S300-DRUM	-
QC SAMPLE ID:			QC LAB(S):			QC SAM	PLE TIME:		
SAMPLE ID (VE	RIFY):	-25N-7	20/304	<u>5</u> 7	IME COLLECT	BD:	109	59	_
PROJEC 3M 3M 3M 3M			LAB / RI LK LK		ANALYSIS / CONS PALS :FILTER CHEM		TY / TY 25 50 50 50	YPE OF CONTAINERS 0 ml Polyethylene 10ml Polyethylene 10ml Polyethylene 10ml Polyethylene Sterilized Polyethy	/lene
	\$	and d		a /a	al was			ts wrong)	<u>k ng</u>
Revision: 07/		•			250	•		Page: 1 of 1	

14

Та	rget	Sample Date:	04-Aug-20	11	ı	Month: N	Norm Qtr: 3	Norm Year:	2011 (W	' /
WELL ID:			W-25N-20			AREA INFO:		S300/GSA/EG	SA	
DATE:		04-Aug-201.	l	LOG BOOK (DOCUMENT	CONTROL) #:		AA21130		
PURGE ME	THŌD	SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:		_	
SCREENED	INT	ERVAL:	14.83 - 2	9.83		PUMP INTAKE	DEPTH:		26.00	
CASING D	вртн	(calc)/(fbgs):	30.83	/ 28 /	(CASING DIAME	TER/TCASING	HT(in):	1.5 / 2.53	
DEPTH TO	WAT	ER(fbmp):7	.71 on 04-	-MAY-11 /C	0,10		VOLUME	FACTOR: 0.	826	
WATER IN	CAS	ING (ft): 2	2.82	20.73		CASING VOL (Gal/Time):	18.85	17.1 x 3c	2=313
		. 09								
TIME PUM	P OF	?:	0959		1	MEASURED BY:	LOW METER/	GRAD CYL./ B	UCKET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	
0942		17-1	(7.50	214	1405	157	\	10.18	
0948		34.2	2	1.58	21.4	1408	155	1	K218	
0953		51.3	3	7.G1	21.4	1408	136	1	10.18	
0955				7.56	214	1409	139			
0957					114					
						10				
									*	
METER		SERIAL #	# C	ALIBRATED	5	SAMPLER/EMPL	OYER:	silva90)	-
		6108	<u> </u>	YES NO	I	PROJECT:		3MRP		_
sc :				YES/NO					W4	_
nV :				KES NO			CESS H2O DES		S300-DRUM	
H2O:				TES/NO	1	F LOCATION:		8300		***
										-
SAMPLE II	VE	RIFY): W	251-20	7/3UES	7	TIME COLLECT	ED:	00	759	_
P	ROJE								PE OF CONTAINERS	
	*9M		BCLABS-BA		SSANI		1		ml Polyethylene	
	- SH		BCLABS-BA		Same		1		Oml Polyethylene	
	311		BCLABS-BA		SIMETALS		. 0		Oml Polyethylene	
	-3A		BCLABS-BA		SSWET		2		Oml Polyethylene	
	3M	RP	FGLSTK		SM9221	1380	1	250 ml S	terilized Polyeth	nylene

Removed all CC

Tar	get :	Sample Date: 3	14-Nov-2011		Мо	onth: h	Norm Qtr: 4	Norm Year	2011	Mon
WELL ID:		, and the second	√-25N-20		AF	EA INFO:		S300/GSA/B	GSA	
		14-Nov-2011								8
		SAMPLE METHOD								
SCREENED	INTE	RVAL:	14.83 - 29.	83	Pī	JMP INTAKE	DEPTH:		26.00	
CASING DE	PTH(calc)/(fbgs):	30.83 /	28	c	ASING DIAM	eter/tcasing	HT(in):	4.5 / 2.53	<u> </u>
DEPTH TO	WATE	R(fbmp): 1	2.03 on 07-	SEP-11	13.43		VOLUM	FACTOR:	.826	- 41 - 6 (
WATER IN	CASI	NG (ft): 18	3.50	43 16.	i Gal c	ASING VOL	(Gal/Time):	15.28	14 K 3c.	, =42 Gal
TIME PUMP	ON:		0941		I	NITIAL FLO	W RATE (Q=GPI	M):	•	
TIME PUME	OFF	ŧ			к	EASURED BY	AFLOW METERY	GRAD CYL./	BUCKET/ OT	HER
TIME		GAL PURGED				sc	mV		DT	
								•		
	10									
METER		SERIAL	# CI	LEBRATED			PLOYER:	silv	a90 MG	
рн:		SE GIO	<u>&&? </u>	YES/NO		PROJECT: SAMPLE PRE:	SERVATION/AM	of REAGEN	T: NA	<u> </u>
mV :				YES/NO	:	PURGE VOL/1 TF LOCATION	excess H2O DI	8300	/ 8300-DRU	
H2O:	P TD	:		OC LAB(S)						·
QC SAMPL	. TD	erify): W-	25N=20	3065		TIME COLLE	CTED:			
	PROJE		ANALYTICAL						TYPE OF C	
,	31	EMG	BCLABS-BA	K	E12	0.1	1		250 ml Pol 250 ml Pol	yethylene
		eng Eng	BCLABS-BA BCLABS-BA		E300.	0:NO3	1		250 ml Pol	lyethylene ed Polyethylen
	3	emg	FGLSTK		SM922	1:SHO		250 11		
					111	>				
			Pump) Ihob	vable.	Puk	a dear	on the	a Capea	tos.
				,	•	mp box				
			Well	Track	subu	iitted	N 11	15/11 -	EN	
			Unable	to co	llect	samp	us.			

Target Sample Date: Month: Norm Otr: Norm Year: WELL ID: W-25N-27 AREA INFO:_____ DATE: 22-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: PURGE METHOD/SAMPLE METHOD: / CONTAMINANT PRESENT: SCREENED INTERVAL: INTAKE DEPTH: CASING DEPTH(calc)/(fbgs): _____ CASING DIAMETER/TCASING HT(in):____ DEPTH TO WATER(fbmp): VOLUME FACTOR: WATER IN CASING (ft): _____CASING VOL (Gal/Time):____ INITIAL FLOW RATE (Q=GPM): TIME PUMP ON:__ TIME PUMP OFF: MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER Q GAL PURGED VOLUMES PH TEMP C SC SAMPLER/EMPLOYER: MS / WEISS
PROJECT: 3 FMG SERIAL # CALIBRATED METER pH :_ ES/NO YES/NO SAMPLE PRESERVATION/AMT of REAGENT: YES NO PURGE VOL/EXCESS H20 DEST: H20: TF LOCATION: QC SAMPLE TIME: QC LAB(S):____ QC SAMPLE ID: SAMPLE ID (VERIFY):)-25N-22 3USS ____TIME COLLECTED:___ / ANALYTICAL LAB / REQUESTED ANALYSIS / PROJECT QUANTITY / TYPE OF CONTAINERS Pump was no perable. load was put on pump then the brecker went off.

Revision: 07/08/2011

Well Track was submitted on 2/1/11 Page: 1 of 1

	Target	Sample Date:	18-Jul-201	1	4	fonth:	Norm Qtr: 3	Norm Year:	2011 (201)	
WELL	ID:		W-25N-23			AREA INFO:		5300/GSA/E	38A	_
DATE:		18-Jul-2011	1 1	LOG BOOK (D	OCUMENT	CONTROL)	#:	AA21120		_
PURGE	METHOD	SAMPLE METHOD	: GF / LV	/ES		CONTAMINAN	T PRESENT:	*7	CE-6.0	_
SCREE	NED INT	ERVAL:	21.81 - 36	. 81	1	PUMP INTAK	E DEPTH:		36.50	_
			6.1	0					, / 2.51	
									.041-785	
		· ·							多、多いない 1812大き	Sav=
								SPM): 15		-
TIME	PUMP OF	*				MEASURED B	Y FLOW METER	/ GRAD CYL./	BUCKET/ OTHER	
TIM	E Q	GAL PURGED	VOLUMES	рH	TEMP C	sc	mV	OG	DTW	٦
										-
										-
										-
										-
-										-
										-
			<u> </u>			<u> </u>	DI OVERN			_
METER ph :_		SERIAL :	883	TES XNO	1	PROJECT: _		silva9 3MRI	,	
sc :_ mv :_				YES/NO	1	PURGE VOL/	EXCESS H20 I	T of REAGENT: DEST: 1.45 /		- 1
_				TES/NO			N:			_
			· · · · · · · · · · · · · · · · · · ·							•
SAMPL		ERIFY): <u>U-2</u>								_
	PROJE 3M	CT / I IRP	ANALYTICAL BCLABS-BA		QUESTED S3AN:			1 2:	TYPE OF CONTAINERS 50 ml Polyethylene	
		IRP IRP	BCLABS-BA		S3ME' S3METALS				00ml Polyethylene	
	3№	IRP IRP	BCLABS-BA FGLSTK	K	S3WET			2 5	00ml Polyethylene Sterilized Polyeth	vlene
	Jr	ikr	FGBSTR		5.1172		,		101,000	ly Lone
			100	Saw	iple:	2				
			Pemp	work	el.	Co ~	a few	minutes	then avit	- 1
			F							

Revision: 07/12/2011

7	rarge [,]	t Sample Date:	04-Aug-2	011		Month:	Norm Qtr: 3	Norm Yea	r: 2011	M	
WELL ID	:		W-26R-01			AREA INFO:		8300/GRA	Priga		
DATE:		04-Aug-201	1	LOG BOOK	(DOCUMENT	CONTROL) #	*	AA21130			
PURGE M	ETHOD	/SAMPLE METHO	D: GF /	3VES		CONTAMINANT PRESENT: *TCE-15/NO3-40					
SCREENE	D INT	ERVAL:	22.72 -	27.72		PUMP INTAKE DEPTH: 29.00					
CASING	กตกสภ					POMP INTAKE	DEPTH:		29.00		
CADING	DEFIN	(carc)/(rpgs)	30.00	/ 29.8		CASING DIAM	ETER/TCASING	HT(in):	4.5 / 2.67	_	
DEPTH TO	O WAT	ER(fbmp):	11.99 on 0	4-HAY-11 /	4.44		VOLUME	FACTOR:	0.826 (4		
WATER IN	V CAS	ING (ft): 2	0.48	15,56		CASING VOL (Gal/Time):	16.92	12.8 & 3cu=	38.4	
TIME PUN	IP ON		100	2		INITIAL FLOW	RATE (O=GPM	١.	1.6 @		
TIME PUM	IP OF	?:	10	33		MEASURED BY	FLOW MRTER/	GPAD CVI /	BUCKET/ OTHER	_	
TIME	Q	GAL PURGED	VOLUMES	pН	TEMP C				BOCKETY OTHER		
1015		12-8	(1-62	22.3		627	OG	DTW	7	
1023	2.0	25.6	2	2.44				(-	
1029	40		3			1463	663		21.21		
		38.4	ر _	7.38	21.5	1460	585		26.42		
1031	20			7.37	21.5	1463	473			1	
1033	20			7-38	21.5	1470	458			1	
										1	
										-	
1ETER										j	
OH :		SERIAL #		ALIBRATED RES/NO	` S;	AMPLER/EMPLO	YER:				
SC :				YES /NO	Si	AMPLE PRESER	VATION/AMT o	f REAGENT:	NA		
120:				YES/NO	PU	URGE VOL/EXC	ESS H20 DEST	: 50.76 /	TF-834		
						F LOCATION:		834			
C SAMPLE	ID:	GSAFB	(C LAB(S):	FGLSTI	C, BCLABS-BA	K QC SAMP	LE TIME:	1037		
AMPLE ID	(VER	(IFY): <u>U</u> -	16A-01	/ 30ES	T	ME COLLECTE	D:	10	37		
	OJECT	' / AN		-			QUANTITY				
	3MR		BCLABS-BA	K	SSANIC	NS	1		YPE OF CONTAINERS 0 ml Polyethylene		
	SMR	-	BCLABS-BAI		SSMETA		1	5	Oml Polyethylene		
	9MR	-	BCLABS-BAI BCLABS-BAI		3METALS:		0	5 (Oml Polyethylene		
	3MR	-	FGLSTK		SSWETCI		2	50	Oml Polyethylene		
					SM9221:	onU	1	250 ml s	Sterilized Polvethy	lene	

Hed to torn up Purge volume to get rid of CL.
Evacuated all CL

Ta	arget	: Sample Date:	03-Aug-20	11	i	Month: N	orm Qtr: 3	Norm Year	:: 2011	, ,
WELL ID:			W-26R-01			AREA INFO:		8300/GSA/1	EGSA	_
		03-Aug-201								_
PURGE ME	THOD	/SAMPLE METHO	O: GF / :	ves	Politicalism	CONTAMINANT	PRESENT:	*TCE	-15/MO3-40	_
SCREENED	INT	ERVAL:	22.72 - 2	17.72	1	PUMP INTAKE	DEPTH:		29.00	_
CASING D	EPTH	(calc)/(fbgs):	30.00	/ 29.8	(CASING DIAME	TER/TCASING	HT(in):	4.5 / 2.67	_
DEPTH TO	WAT	ER(fbmp):	11.99 on 0	4-MAY-11	14.38		VOLUME	FACTOR:	0.826	_
WATER IN	CAS	ING (ft): 2	0.48	15.62	(CASING VOL (Gal/Time):	16.92	17.9 x3w=	38. ₹
TIME PUM	P ON	:	0950			INITIAL FLOW	RATE (Q=GPM	1):	1.5	_
TIME PUM	P OF	F:				MEASURED BY	FLOW METERX	GRAD CYL./	BUCKET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	
0958		17.9	1	7-66	22-1	1459	43	(18.66	
1008		25.8	7	7-67	22.5	1456	30	\	18.73	
1017		38.7	3	7-70	22.4	1457	21	1	18.81	
1019				7.72	22-3	1459	18	1		
1021				7-73	223	1455	18	l		
METER		SERIAL 1	0683	CALIARATED YES NO		SAMPLER/EMPLO	OYER:	silva 3MR		
sc :				YESYNO	S	SAMPLE PRESER		of REAGENT:	NA	
H2O:				YES NO		PURGE VOL/EXC OF LOCATION:		***************************************	TF-834	
QC SAMPLE	E ID:	EGSAFB		QC, LAB(S):	FGLST	rk, BCLABS-BA	NK QC SAM	PLE TIME:		
		RIFY):		1						
PI	ROJEC	CT / #	NALYTICAL BCLABS-BA		EQUESTED S3ANI				TYPE OF CONTAINERS	
	3 <i>M</i>	IRP IRP	BCLABS-BI BCLABS-BI	AK	S3MET	PALS	1	:	50 ml Polyethylene	
		IRP	BCLABS-BA		S3METALS S3WET		0 2		500ml Polyethylene 500ml Polyethylene	
	314	RP	PCLSTK		_SM9221	· CHO			Starilized Boluethu	lare

Addul 2.0 or of CL

T	arge	t Sample Date:	15-Nov-20	11		Month:	Norm Qtr: 4	Norm Year	: 2011 (DOM
WELL ID	:		W-26R-01			AREA INFO:_		8300/GSA/E	GSA
		15-Nov-201							
PURGE M	ethod	/SAMPLE METHO	D: GF / :	3VES		CONTAMINANT	PRESENT:	*TCE-	-15/NO3-40
									29.00
									4.5 / 2.67
DEPTH TO	TAW C	ER(fbmp): 6	5.50 on 07	-SEP-11	18.46	3	VOLUME	FACTOR: 0	.826
									9.5 x 3.5 = 28.5 Cal
									2.0
		F:							
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW
0910	2	9.5	1	6.20	21.5	1500	671		22.18
0915	2	19.0	2	8.17	21.4	1473	602		24.42
0120	12	28,5	3	6.80	215	1476	576	(26.71
0926				7-20	21.8	1472	482	1	,
0924				7.25	21.9	1468	480	1	
0926				7.27	21.7	1463	443	1	
METER ph :		SERIAL #	: c.	ALIBRATED	S	AMPLER/EMPL	OYER:	silva9	0
sc :		<i>Φ</i> (0	00.2	YES/NO	_	ROJECT:	RVATION/AMT o	3ENG	3PSDMP
mV :				YES/NO	-	URGE VOL/EXC	CESS H20 DEST	: 64.37 /	TF-834
H2O:				YES/NO	T	F LOCATION:		834	
QC SAMPLE	E ID:	W-26R-49Y		C LAB(S)	GLSTK, BO	LABS-BAK, C	ALTESTOC SAMP	LE TIME:	1200
SAMPLE II	(VE	RIFY): <u>U</u>	-26n-01/	3085	T	IME COLLECTE	BD:		0929
	ROJEC 3EI 3EI 3EI 3EI	MG MG HG SDMP	NALYTICAL BCLABS-BA BCLABS-BA CALTEST FGLSTK	K .	EQUESTED :	- 1 + NO3 " L	QUANTITY 1 1 3 1		PE OF CONTAINERS ml Polyethylene ml Polyethylene ml Glass VOA Vial terilized Polyethylene

Eunevatal all el testel using pool test strips

Tar	get	Sample Date:	14-Nov-201	1	М	onth: No	rm Qtr: 4	Norm Year:	2011
WELL ID:_		,	-26R-01		Al	REA INFO:		8300/GSA/EG	SA
		14-Nov-2011							
		SAMPLE METHOD							15/NO3-40
SCREENED	INTE	RVAL:	22.72 - 2	1.72	P	OWD INTAKE D	EPIN:		
CASING DE	PTH(calc)/(fbgs):	30.00 /	29.8	·c	ASING DIAMET	er/TCASING	HT(in):	4.5 / 2.67
DEPTH TO	WATE	R(fbmp): 6	.50 on 07-	SEP-11	18,50		VOLUME	FACTOR: 0	.826
WATER IN	CASI	NG (ft): 25	5.97	11.50	c	ASING VOL (G	al/Time):	21.46	9,5 x 3cu= 28,5
TIME PUME	ON:		3953		I	NITIAL PLOW	RATE (Q=GPM	n:t	,5 0
MING DUM	077		1023		М	EASURED BY	LOW METER	GRAD CYL./	BUCKET/ OTHER
		GAL PURGED				sc			DTW
1000		9.5					158	\	22.64
		19	2			1470	113	(22.86
1006			3	7.69	27.5		91	ı	2330
1013		28.5				, , , , ,	. , , , , , , , , , , , , , , , , , , ,		
1015									
1017						Ü.			
					1	<u> </u>	<u> </u>		
METER		SERIAL	#	CALFARATED	;	SAMPLER/EMPL			IG 3PSDNP
		G	5 25501	YES/NO		SAMPLE PRESE	RVATION/AMT		- AUA
				/BS/NO		PURGE VOL/EX	CESS H2O DE	ST: 64.37 /	TF-834
MV :				VES/NO		TF LOCATION:			
OC SAMPI	E ID	:W-26R-49Y		QC LAB(S)	fglstk, e	CLABS-BAK, C	CALTESTOC SA	MPLE TIME:_	\$5/201
QC DIMILE			-160-01	7.155		TIME COLLECT	ED:	1	023
1	PROJE	CT /	ANALYTICAI	LAB /	REQUESTED	ANALYSIS /	QUANT 1	LTY /	TYPE OF CONTAINERS 250 ml Polyethylene
		EMG	BCLABS-E		E12		1		250 ml Polyethylene
	_	emg	BCLABS-I		E15				250 ml Polyethylene
		EMG	BCLABS-I		E300.		3		0 mL Glass VOA vial
		PSDMP	CALTES		E6 SM922	1+6HQ	,1		Sterilized Polyethylene

Added 2.0 or's of CL

,	Target	Sample Date:	18-Jul-201	1		Month: N	orm Qtr: 3	Norm Year: 20	DII (MC M.)
WELL II):		W-26R-05			AREA INFO:		8300/GSA/EGSA	
		18-Jul-2011							
PURGE !	METHOD/	SAMPLE METHOD	: PB / 9	DBA		CONTAMINANT	PRESENT:	TCE-3.3/	NO3-53
								0.00	
									5 / 1.50
DEPTH S	TO WATE	R(fbmp): 1	6.35 on 02	-JUN-11			VOLUM	E FACTOR: 0.82	6
WATER :	IN CASI	ING (ft): 1	0.65 9.	36		CASING VOL (Gal/Time):	8.80 7-7	x 90%= 6.93
TIME P	UMP ON:	1				INITIAL FLOW	RATE (Q=GP	M):	
		?:		·	П	MEASURED BY:	FLOW METER/	ERAD CYL./ BUC	KET/ OTHER
TIME	Q	GAL PURGED	VOLUMES	pН	TEMP C	sc	Vm	OG	DTW
		\$ Dan	90%	7.17	20.8	1363	111		
0931		7.0 Cm							
		,							
	_								
					+				
							· ·		
METER		SERIAL	# (ALINATED		SAMPLER/EMPI	LOYER:	silva90	
metek pH :		610	883	YES/NO		PROJECT:	-	3MRP	
				YES		SAMPLE PRESI	ervation/ami	of REAGENT:	NA
				YES/NO				ST: 7.92 / 83	JU-DRUM
				XES/NO		TF LOCATION			
QC SAM	PLE ID	*		QC LAB(S)	:		QC S	AMPLE TIME:	
SAMPLE	ID (V	ERIFY): U	261-05	1 9015	4	TIME COLLECT	TED:	0938	
								TYY / TYP	PE OF CONTAINERS
		MRP	BCLABS-B	AK	S3A	NIONS	1	250	mi botheruliene
		MRP			S3M	ETALS			ml Polyethylene
		MRP	BCLABS-B	AK	S3META	etals Ls:filter			ml Polyethylene
	3	MRP	BCLABS-B		S3W	BTCHEM	2		oml Polyethylene
	0 - 3	мпр.	FGLSTK		SM92	21:SHO	1	250 ml St	erilized Polyethylene

Added .3 or of CL

NOTE: Purge rate/time: N/A since est_sus_flow = 0 Purge Volume: 10 gal. Revision: 07/12/2011

T	arget	Sample Date:	21-Jul-201	.1		Month: 1	Norm Qtr: 3	Norm Year: 2	2011 / WOW
WELL ID		······	W-26R-05			AREA INFO:		S300/GSA/EGS	A (
		21-Jul-201							
PURGE MI	THOD	/SAMPLE METHOD	: PB / 9	OBA	····	CONTAMINANT	PRESENT:	TCE-3.3	/NO3-53
SCREENE	INT	ERVAL:	22.05 - 2	7.05		INTAKE DEPTH	I:	0.0	0
CASING D	EPTH	(calc)/(fbgs):	26.68	25.5		CASING DIAME	TER/TCASING	HT(in): 4.	5 / 1.50
DEPTH TO	WAT	ER(fbmp):1	6.35 on 02	-JUN-11			VOLUME	FACTOR: 0.8	26
									8 × 90%=6.1
TIME PUM	IP ON					INITIAL FLOW	RATE (Q≈GPM):	
TIME PUM	IP OF	:				MEASURED BY:	FLOW METER/	GRAD CYL. BU	CKET/ OTHER
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	m∇	OG	DTW
1208		6.0	90%	8.78	226	1439	55		
					-				
METER		SERIAL #					1		
		608		LIBRATED TES/NO		Samplek/Emplo Project:	OYER:	silva90 3MRP	
sc :				YES/NO				of REAGENT:	
nV : H2O:				YES/NO		PURGE VOL/EXC TF LOCATION:		T: 7.92 / 830	0-DRUN
			-	-0		•			
				F			QC SAM	PLE TIME:	
SAMPLE I	D (VE	RIFY):	26n-05	90BA		TIME COLLECT	ED:	17	17
P	ROJEC	T / A	NALYTICAL :	LAB / I	REQUESTED	ANALYSIS /	CITMAUQ	Y / TYP)	E OF CONTAINERS
	(~3M	RP	BCLABS-BA	K	S3AN	IONS	1	250	ml Polyethylene
ND) -3 mi		BCLABS-BAI		S3ME		1		nl Polyethylene
/	- 3M		BCLABS-BAI		S3METALS S3WET		0		nl Polyethylene
	3MI		FGLSTK		SM922		1		ml Polyethylene Brilized Polyethylene

Evereted all CL

NOTE:

Purge rate/time: N/A since est_sus_flow = 0

Purge Volume: 10 gal. Revision: 07/12/2011

						Month:	Norm Qtr: 4	Norm Year	c: 2011	m)		
METT ID	1		W-26R-11			AREA INFO: 8300/GSA/EGSA						
DATE:		15-Nov-201	1	LOG BOOK	(DOCUMENT	CONTROL) #:		AA23008		_		
PURGE M	ETHOD	/SAMPLE METHOD	: GF / 3	VES		CONTAMINANT	PRESENT:	TCE-	1.6/NO3-14			
SCREENE	O INT	ERVAL:	18.08 - 2	88.08	1	PUMP INTAKE DEPTH: 31.08						
CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98										_		
DEPTH TO WATER(fbmp): 13.95 on 07-SEP-11 15.80 VOLUME FACTOR: 0.826										_		
									11.1 × 3ec = 3	3.3 Cm/		
TIME PUR	IP ON	:0	939			INITIAL FLOW	RATE (Q=GPM	l):	20 a	_		
TIME PUN	IP OF	F:				MEASURED BY:	FLOW METER	GRAD CYL./	BUCKET/ OTHER			
TIME	Q	GAL PURGED	VOLUMES	pН	TEMP C	sc	mV	OG	DTW	_		
0945		((, ((7.62	27.1	1490	325	1	15.78			
0949	<u> </u>	22.1	2	7.66	22.4	1488	269	1	15.50			
0955		33.3	3	7.73	22.3	1492	202	1	15, 81			
0957	ļ			7.71	27.4	1448	201	(]		
0959				7.70	27.3	1489	212	1]		
		·										
METER				ALIARATED	s	AMPLER/EMPL	OYER:	silva	90	-		
	ON SEA NO						PROJECT: 3EMG 3CMP					
mV :				YES/NO	p	SAMPLE PRESERVATION/AMT of REAGENT: PURGE VOL/EXCESS H20 DEST: 37.25 / 8300-DRUM						
H2O:				YES/NO						-		
QC SAMPL	E ID:			QC LAB(S):			QC SAM	PLE TIME:	-	-		
SAMPLE I	D (VE	RIFY): W-	2612-11	3085	Т	IME COLLECT	ED:		/003			
P	ROJE	CT / A	NALYTICAL -DCLABS-BA	LAB / R	EQUESTED	ANALYSIS /	TYPE OF CONTAINERS					
NO.	\ -		-BCLABS-BI		*E150		-1-	_2	50 ml Polyethylene 50 ml Polyethylene			
	(~		BCLADS-DA		E300.0		1	2	250 ml Polyethylene 40 mL Glass VOA vial			
		MP-	BCLABS-BA		E60		-3					
	JE	MG	FGLSTK		SM9221	:SHO	1	250 ml	250 ml Sterilized Polyethylene			

Evacuatul all CL

	Targe	t Sample Date:	14-Nov-201	.1		Month: 1	1011 (M CK)					
WELL I	WELL ID: W-26R-05							S300/GSA/EGS.	A			
DATE:_	DATE: LOG BOOK (DOCUMENT							AA23008				
PURGE	PURGE METHOD/SAMPLE METHOD: PB / 90BA						CONTAMINANT PRESENT: TCE-3.3/MO3-53					
SCREENED INTERVAL: 22.05 - 27.05						INTAKE DEPTH	1:	0.0	0			
CASING	DEPTH	(calc)/(fbgs):	26.68	25.5	+	CASING DIAME	TER/TCASING	HT(in): 4.	5 / 1.50			
DEPTH	TO WAT	'ER(fbmp): 2	0.11 on 07	-SEP-11	21.90)	VOLUME	FACTOR: 0.8	26			
WATER	IN CAS	ING (ft): 6	.89 (178		CASING VOL (Gal/Time):	5.69 3.5	x40% = 3,51 6-	J		
TIME P	UMP ON	·				INITIAL PLOW	RATE (Q=GPM	i):				
TIME PUMP OFF:					MEASURED BY:	PLOW METER/	GRAD CYL. BU	CKET/ OTHER				
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW			
0912		3.5	90%	6.97	19.4	1286	98		23.92			
	_					1						
						 						
									1			
METER		SERIAL #	£ C	ALIBRATED		SAMPLER/EMPI	OYER:	silva90				
рн :		SERIAL #	0883			PROJECT:		3 EMG 3	PSDMP			
SC: mV:				YES/NO					N4_			
H2O:			·····	YES/NO		TF LOCATION:		T: 5.12 / 830	IO-DRUM			
	LE ID	: EGSAFB	(Cy LAB(S)		•			0928			
SAMPLE	ID (V	BRIFY): W4	6n.05	90BA		TIME COLLECT	ED:	0928				
	PROJE			! LAB / RI K		ANALYSIS /		TY / TYP 250	E OF CONTAINERS ml Polyethylene ml Polyethylene			
		EMG	BCLABS-BA		E300.		1		ml Polyethylene			
مدم	31	SDMP	CALTEST		E6		3	40 m	L Glass VOA vial			

Added 3 or of CL

Та	Target Sample Date: 08-Aug-2011						Norm Qtr: 3	Norm Year:	2011 ())		
WELL ID:			W-26R-11			AREA INFO:	SA				
DATE:	08-Aug-2011 LOG BOOK (DOCU					CONTROL) #:		AA21132	21132		
PURGE METHOD/SAMPLE METHOD: GF / 3VES						CONTAMINANT	PRESENT:	TCE-1.	6/NO3-14		
SCREENED INTERVAL: 18.08 - 28.08						PUMP INTAKE	DEPTH:		31.08		
CASING D	ЕРТН	(calc)/(fbgs):				CASING DIAME	TER/TCASING	HT(in):	1.5 / 1.98		
DEPTH TO	WATI	R(fbmp):9	.16 on 04-	1.85 -MAT-11			VOLUME	FACTOR: 0.	826		
WATER IN	CAS	ING (ft): 1	9.82 17	-43		CASING VOL (Gal/Time):	16.38	4.4 x 3ev = 43.2		
TIME PUM	P ON:	***************************************	1015			INITIAL FLOW	RATE (Q=GPM): <u> </u>	,6		
TIME PUM	P OF	?:	1051			MEASURED BY	PLOW METERS	GRAD CYL./ B	UCKET/ OTHER		
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW		
1024		14.4	(781	21.9	(433	164	1	11.90		
1033		28.50	2	7.83	22.0	1437	112	22	11.91		
1042		43.2	3	7.79	22.(1432	116		11.92		
1044				7.70	21.9	1434	109				
1046		*		7.76	21.9	1432	108				
					<u></u>						
METER		SERIAL (# C	ALIHAATED			OYER:)		
pH :		61000 J		res/no		PROJECT:	RVATION/AMT o	A DEAGENET	NA		
				YES/NO			CESS H20 DEST	-			
н20:				YBS/NO							
QC SAMPLI	B ID:			QC LAB(S):			QC SAMI	LE TIME:			
SAMPLE II	D (VE	RIPY): LS-	2611-11	3045		TIME COLLECT	ED:	105	1		
P	ROJEC	T / A	NALYTICAL	LAB / RI	EQUESTED	ANALYSIS /	QUANTIT	γ / πv	PE OF CONTAINERS		
		RP	BCLABS-BA		SJAN		1		0 ml Polyethylene		
	3M	RP	BCLABS-BA	AK	S3ME	TALS	1		Oml Polyethylene		
	3M		BCLABS-BA	AK	S3METALS	:FILTER	0		0ml Polyethylene		
	3M		BCLABS-BA		SSWET		2		Oml Polyethylene		
	+336	RD-	PODSTR		-SH922	- SiiO	1	230 ml 6	terilized Polyethylene		

Added 2.0 or of CL

Target Sample Date: 09-Aug-2011						Month: N	orm Qtr: 3	Norm Year:	2011	/
WELL ID: W-26R-11						AREA INFO: S300/GSA/EGSA				
DATE:		09-Aug-2011	L	LOG BOOK (DOCUMENT	CONTROL) #:		AA21132		
PURGE METHOD/SAMPLE METHOD: GF / 3VES						CONTAMINANT	PRESENT:	TCE-1	.6/NO3-14	
SCREENED INTERVAL: 18.08 - 28.08						PUMP INTAKE	DEPTH:		31.08	
CASING D	ЕРТН	(calc)/(fbgs):	29.28	/ 27		CASING DIAME	TER/TCASING	HT(in):	4.5 / 1.98	
DEPTH TO	WAT	ER(fbmp):9	.16 on 04-	-MAY-11 +	200	1.91	VOLUME	FACTOR: 0	.826	
WATER IN	CAS	ING (ft): 1	9.82	1600	17.37	CASING VOL (Gal/Time):	16.38	13 × 320 = 42-1	74
TIME PUM	P ON		06+8-	0655	1	INITIAL FLOW	RATE (Q=GPM	ı): 	1.5Q	
TIME PUM	TIME PUMP OFF: 0930						FLOW METERY	GRAD CYL./	BUCKET/ OTHER	
TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	
0905		14.3 14.9	+	7.68	21.4	1443	148	(11.95	
0914		29.6	4	7.49	21.4	1441	134	(11.95	
0924		44.7	3	7.53	214	1442	127	1	11.97	
0126			r.	751	21.3	144/	124	(
ons				7.55	21.2	1440	125	(
				7						
METER		SERIAL #		ALIBRATED		SAMPLER/EMPL	OYER:			
			7883	resyno		PROJECT:	DIAMTON / AMM	3MRP		
mV :		 		ES NO		PURGE VOL/EX				
H2O:				YES/NO		PF LOCATION:				
QC SAMPLI	E ID:			QC LAB(S):			QC SAM	PLE TIME:		
SAMPLE II	VI) C	RIFY): W	262-11	3055	1	TIME COLLECT	ED:	693	0	
P		RP.	BCLABS_B/	AK	equested . 03a ni		QUANTI		YPE OF CONTAINERS	
	-an	467	BCLABS DI		SIMET		1 600ml Polyethyle			
		RP	BCLABS D		COMPTALO		500ml Polyethylen			
3MRP FGLST			FGLSTK		SM9221		7 500ml Polyethy			500

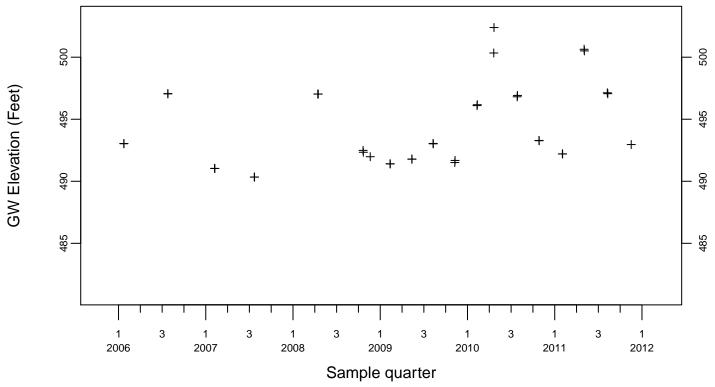
Eucartal all CC

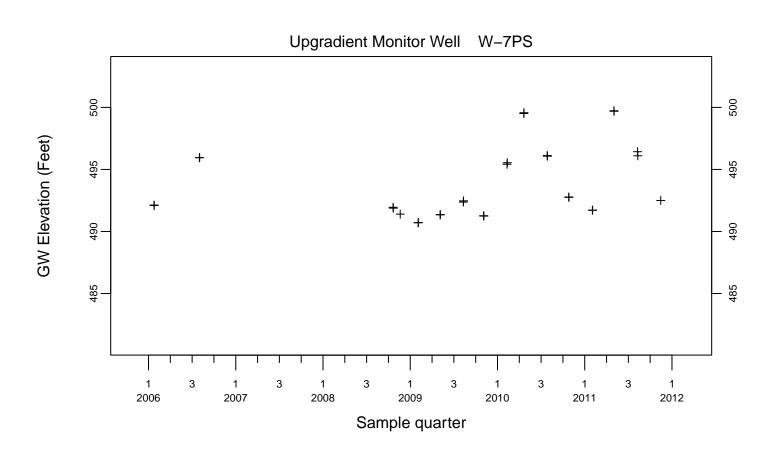
WELL ID:	Target Sample Date: 14-Nov-2011						Month: No	orm Qtr: 4	Norm Year:	2011 (06	M. /	
DATE: 14-MOV-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008 PURCE METHOD/SAMPLE METHOD: OF / 3VEB CONTAMINANT PRESENT: TCE-1.6/MOJ-14 SCREEMED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08 CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98 DEPTH TO WATER(fbmp): 13.95 ON 07-SEF-11 5.69 VOLUME FACTOR: 0.926 WATER IN CASING (ft): 15.03	WELL ID	:		W-26R-11			AREA INFO: \$300/G8A/EGSA					
SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08	DATE:		14-Nov-2011	J	LOG BOOK (E	OCUMENT	CONTROL) #:					
CASING DEPTH (calc)/(fbgs): 29.28 / 27	PURGE M	ETHOD/	SAMPLE METHOD	: GF / 31	7E8		CONTAMINANT I	PRESENT:	TCE-1	.6/NO3-14		
DEPTH TO WATER (fbmp): 13.95 on 07-8EF-11 [5.69] VOLUME FACTOR: 0.826 WATER IN CASING (ft): 15.03 (3.5) CASING VOL (Gal/Time): 12.42 (1.7 x 3cu = 33.66) TIME PUMP ON:	SCREENE	D INTE	RVAL:	18.08 - 28	3.08		PUMP INTAKE D	EPTH:		31.08	,	
NATER IN CASING (ft): 15.03 13,55 CASING VOL (Gal/Time): 12.42 (1,2 x 3cc = 33,6 Cal)												
NATER IN CASING (ft): 15.03 13,55 CASING VOL (Gal/Time): 12.42 (1,2 x 3cc = 33,6 Cal)	DEPTH T	O WATE	R(fbmp): 1	3.95 on 07	-SEP-11	15,60	<u>i</u>	VOLUME	FACTOR: 0	. 826		
TIME PUMP OFF: 173 MEASURED RATELOW METER) GRAD CYL./ BUCKET/ OTHER TIME Q GAL PURGED VOLUMES DH TEMP C SC RV OG DTW 1100 22.4 2 1.45 27.8 446 527 1 15.72 1100 22.4 2 1.73 27.7 1467 18 15.75 1116 7.70 22.4 1490 23 1 15.77 1116 7.70 22.2 1488 20 1 15.77 11178 7.70 22.2 1488 20 1 15.77 1118											Carl	
TIME	TIME PU	MP ON:		1057			INITIAL FLOW	RATE (Q=GPM	1):2.	0 0	-	
	TIME PU	TIME PUMP OFF:					MEASURED BY:	LOW METER	GRAD CYL./	BUCKET/ OTHER		
	TIME	Q	GAL PURGED	VOLUMES	рН	TEMP C	sc	mV	OG	DTW	1	
	1103		11.2	(7.56	27.8	1486		1	15.72		
N			22.4	2.	7.73	22.7	1489	18	\	15.75		
NETER			33.6	3	7.69	22-6	1489	18		15.77		
METER	1116				7.70	224	1490	23	1			
SC					7.70	27.2	1488	20	1			
SC												
SC]	
SC	иртрр		SERTAT.	# 0	ALIERATED		SAMPLER/EMPLO	OYER:	silva	30	_	
SC				610883	YES/NO		PROJECT: 3EMG 3CMP					
## ## ## ## ## ## ## ## ## ## ## ## ##					YESPNO		SAMPLE PRESERVATION/AMT of REAGENT:					
QC SAMPLE ID: QC LAB(S): QC SAMPLE TIME: SAMPLE ID (VERIFY): ()-760-11 TIME COLLECTED: //73 PROJECT / ANALYTICAL LAB / REQUESTED ANALYSIS / QUANTITY / TYPE OF CONTAINERS 3EMG BCLABS-BAK E120.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E150.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial										8300-DROM	-	
PROJECT / ANALYTICAL LAB / REQUESTED ANALYSIS / QUANTITY / TYPE OF CONTAINERS 3EMG BCLABS-BAK E120.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E150.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial	H2O:				YES/NO		IF LOCATION:		5300		-	
PROJECT / ANALYTICAL LAB / REQUESTED ANALYSIS / QUANTITY / TYPE OF CONTAINERS 3EMG BCLABS-BAK E120.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E150.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial												
3EMG BCLABS-BAK E120.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E150.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial	SAMPLE	ID (V	ERIFY): W	262-11	2 085		TIME COLLECT	ED:	1/2	3		
3EMG BCLABS-BAK E120.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E150.1 1 250 ml Polyethylene 3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial		PROJE	СТ /	ANALYTICAL	LAB / R	EQUESTE	ANALYSIS /	QUANT	TY / !	TYPE OF CONTAINERS		
3EMG BCLABS-BAK E300.0:NO3 1 250 ml Polyethylene 3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial										50 ml Polyethylene		
3CMP BCLABS-BAK E601 3 40 mL Glass VOA vial		31	BMG	BCLABS-B	AK							
3CMP DCMRDG-DRN												
NO 3EMG FGLSTK SM9221-6H0 -1 250 ml Sterilized Polyethylene	NO			BCLABS-B								

Added 2002 of CC

Sewage Ponds Ground Water GW Elevation (Feet)

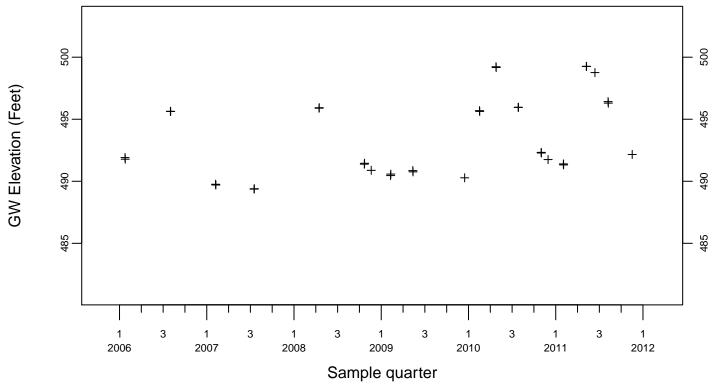


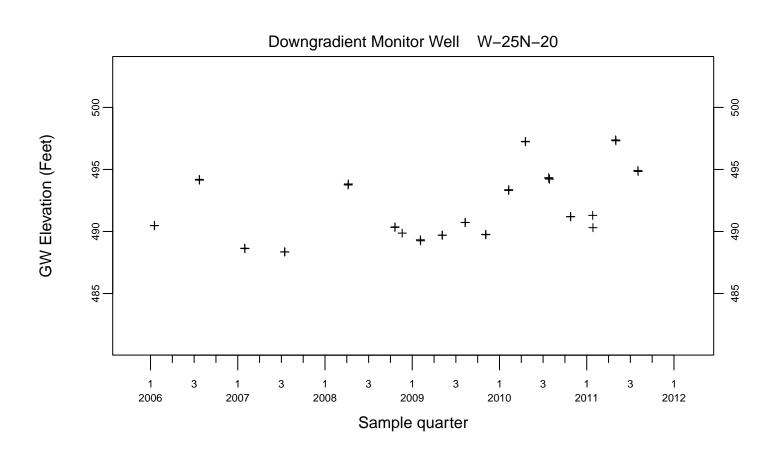




Sewage Ponds Ground Water GW Elevation (Feet)

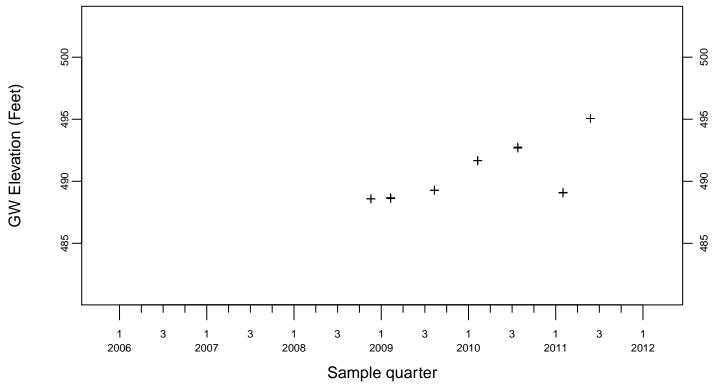


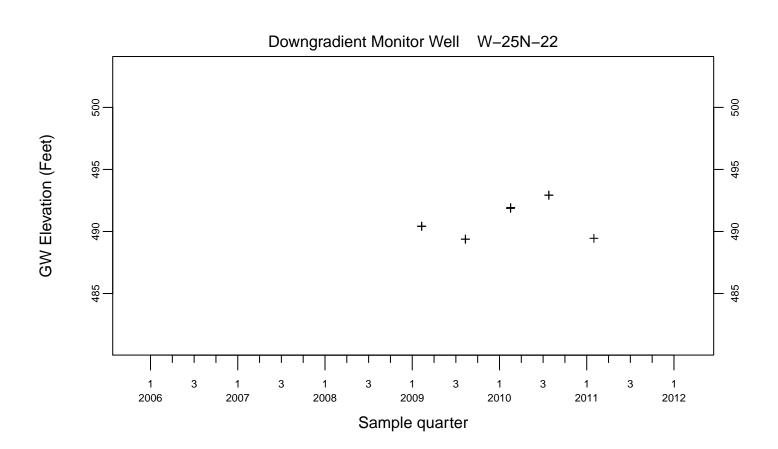




Sewage Ponds Ground Water GW Elevation (Feet)

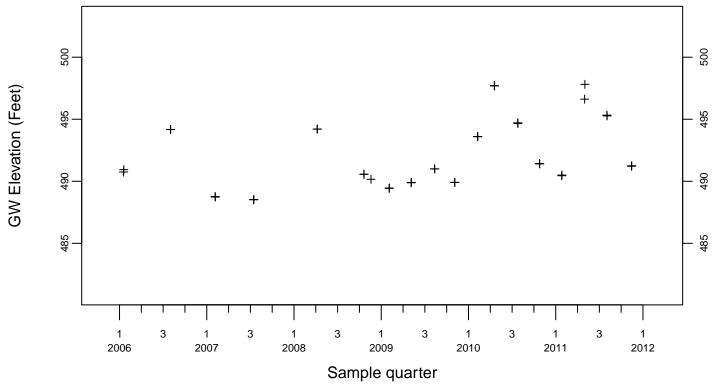


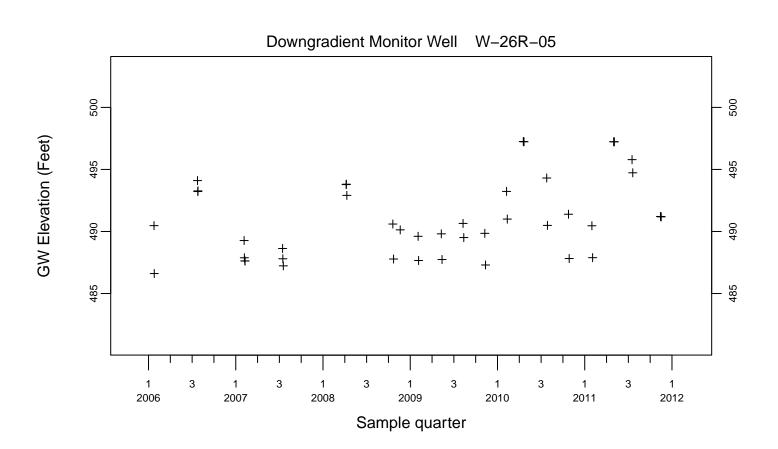




Sewage Ponds Ground Water GW Elevation (Feet)

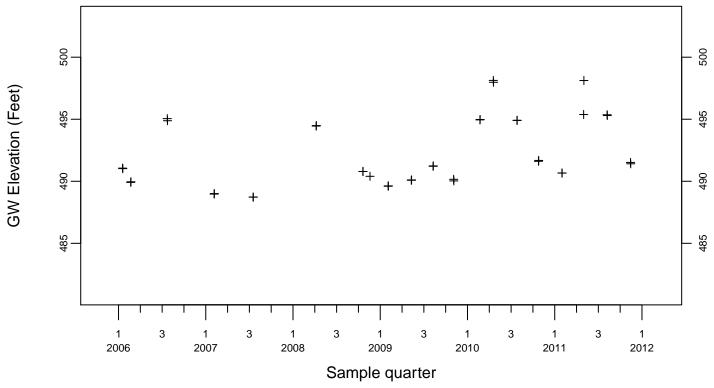


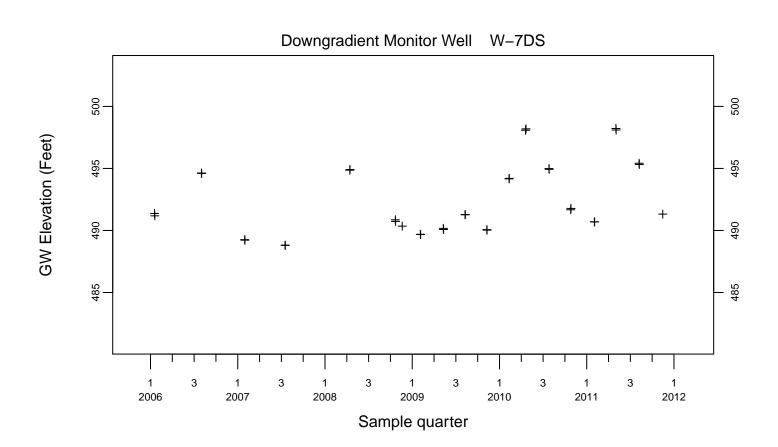


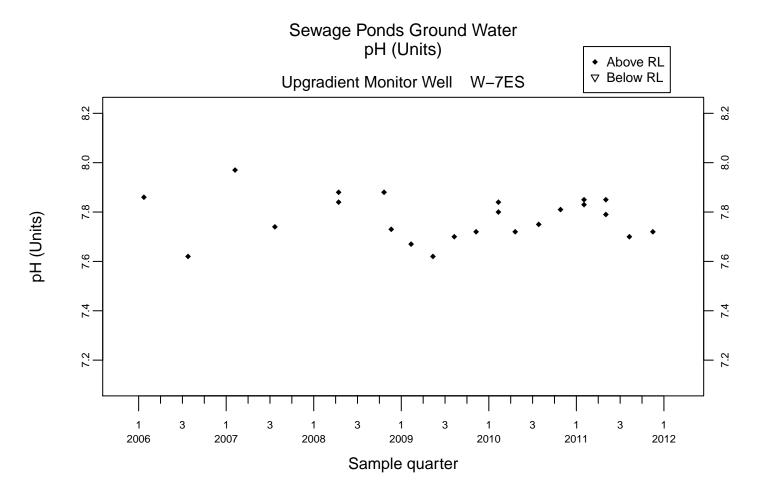


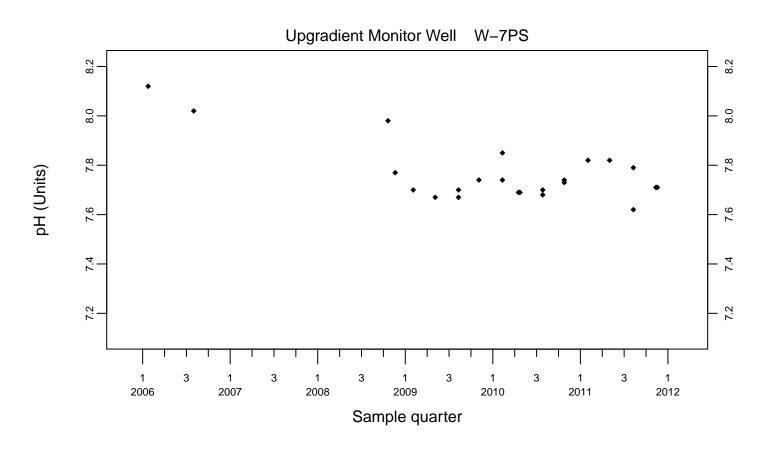
Sewage Ponds Ground Water GW Elevation (Feet)

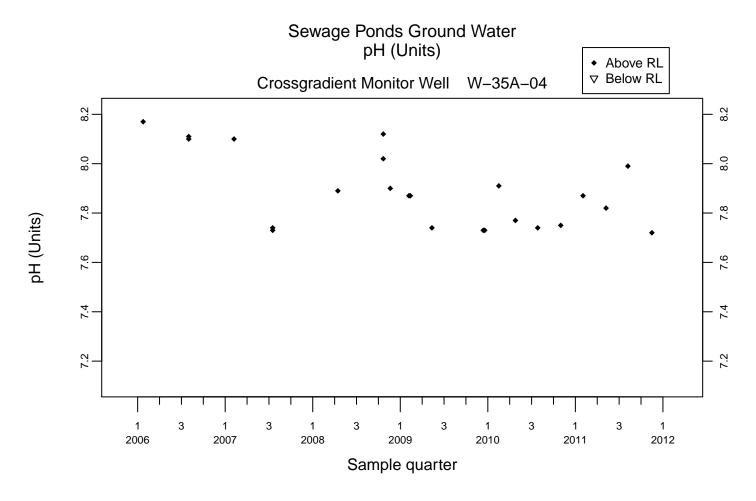


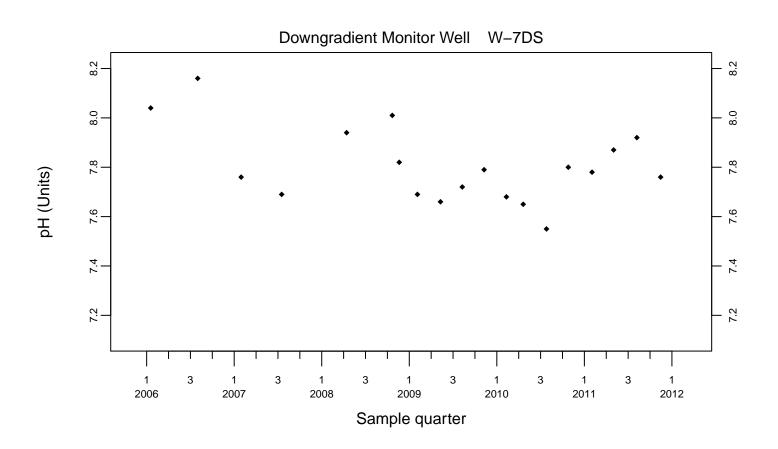


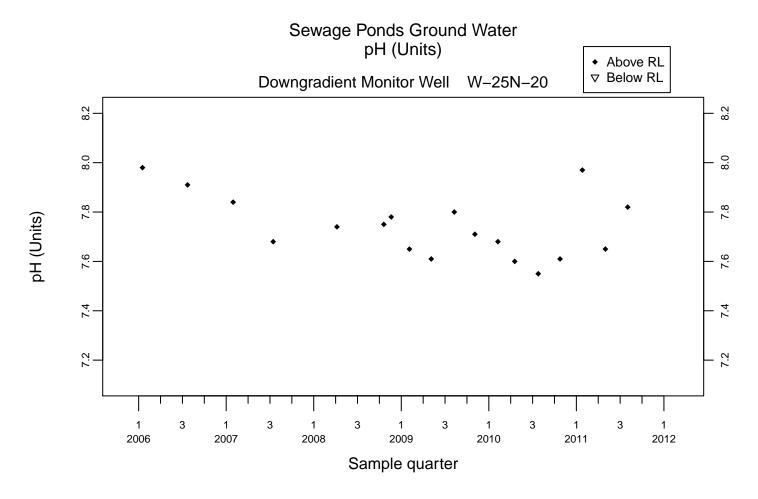


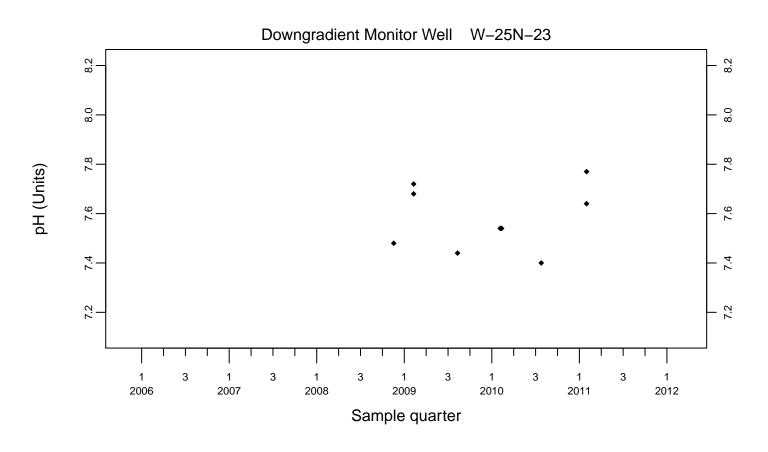


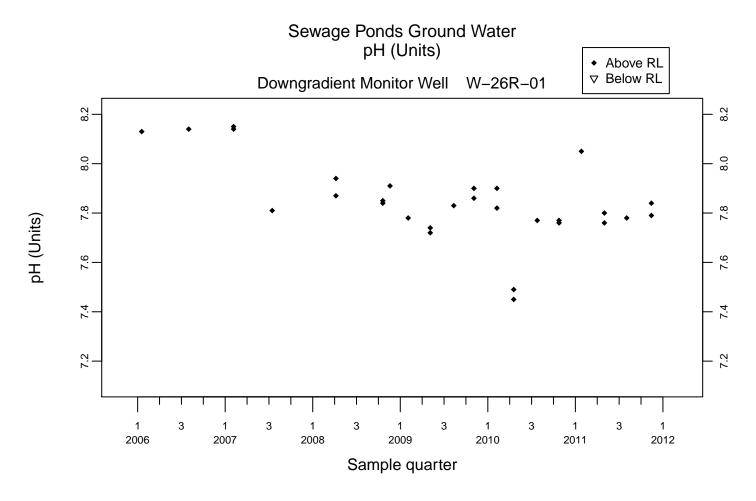


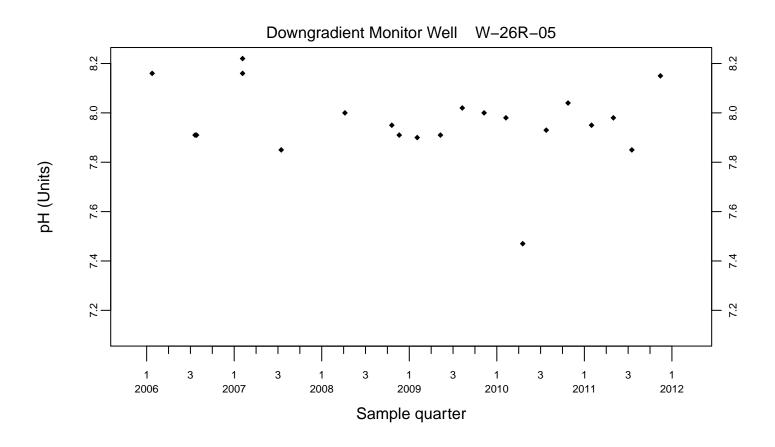


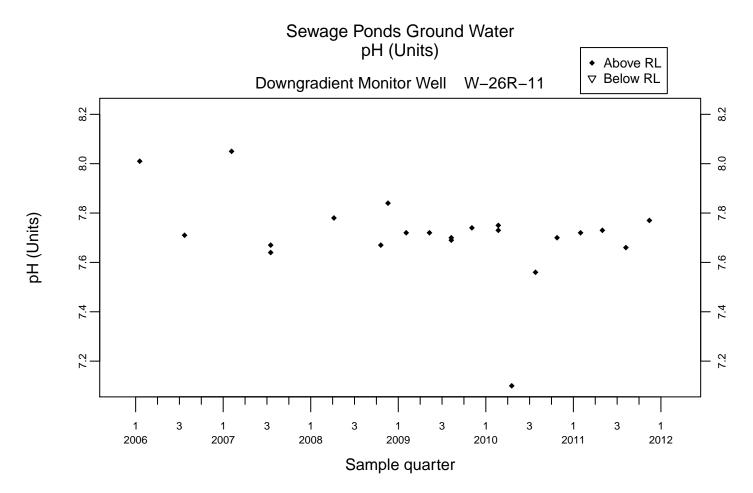


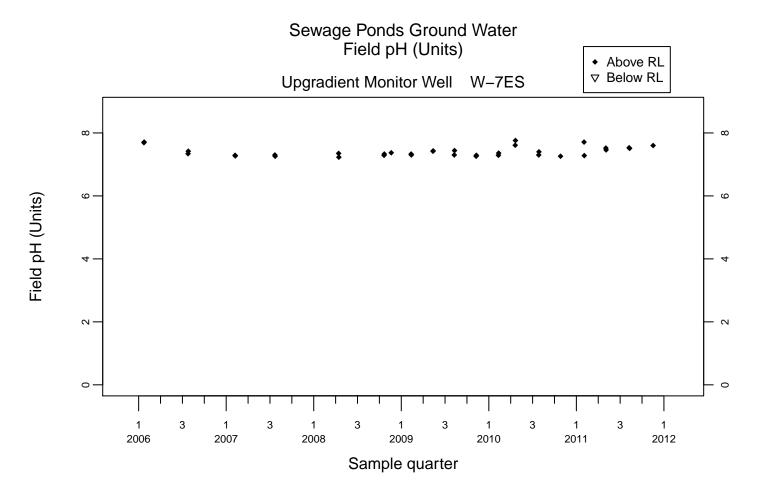


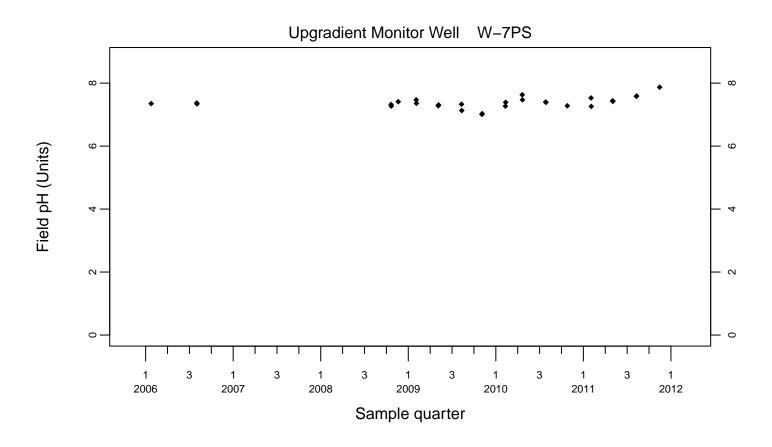


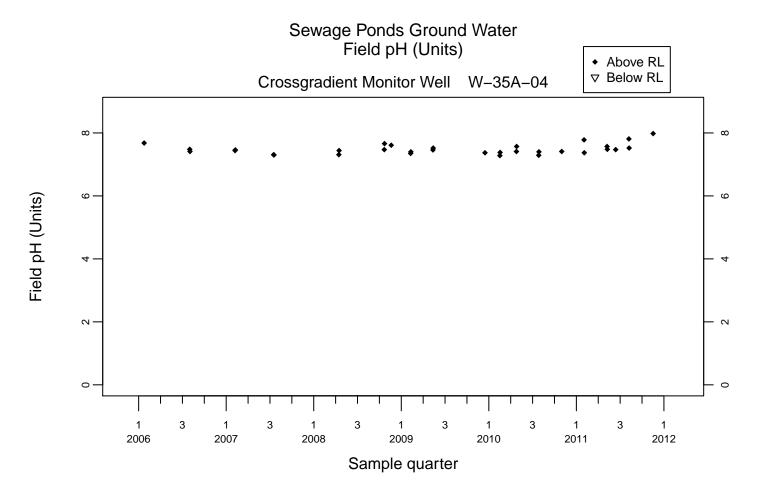


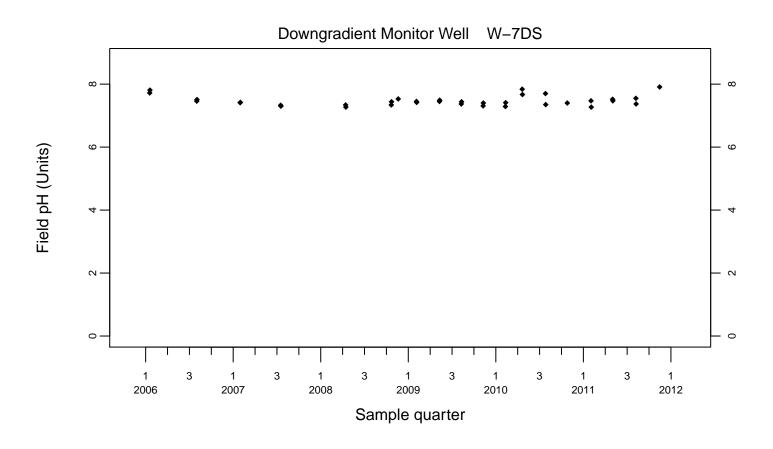


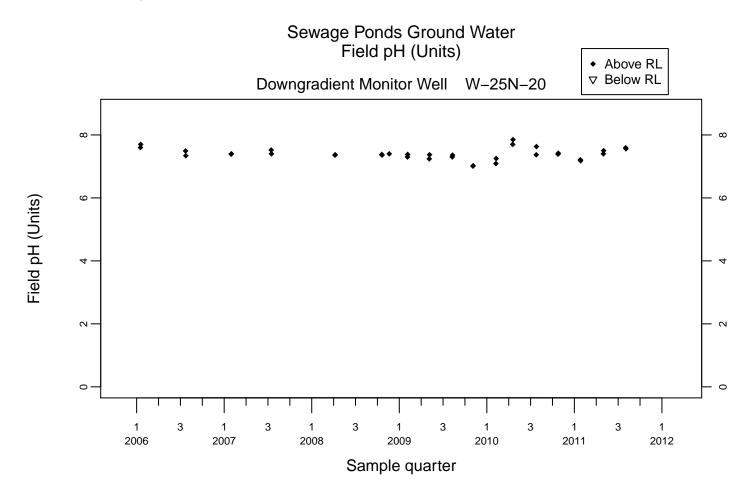


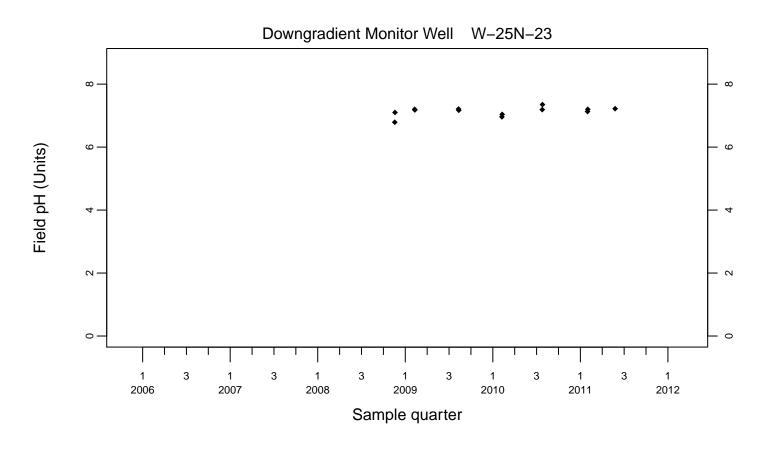


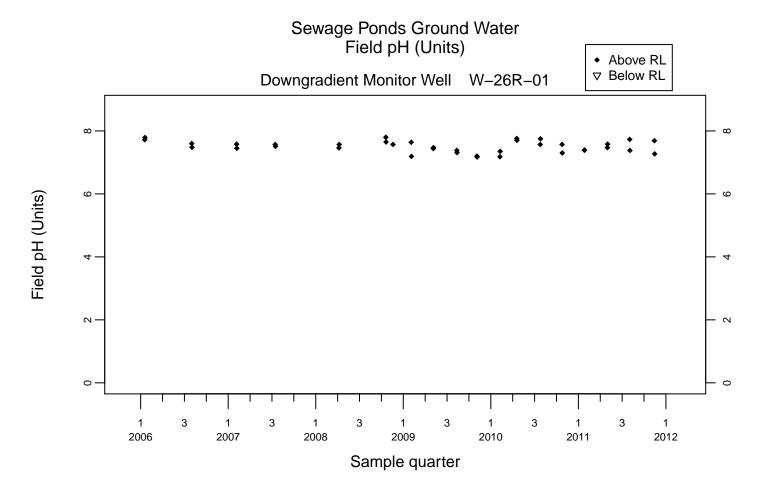


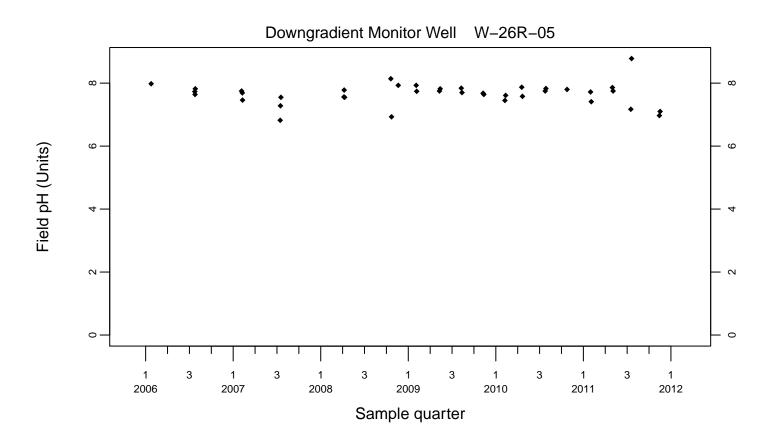


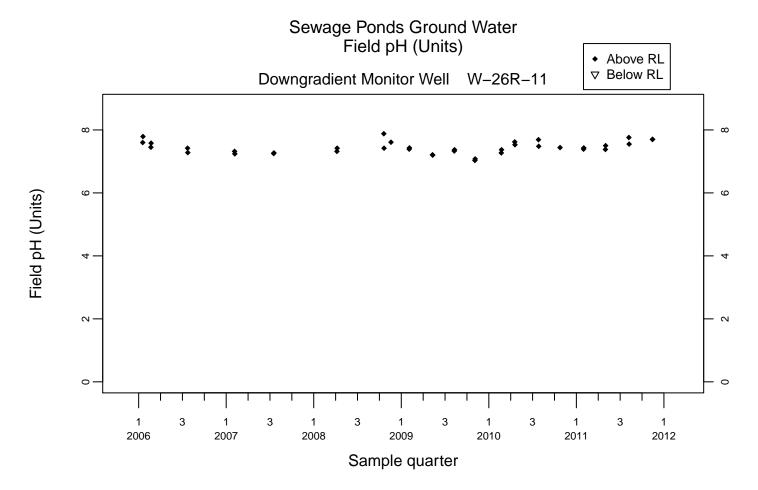


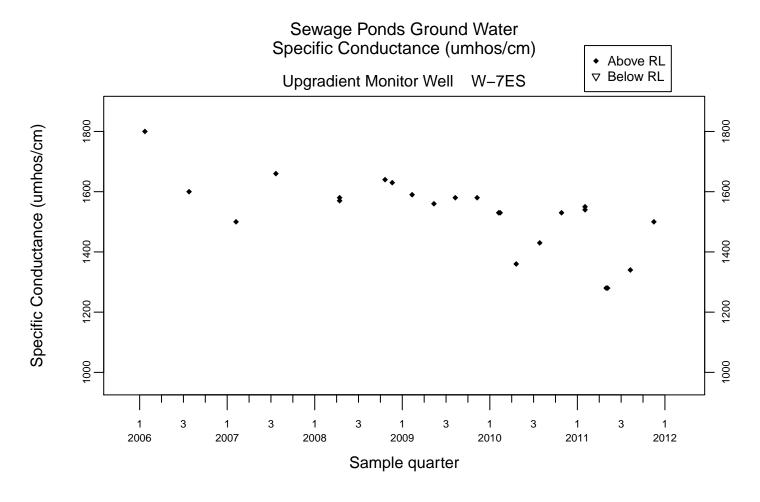


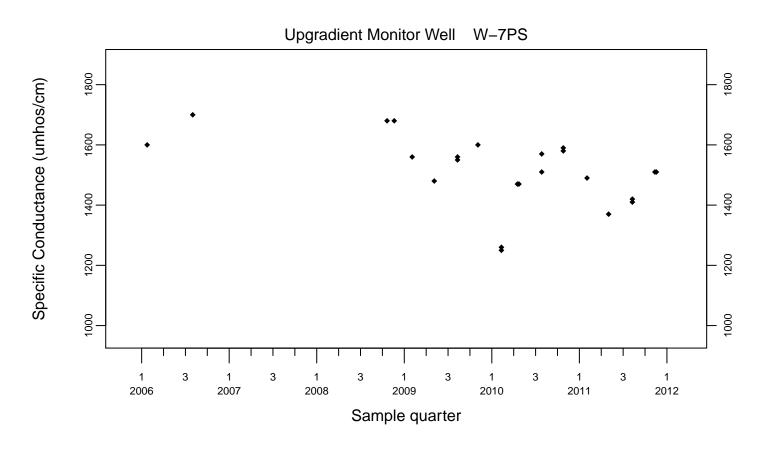


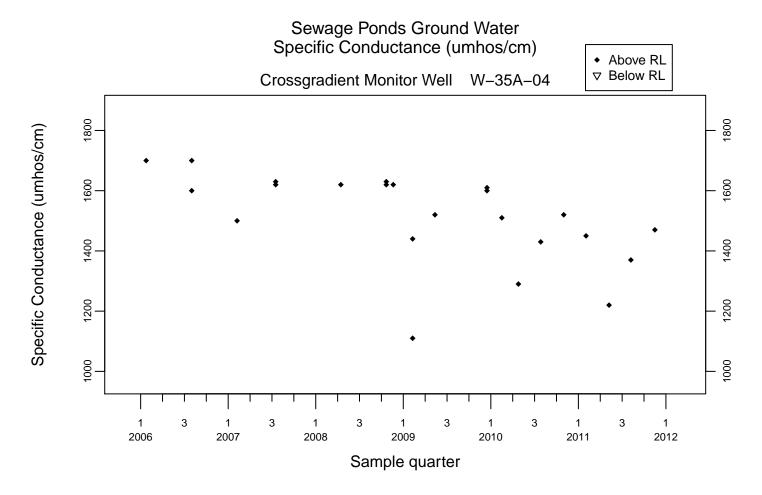


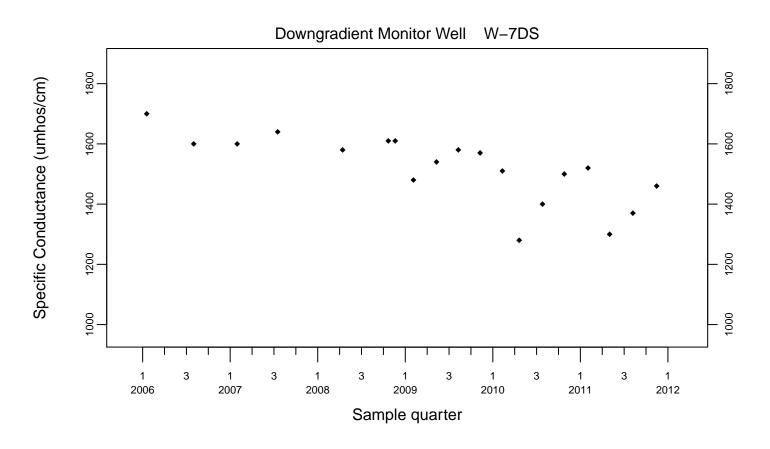


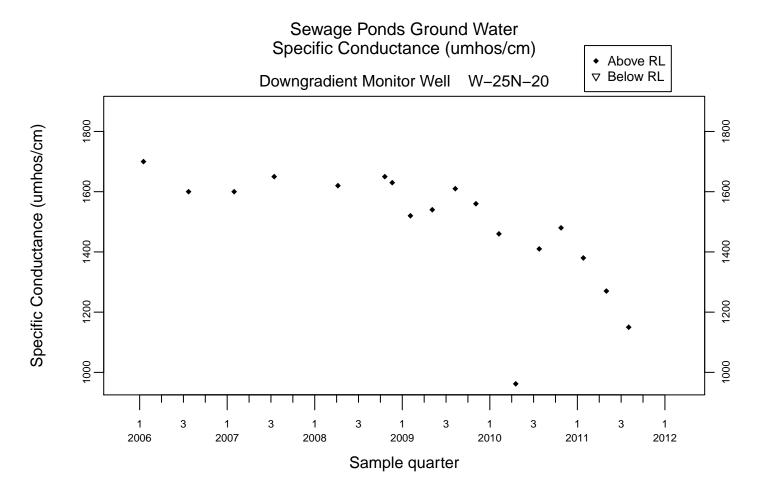


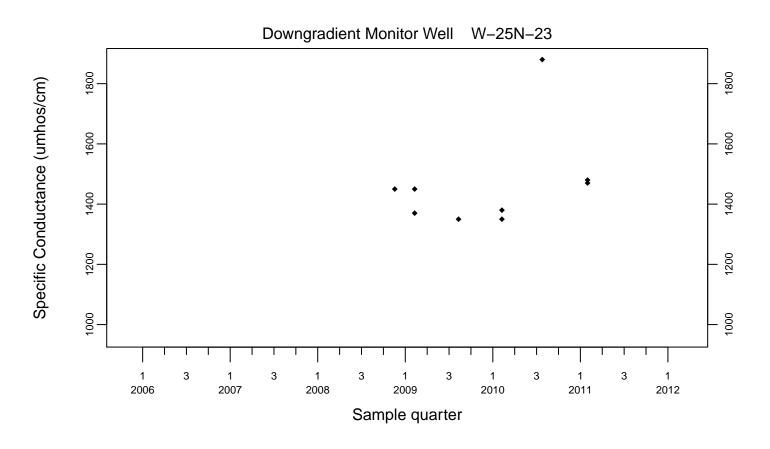


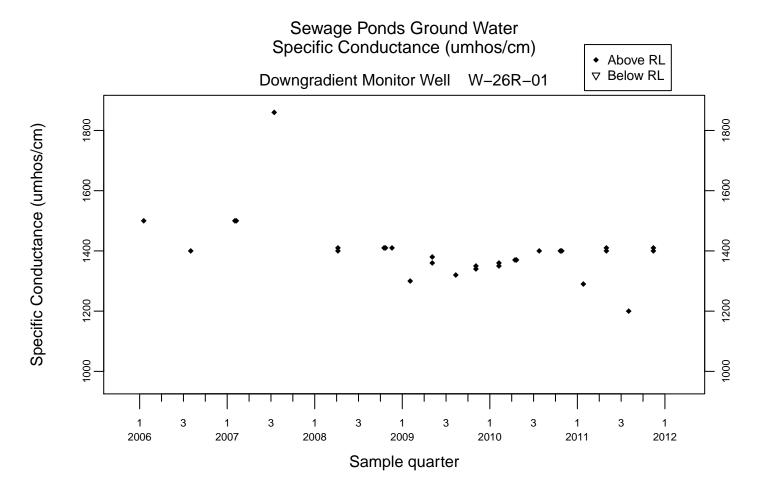


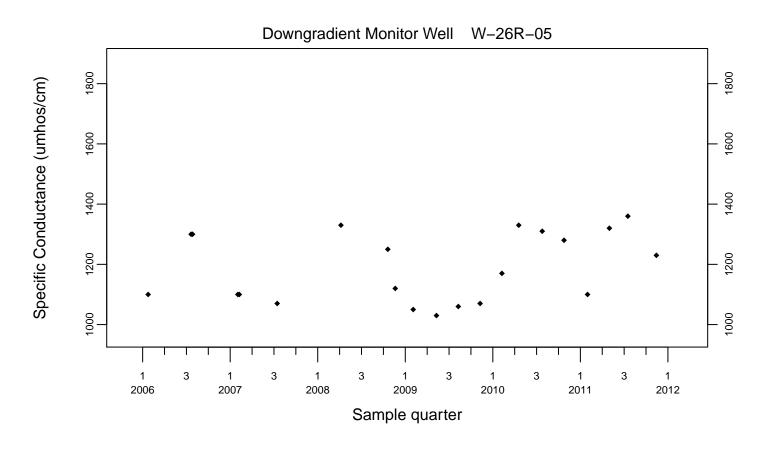


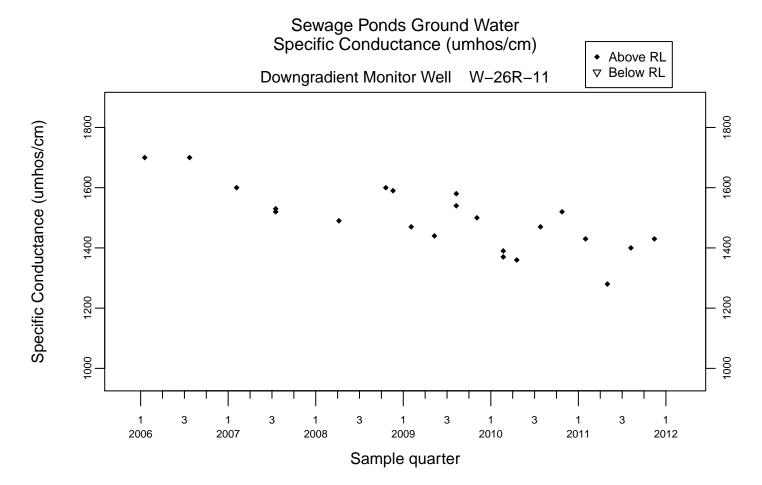


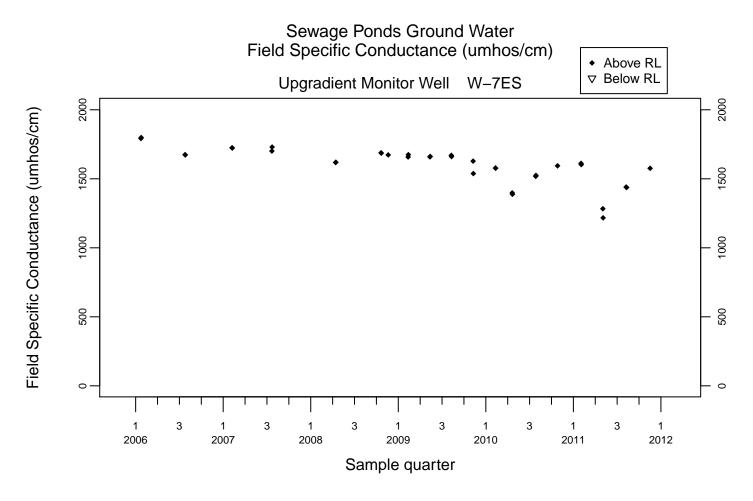


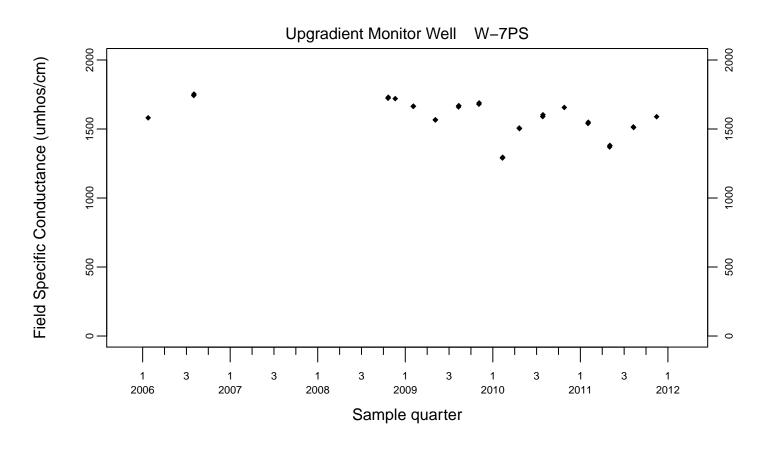


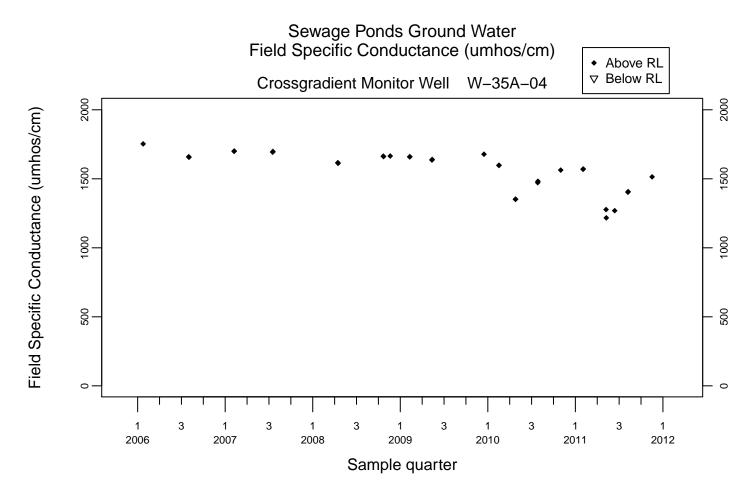


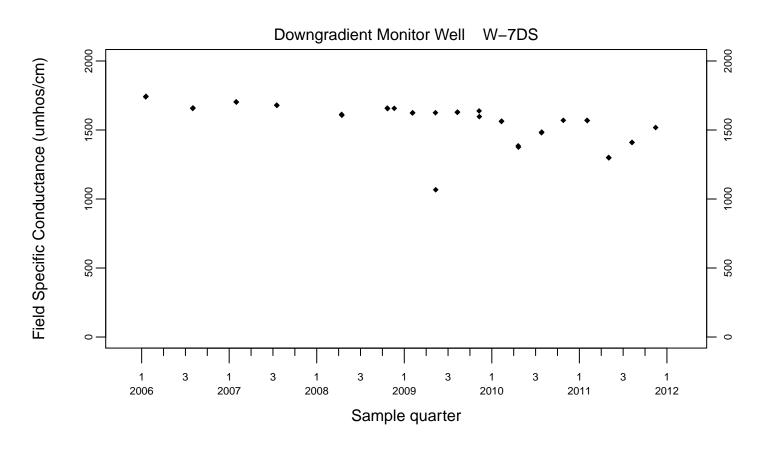


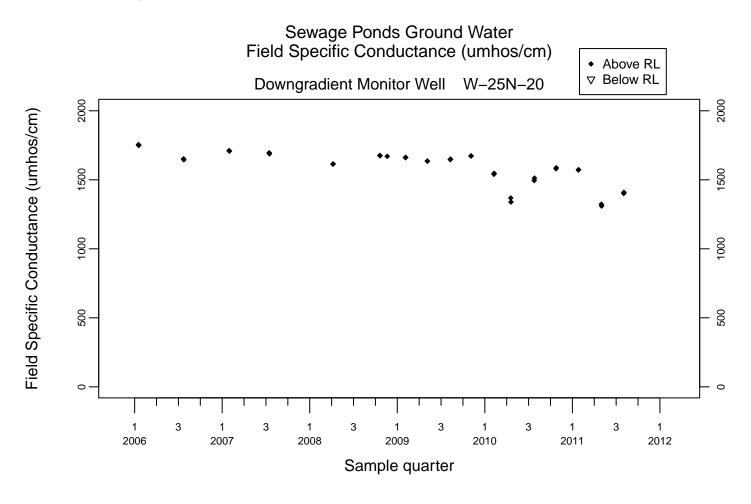


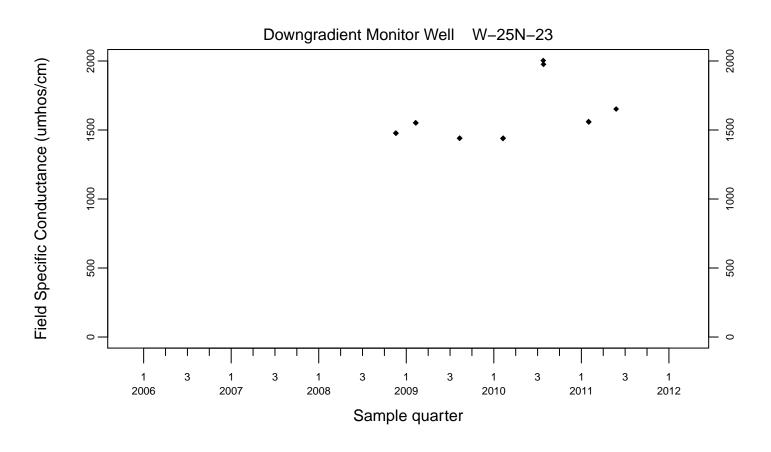


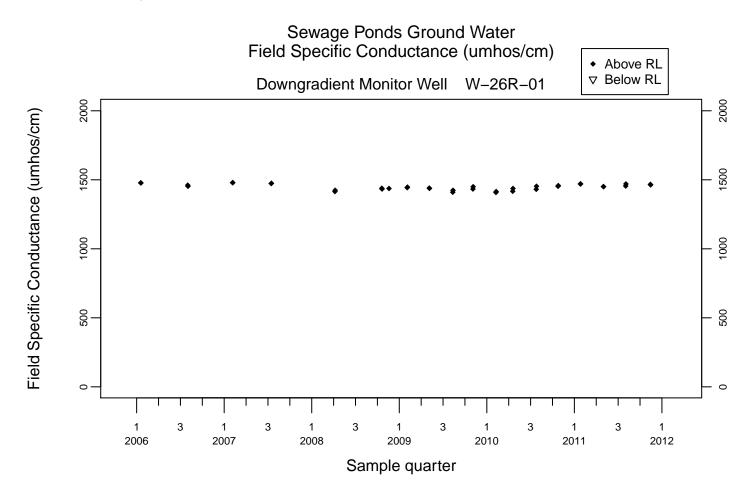


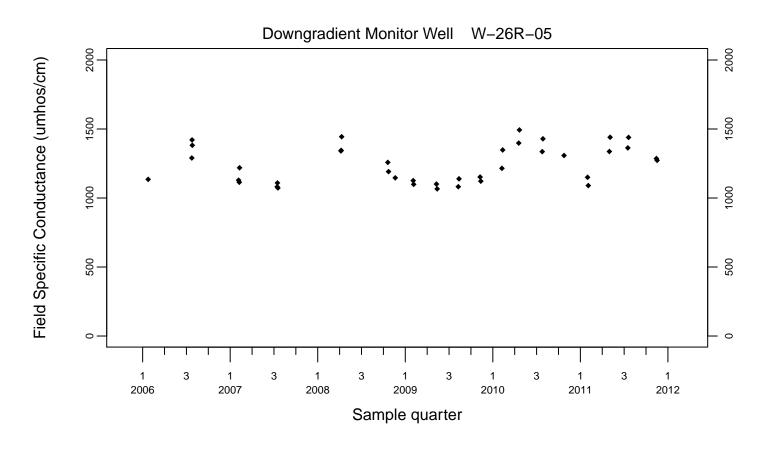


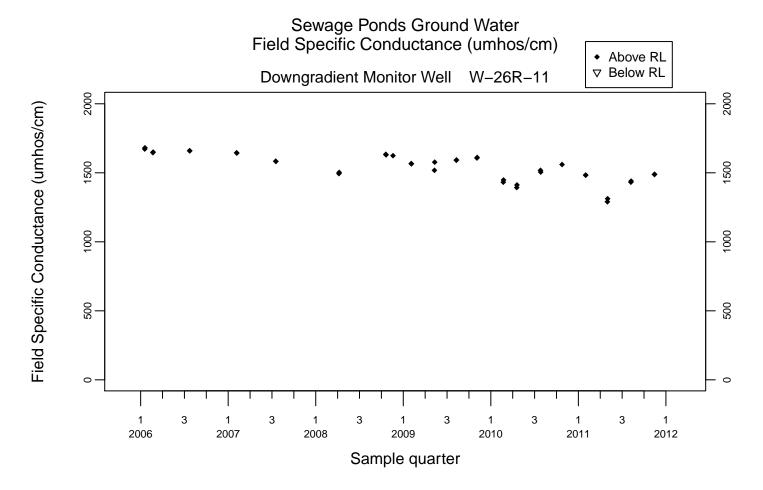


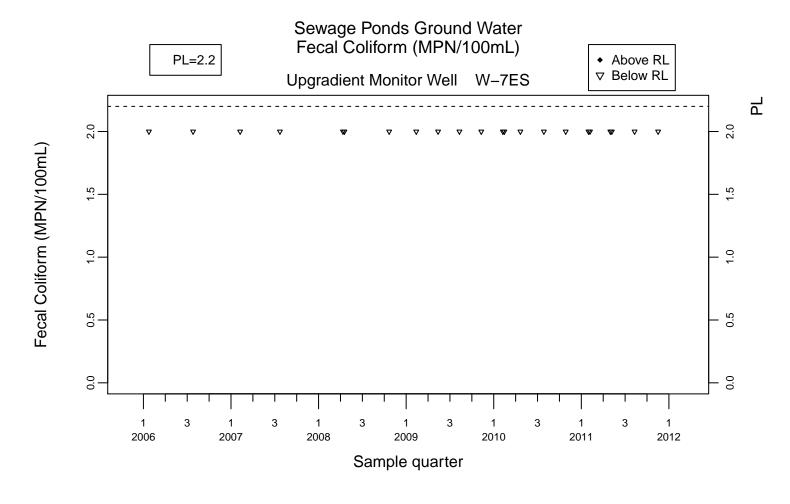


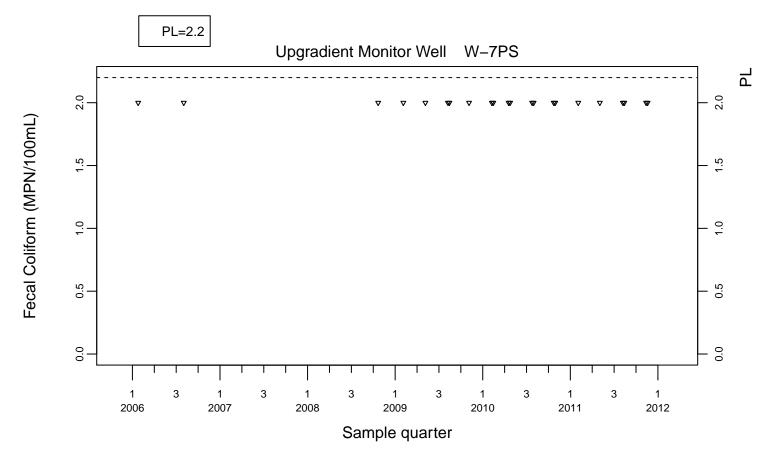


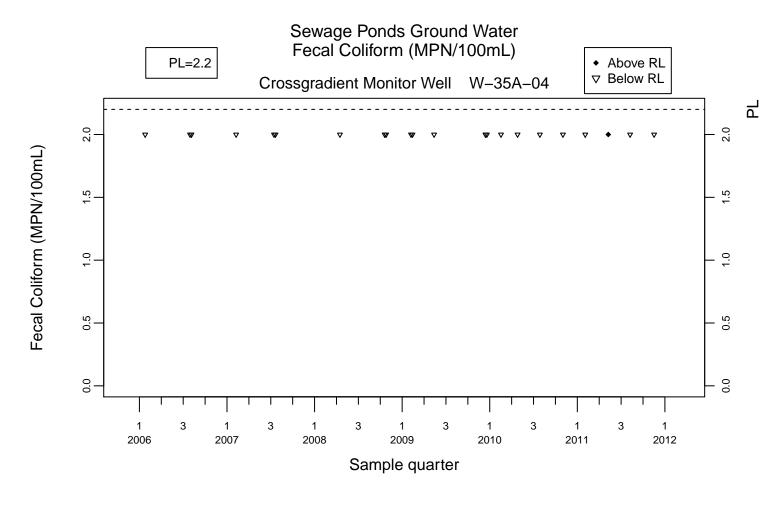


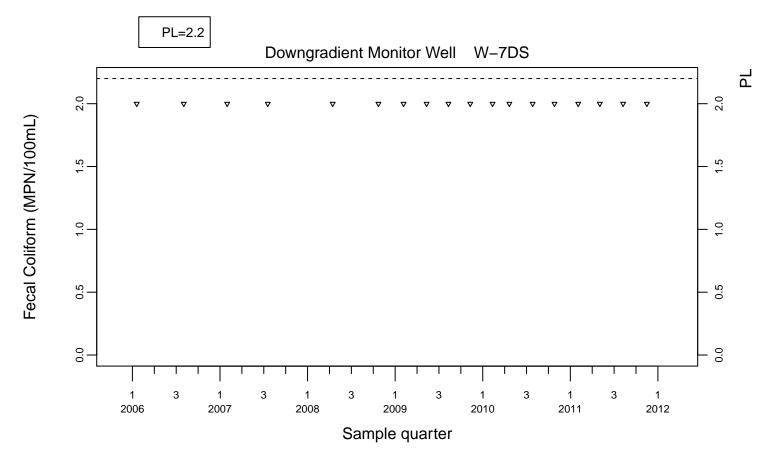


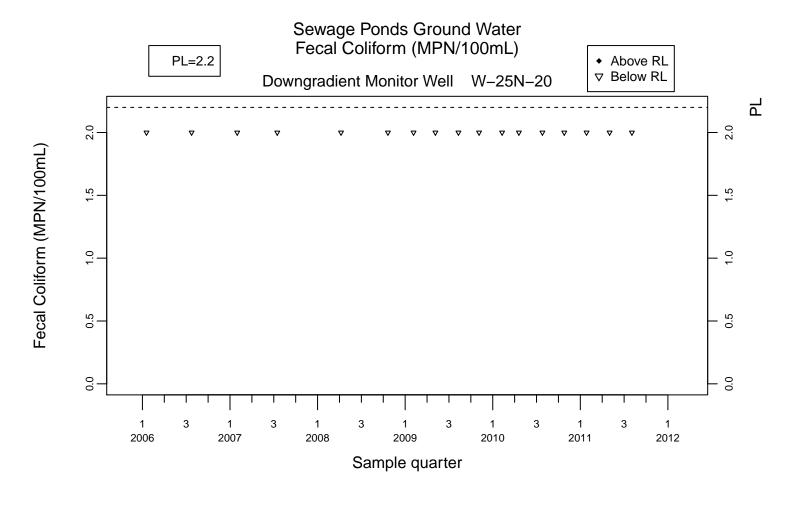


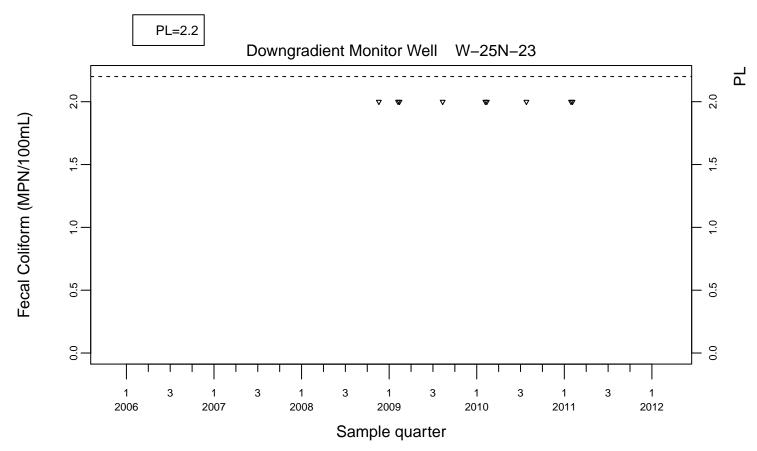


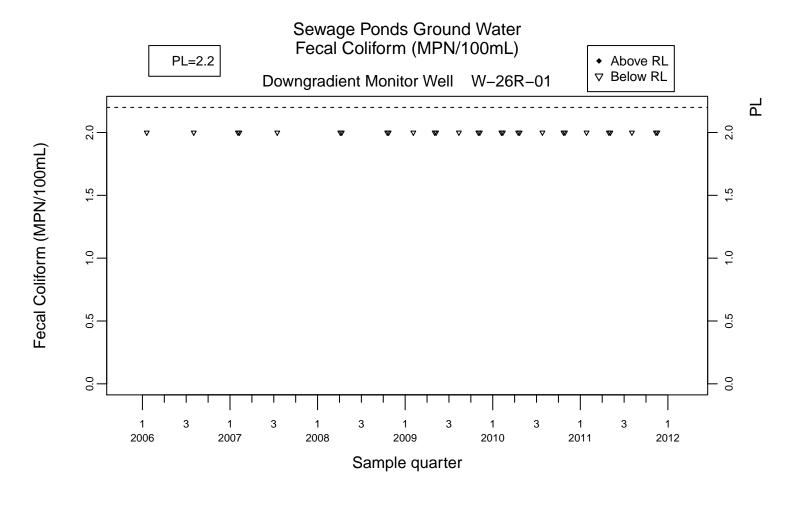


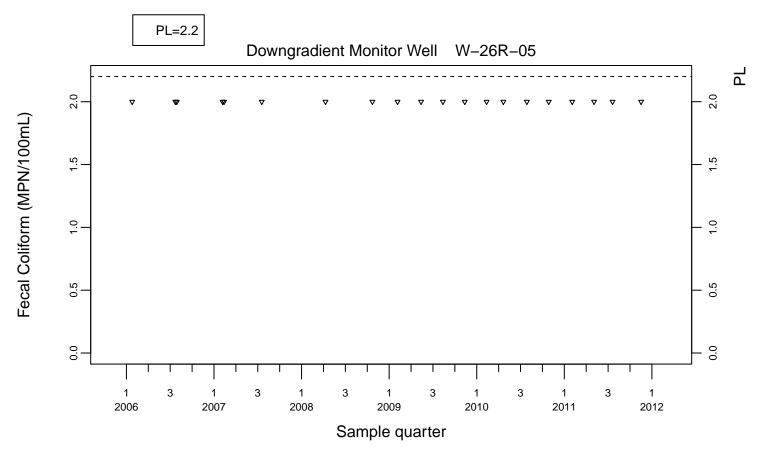


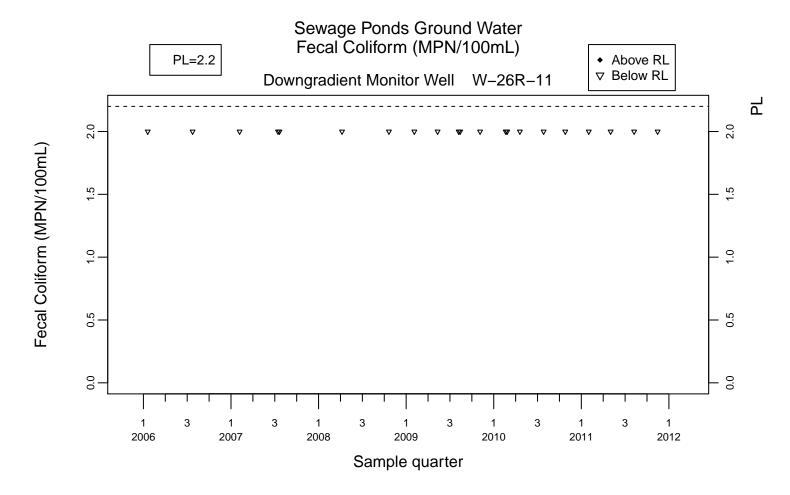


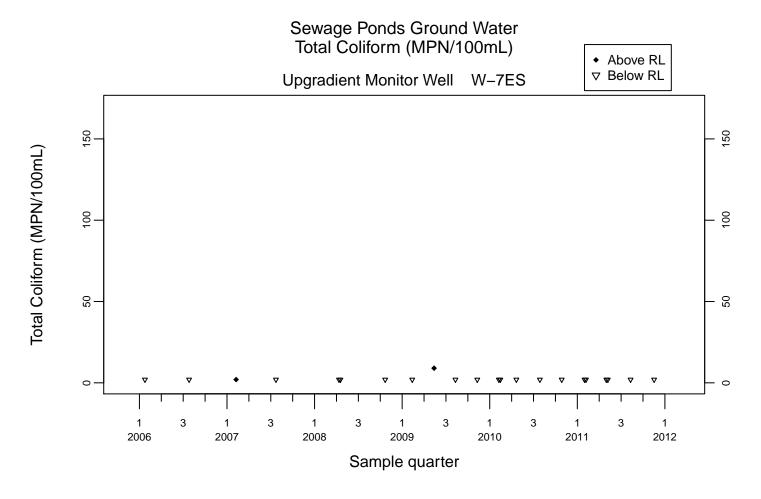


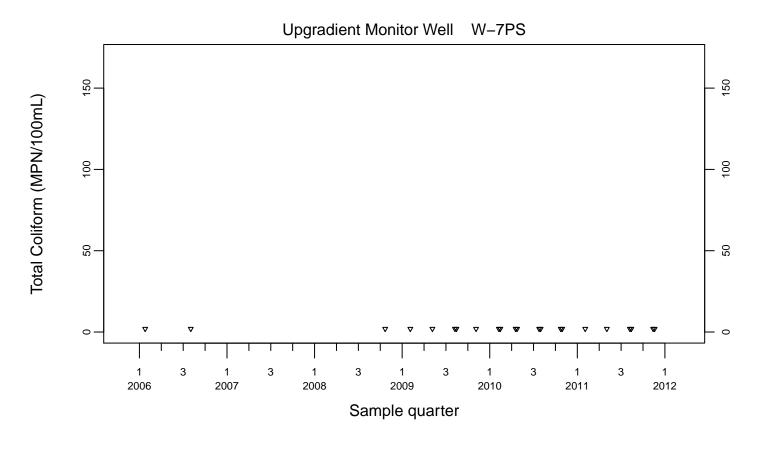


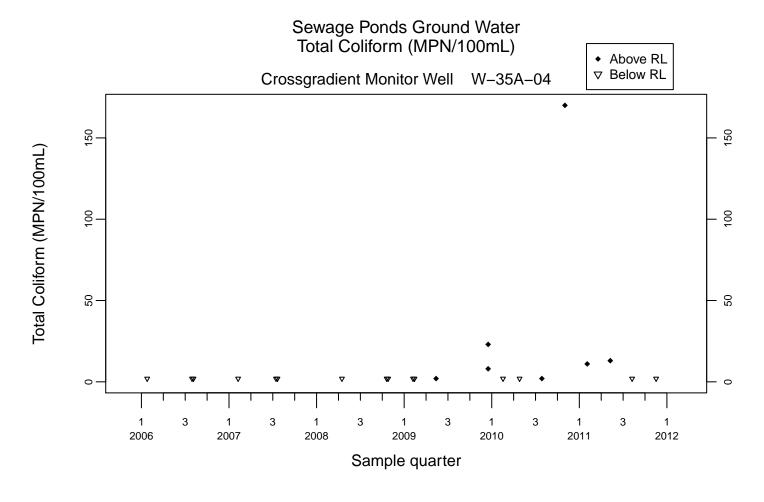


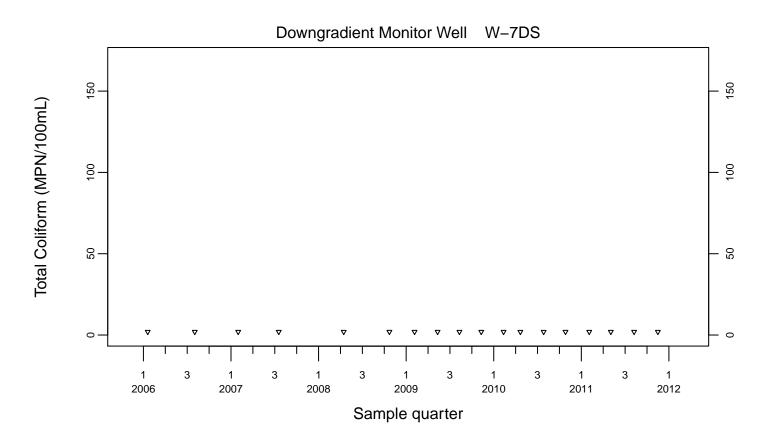


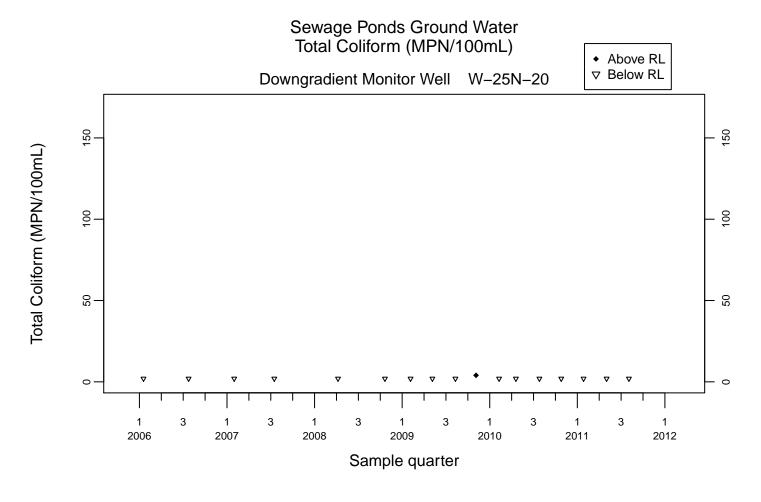


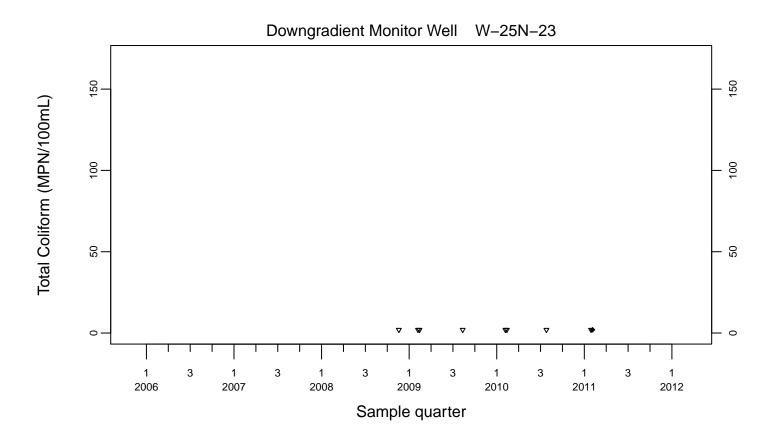


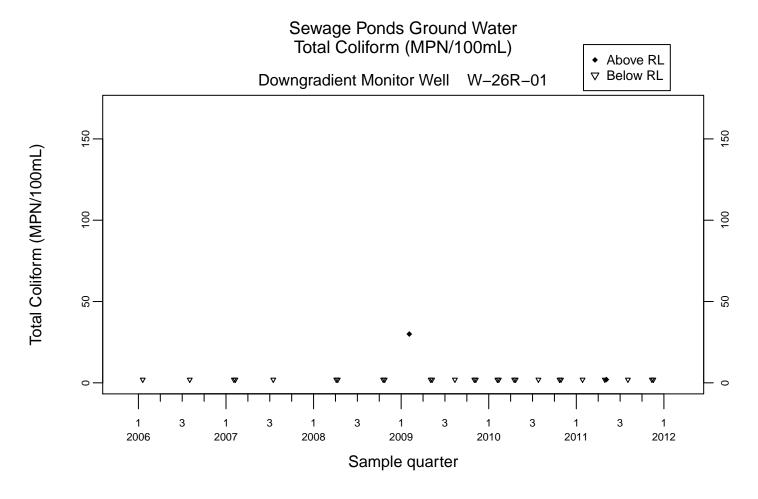


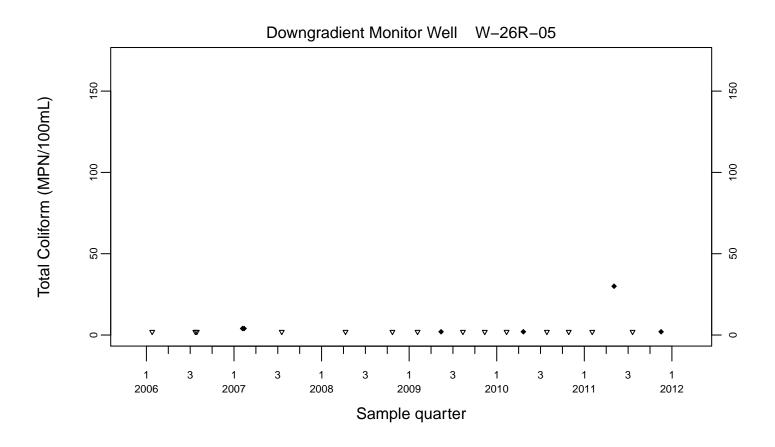


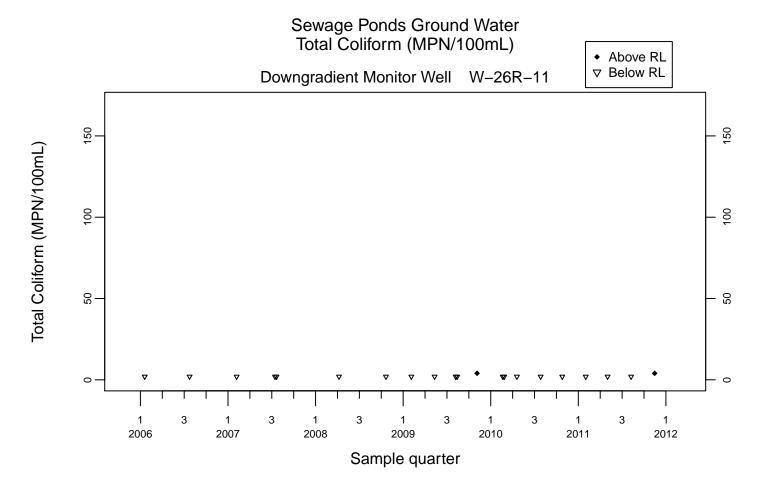


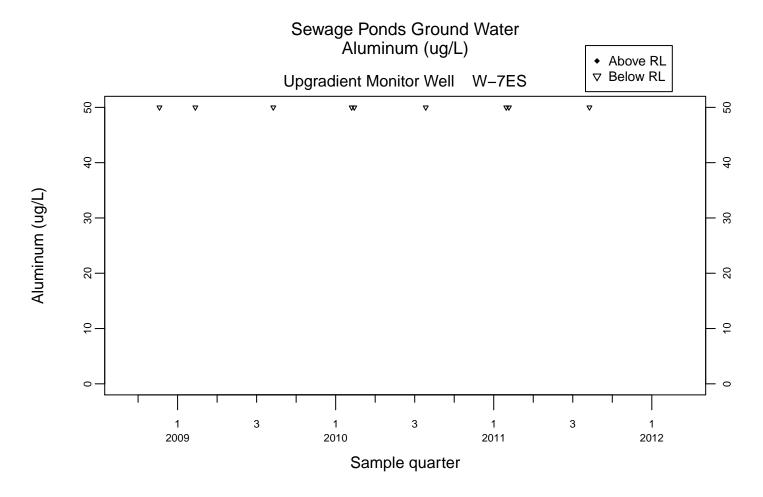


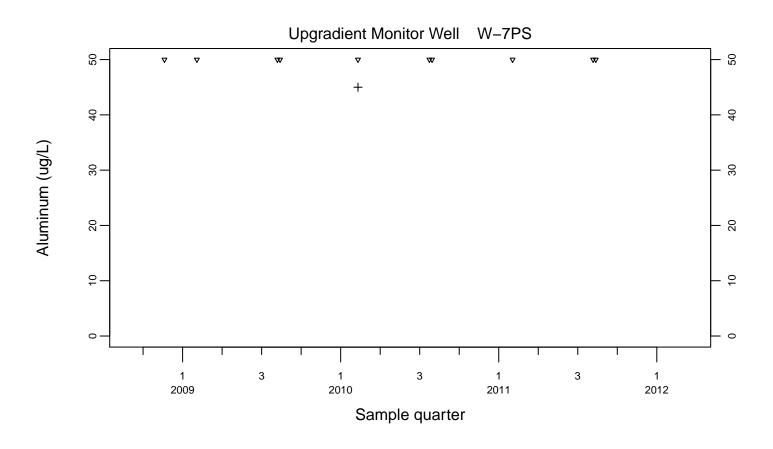


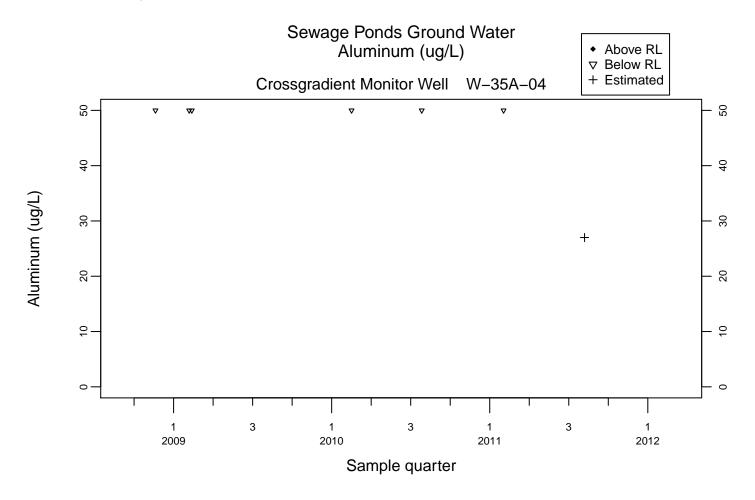


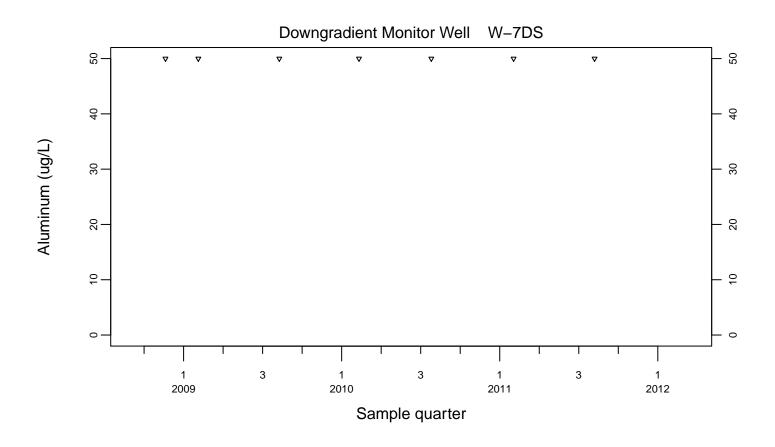


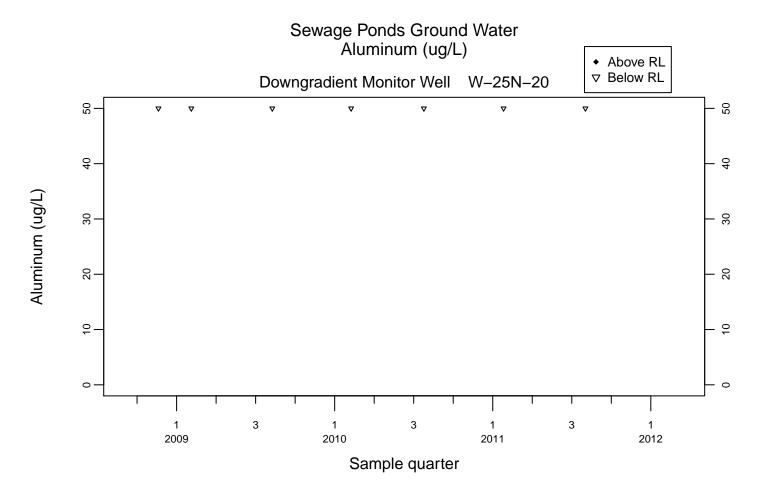


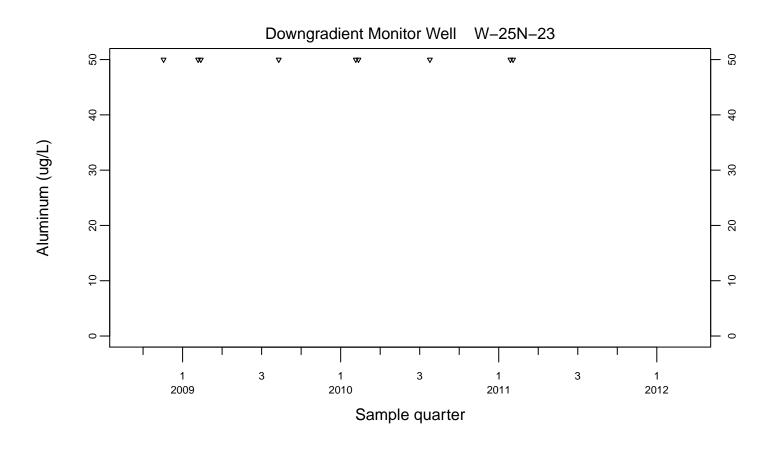


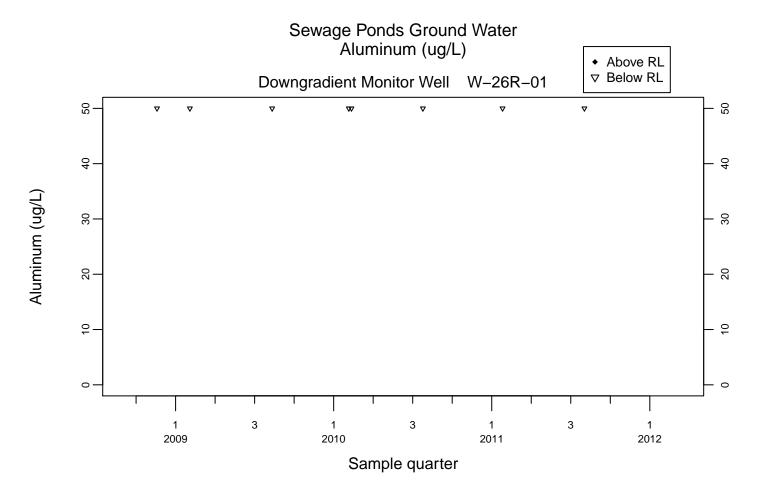


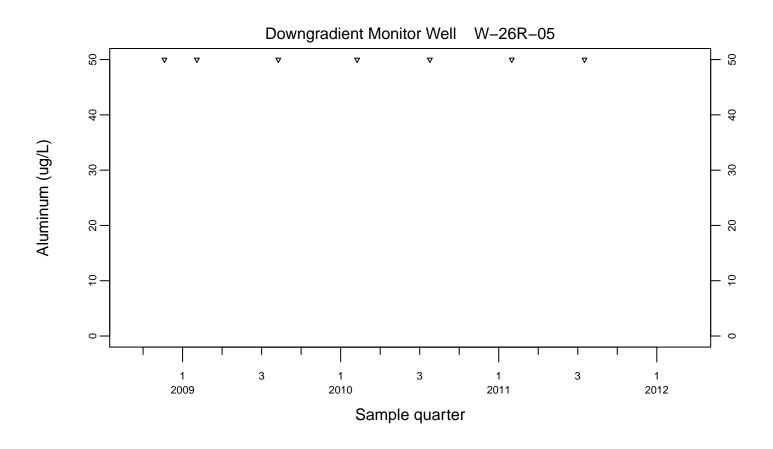


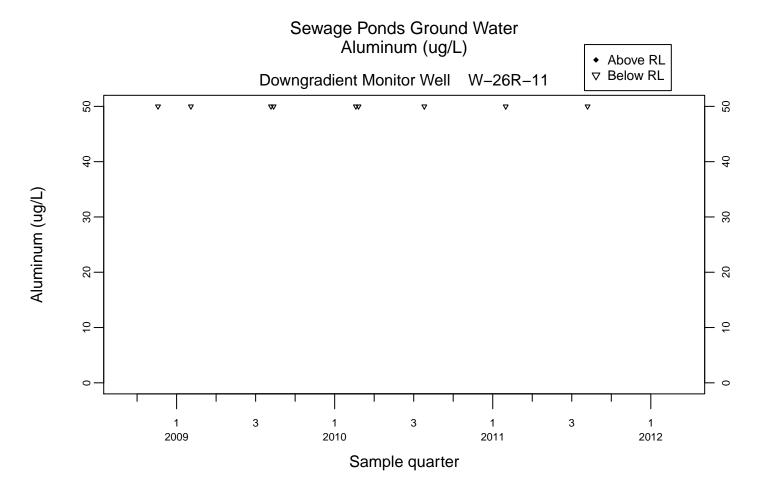


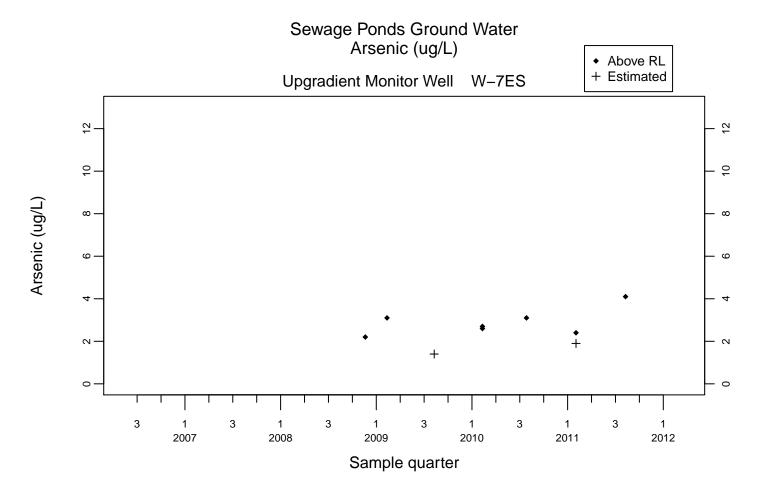


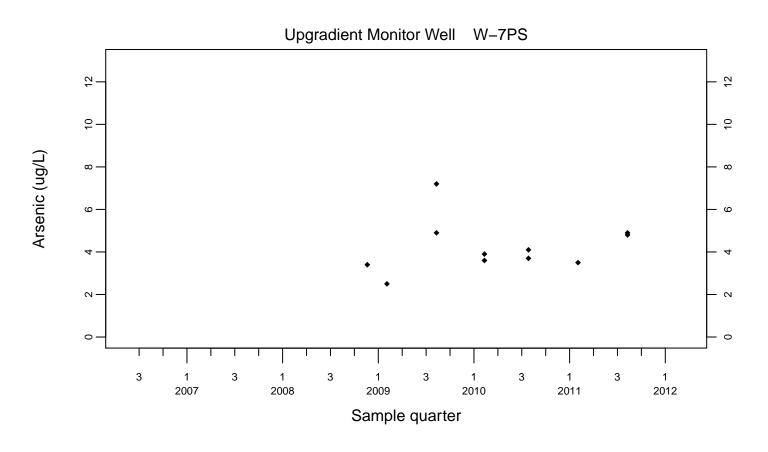


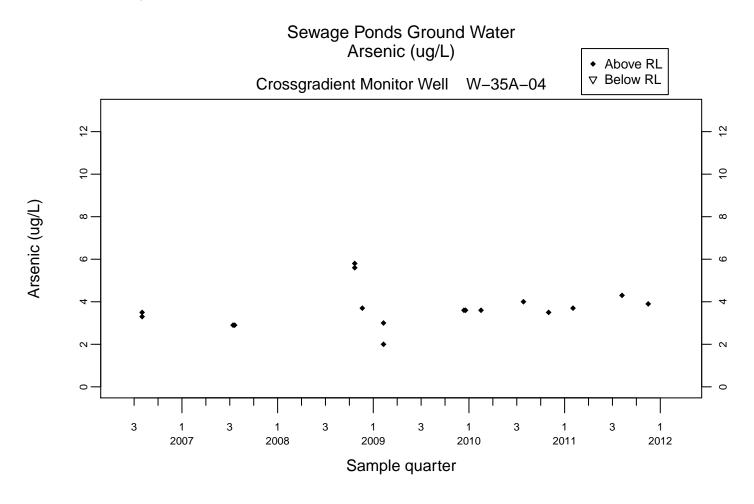


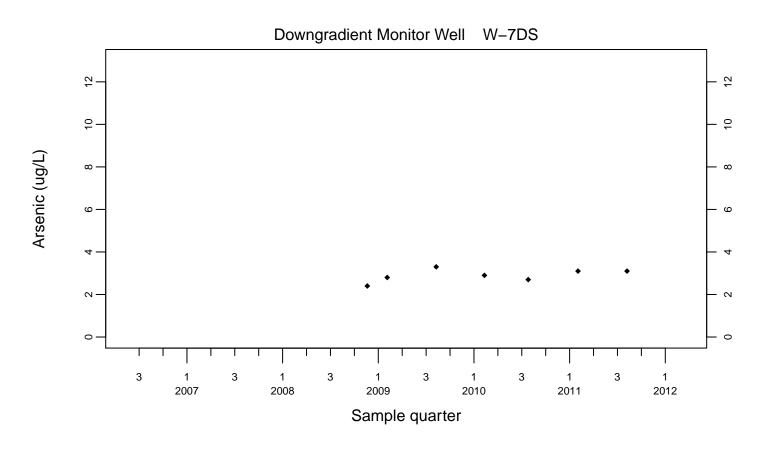


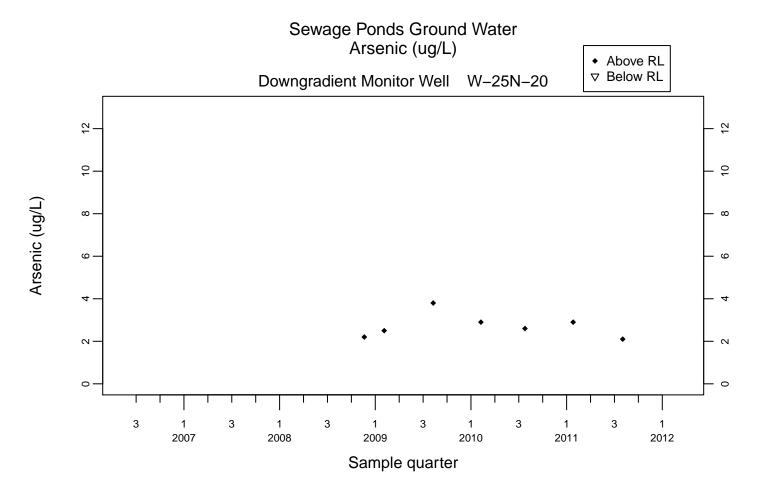


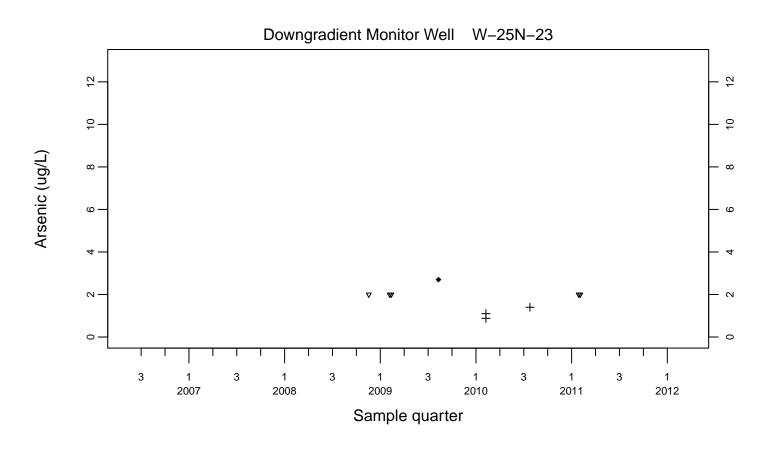


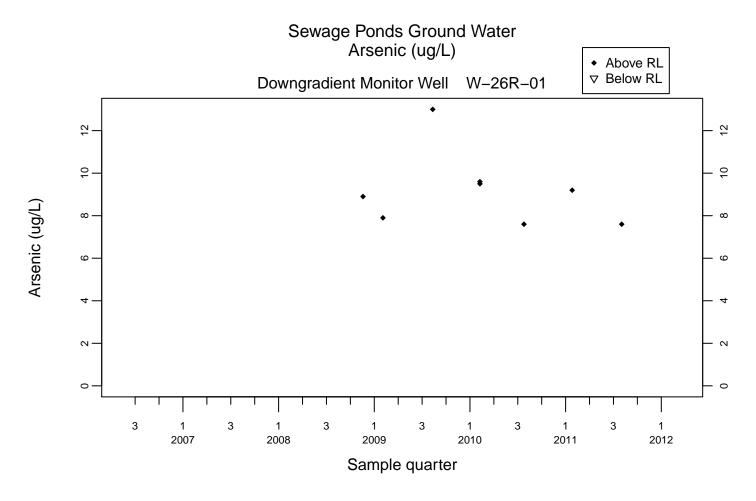


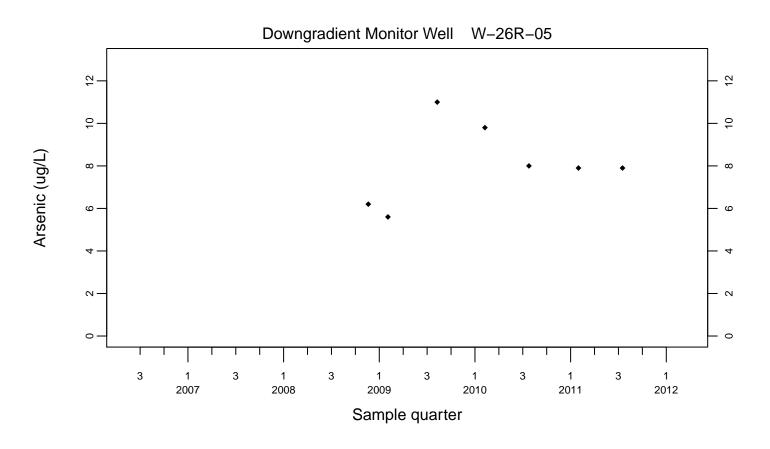


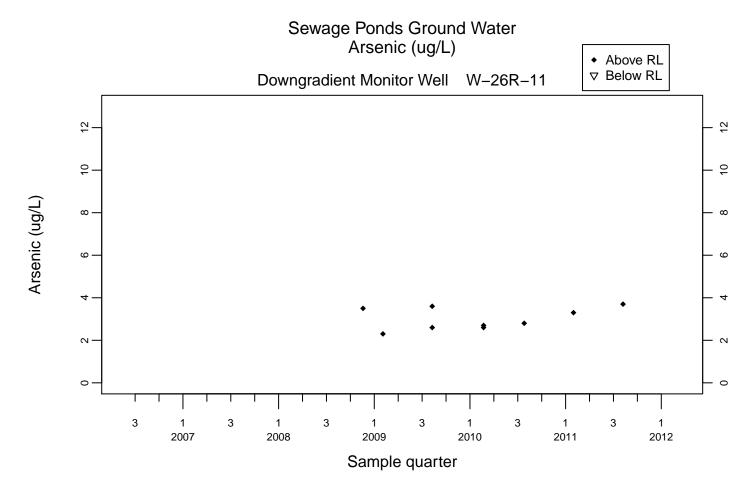


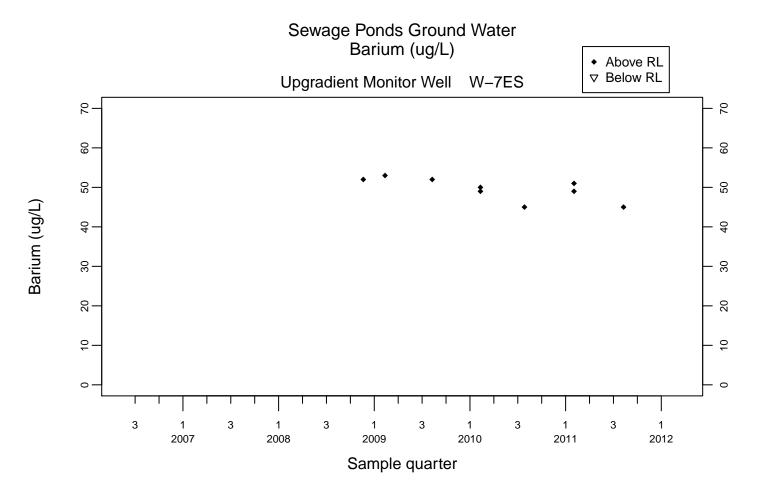


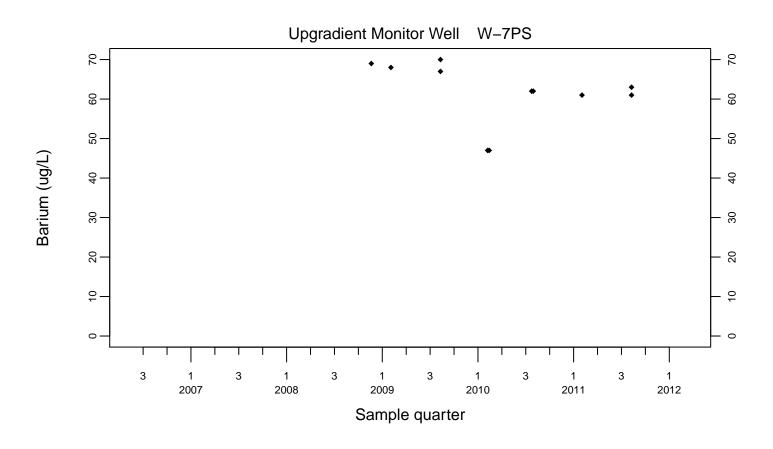


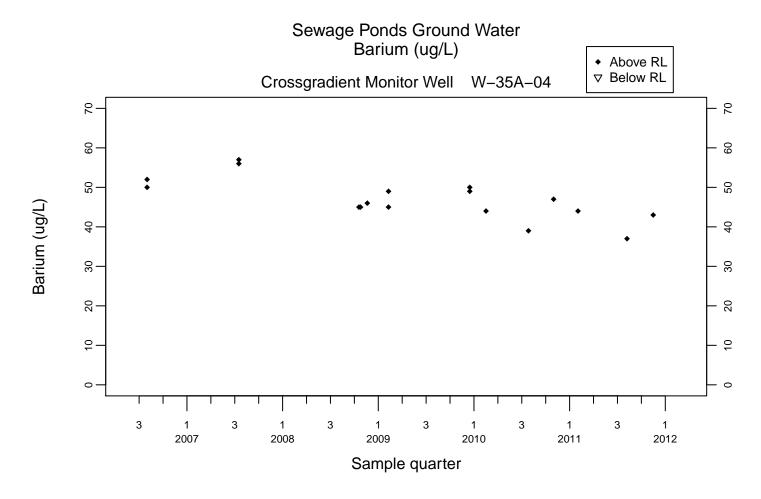


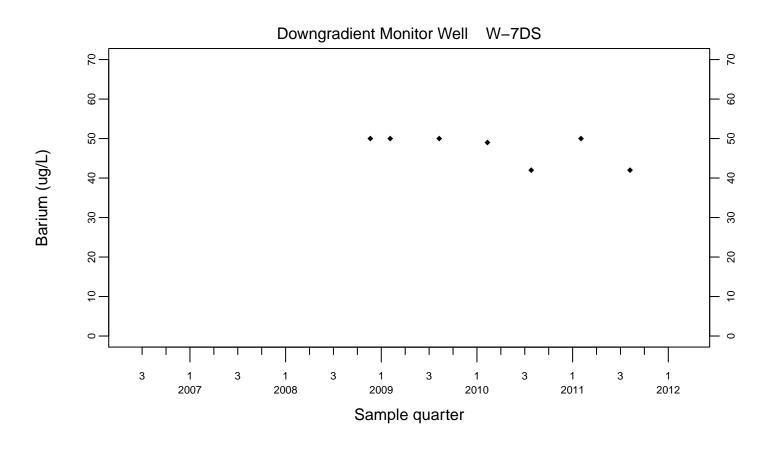


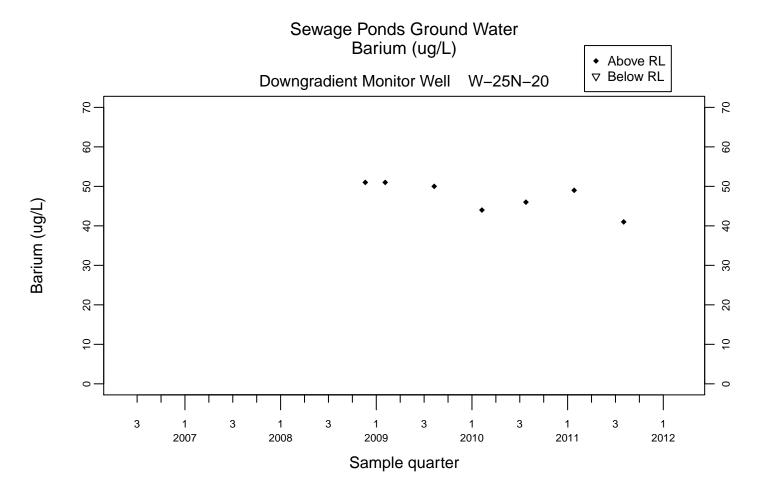


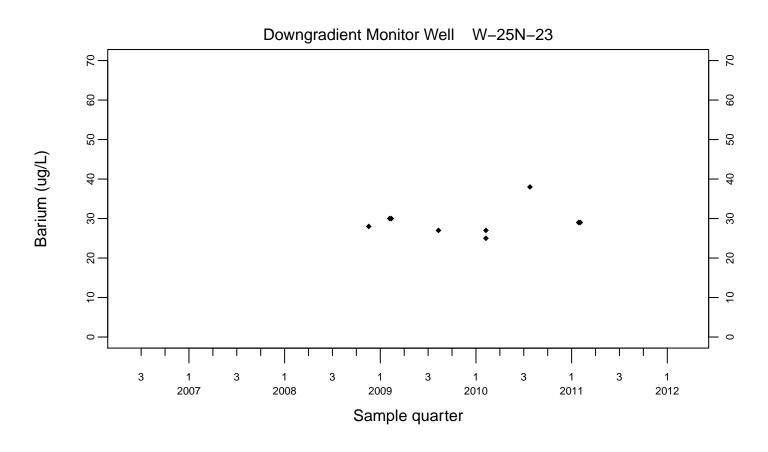


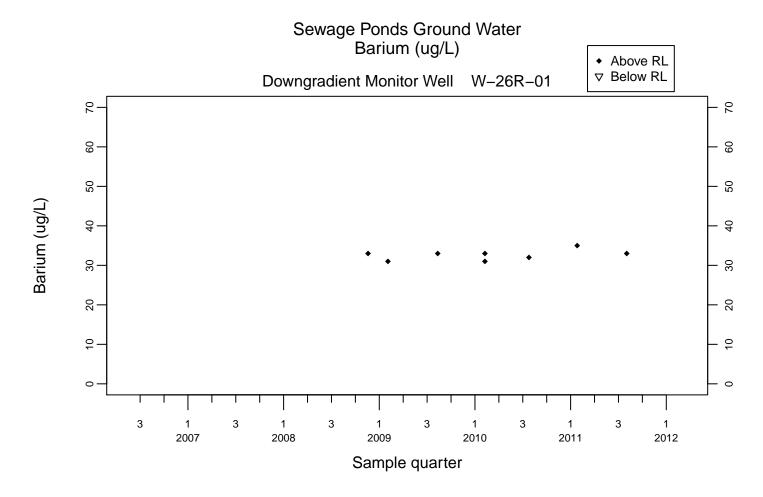


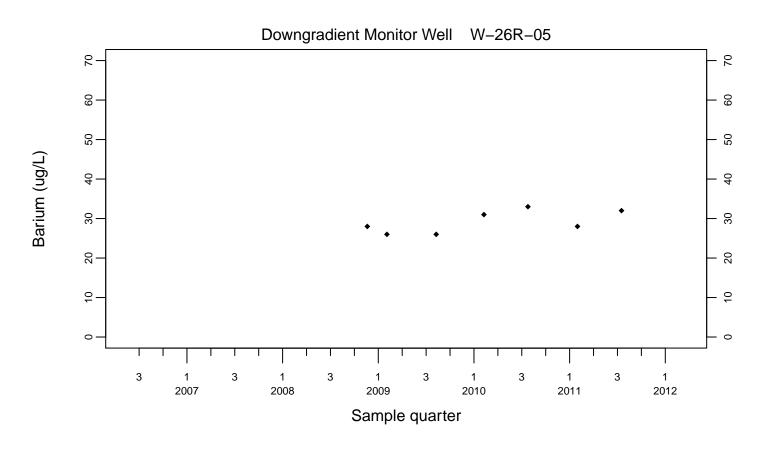


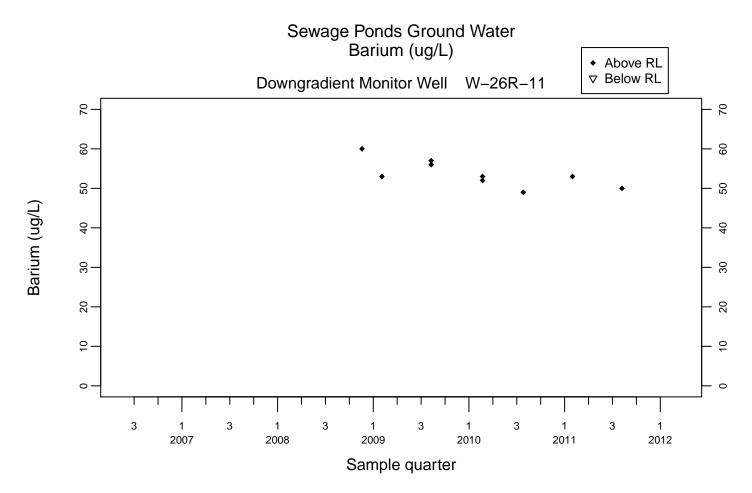


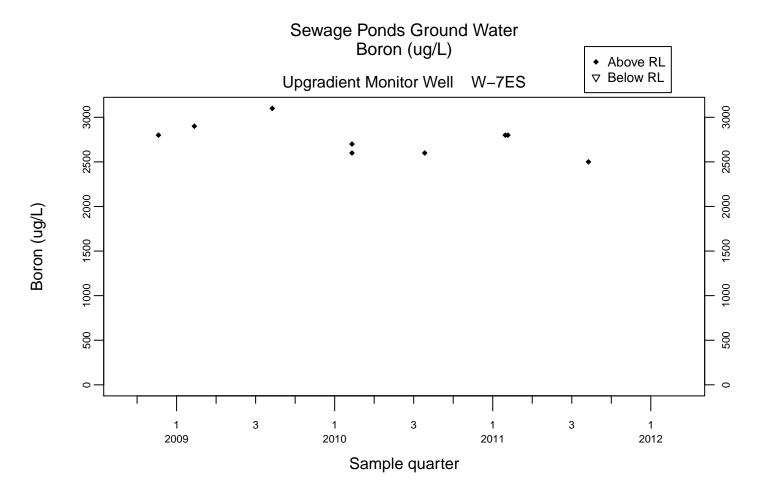


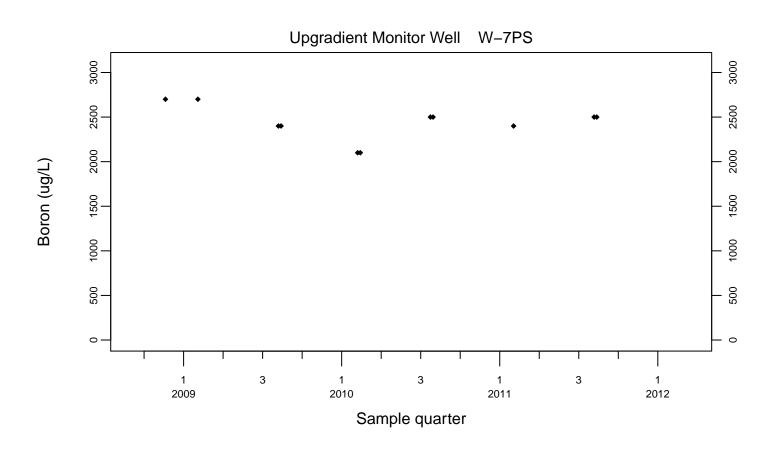


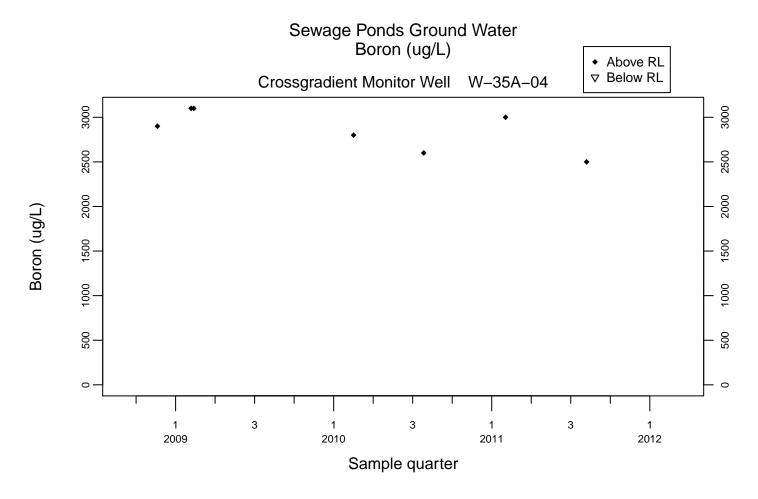


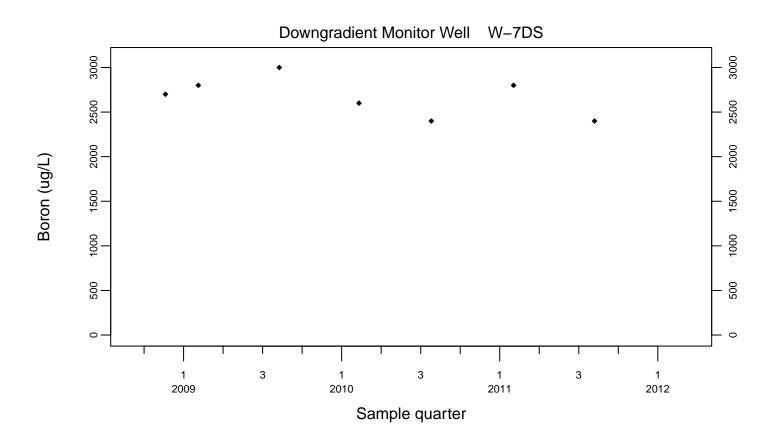


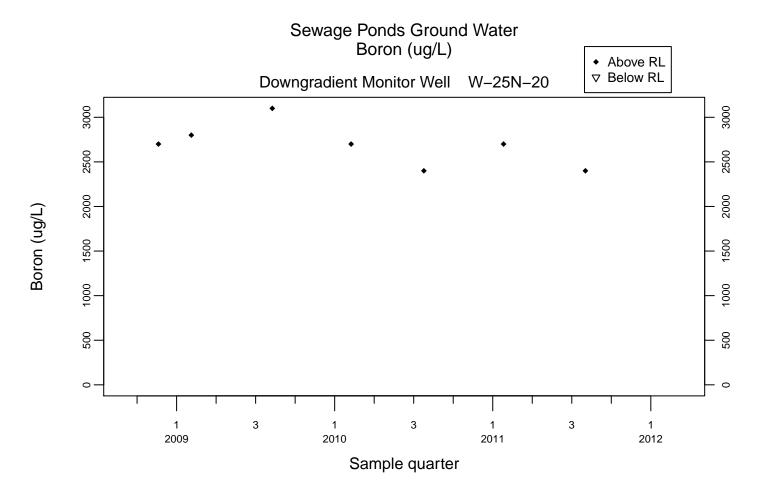


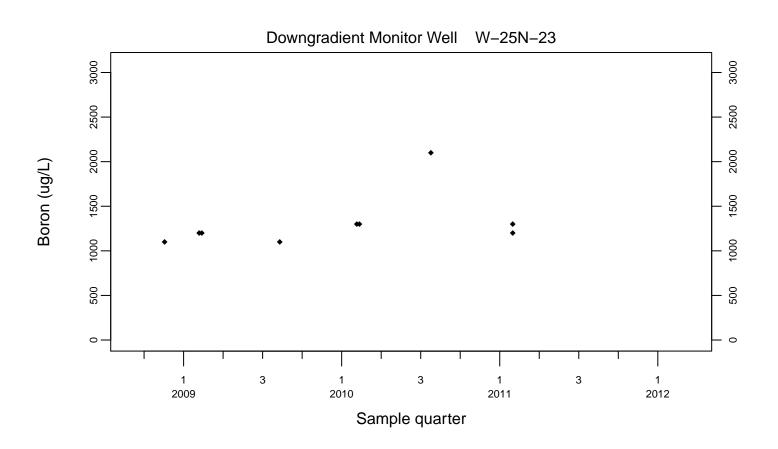


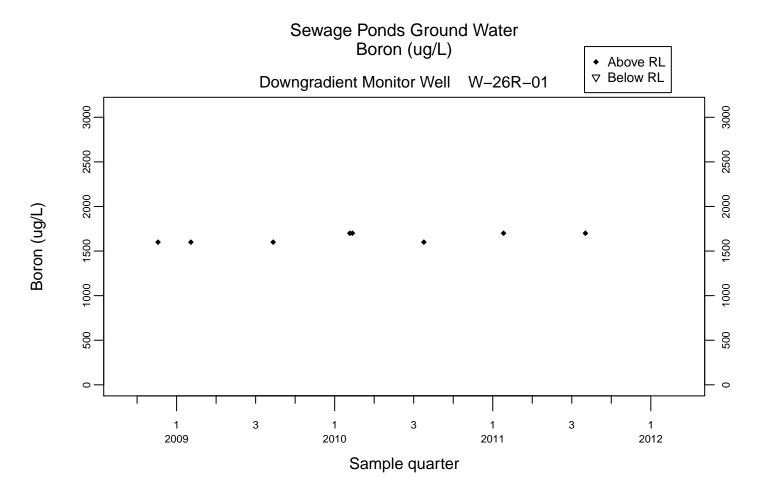


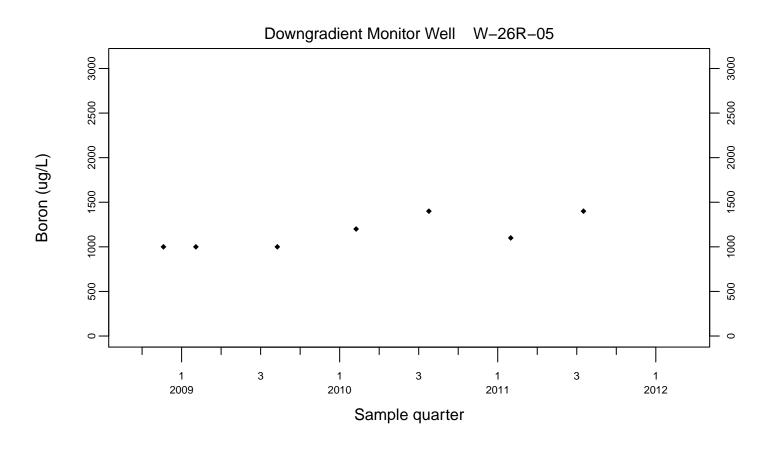


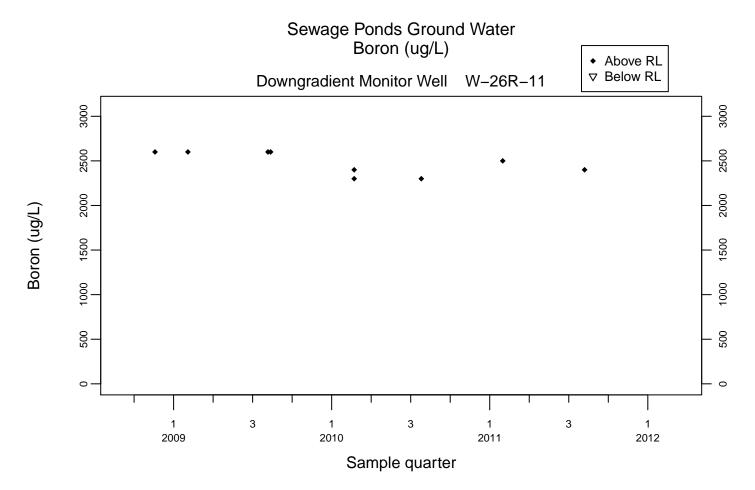


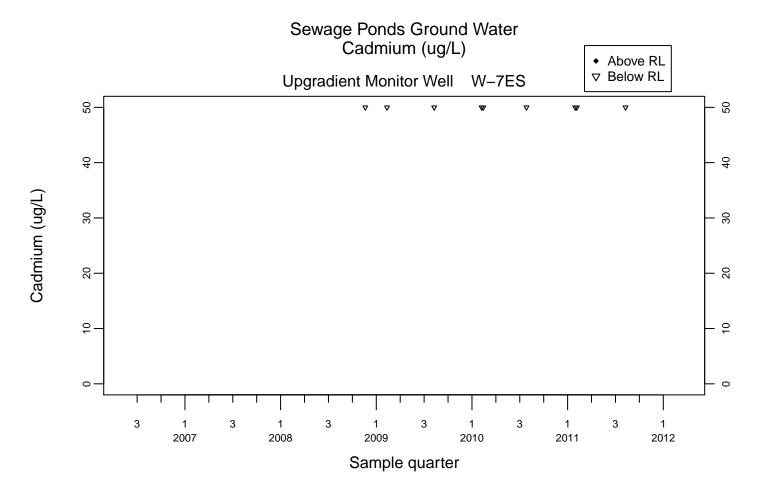


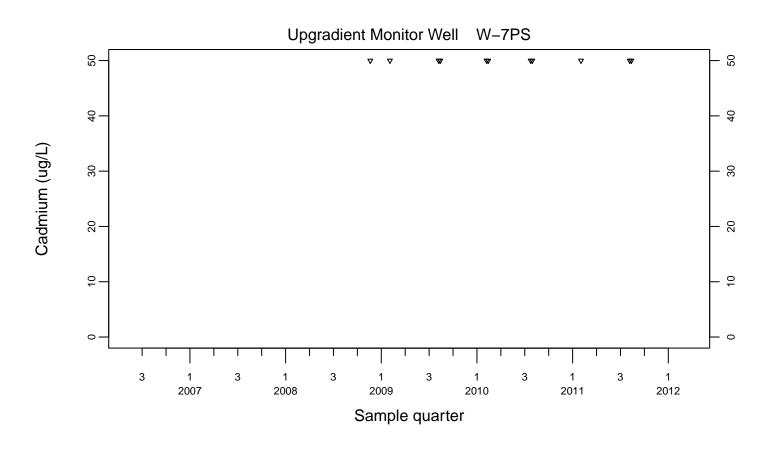


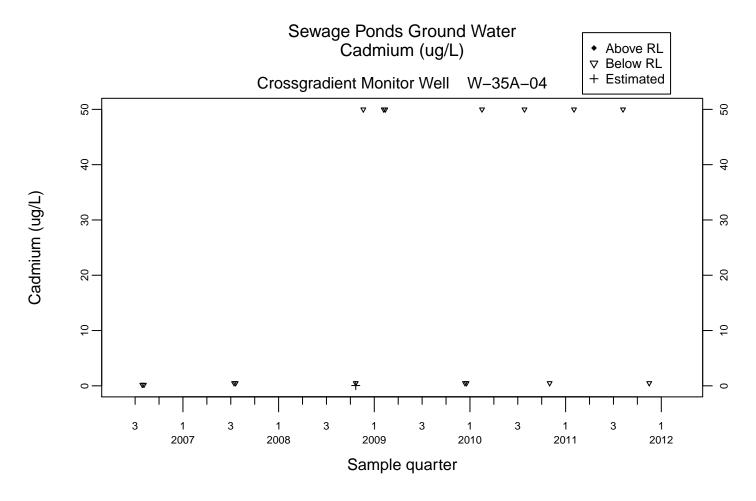


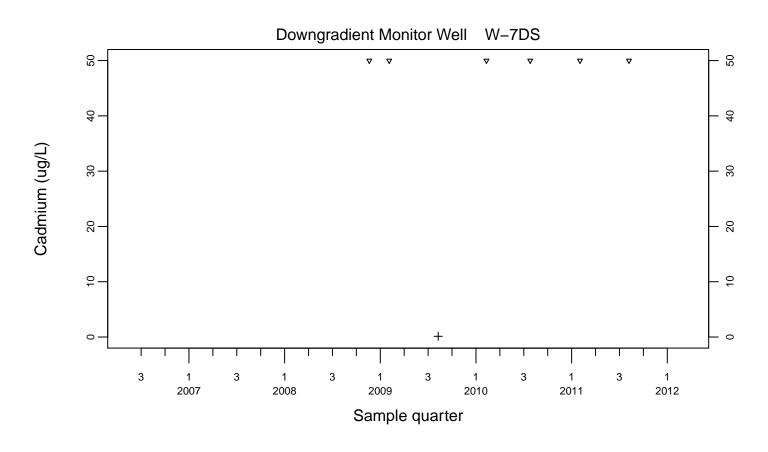


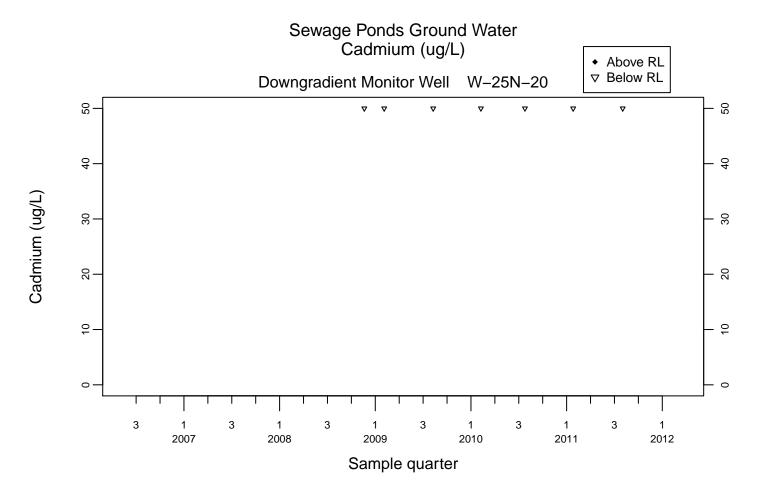


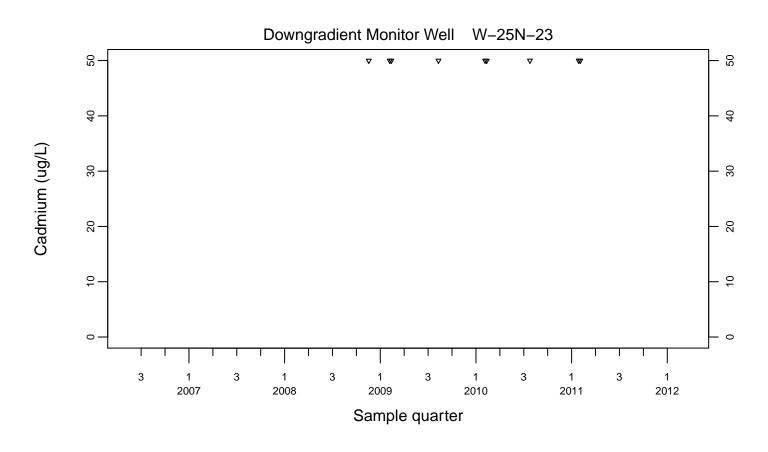


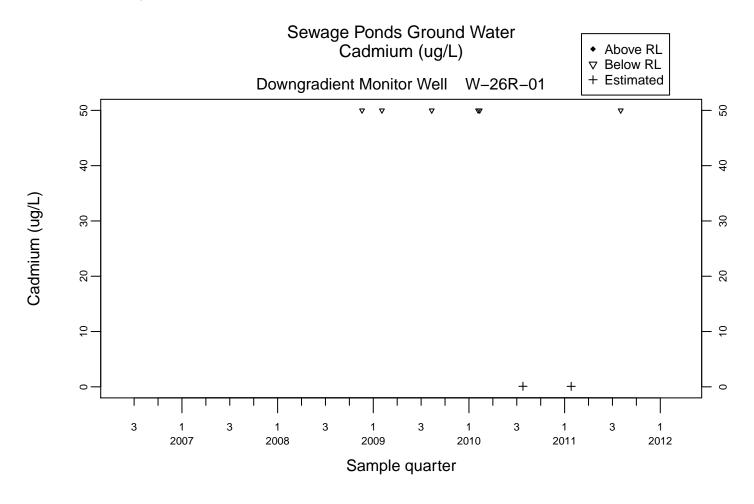


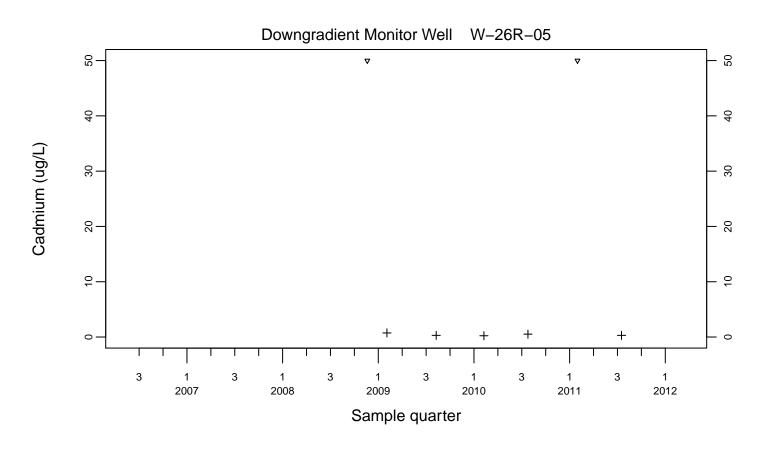


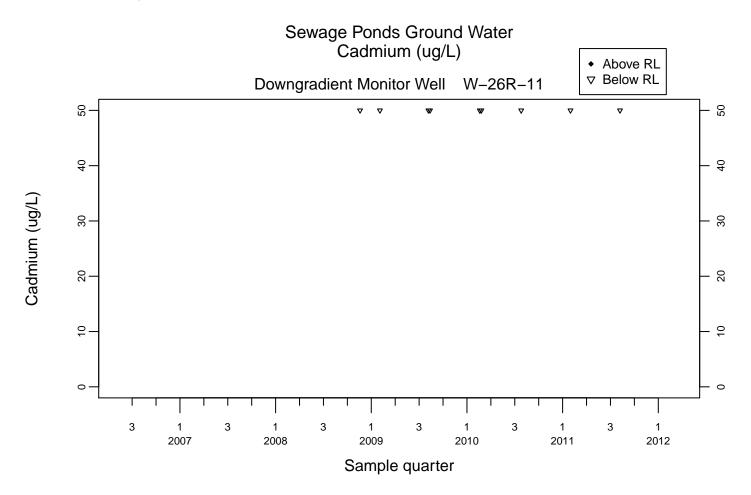


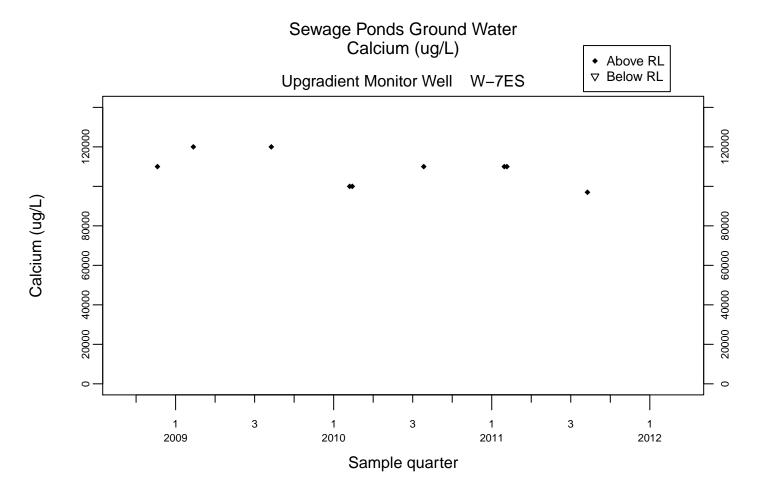


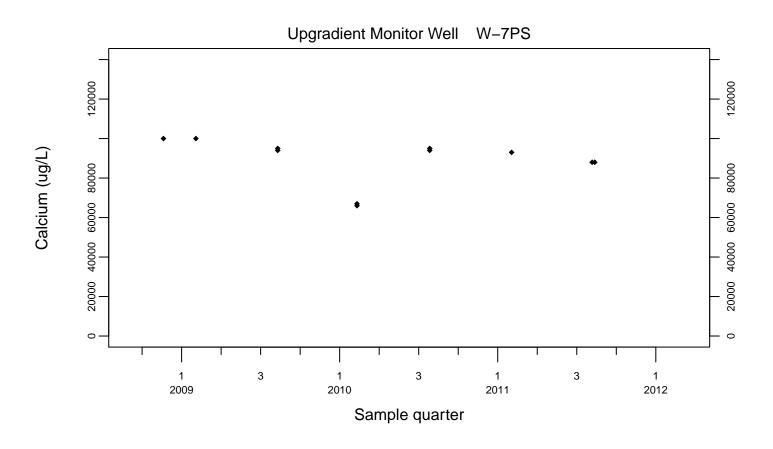


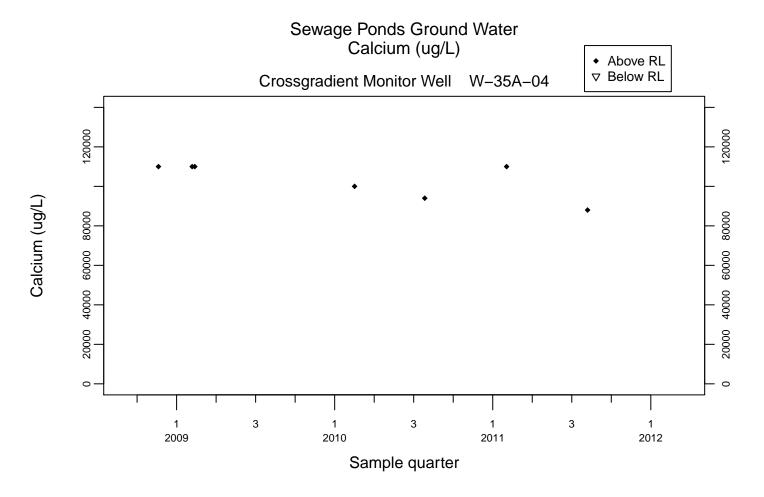


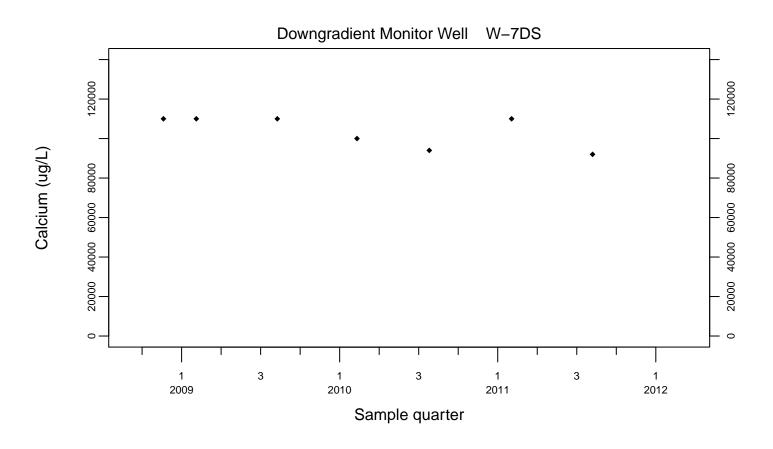


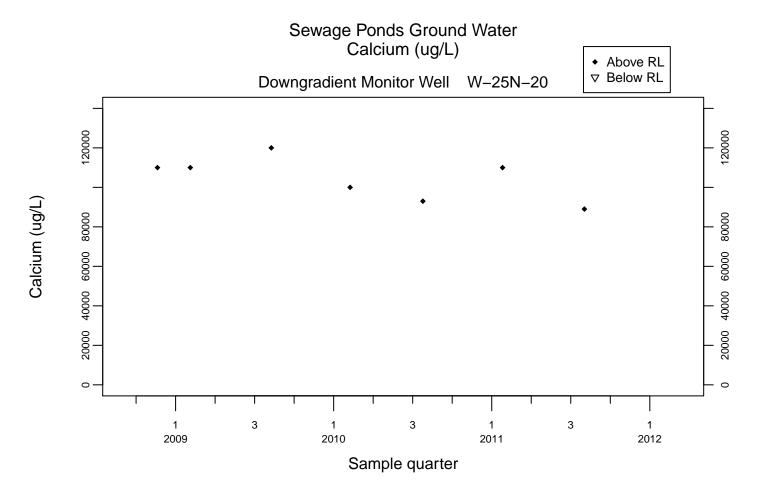


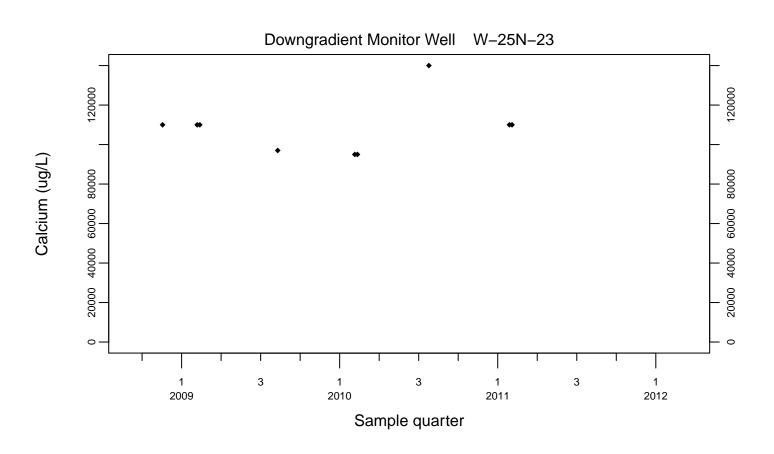


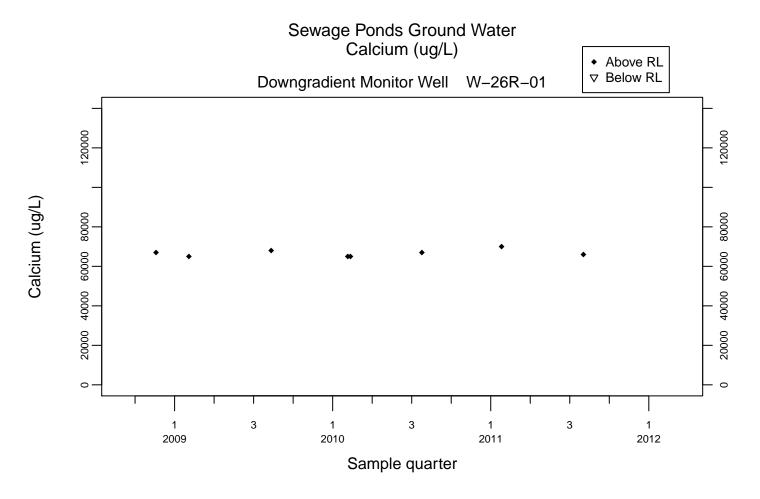


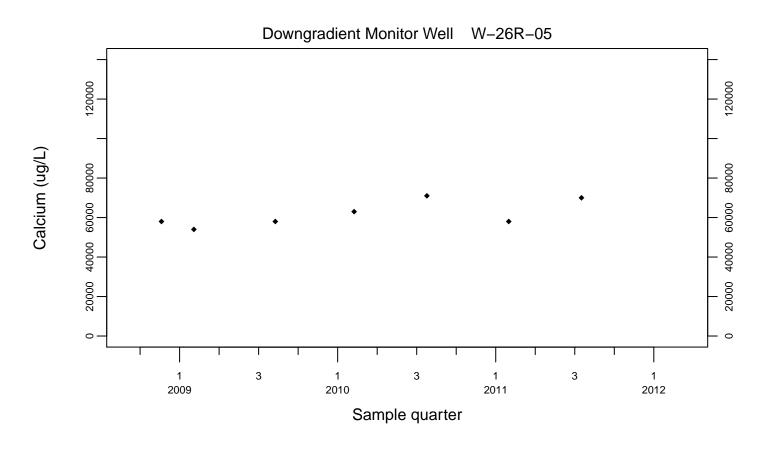


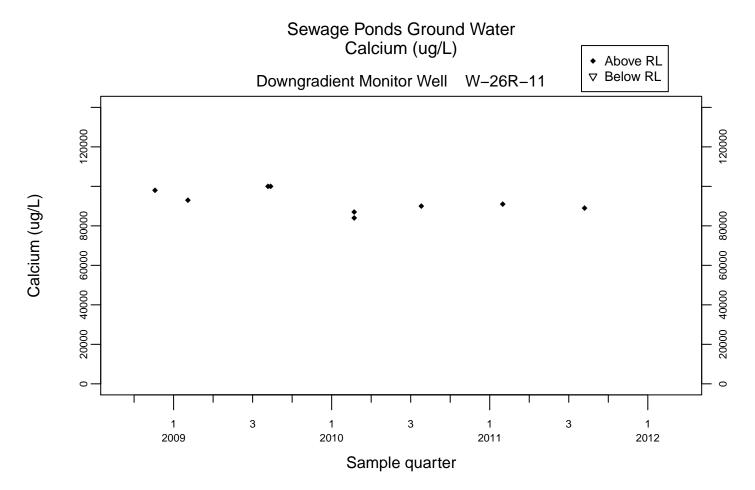


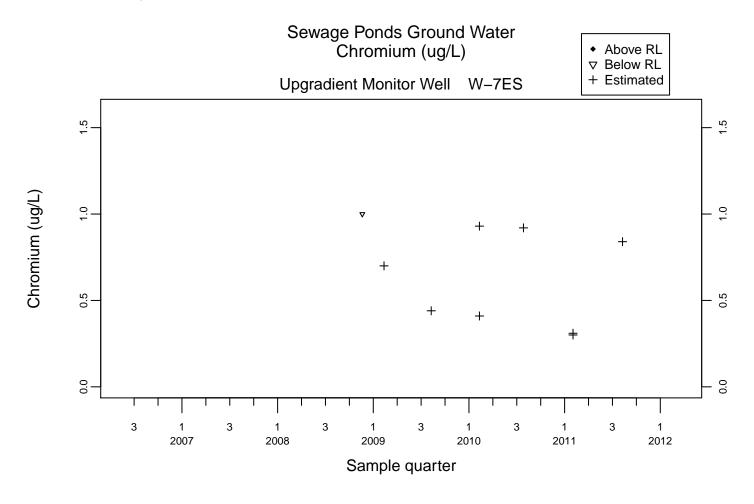


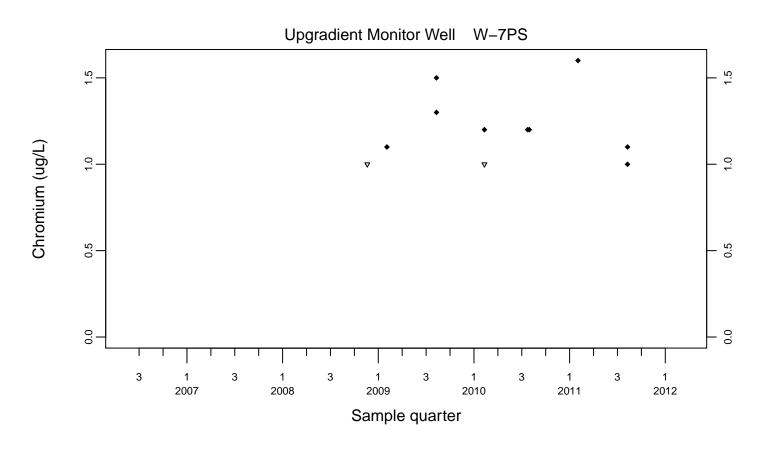


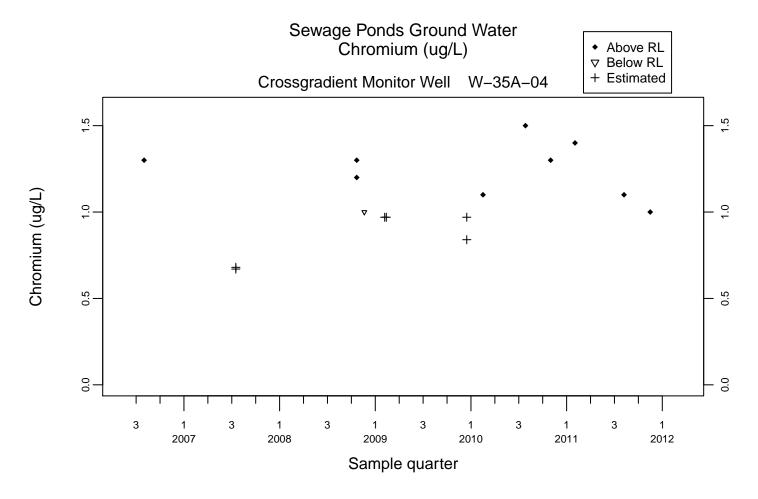


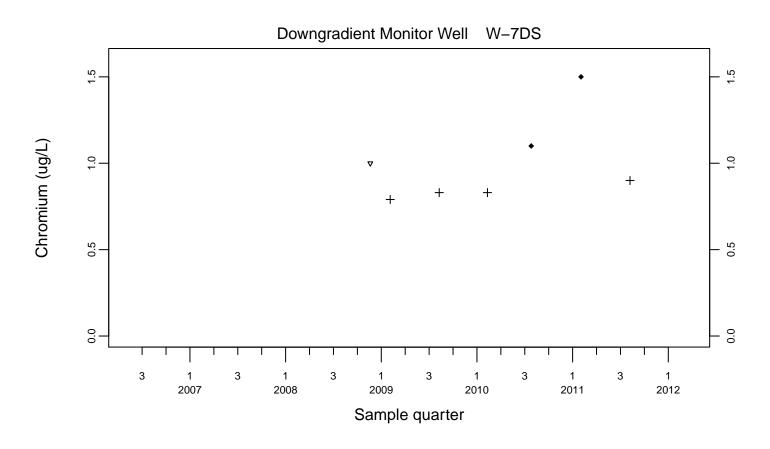


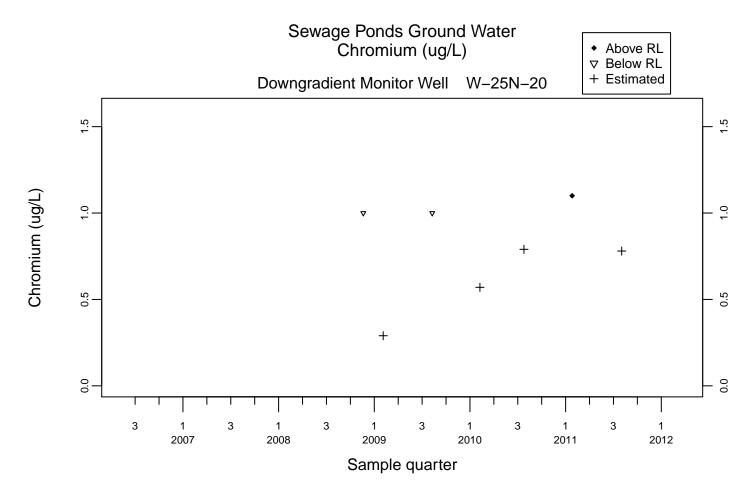


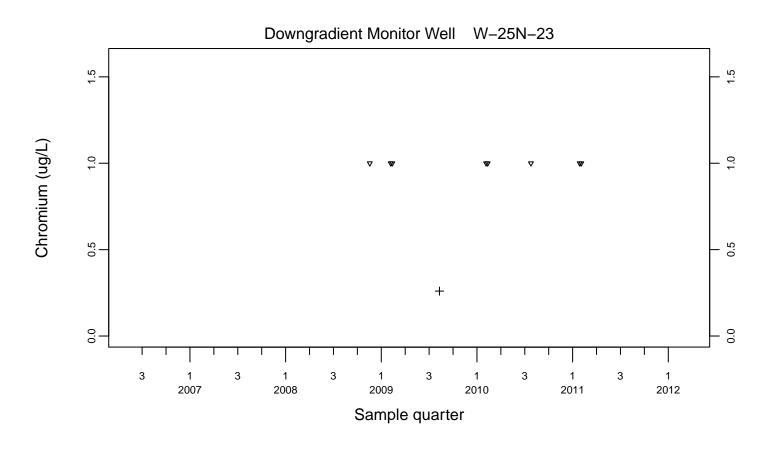


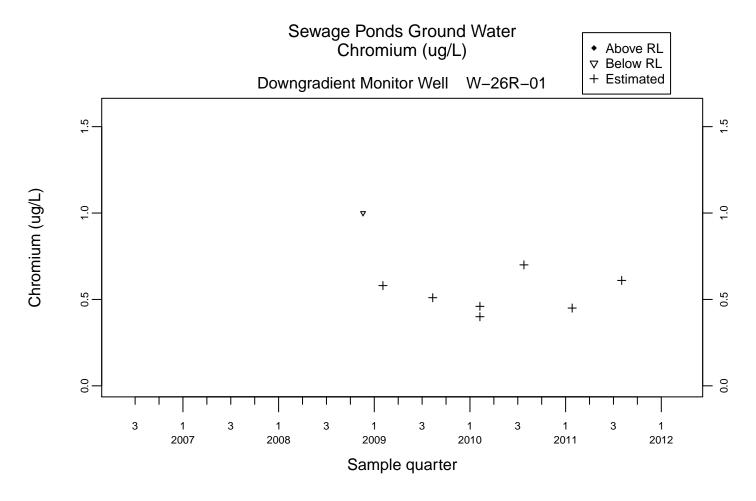


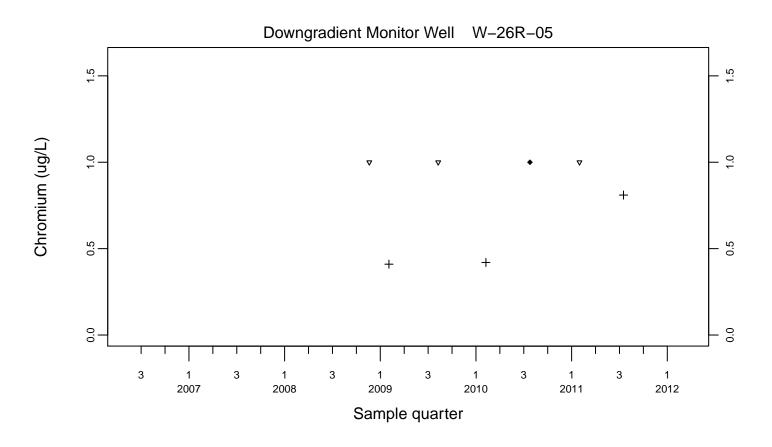


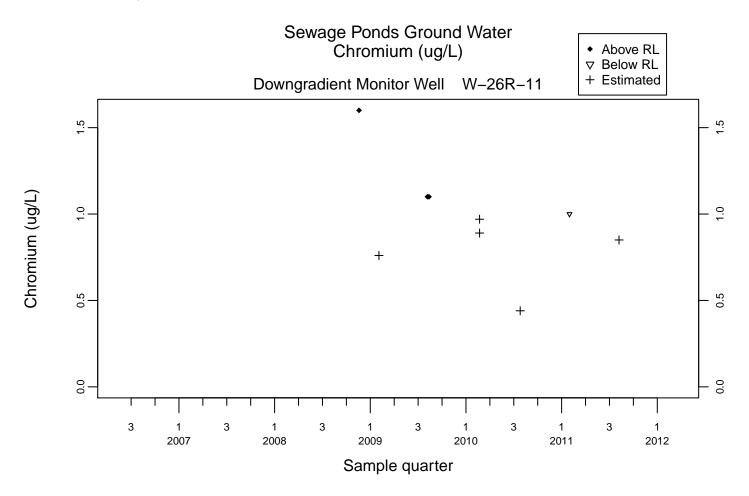


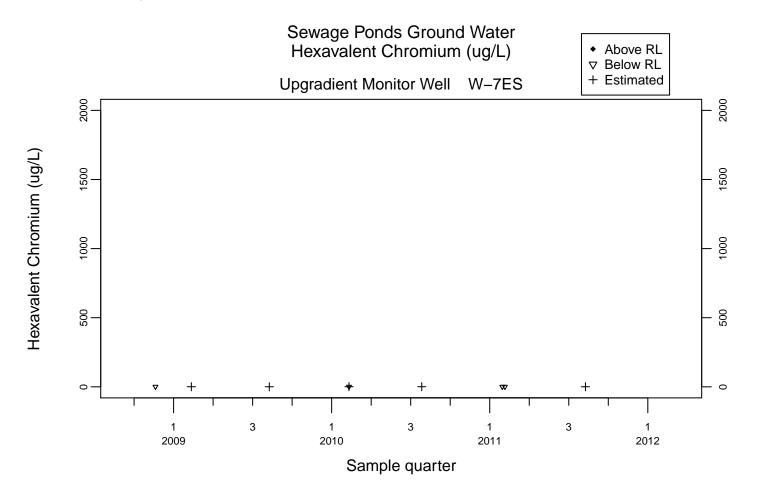


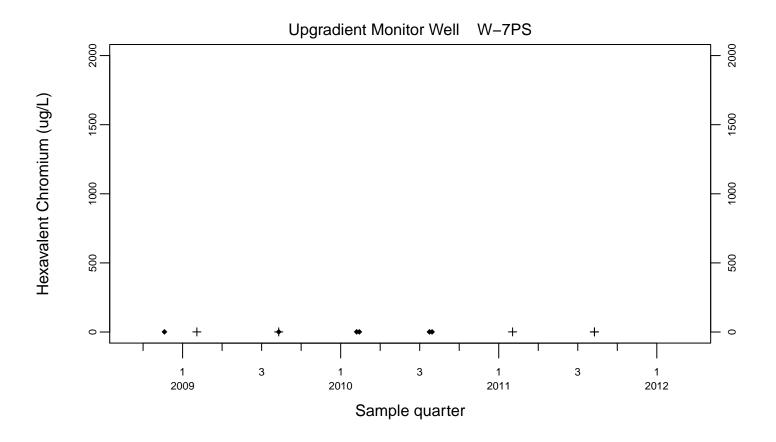


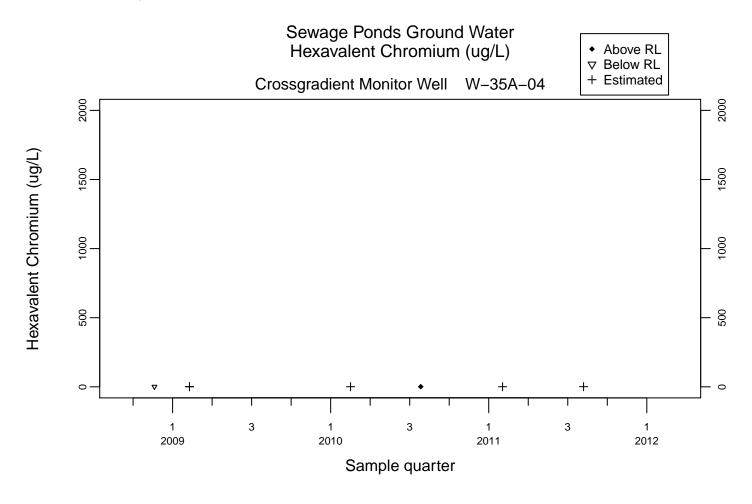


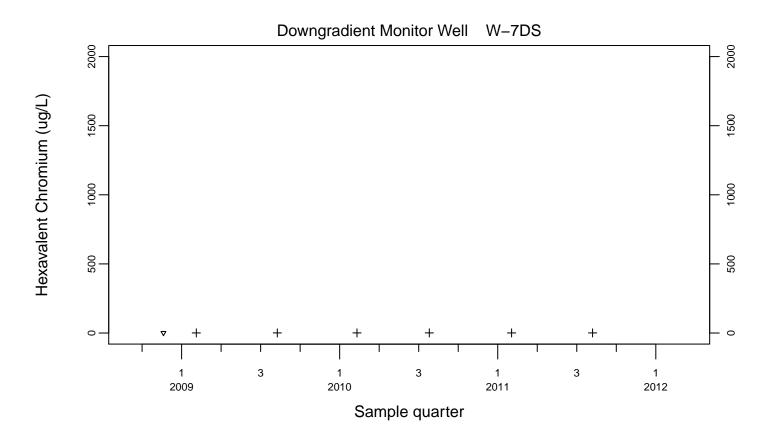


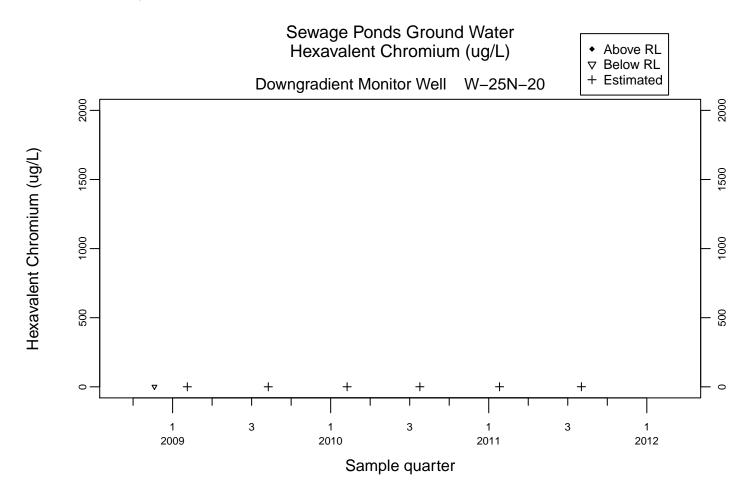


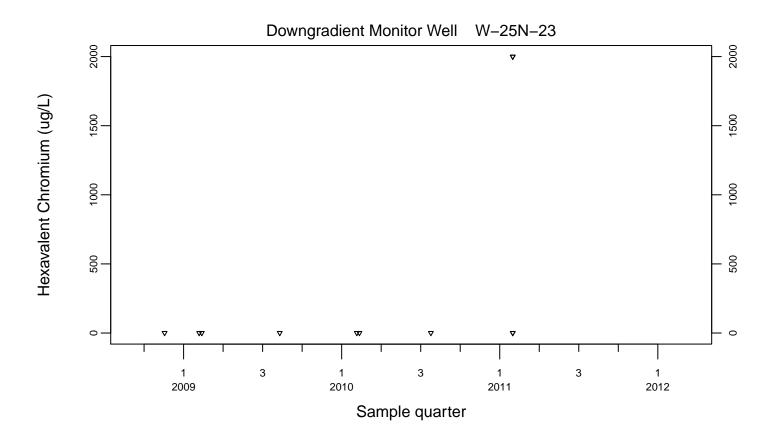


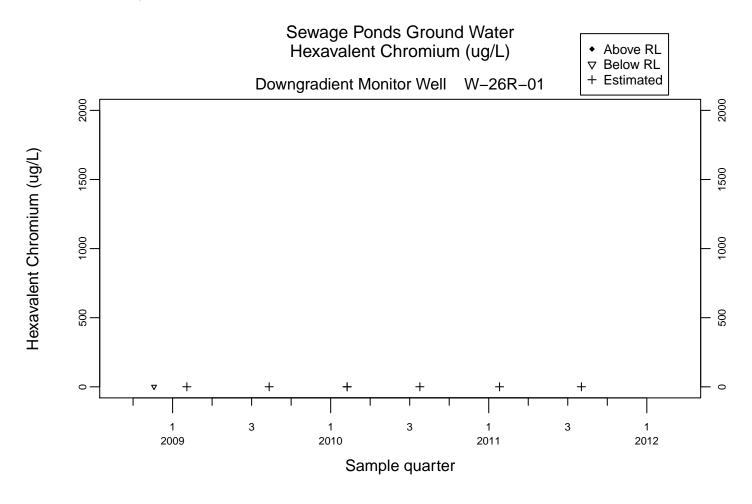


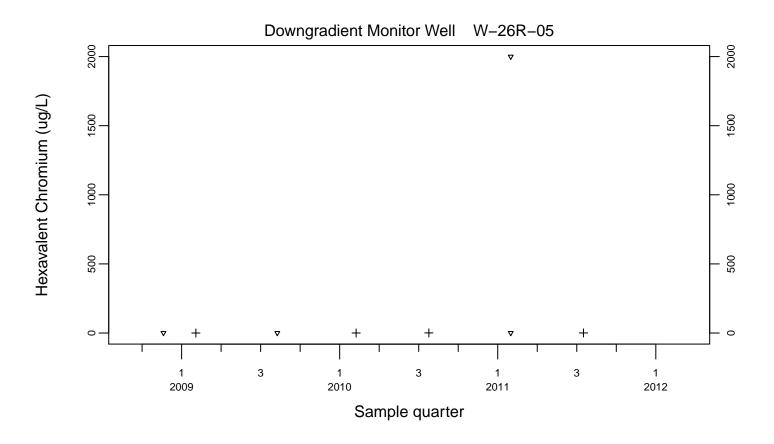


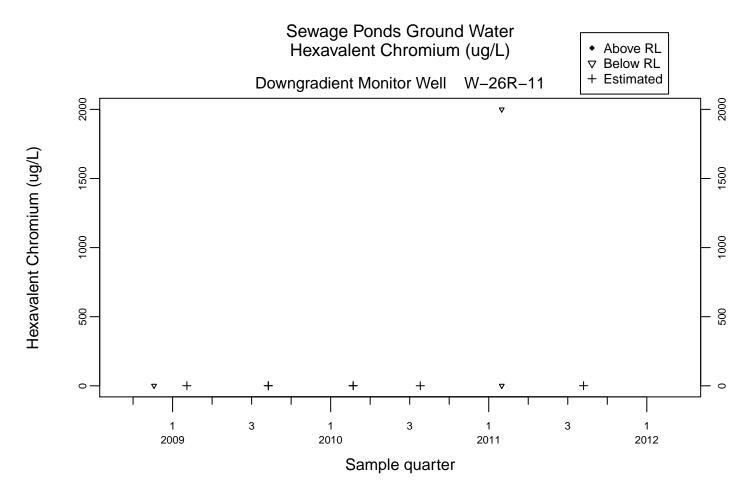


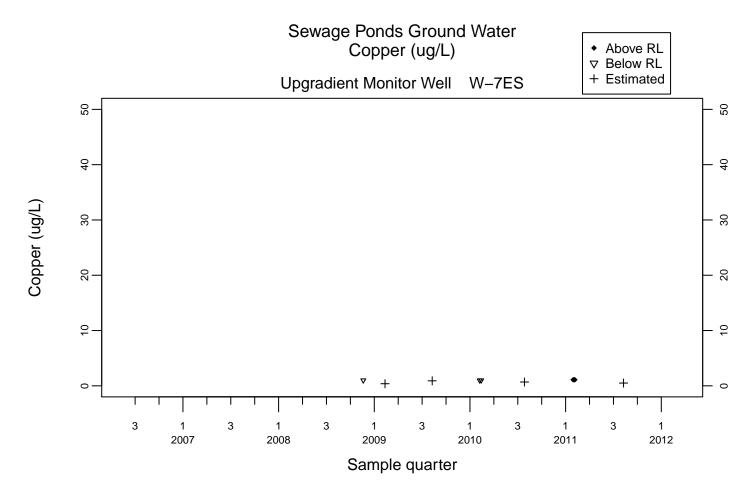


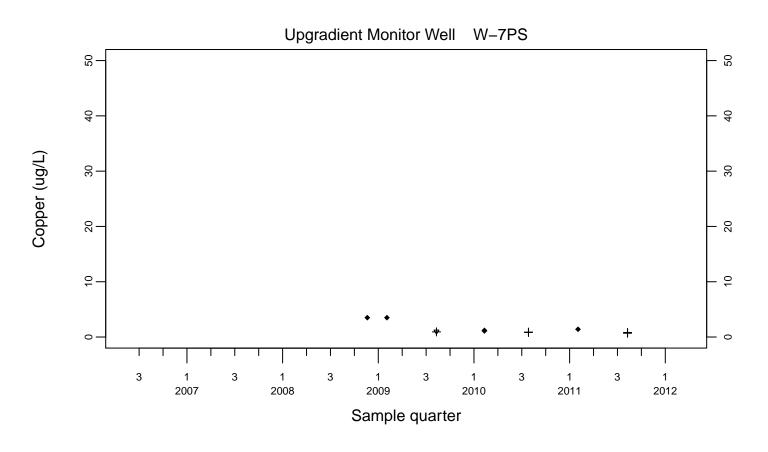


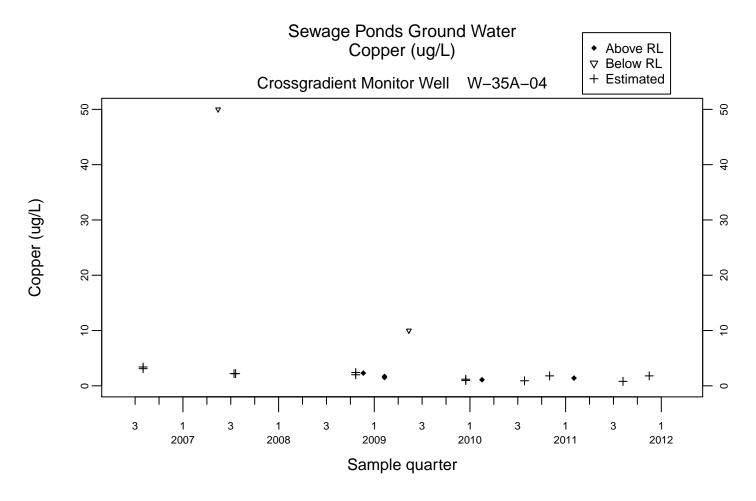


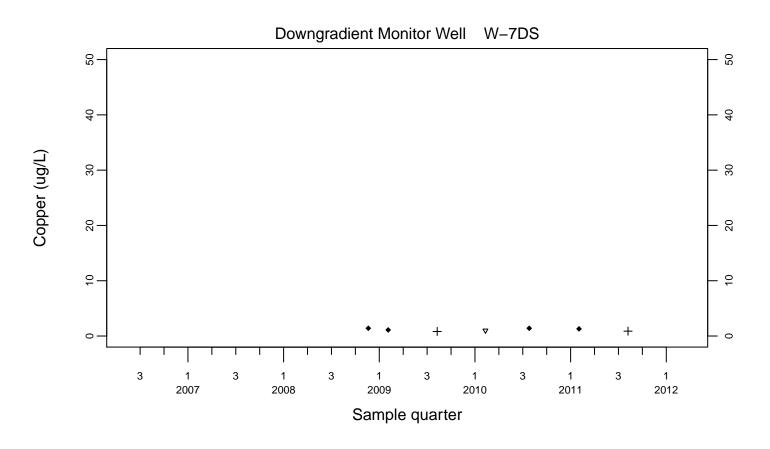


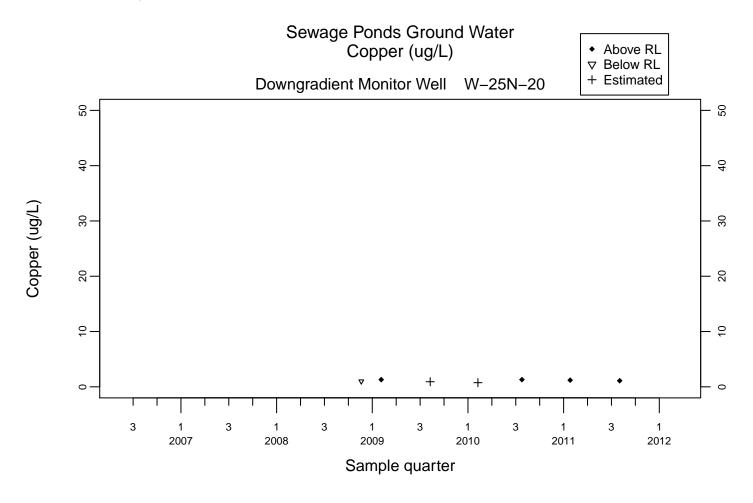


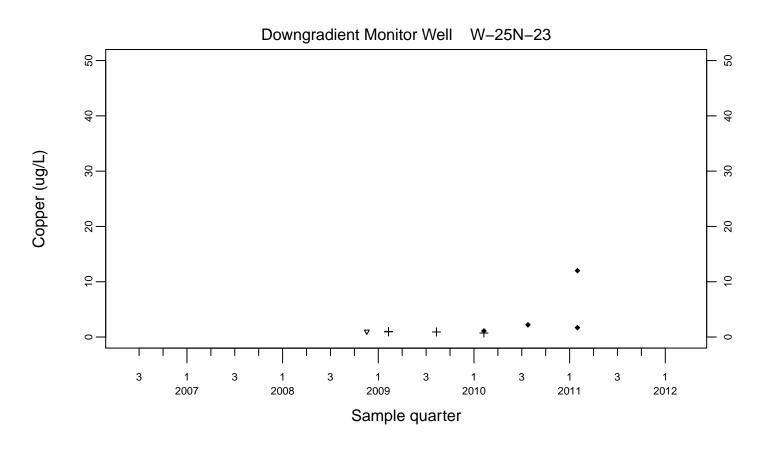


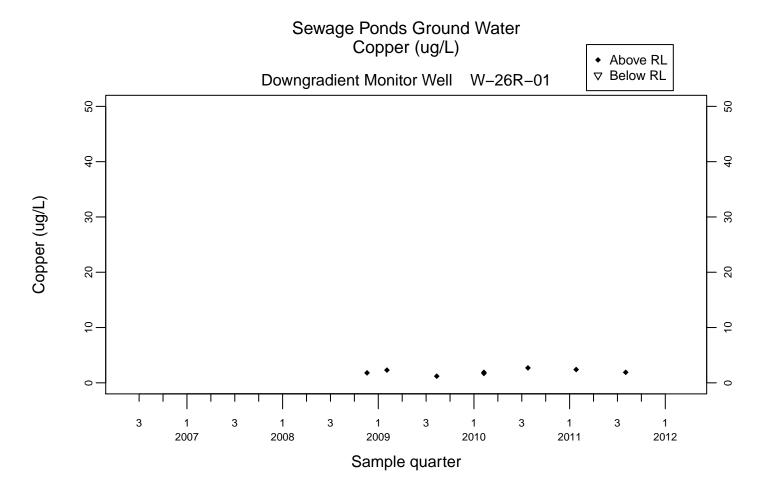


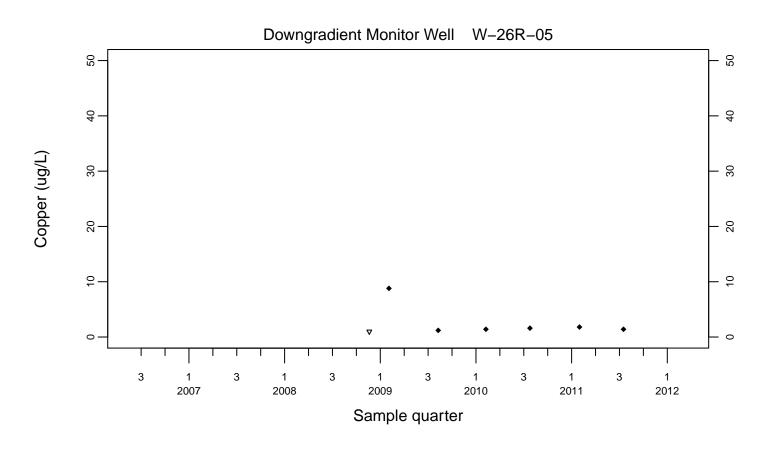


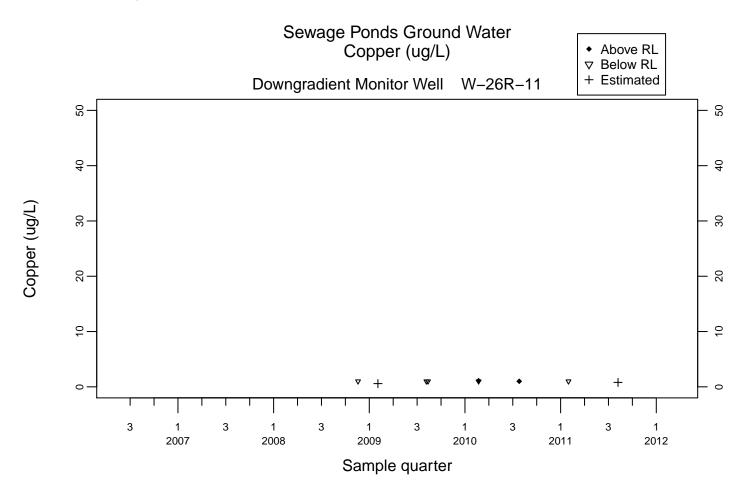


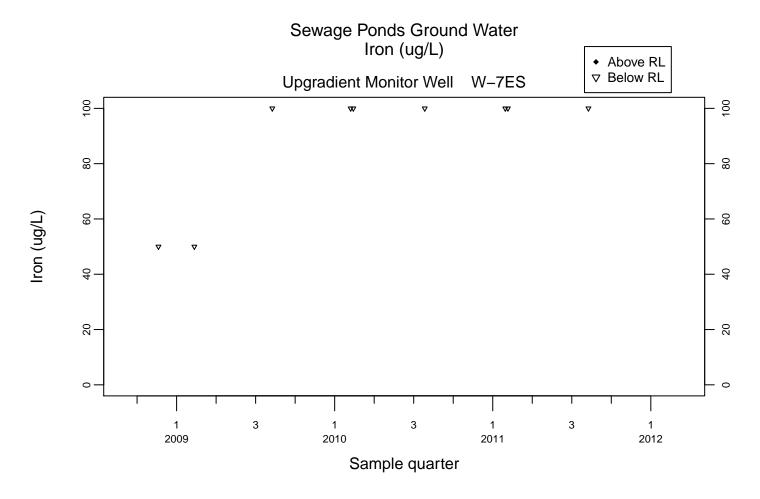


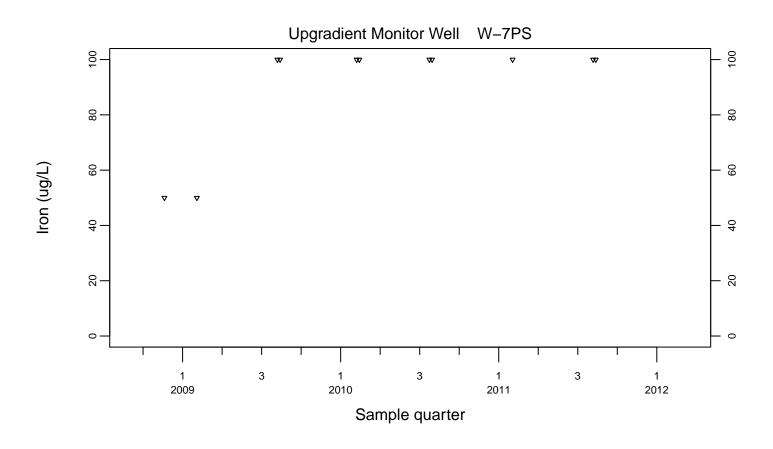


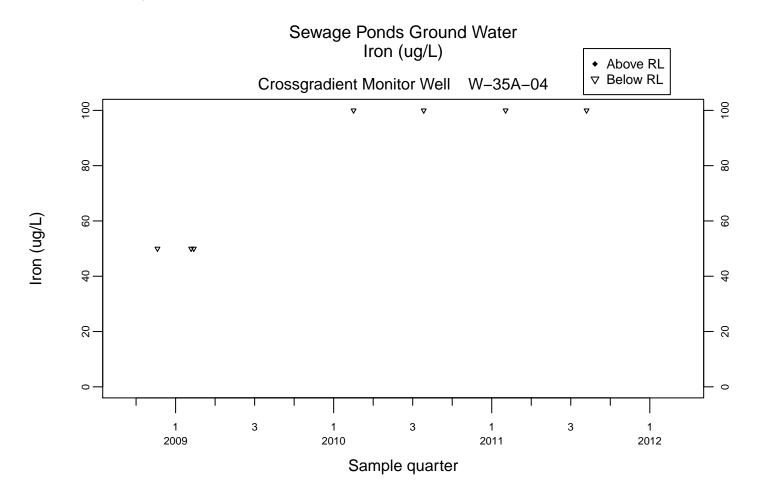


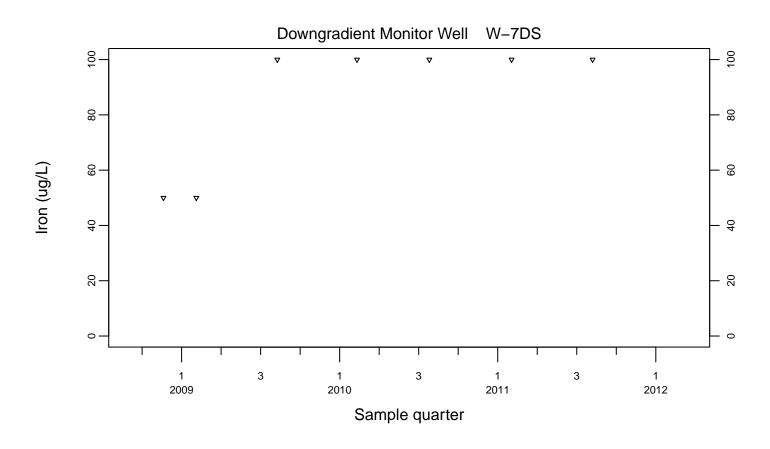


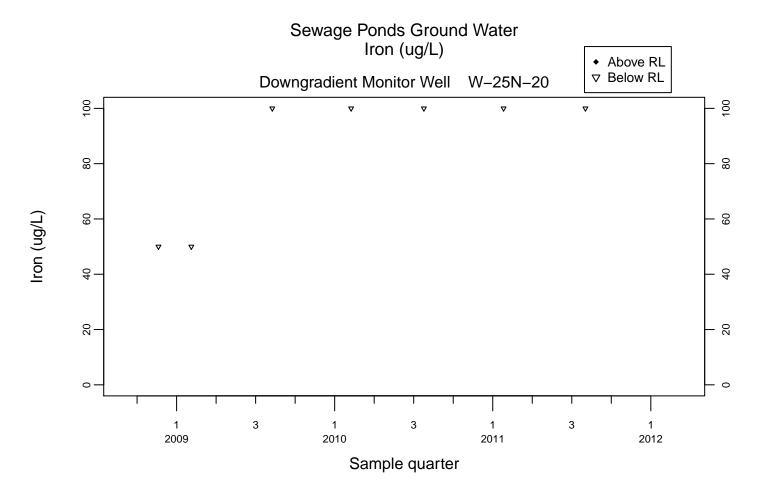


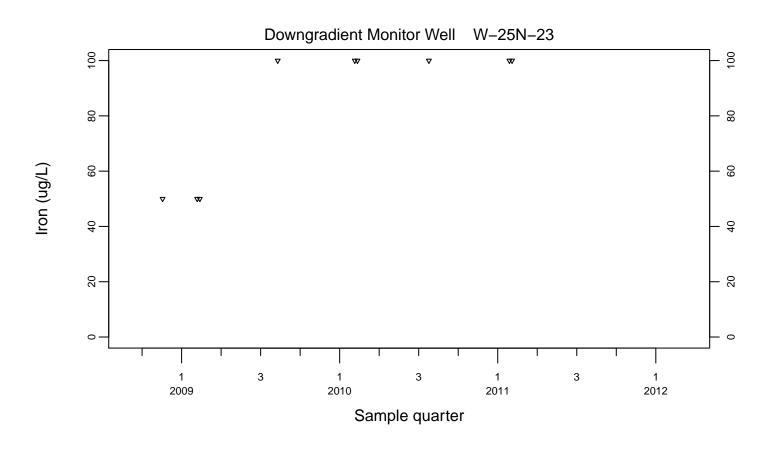


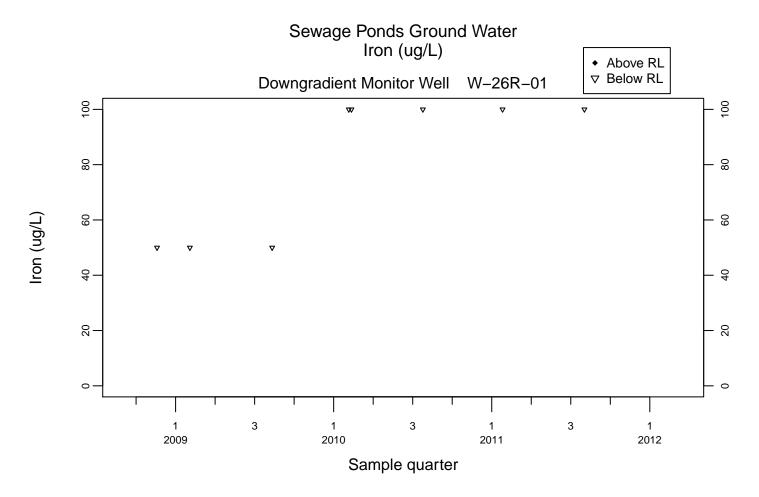


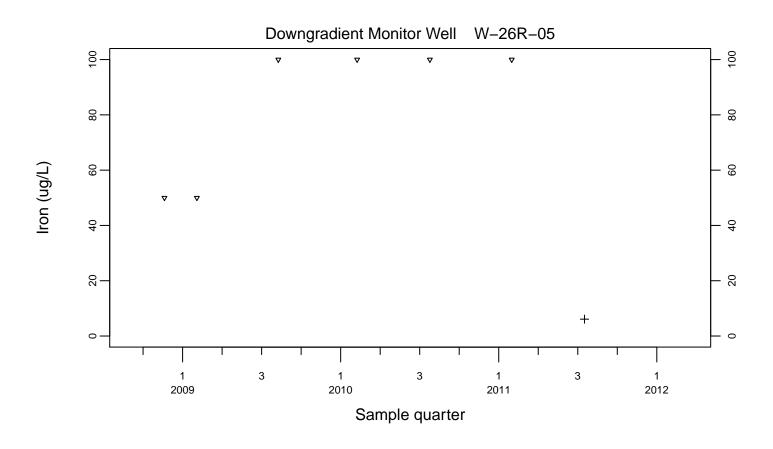


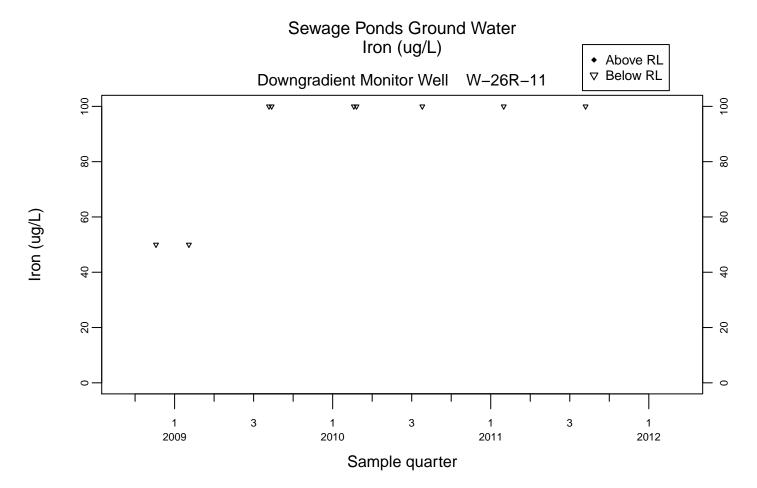


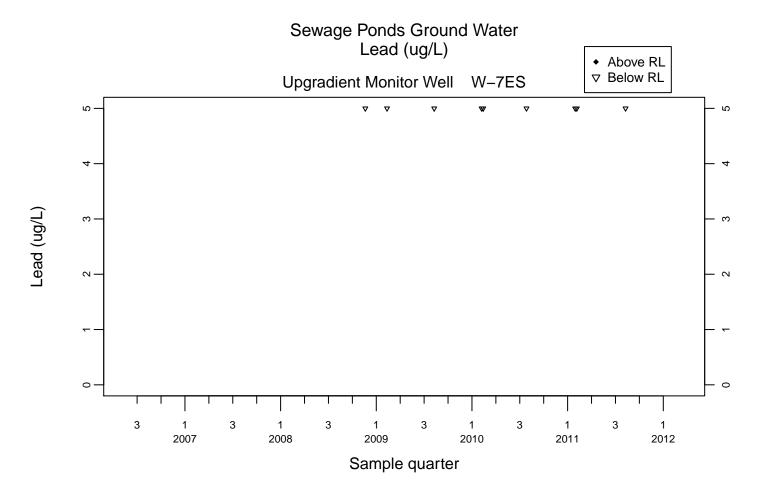


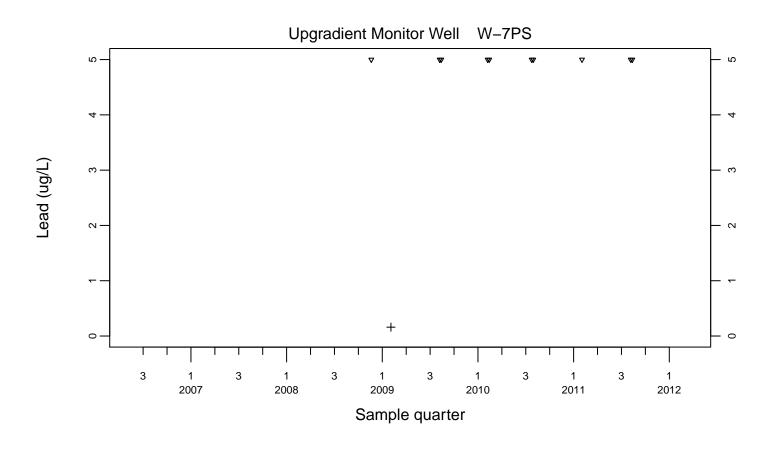


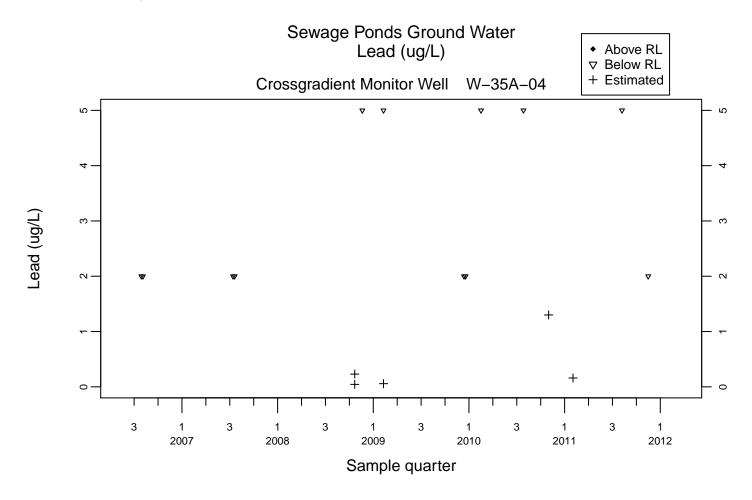


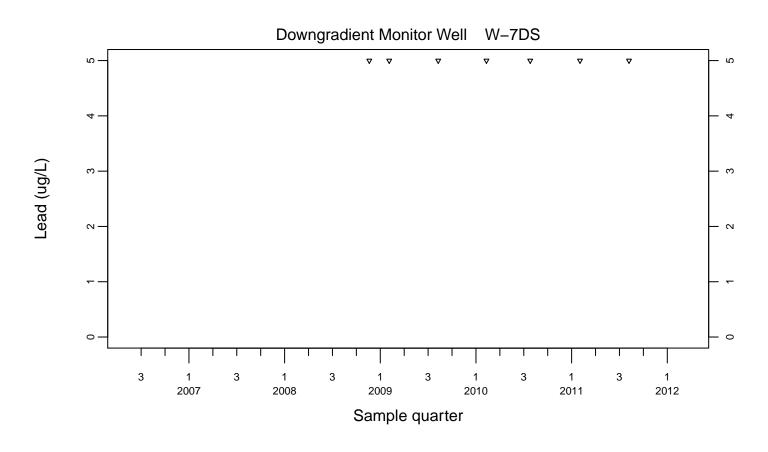


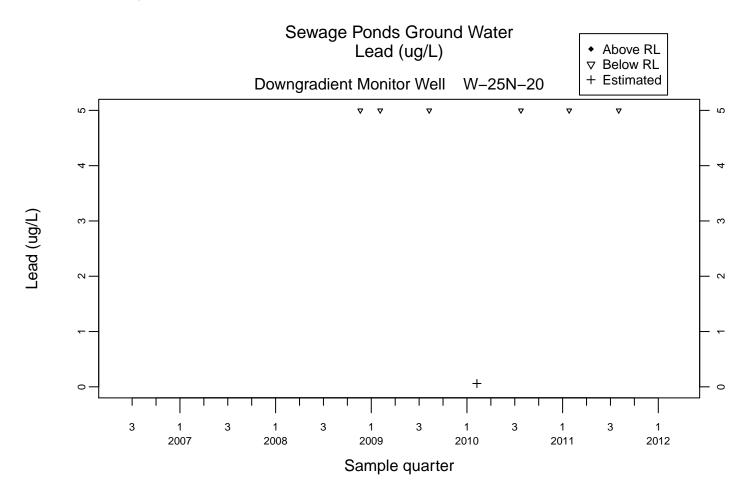


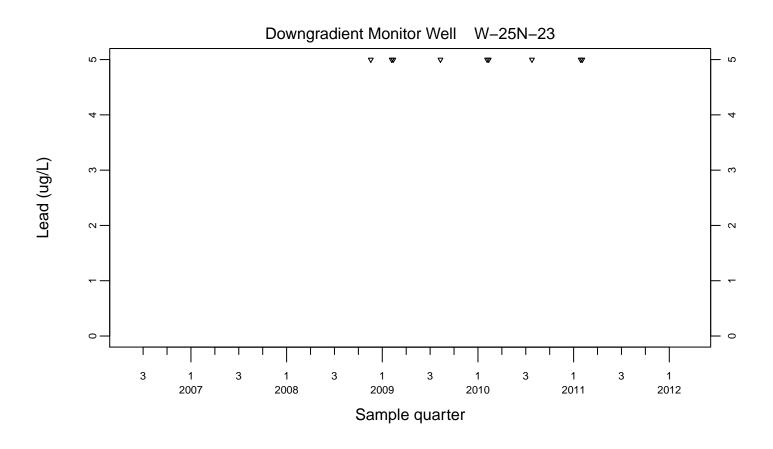


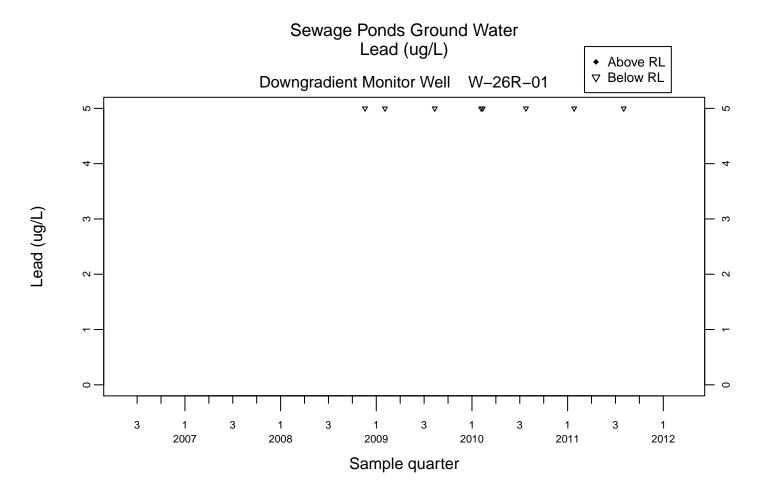


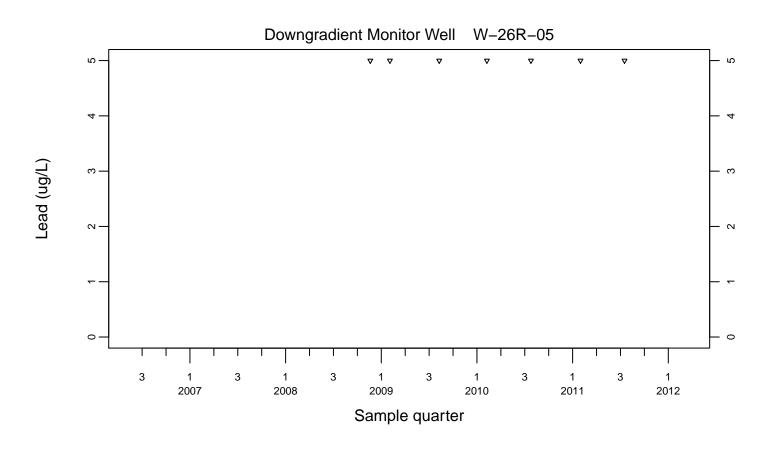


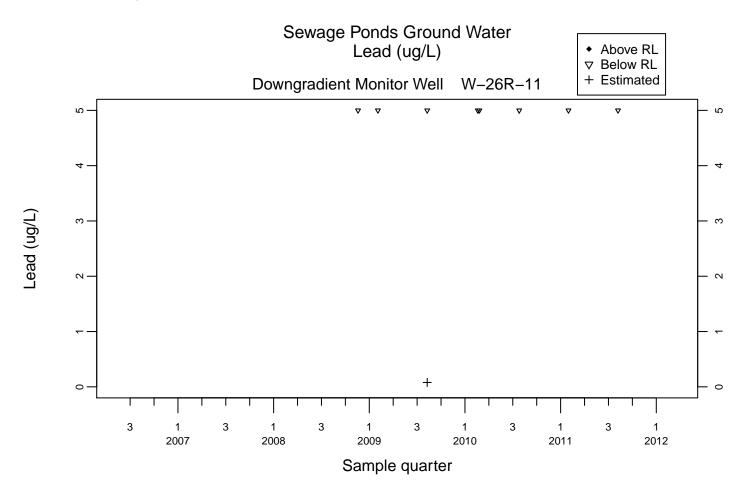


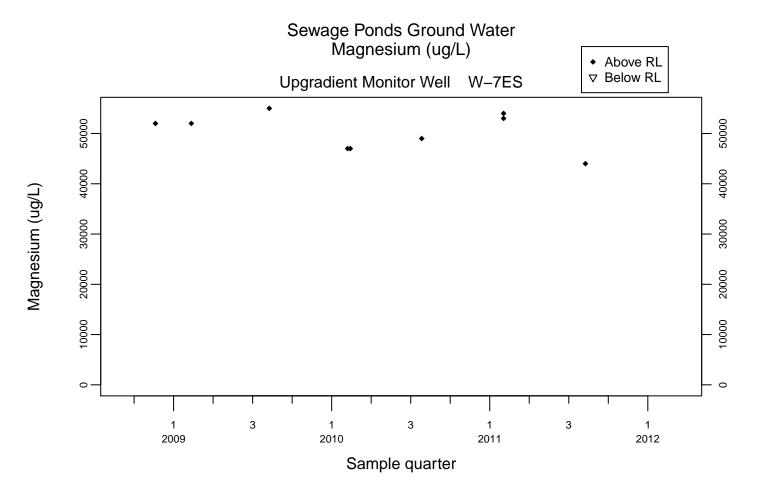


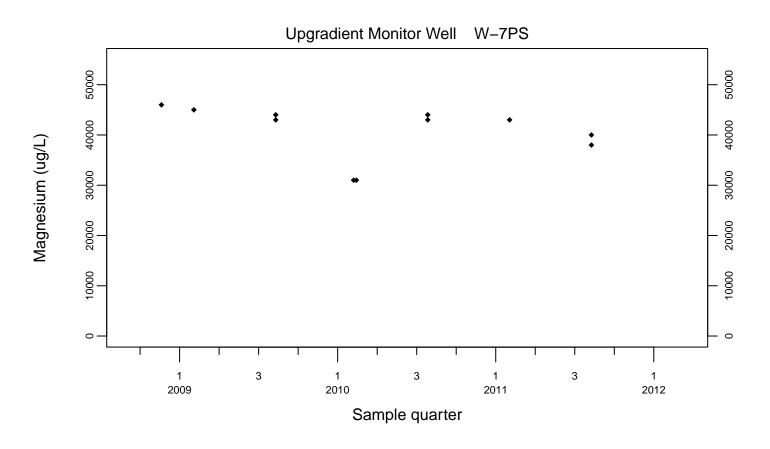


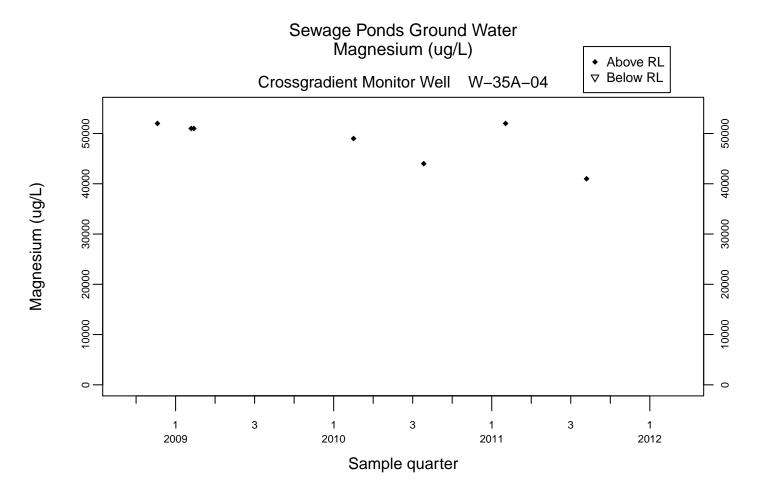


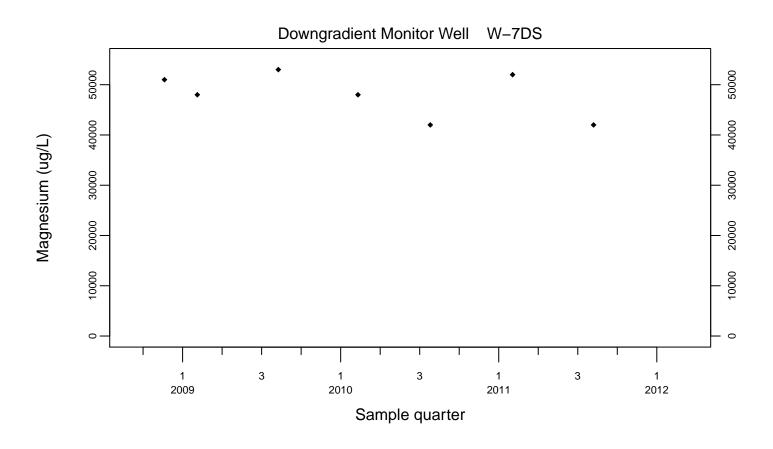


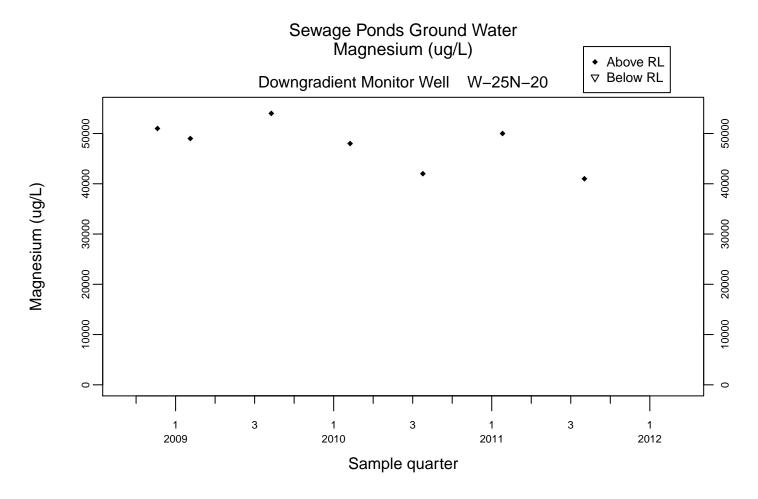


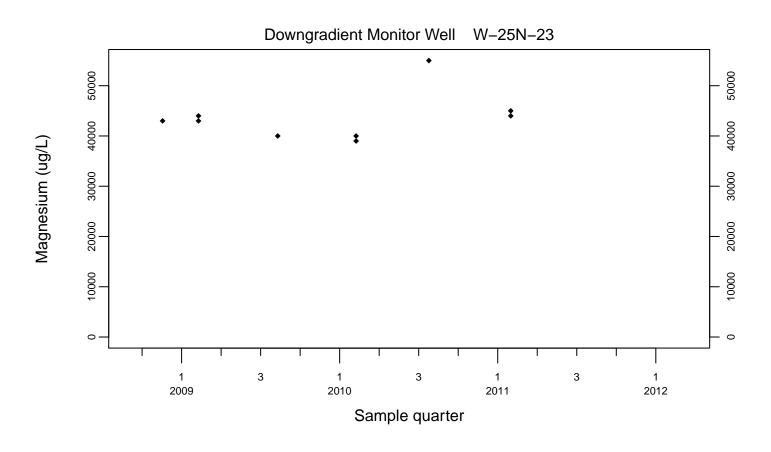


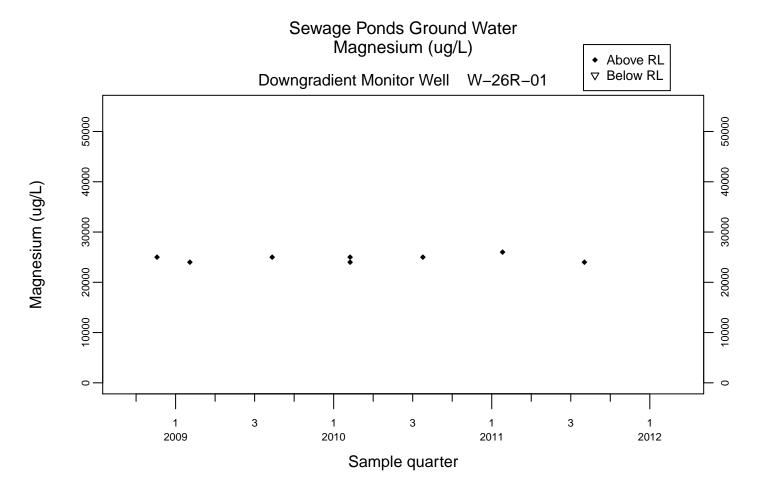


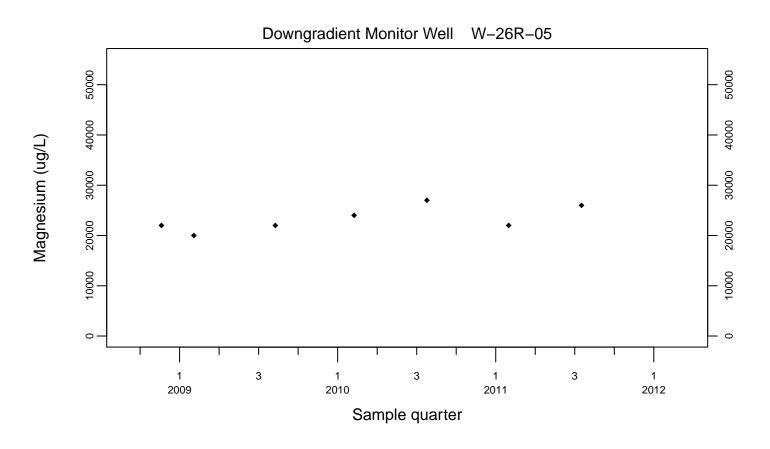


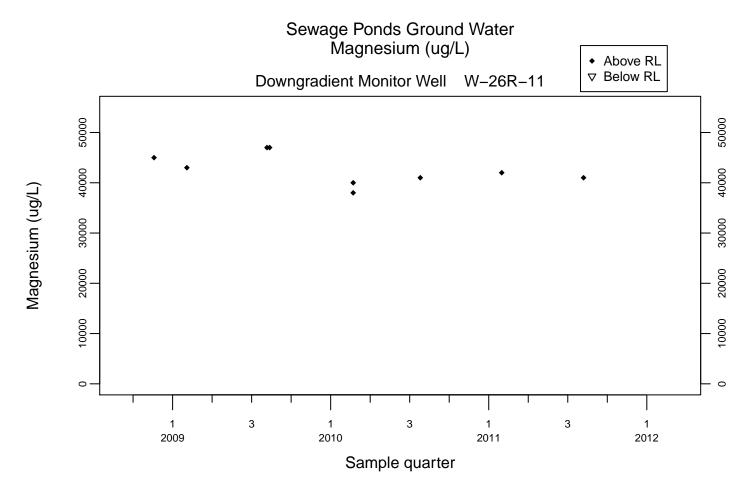


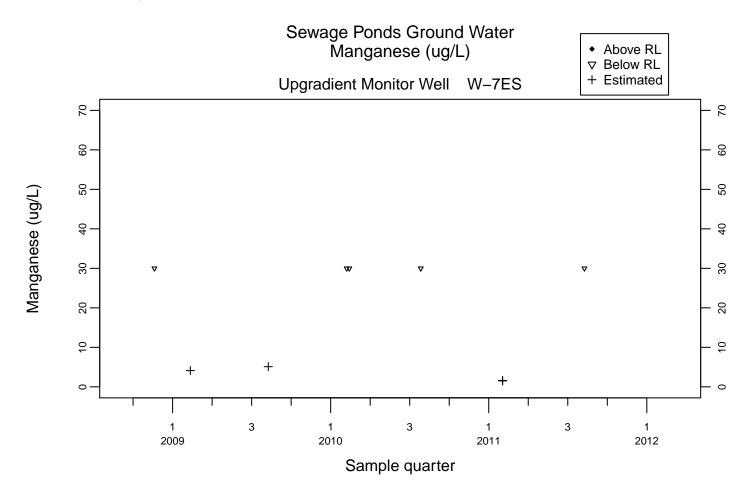


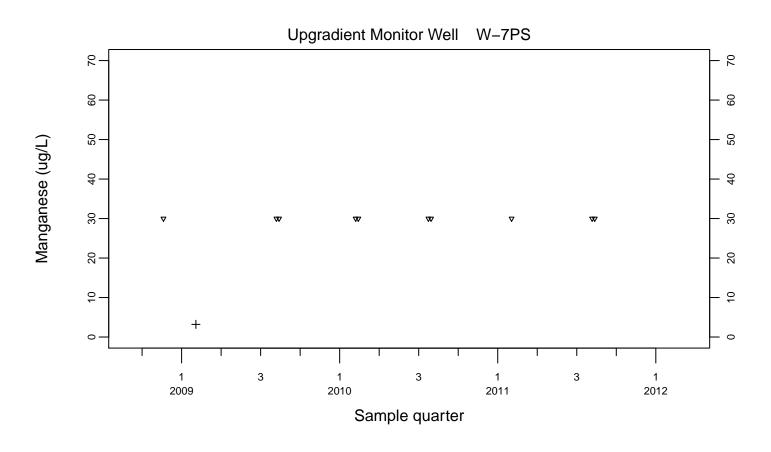


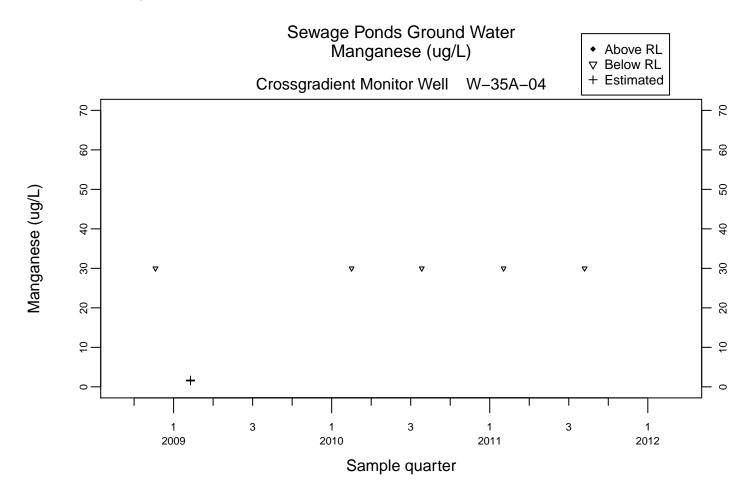


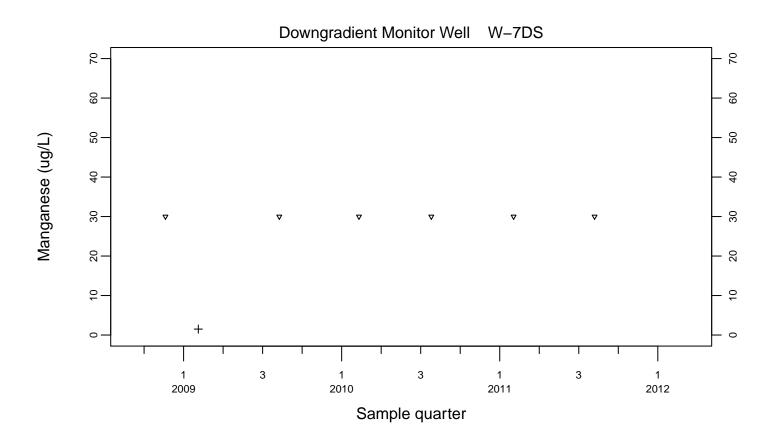


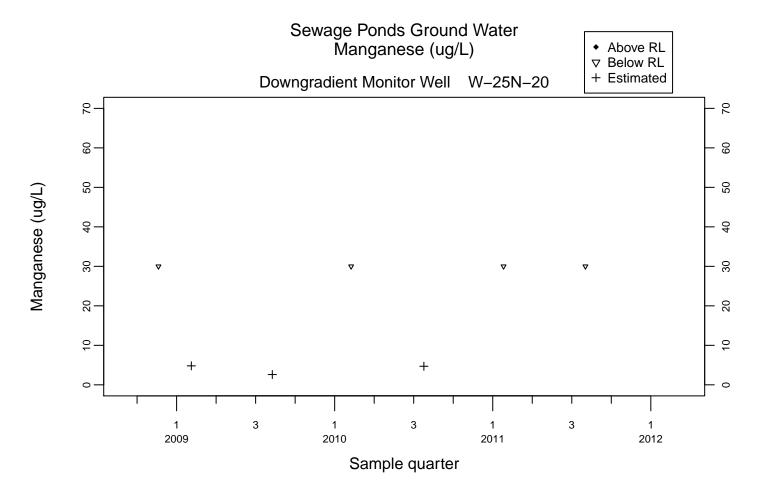


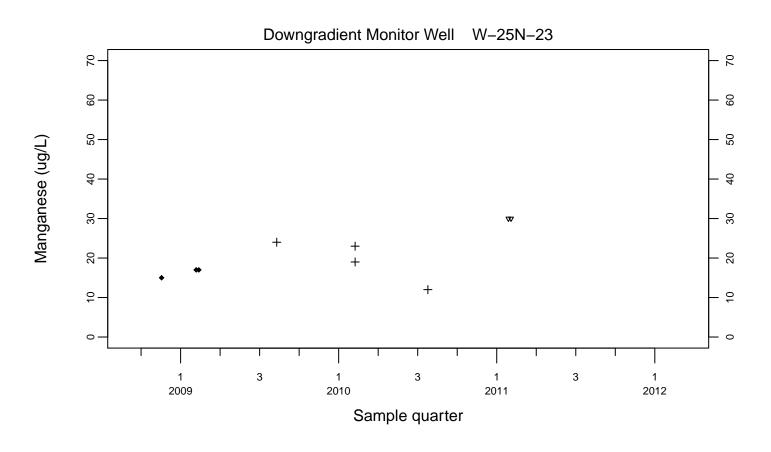


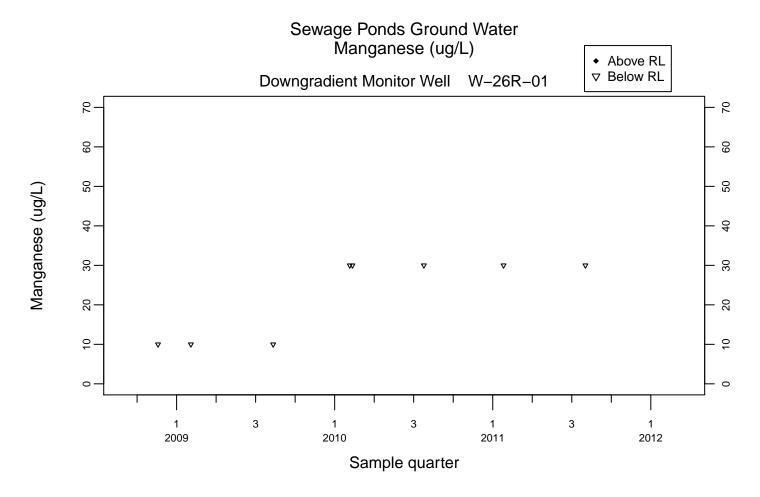


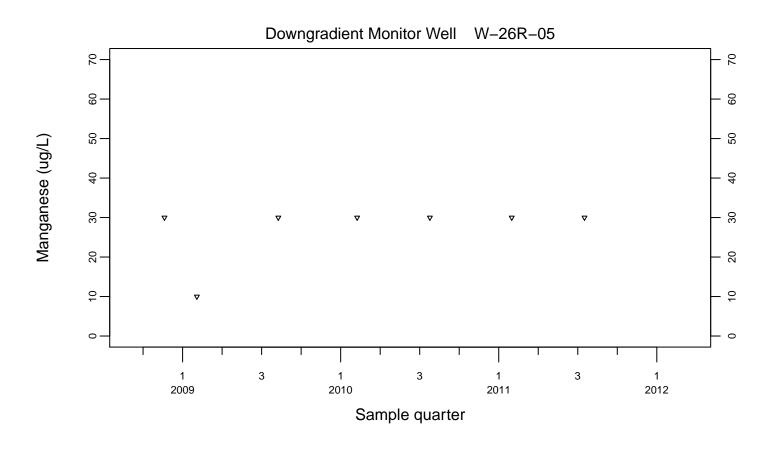


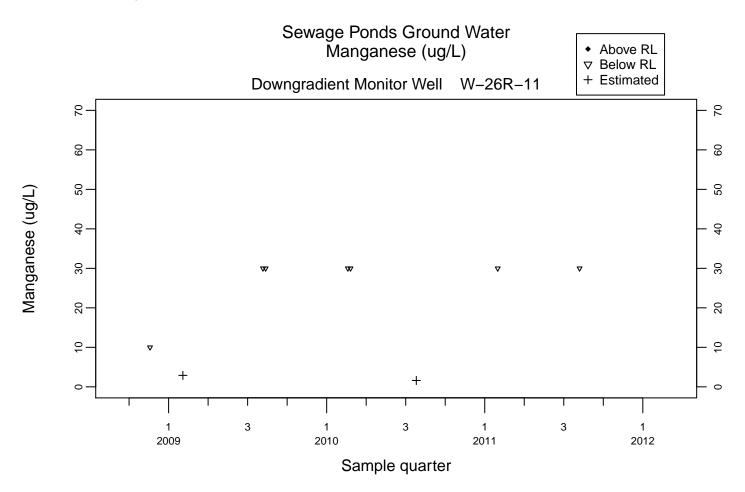


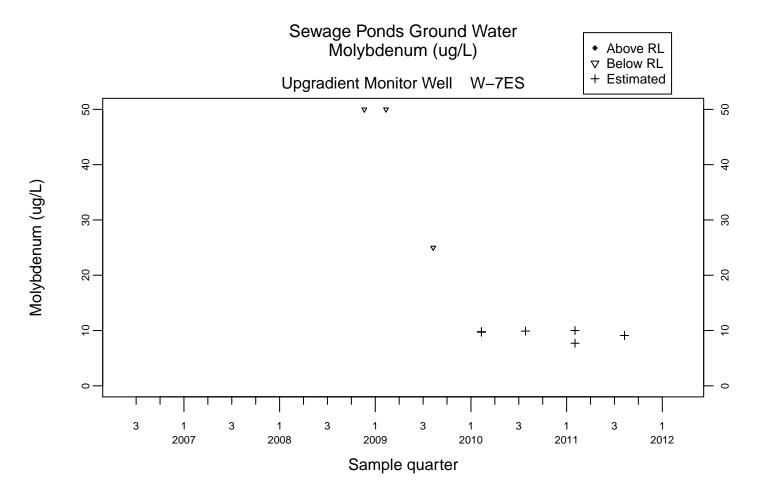


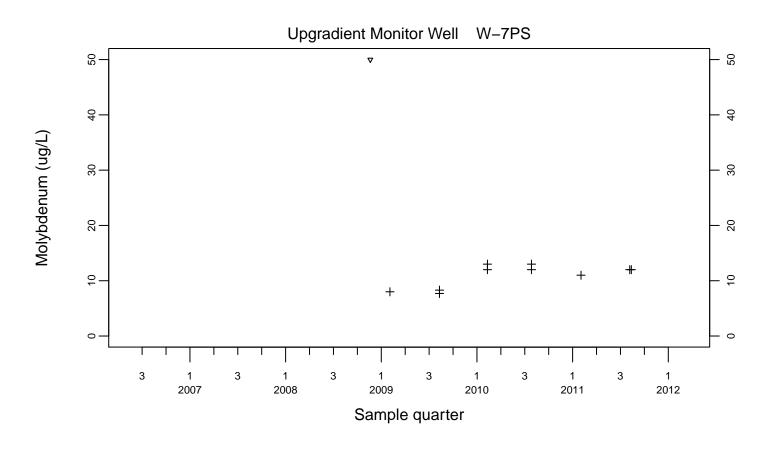


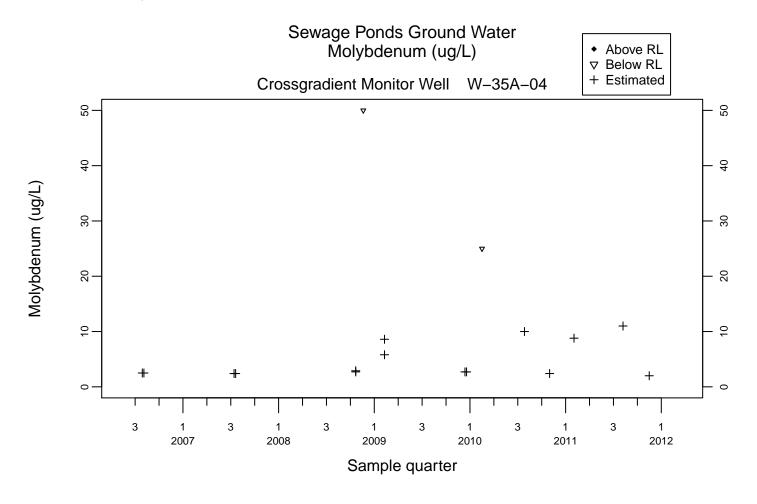


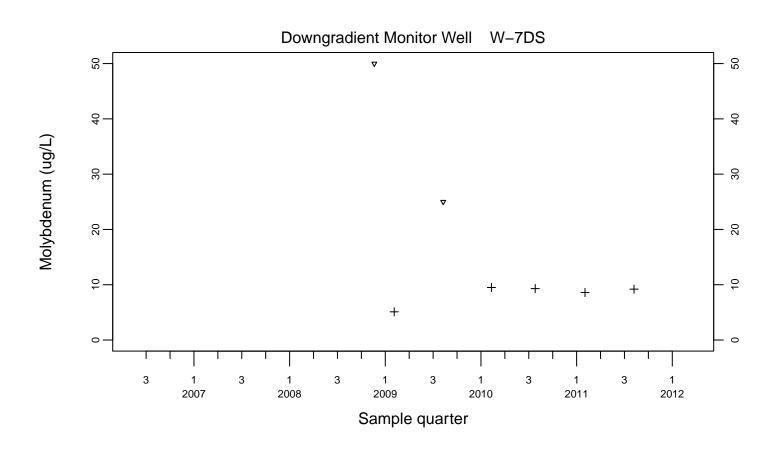


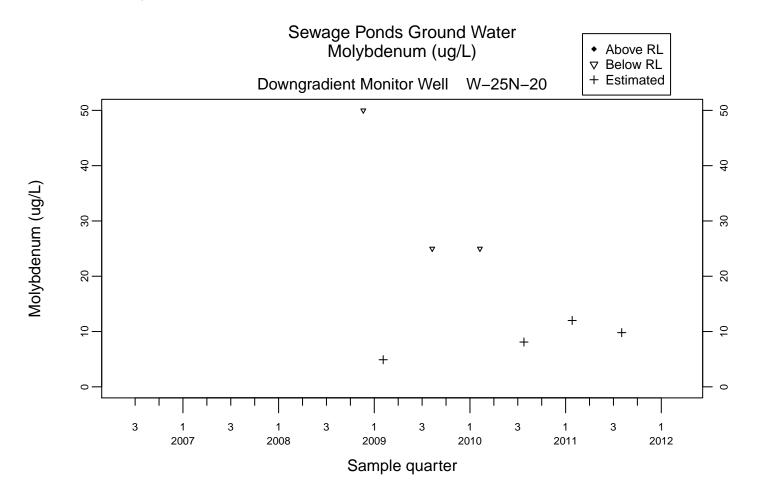


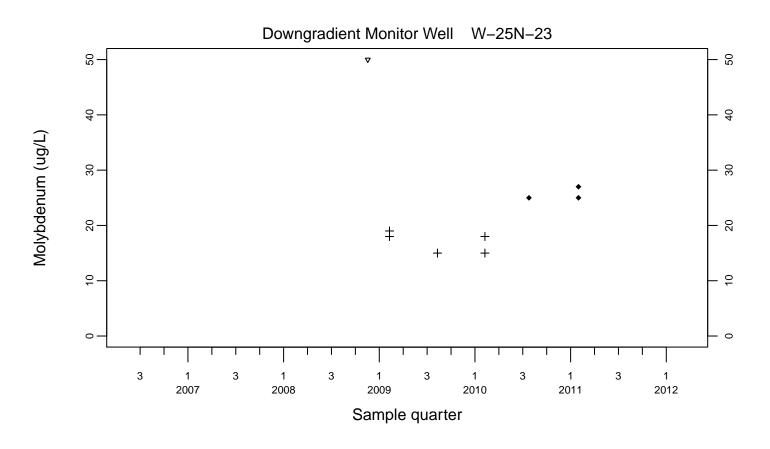


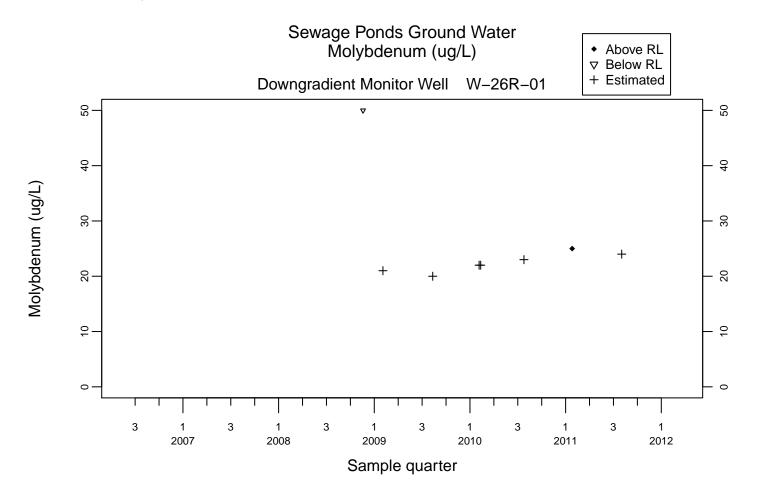


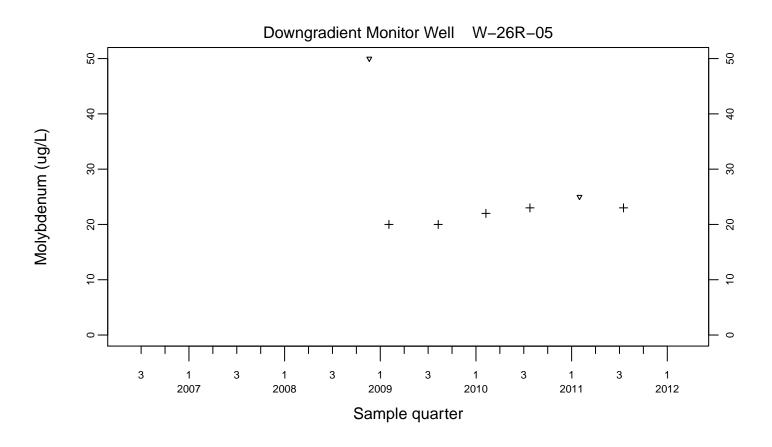


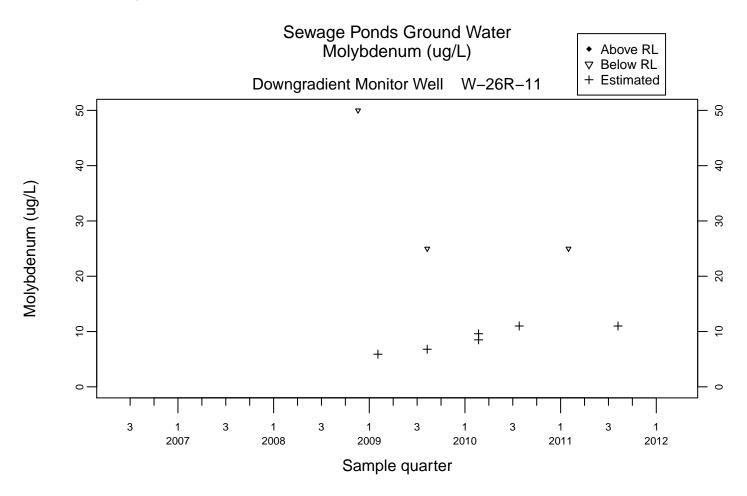


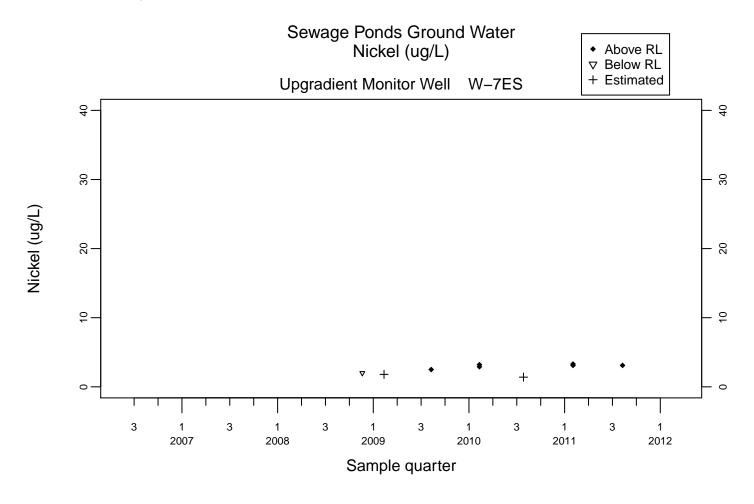


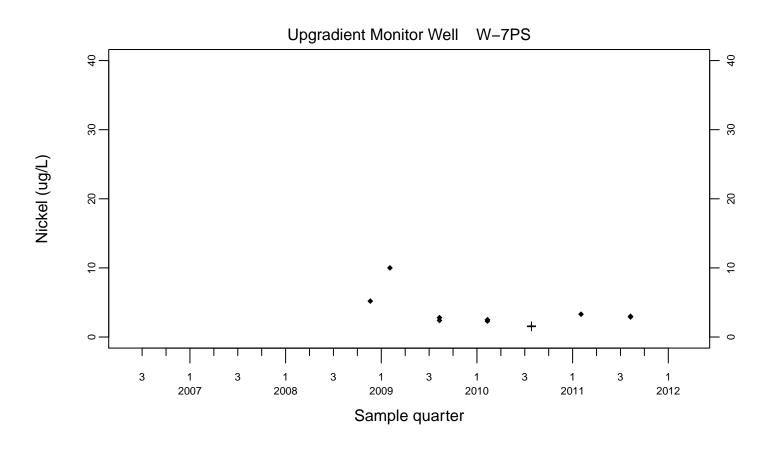


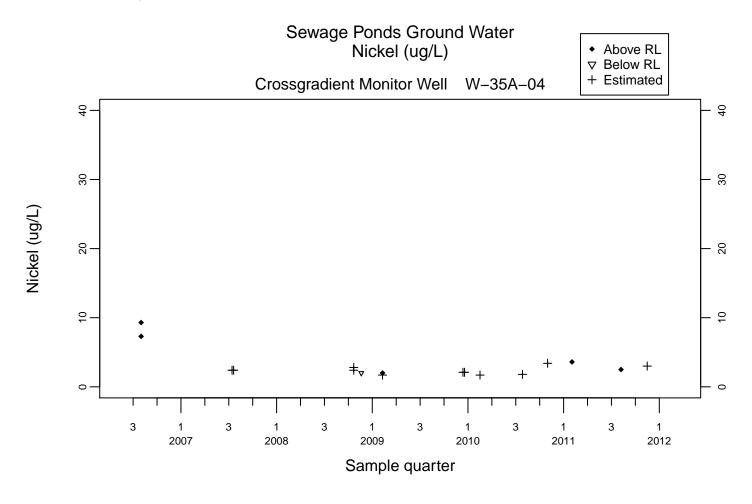


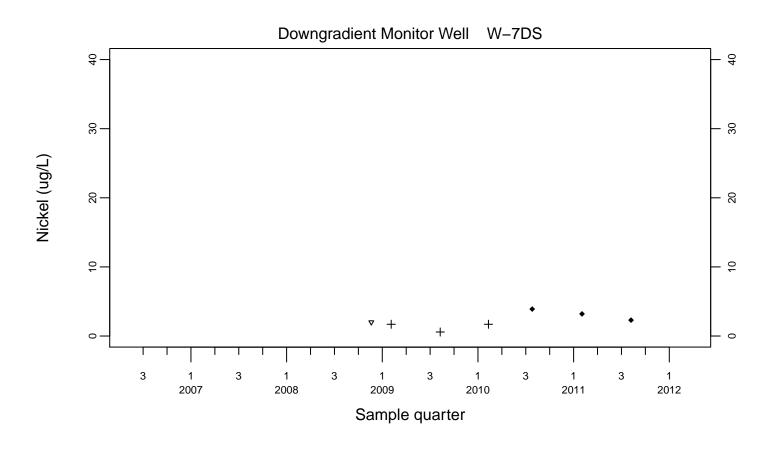


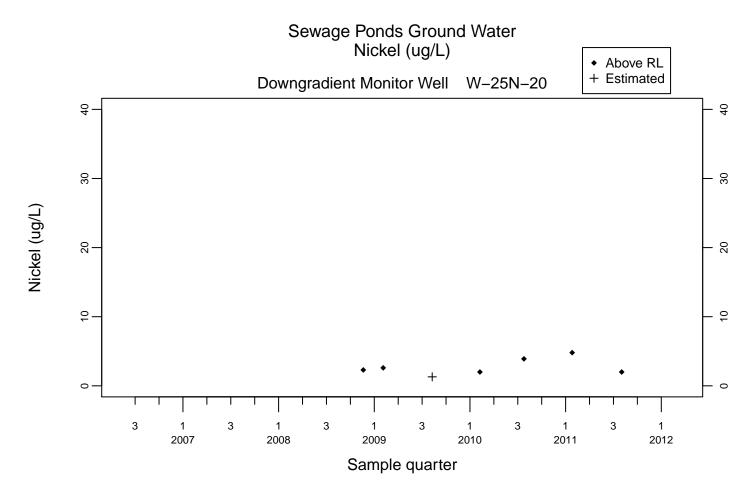


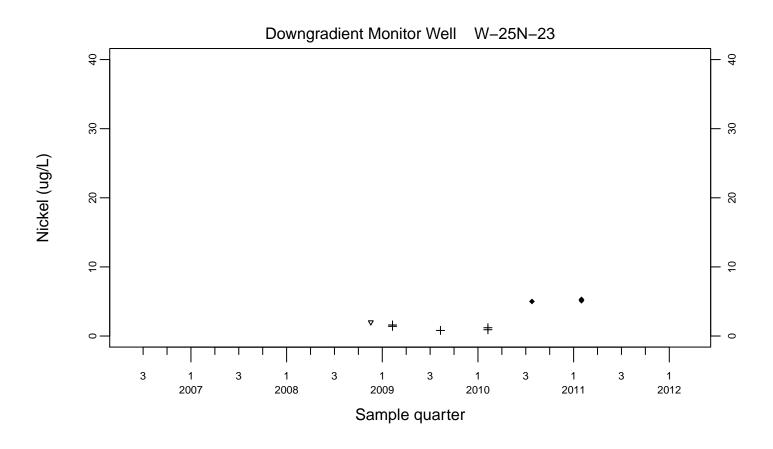


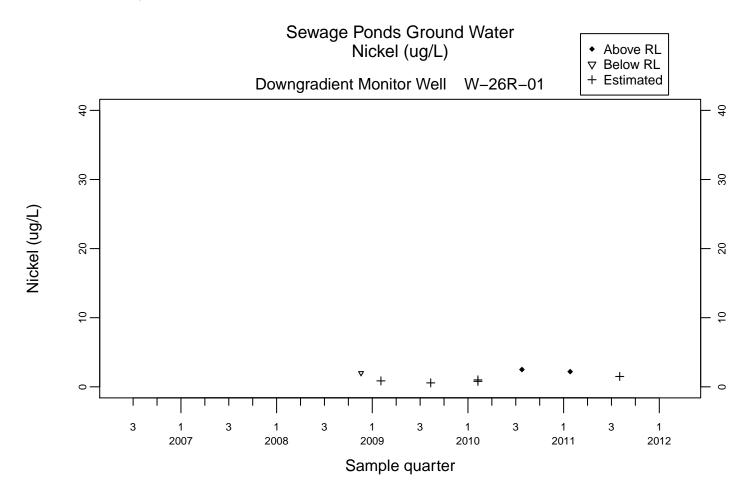


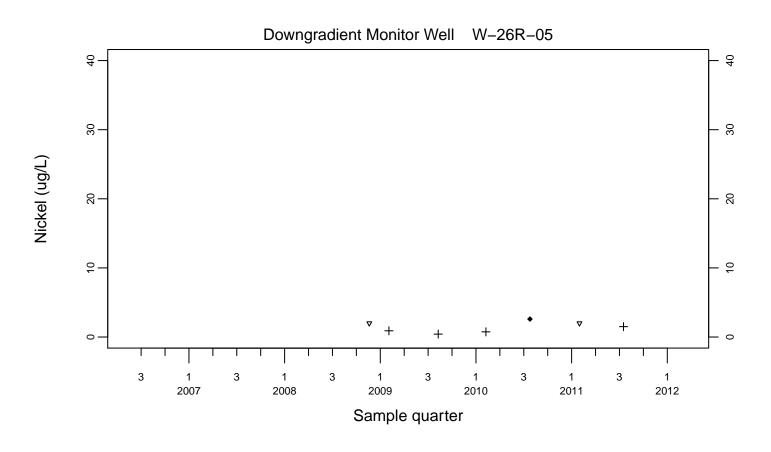


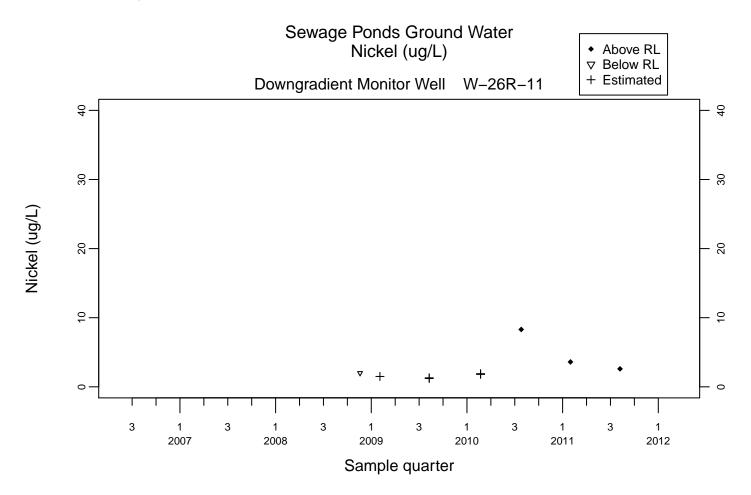


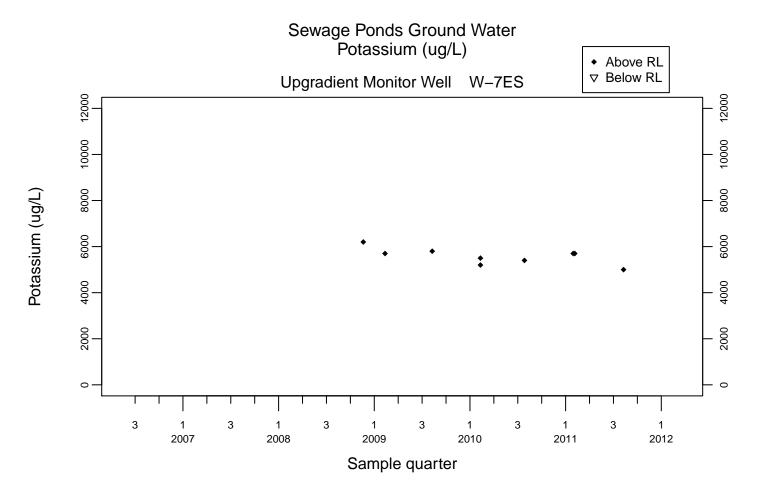


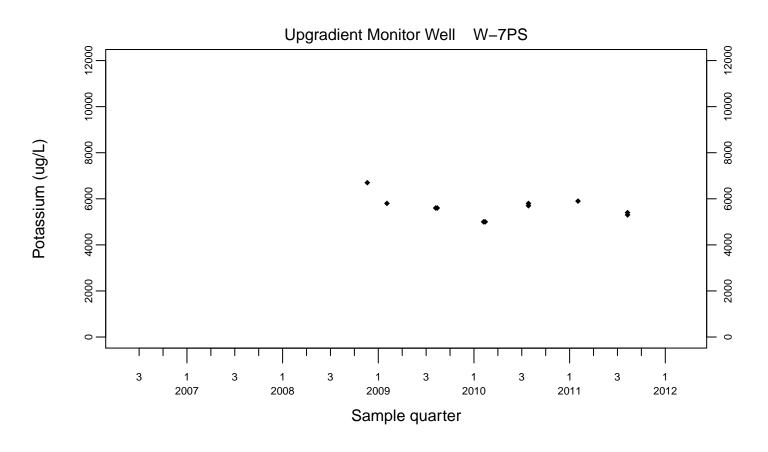


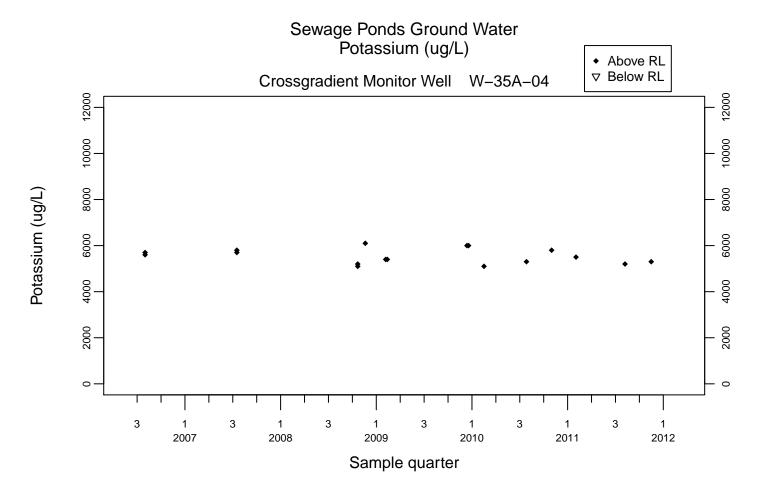


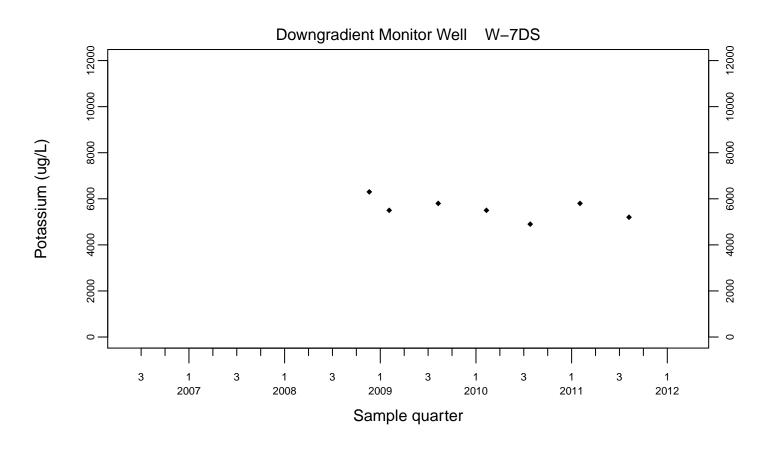


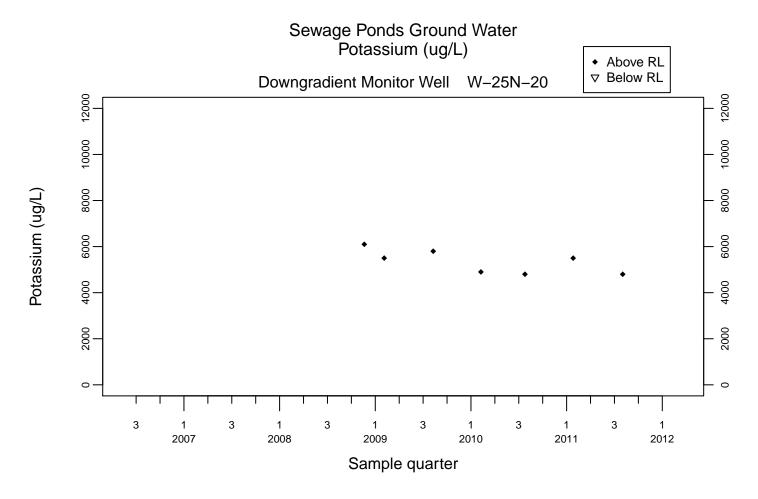


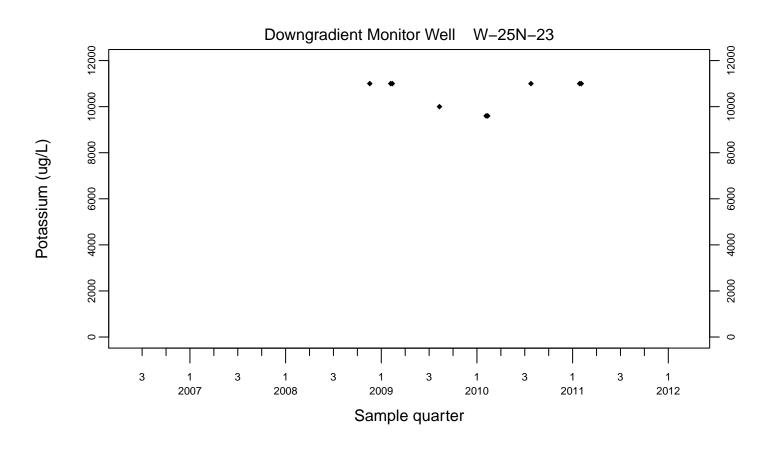


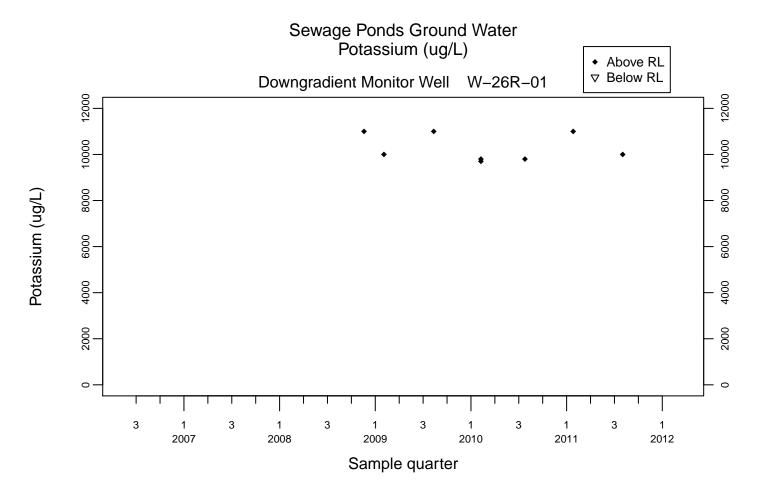


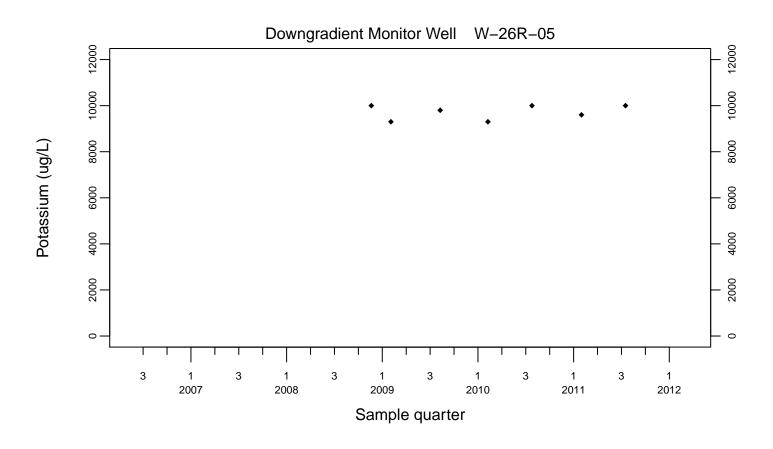


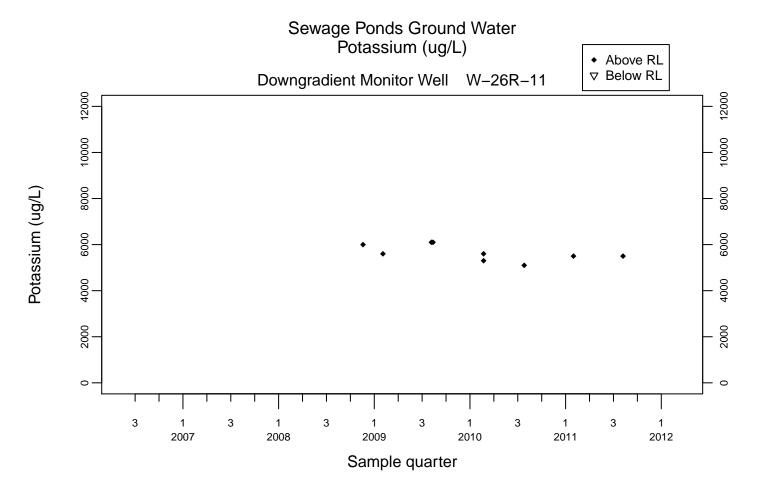


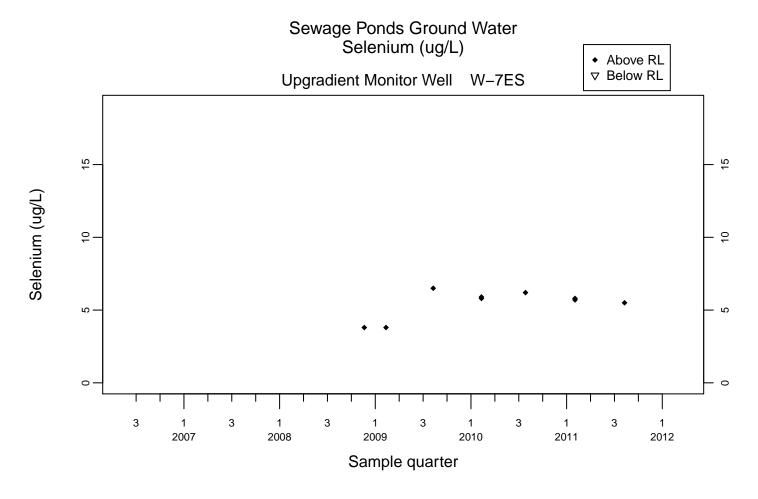


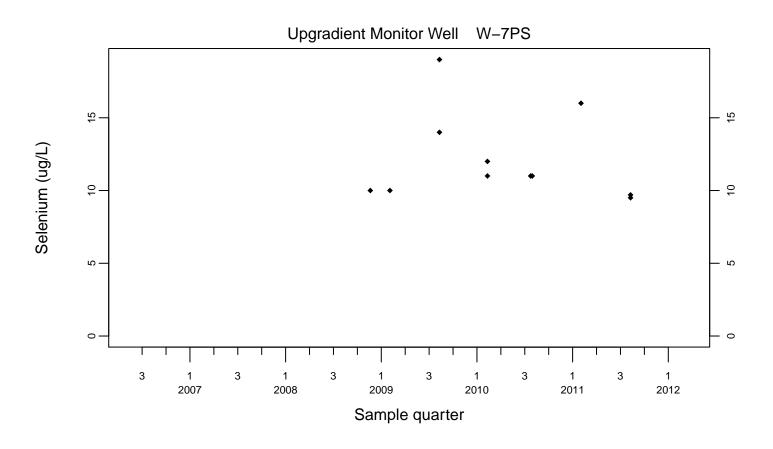


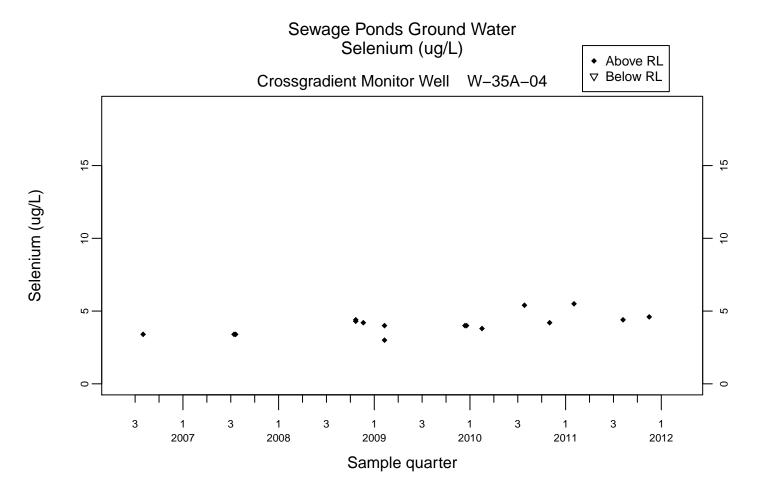


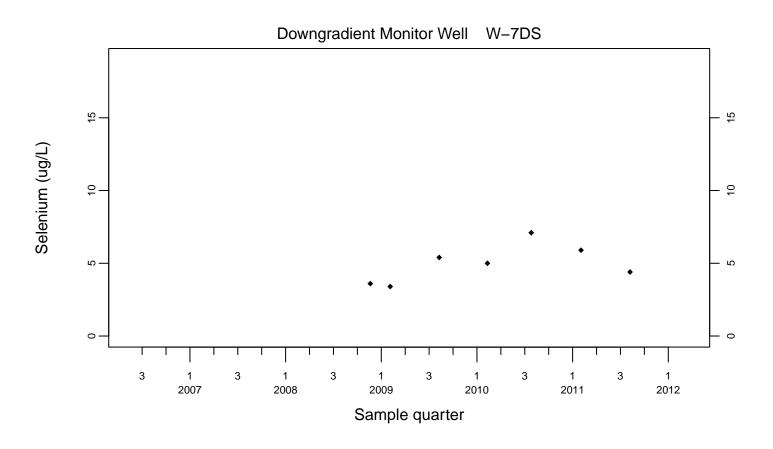


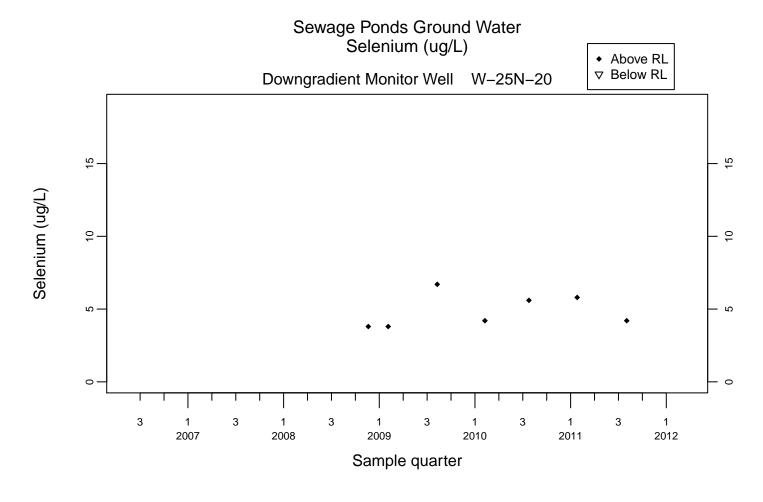


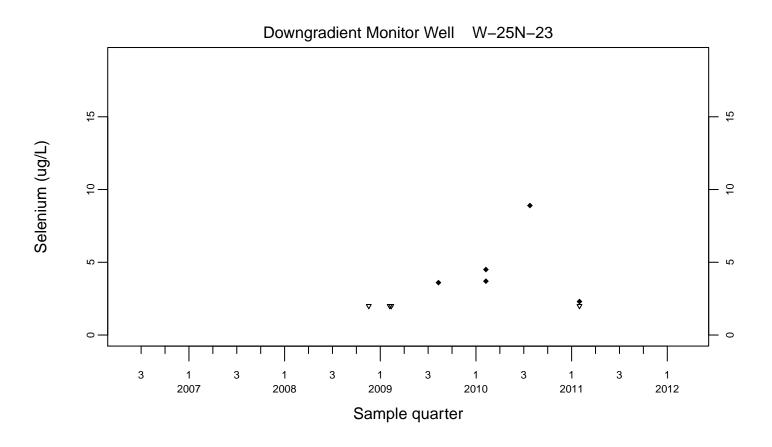


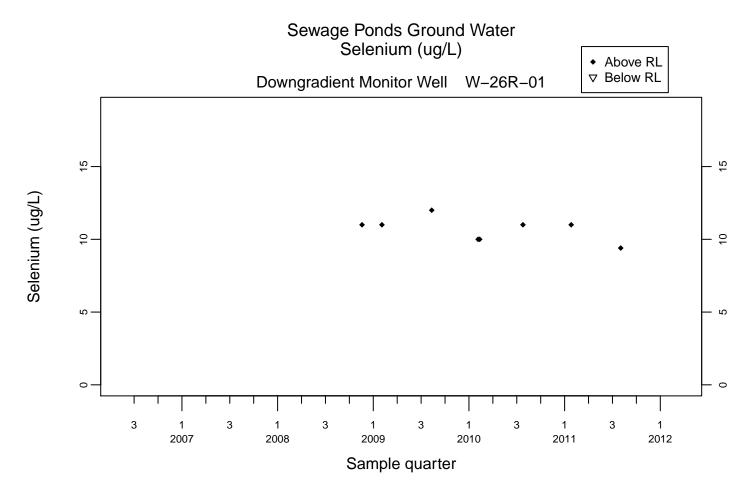


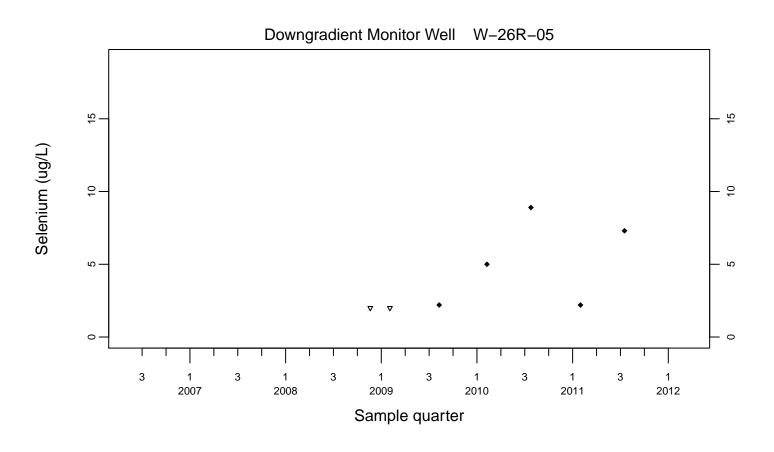


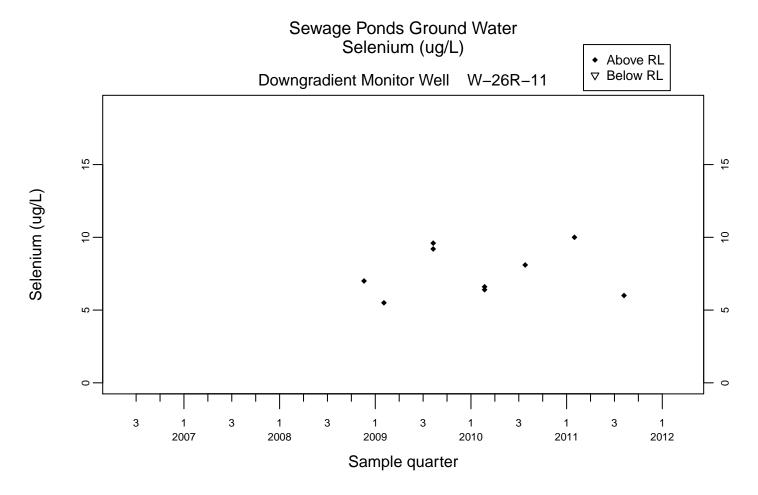


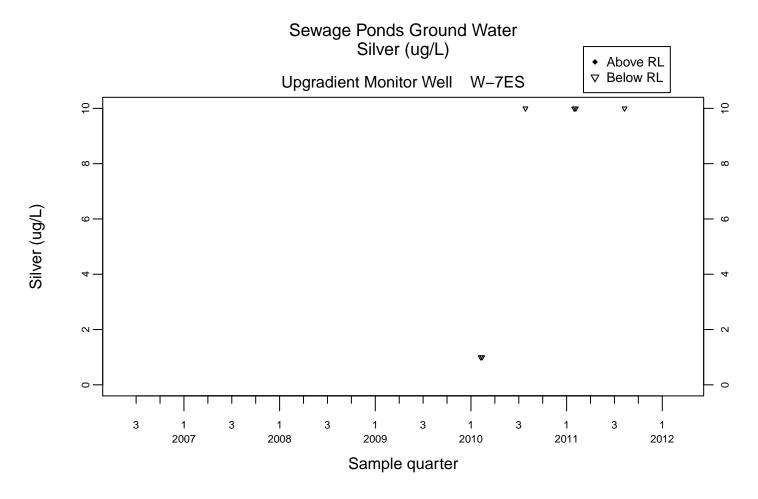


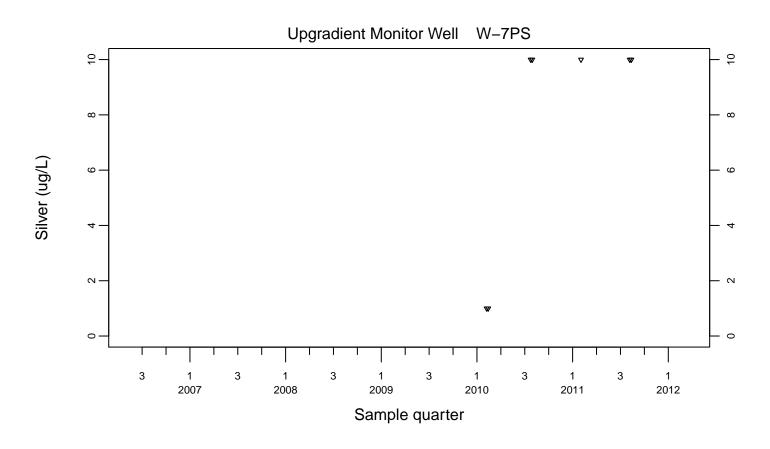


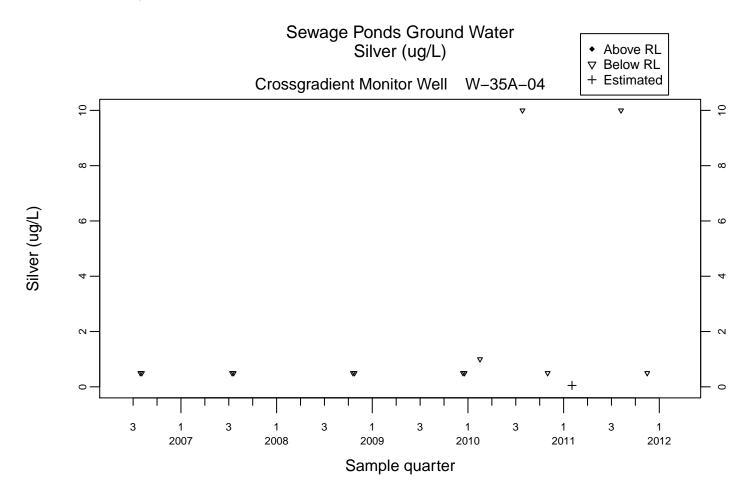


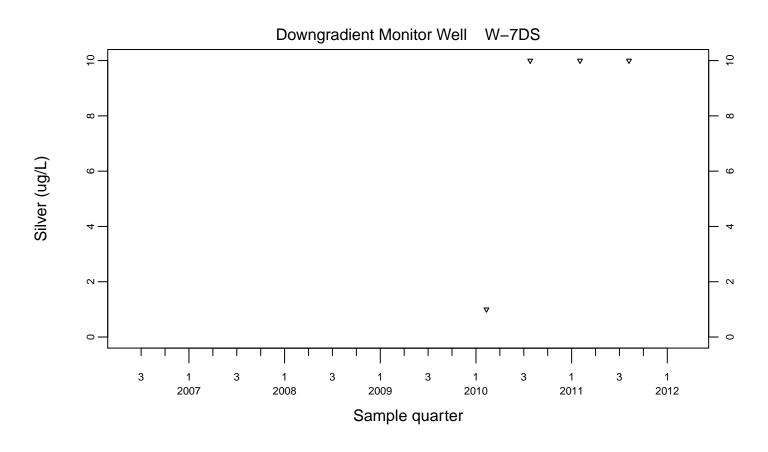


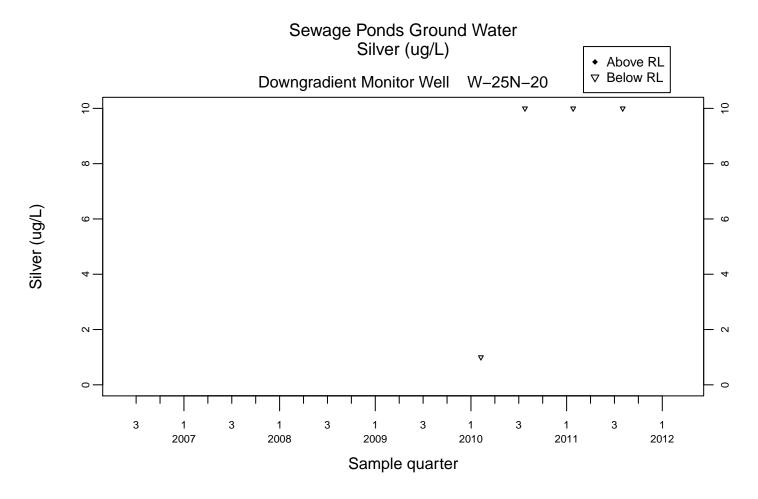


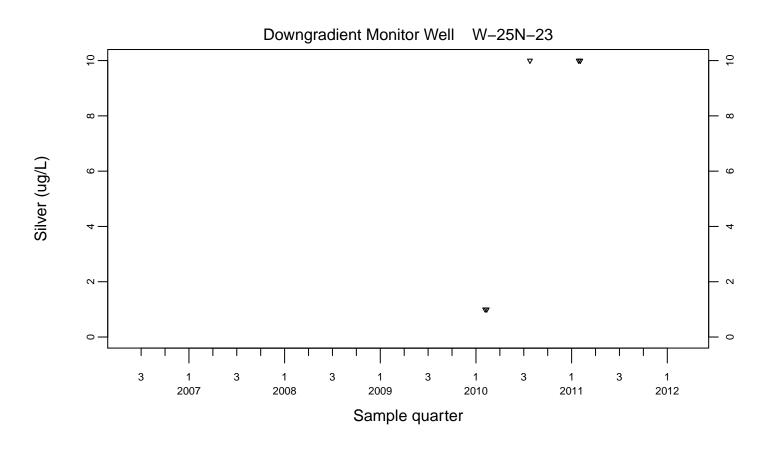


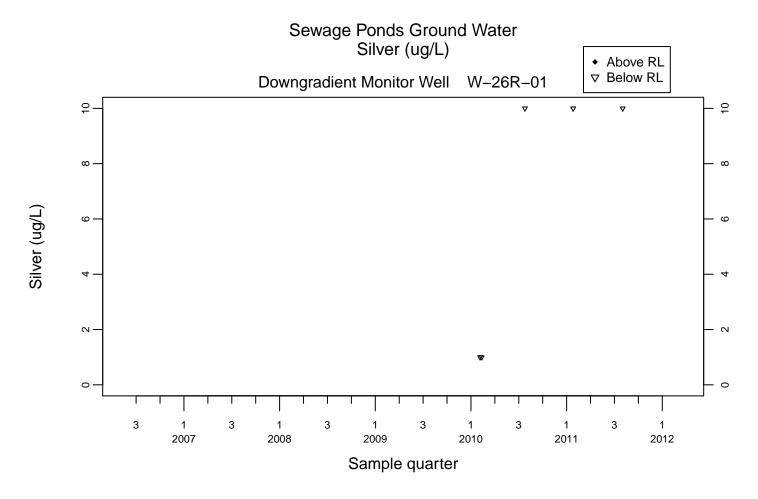


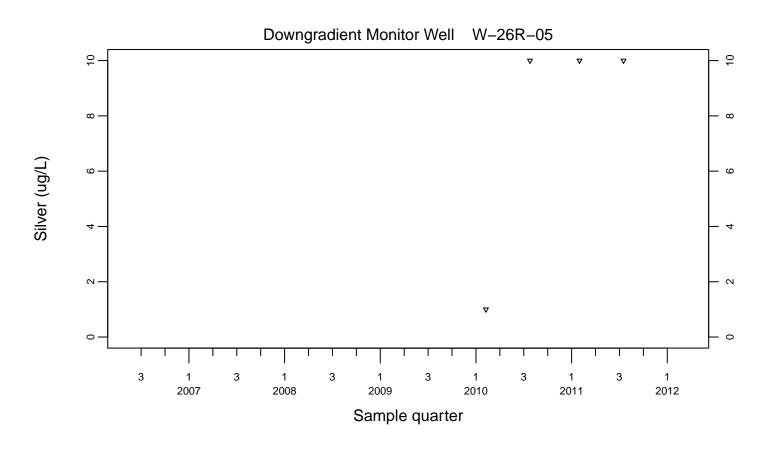


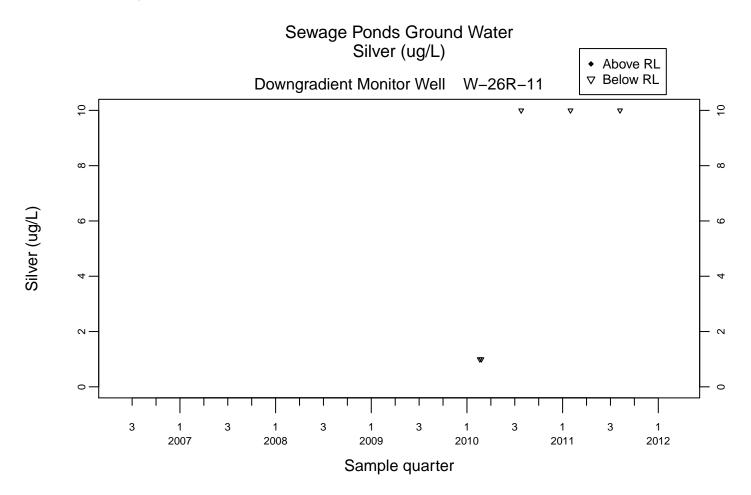


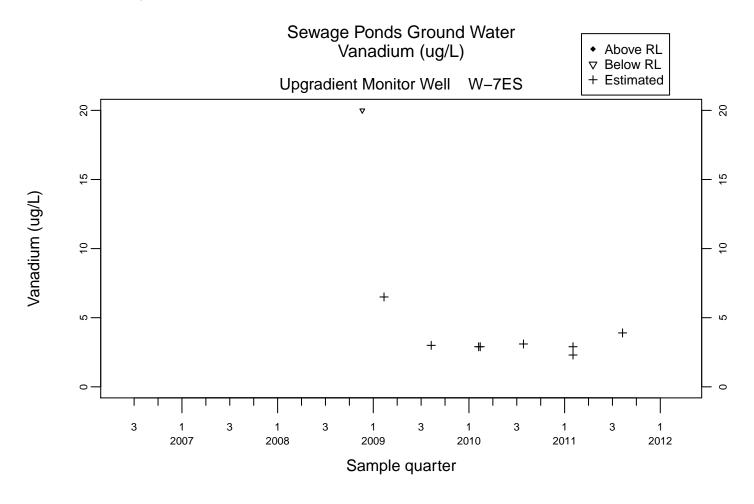


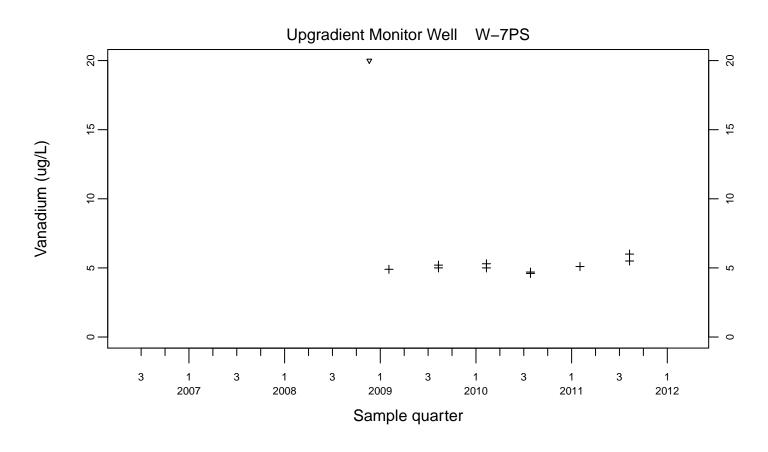


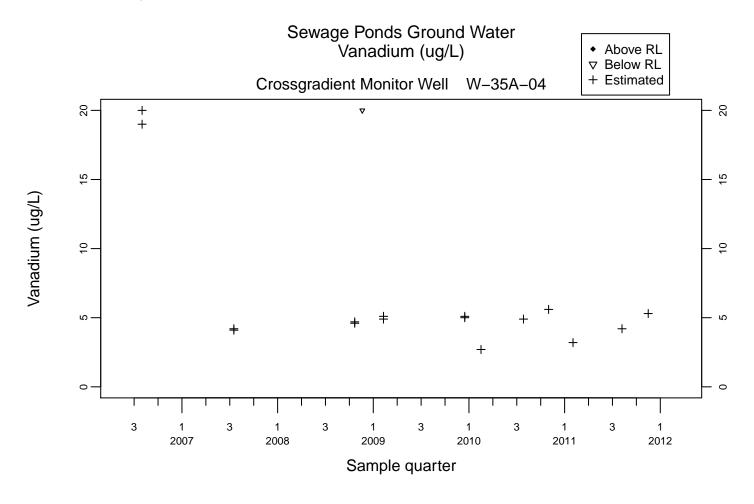


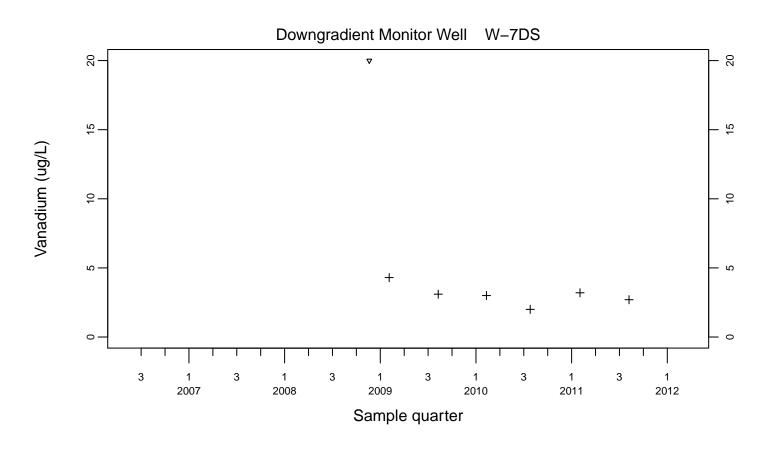


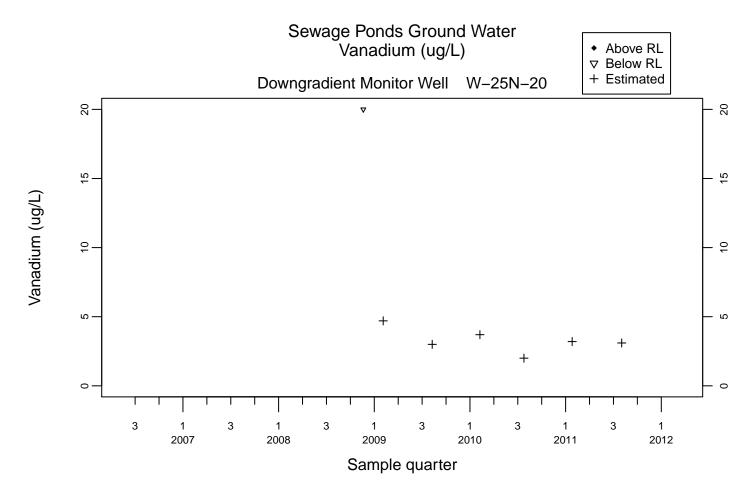


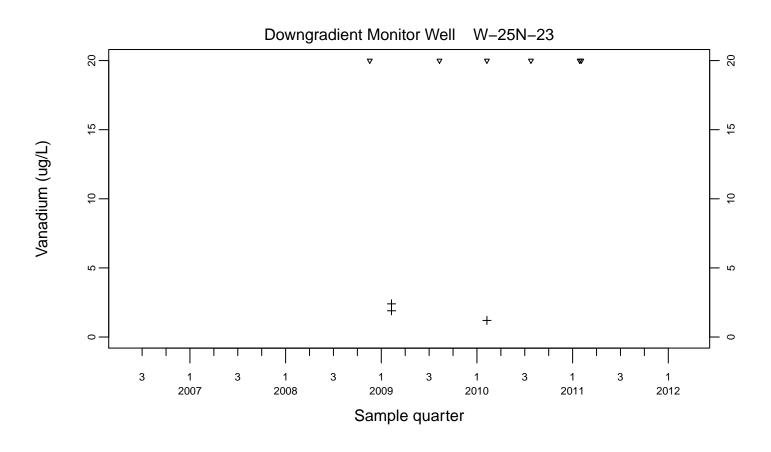


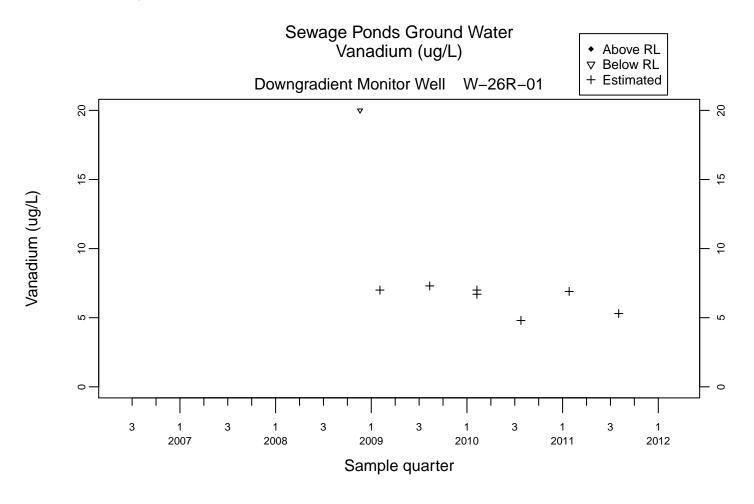


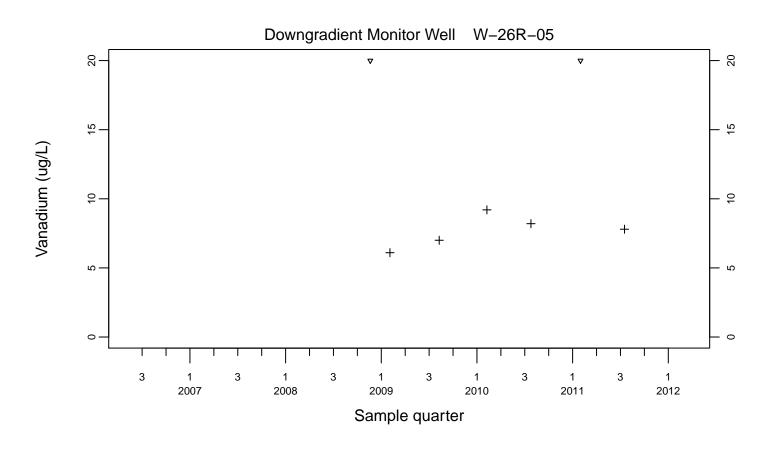


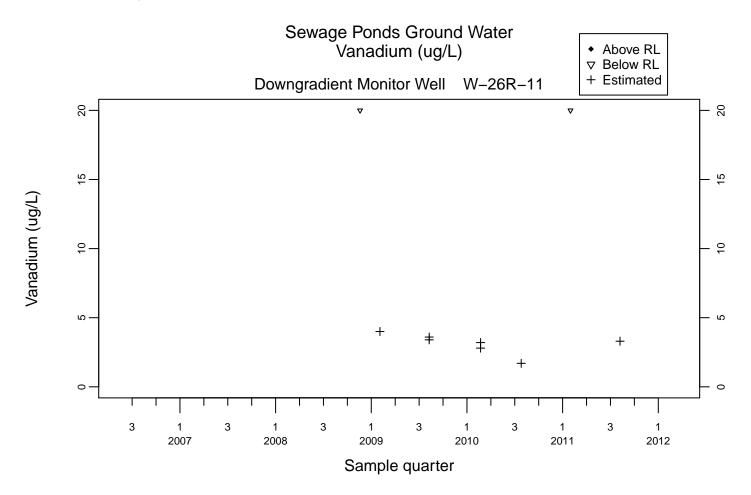


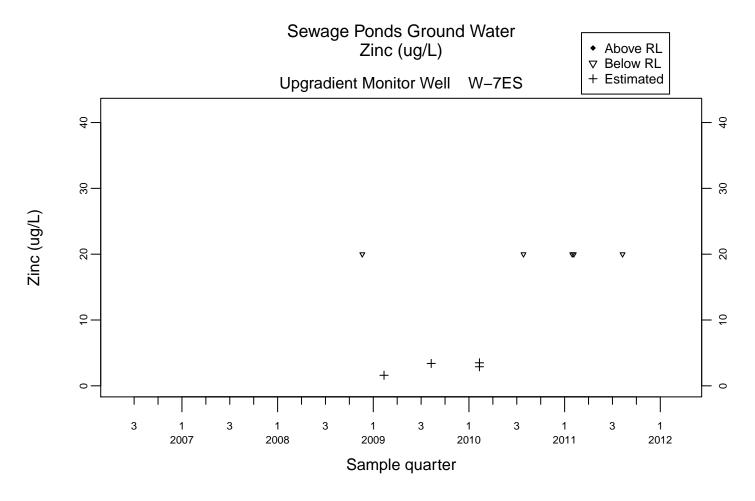


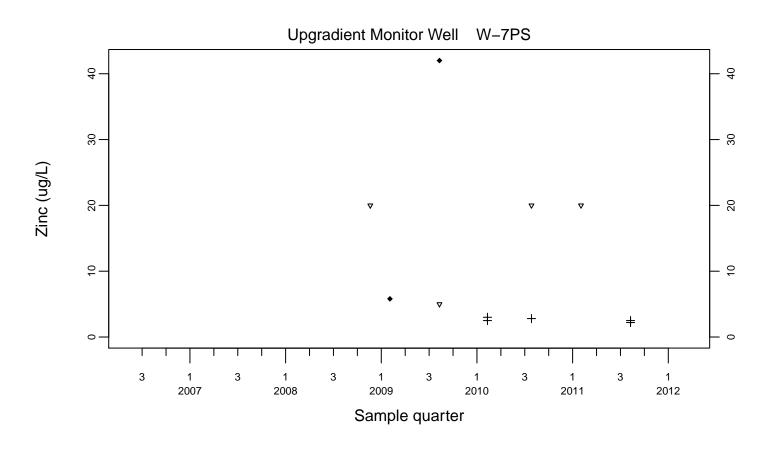


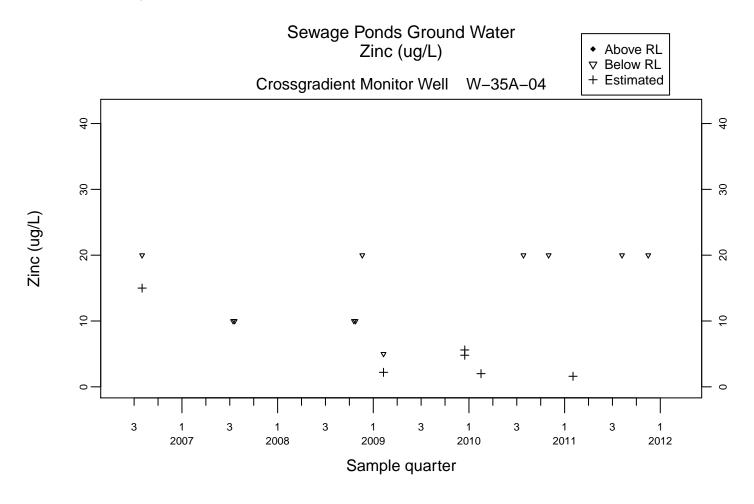


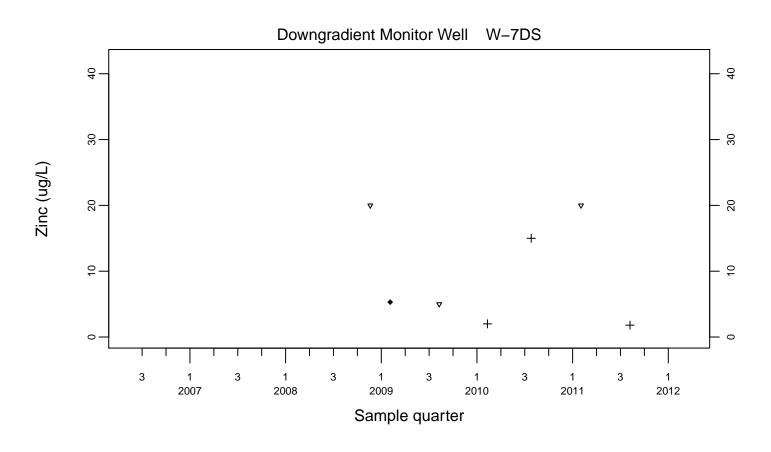


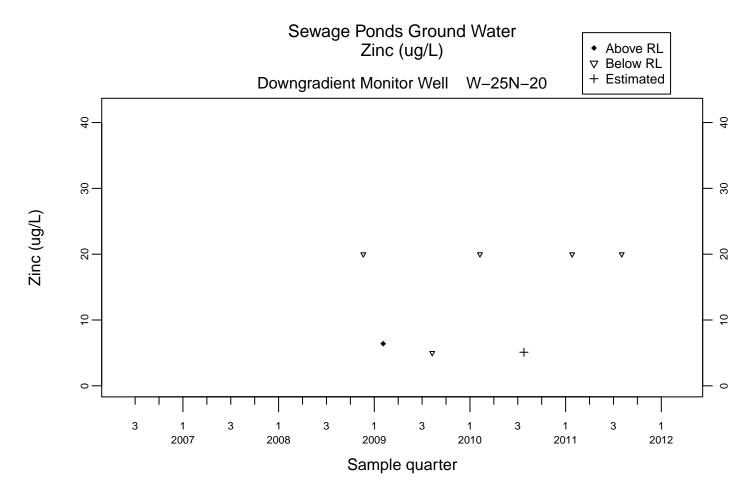


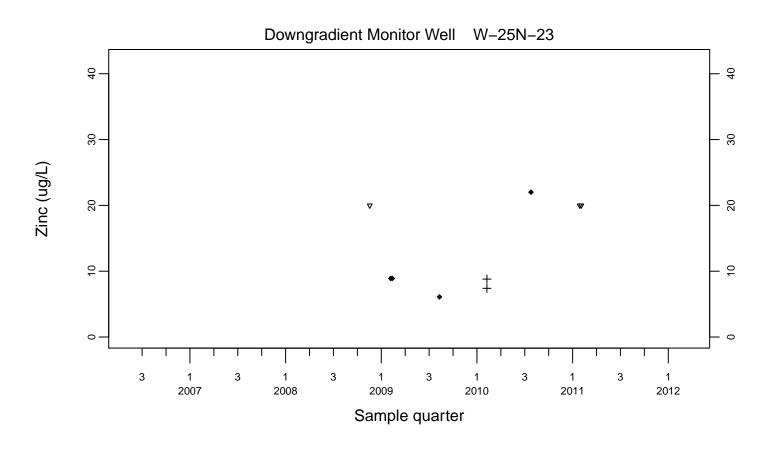


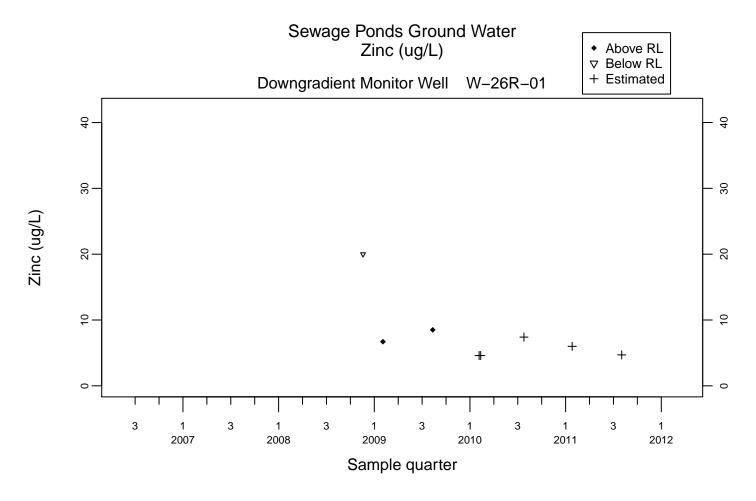


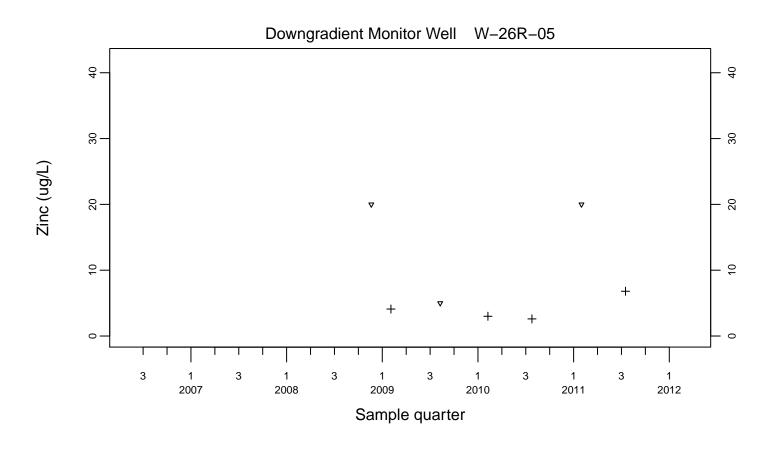


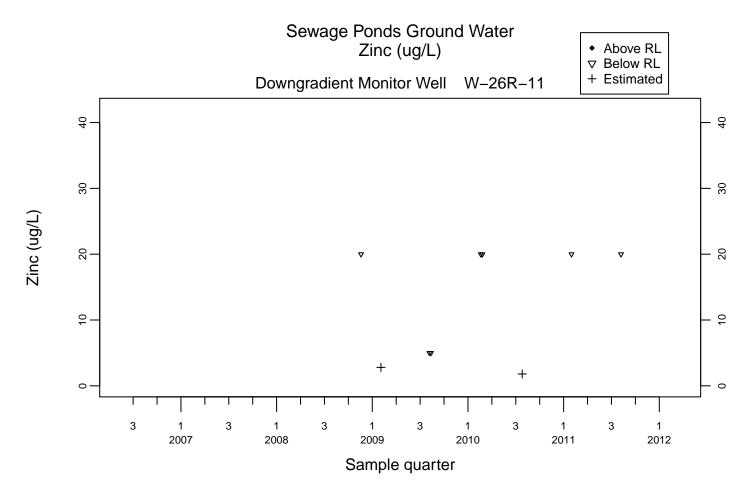


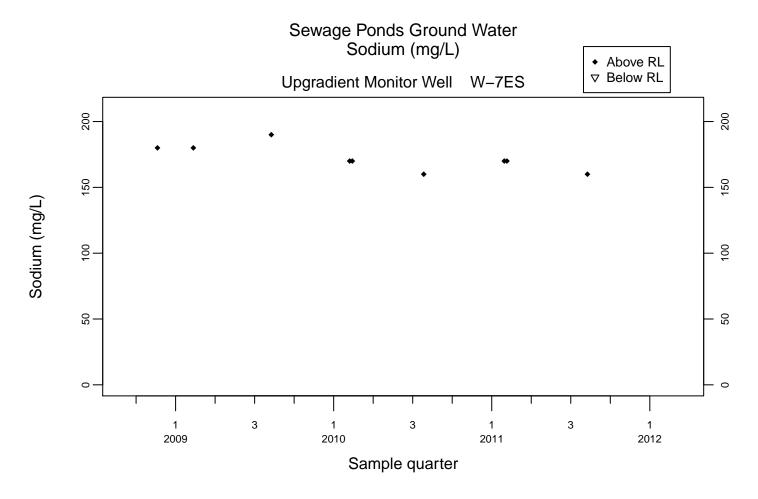


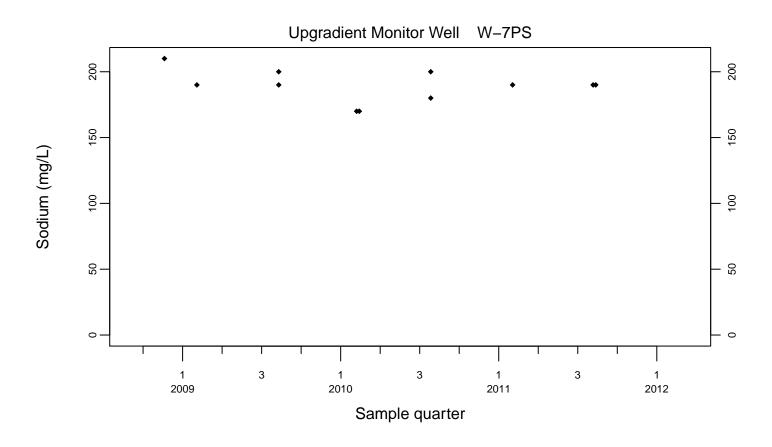


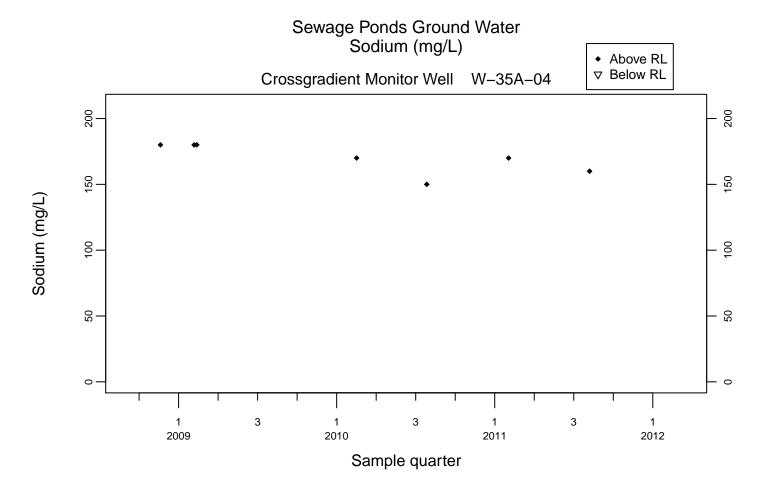


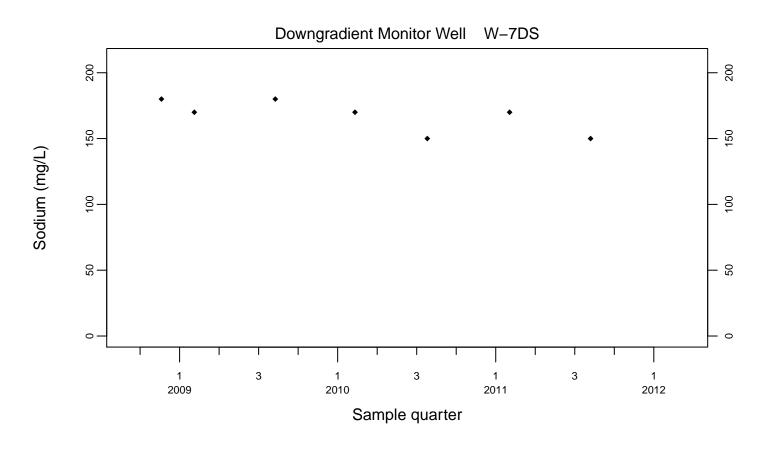


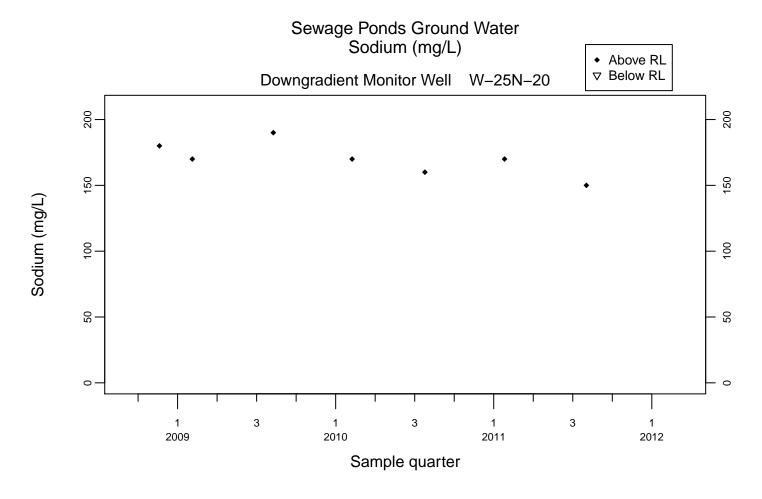


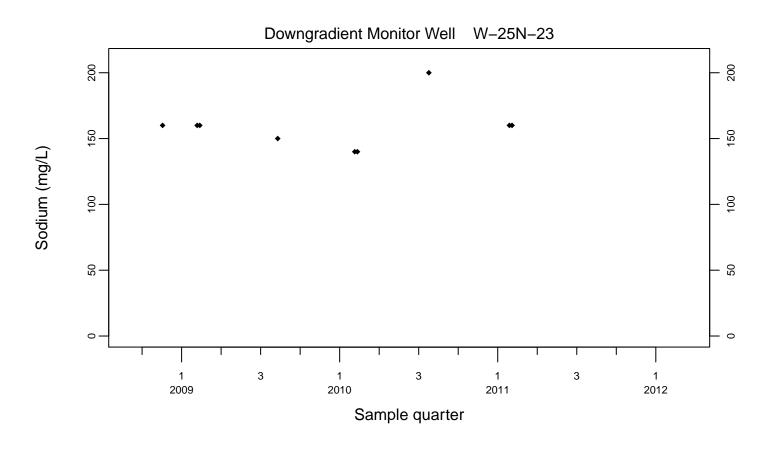


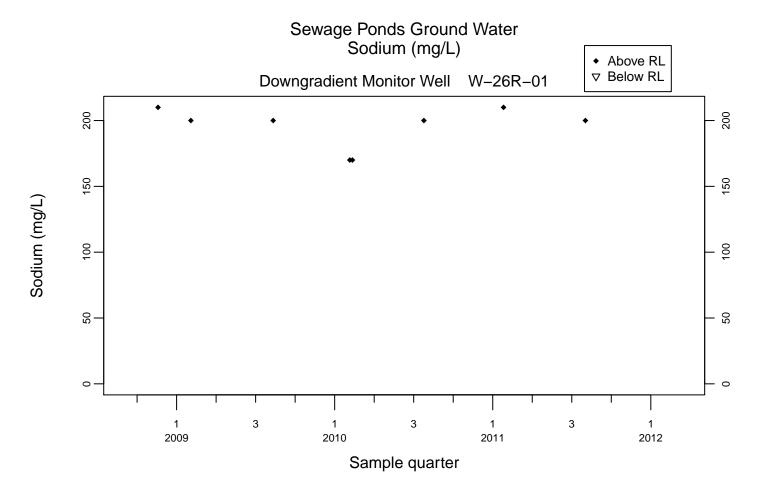


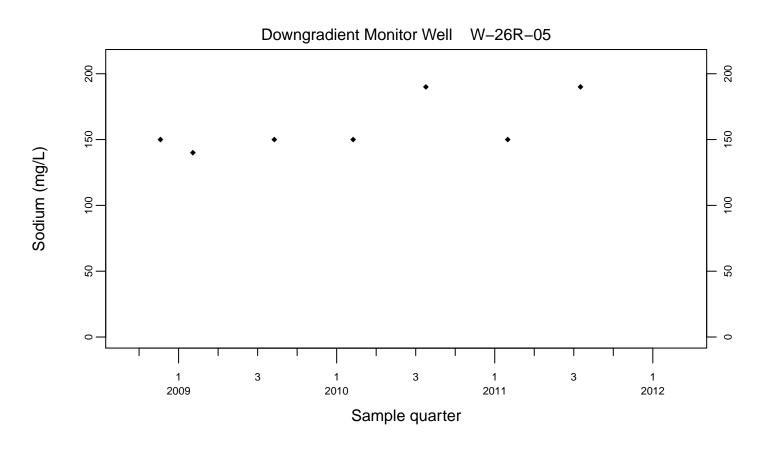


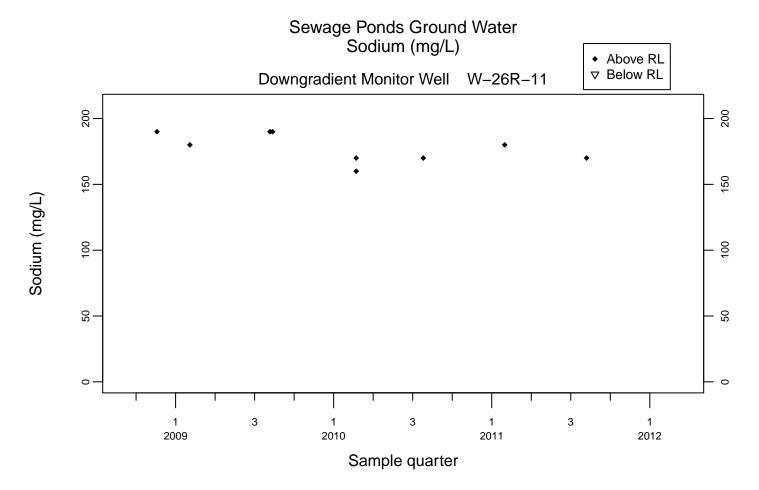


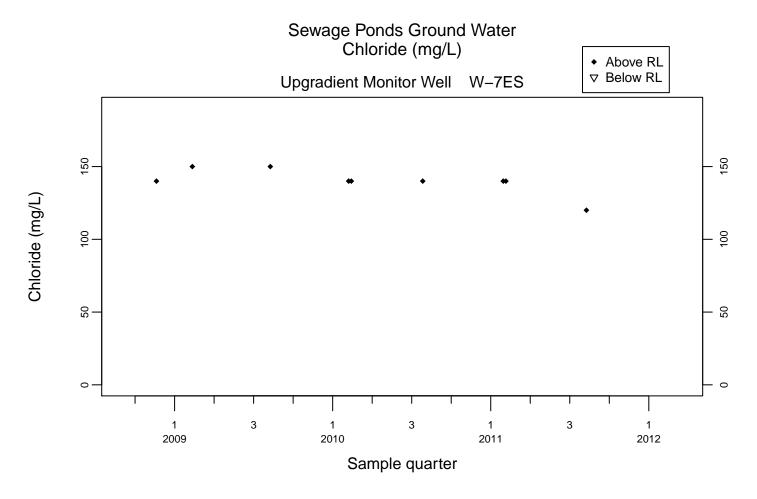


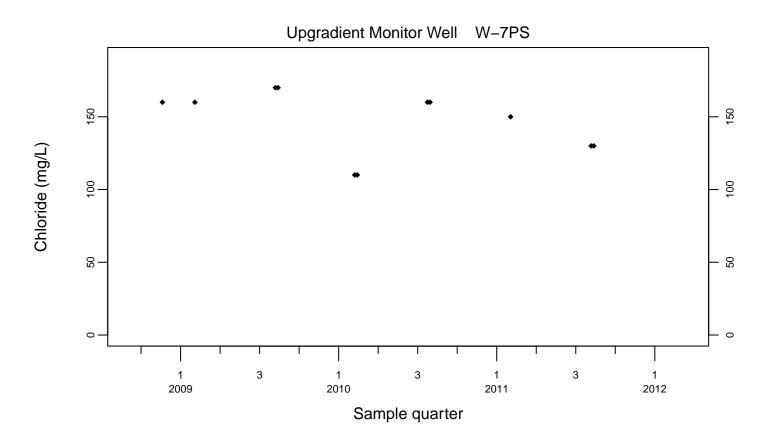


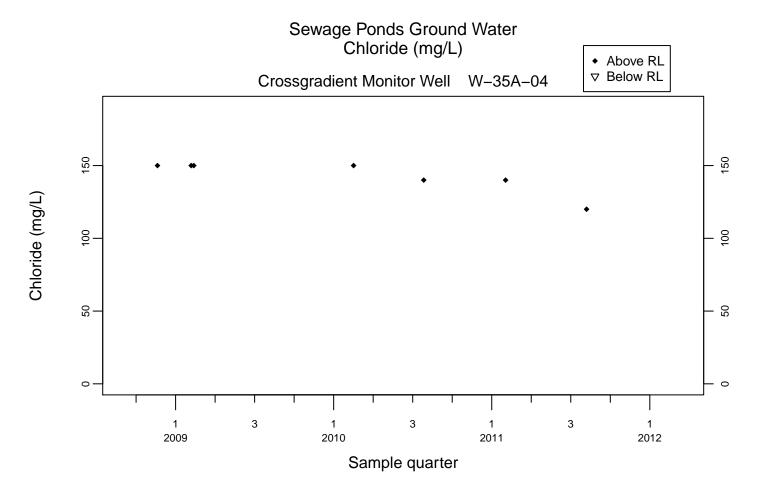


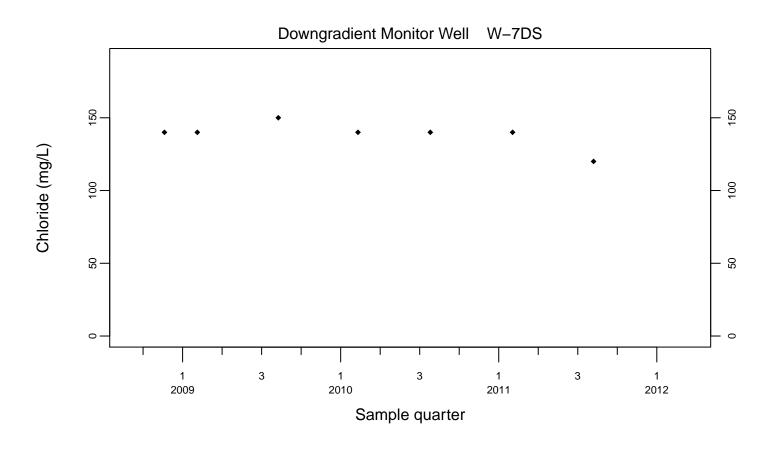


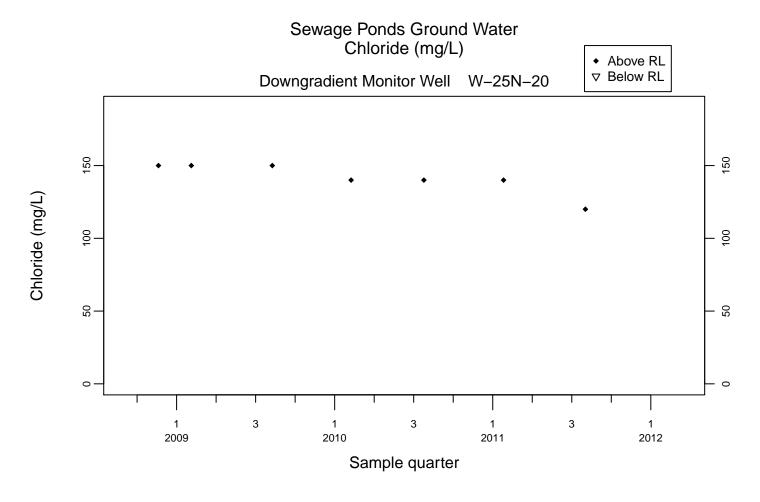


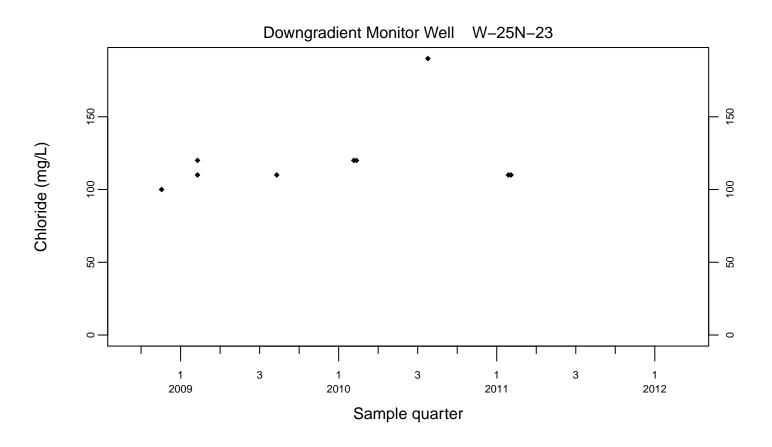


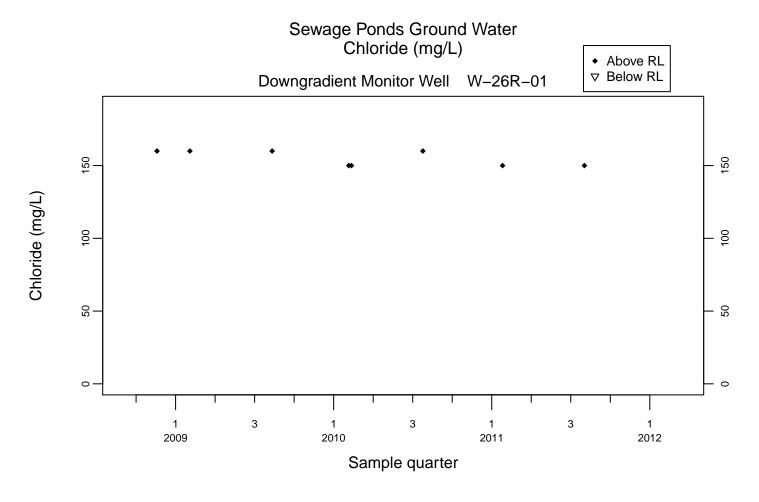


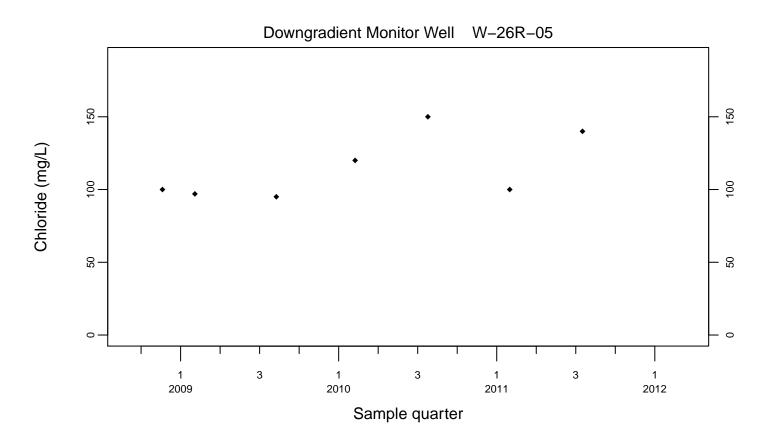


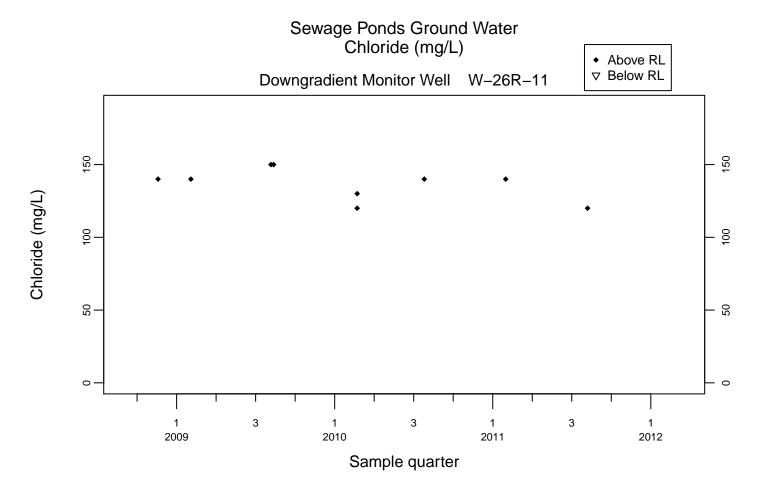


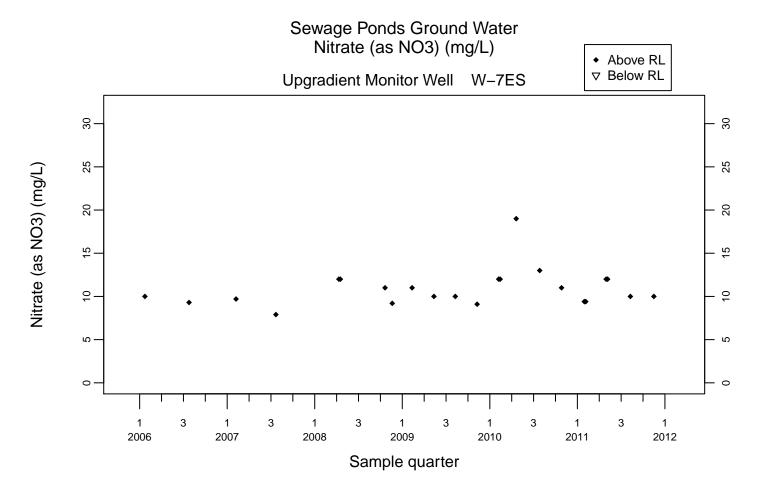


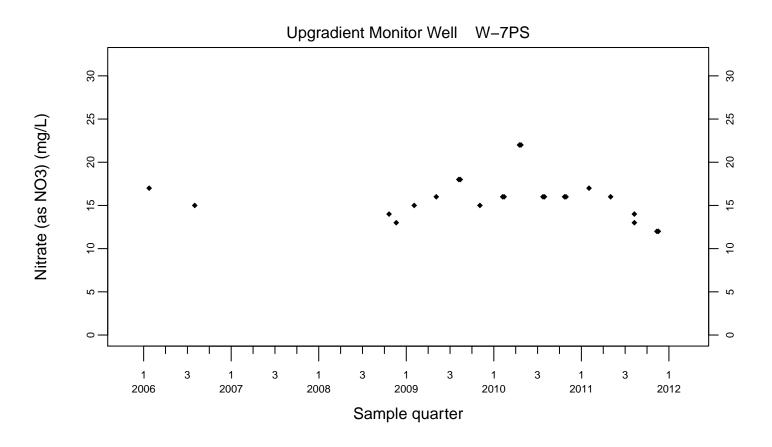


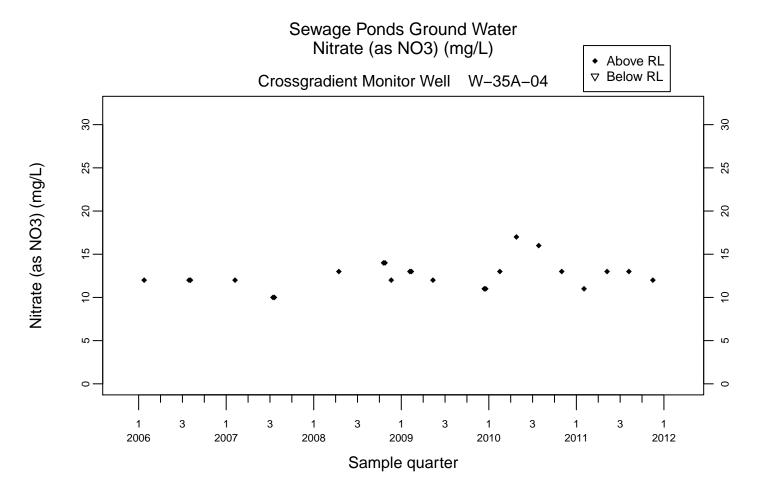


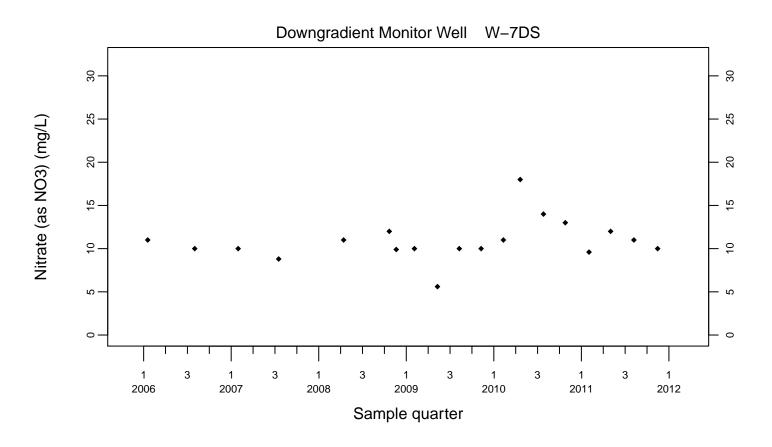


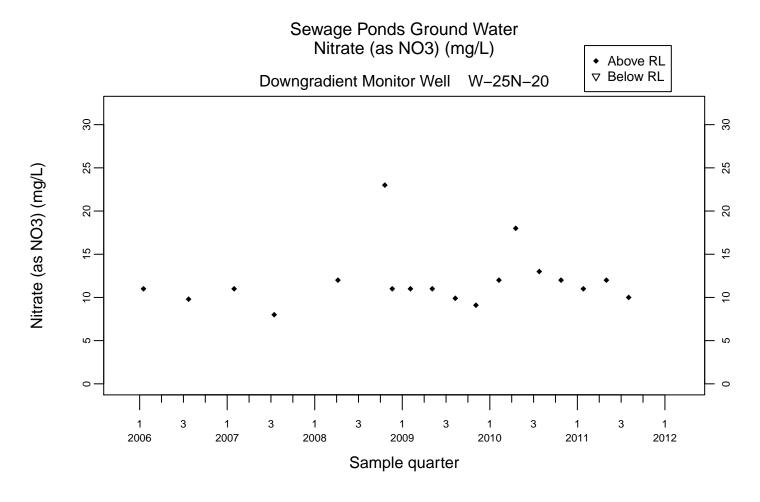


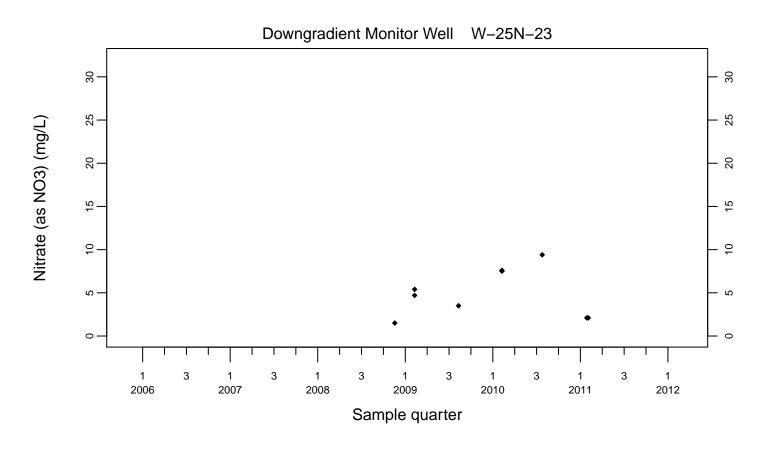


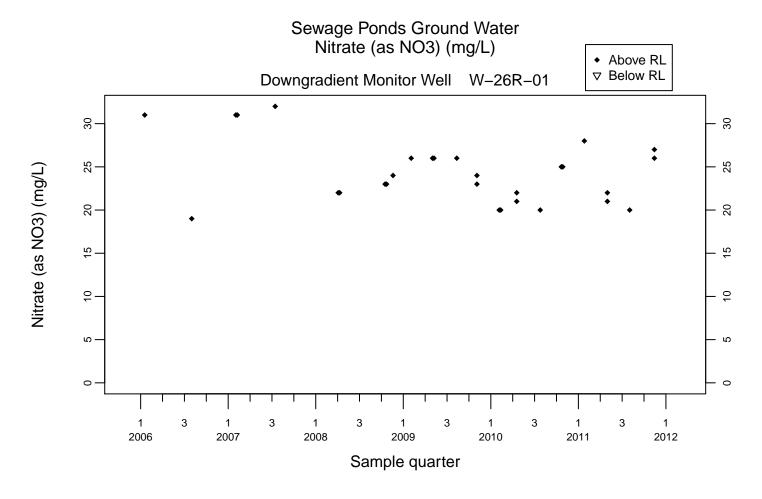


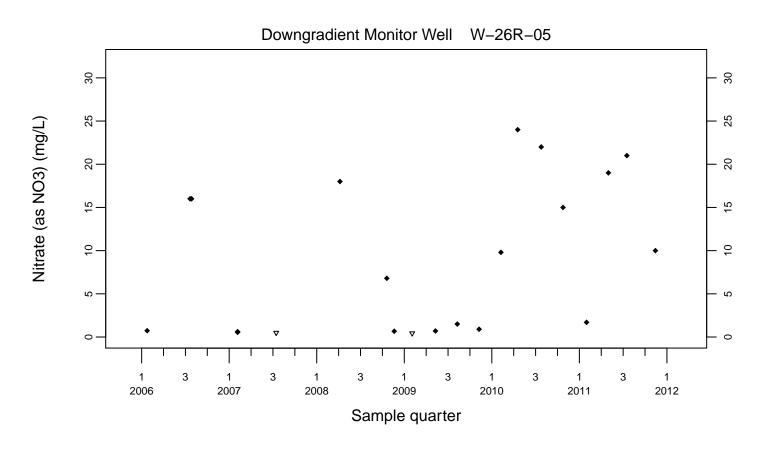


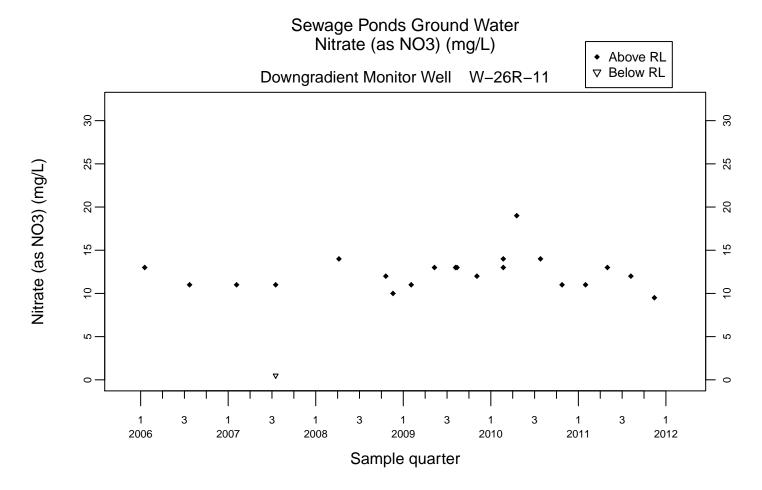


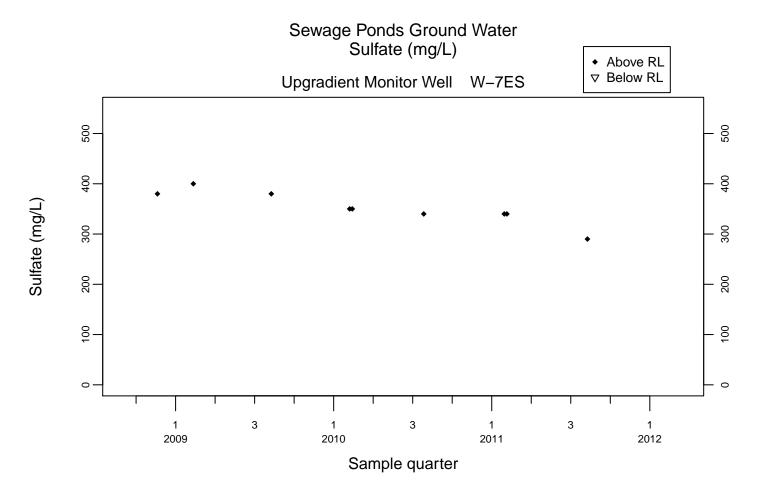


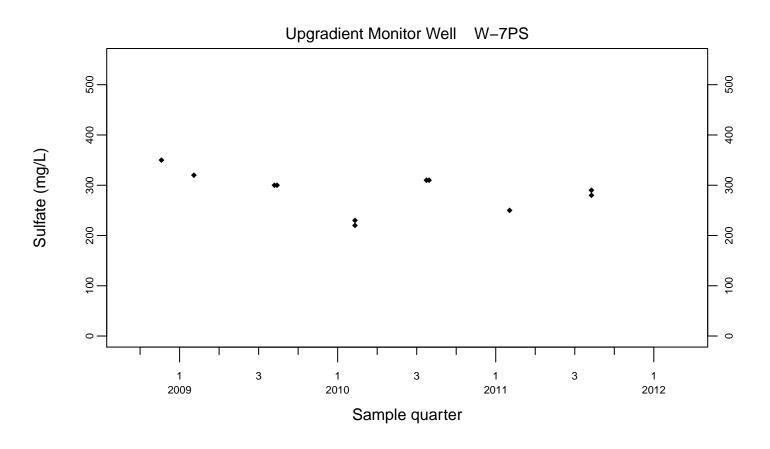


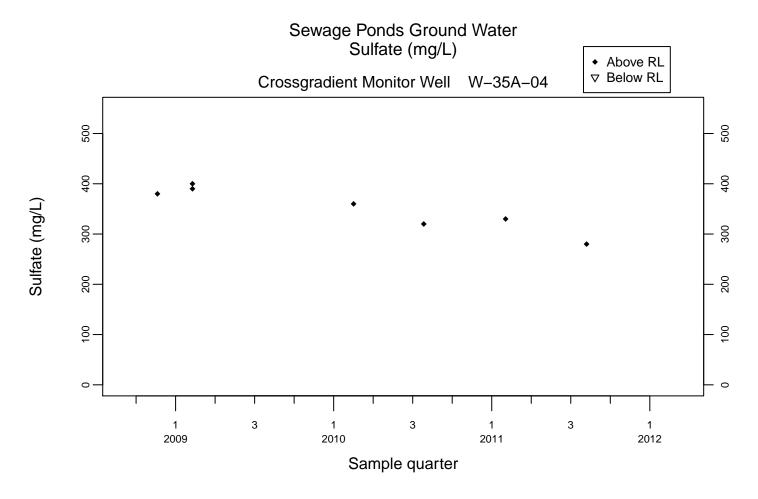


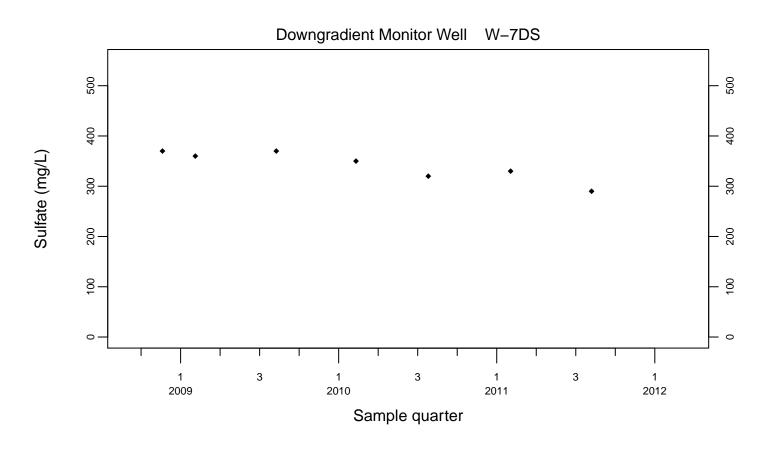


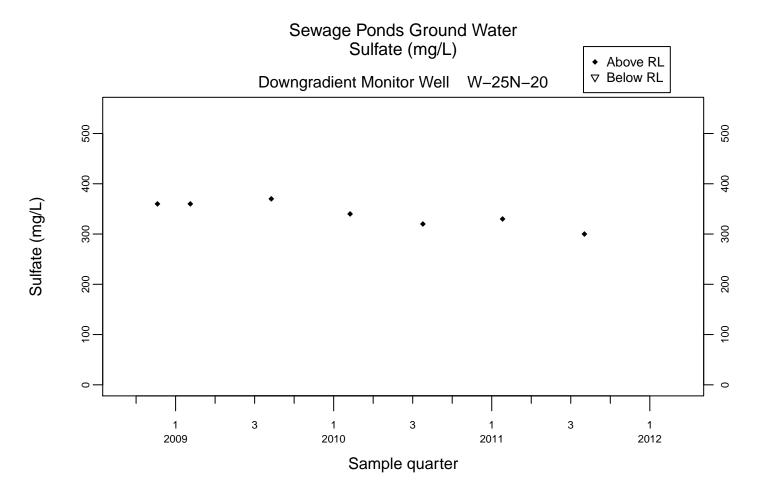


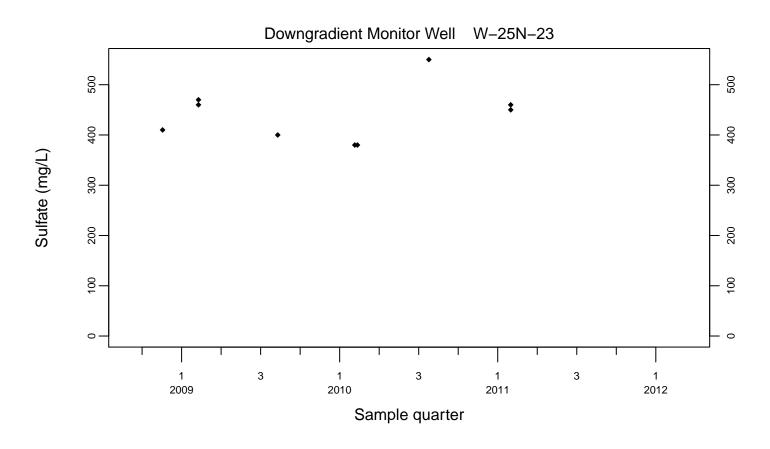


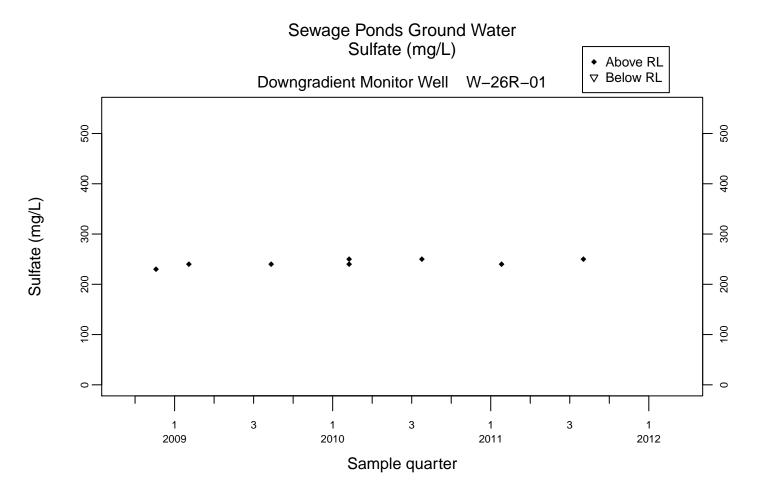


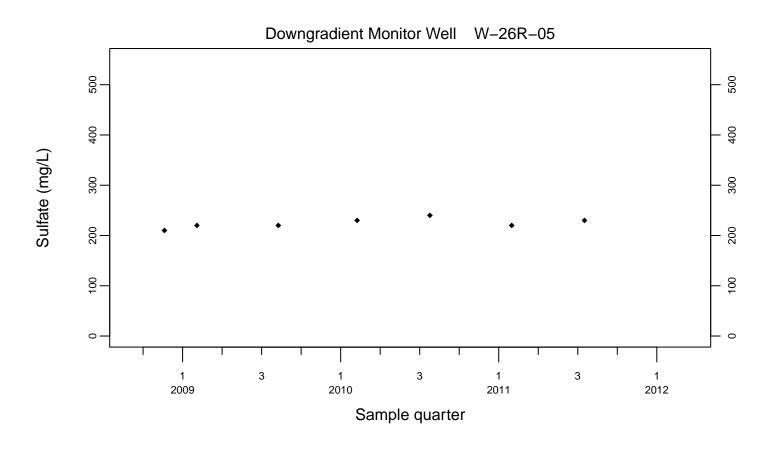


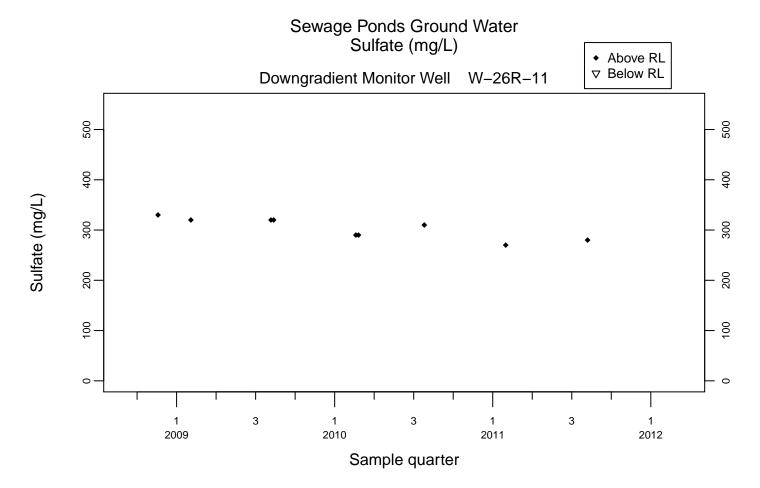


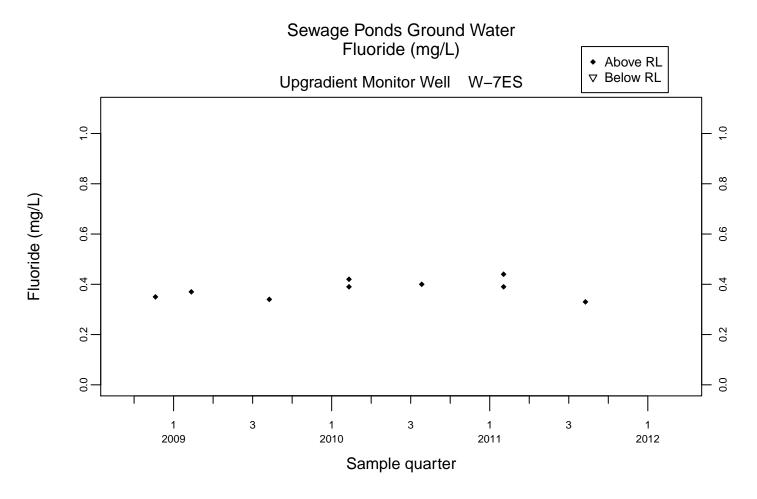


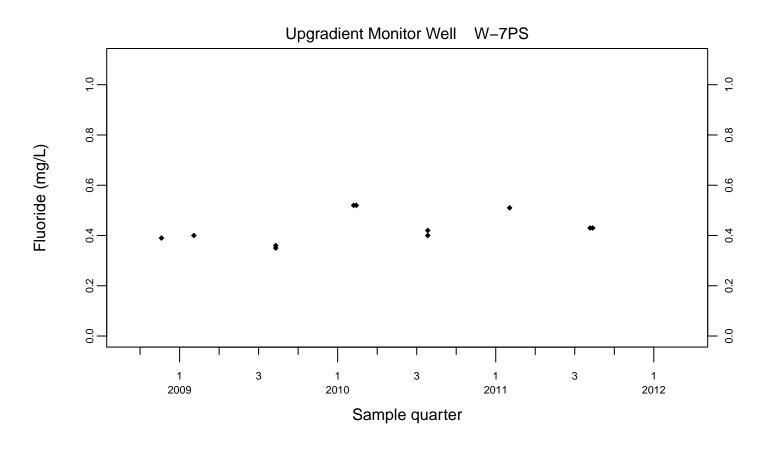


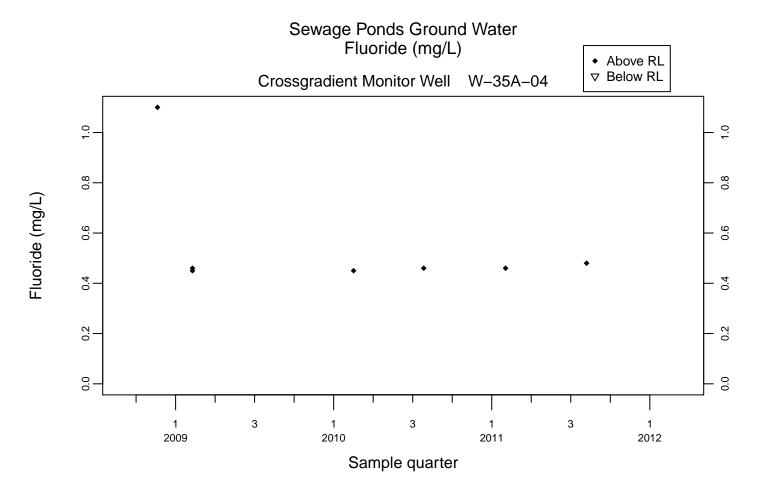


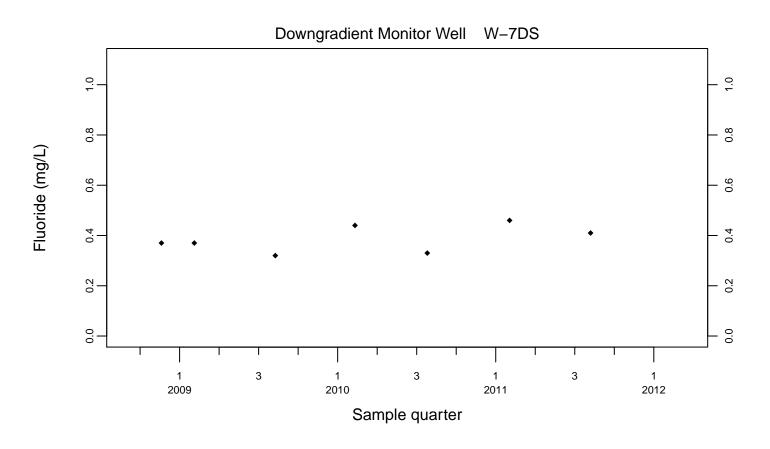


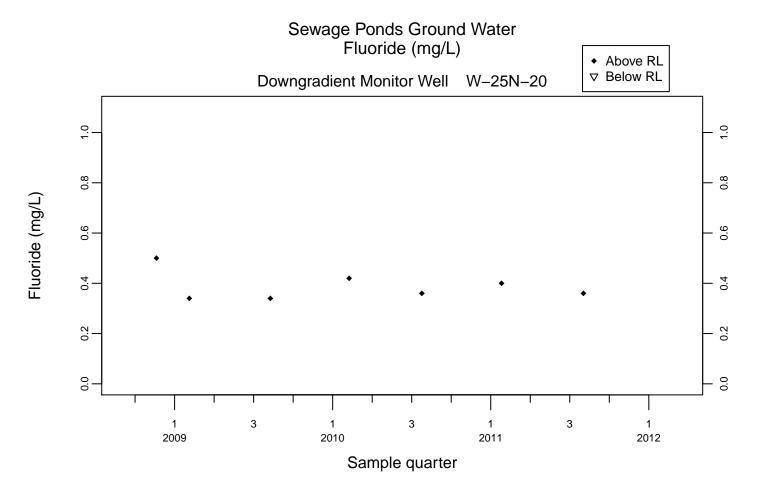


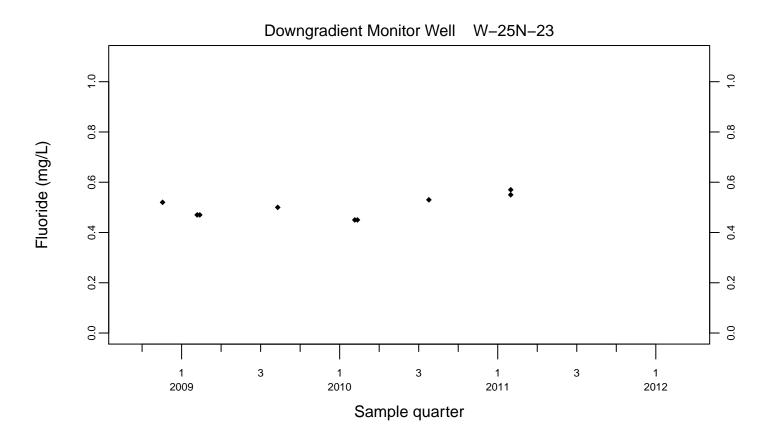


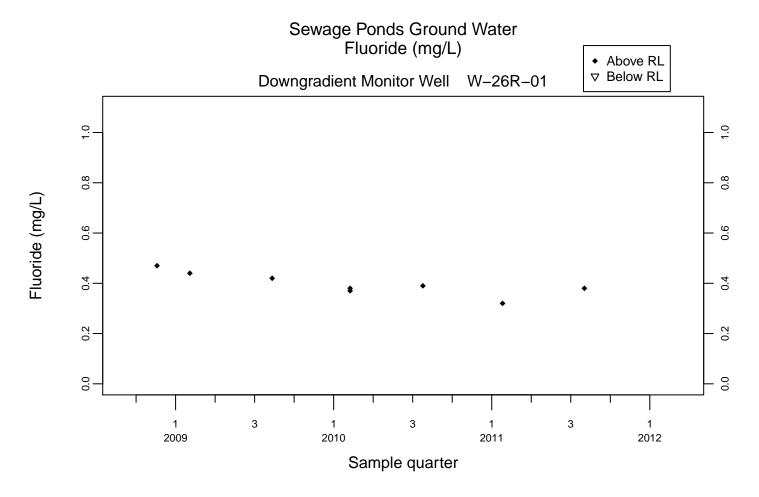


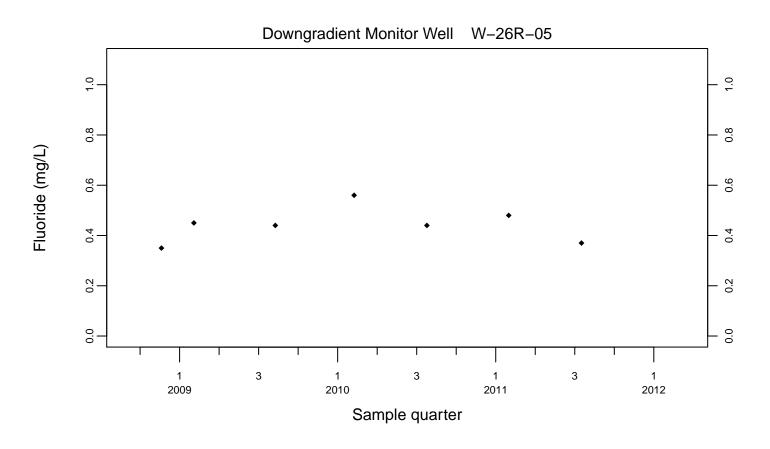


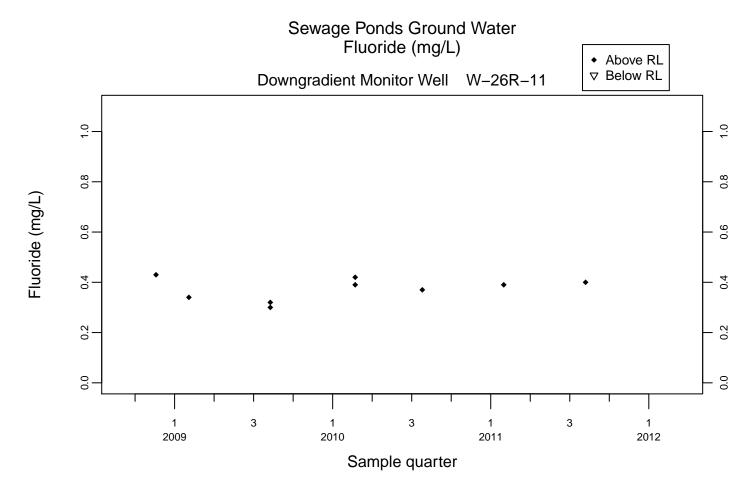


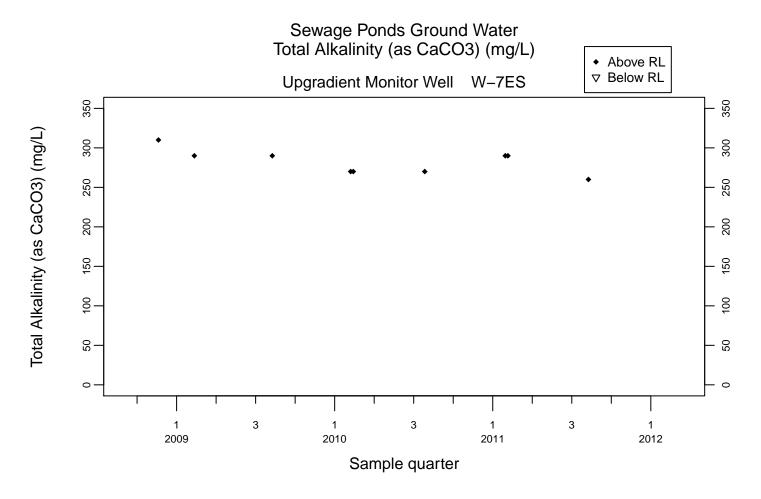


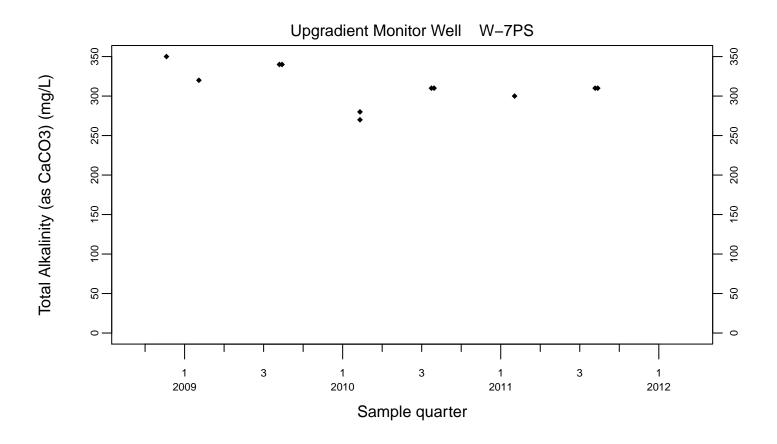


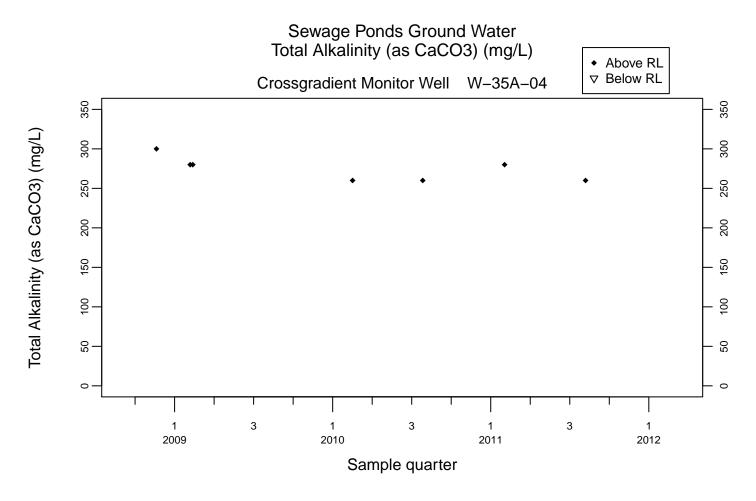


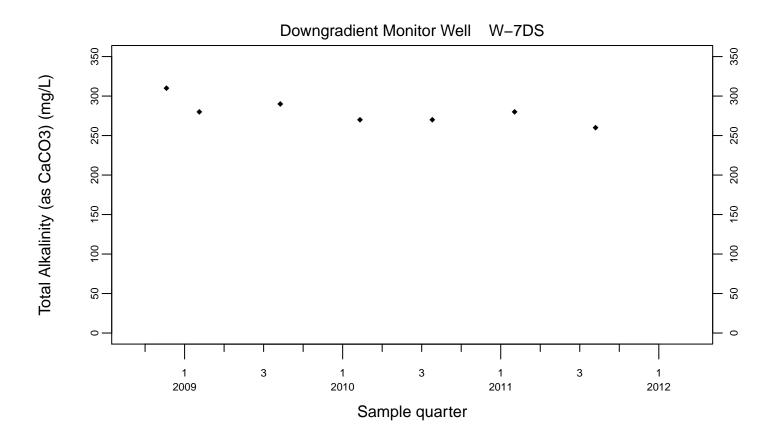


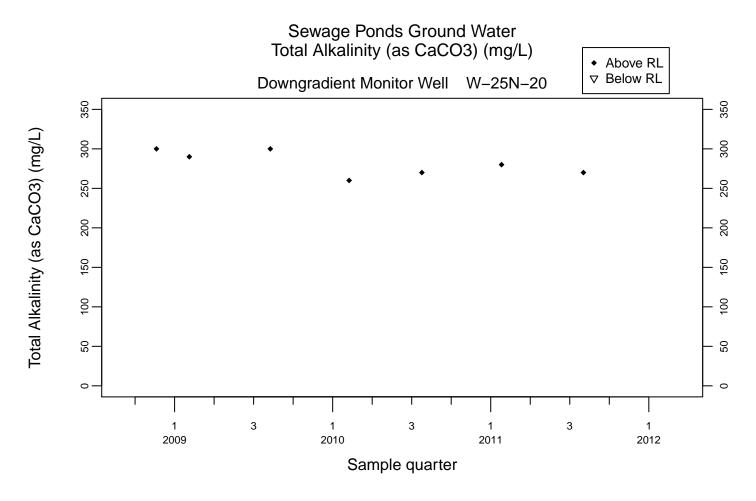


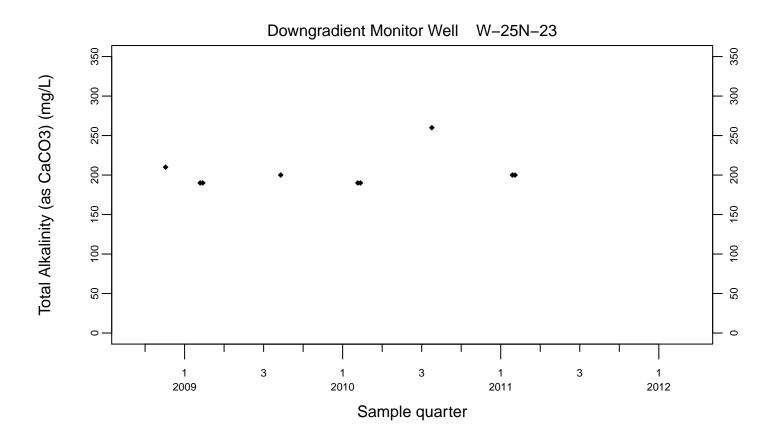


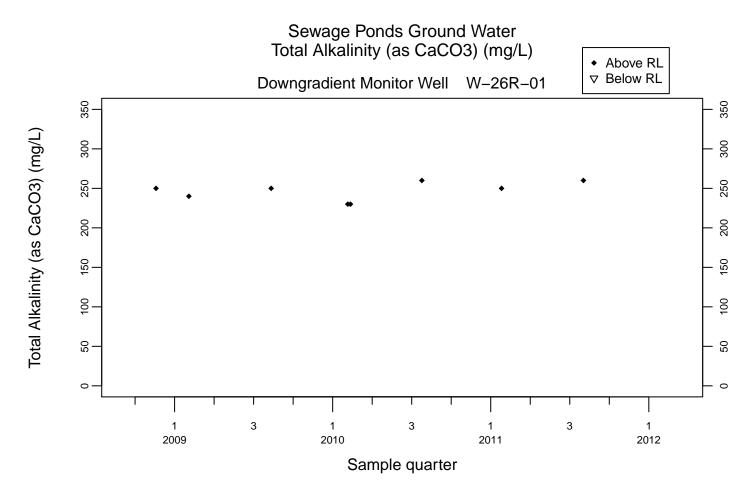


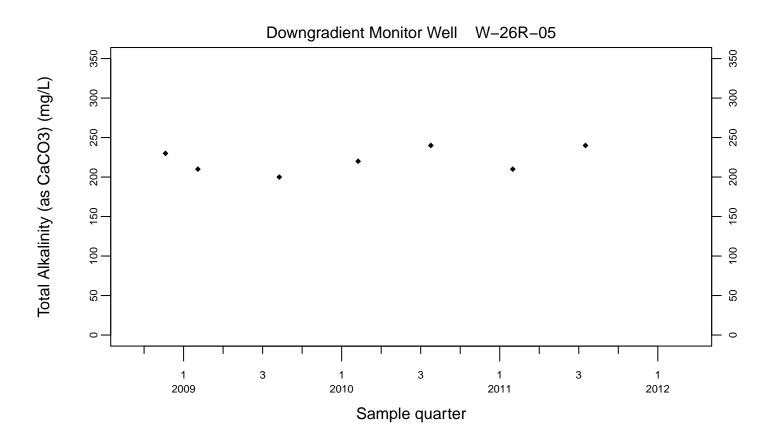


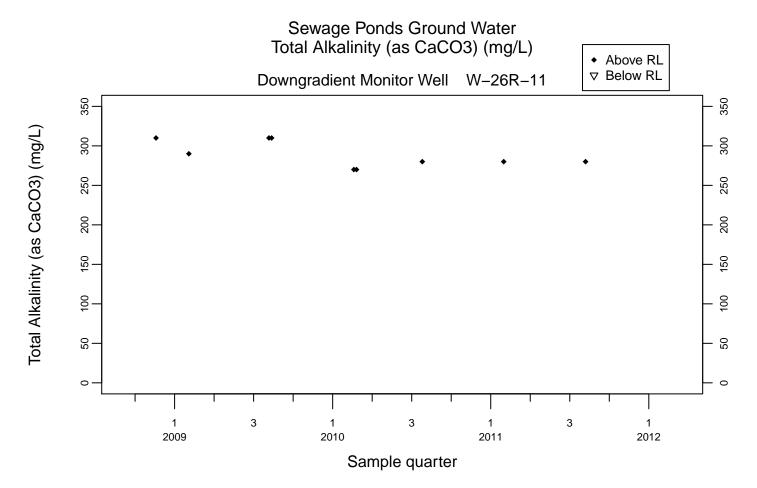


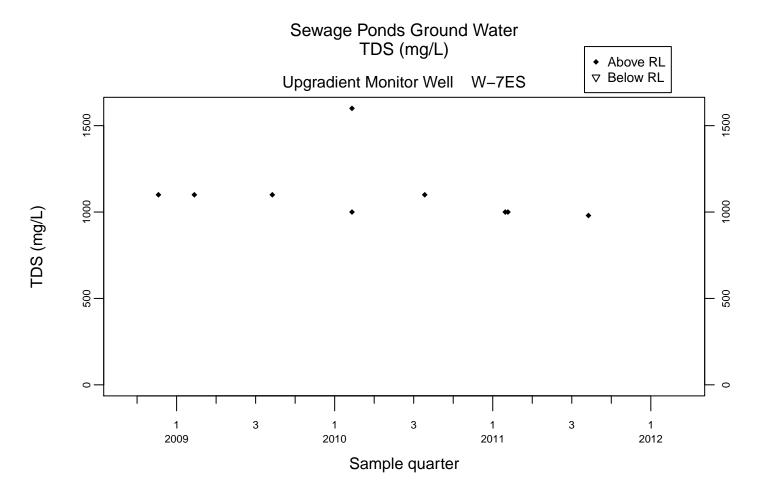


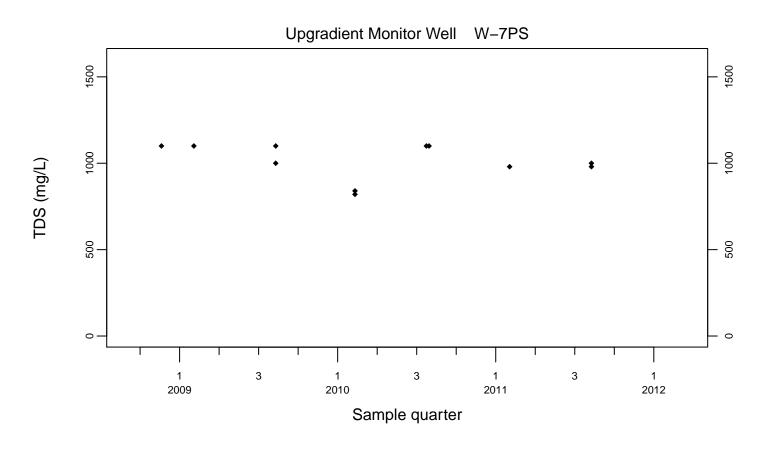


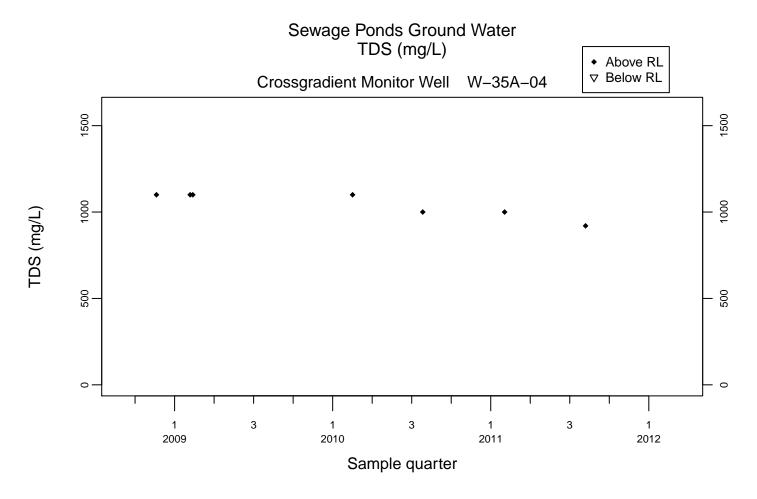


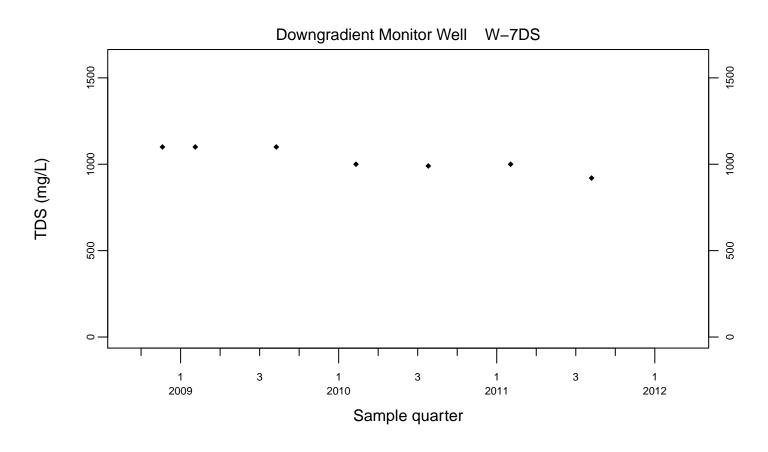


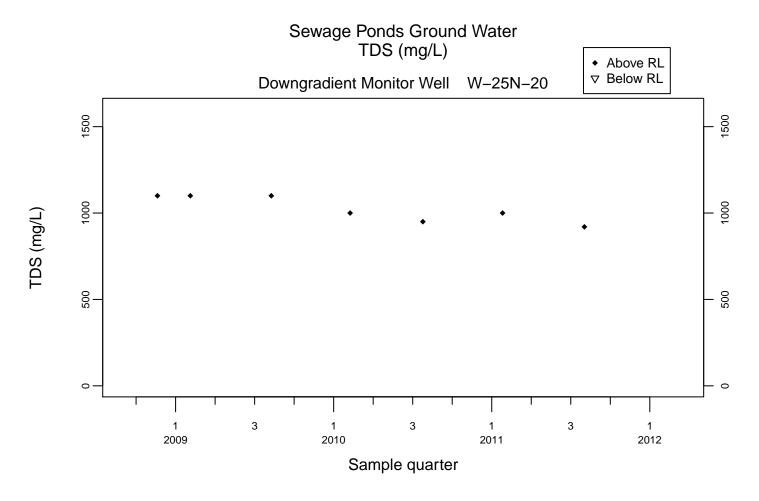


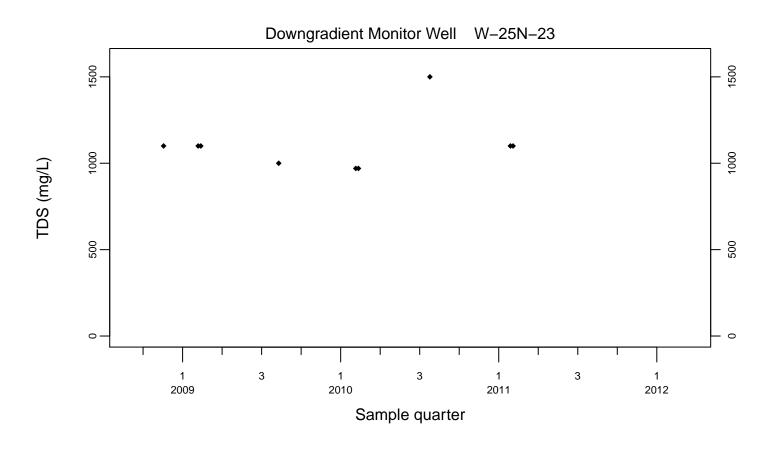


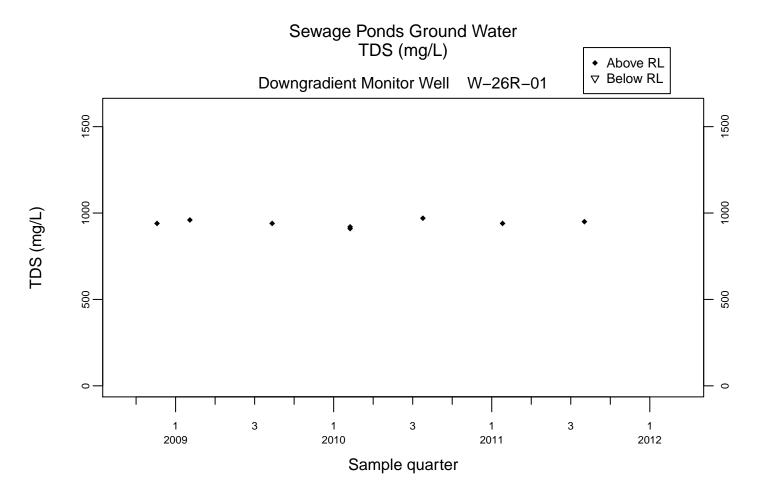


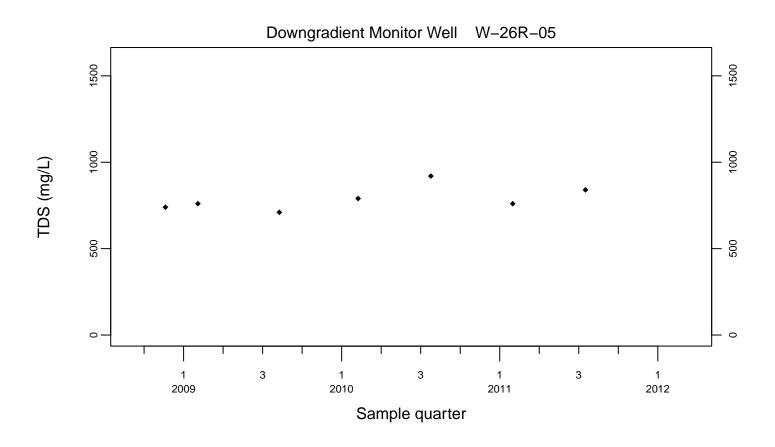


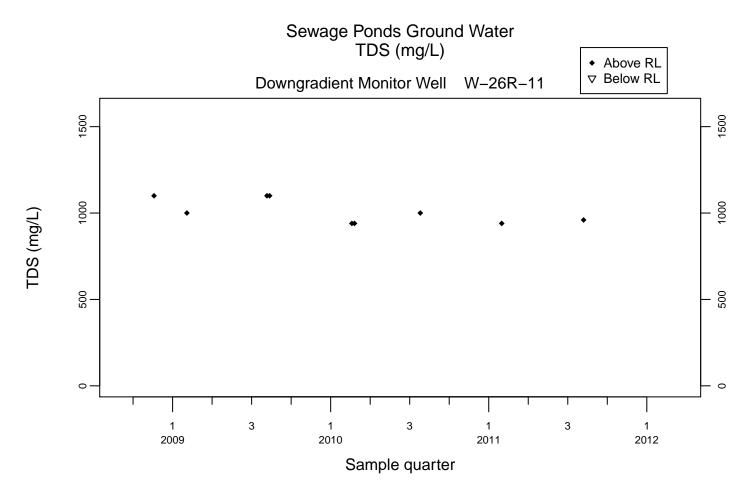


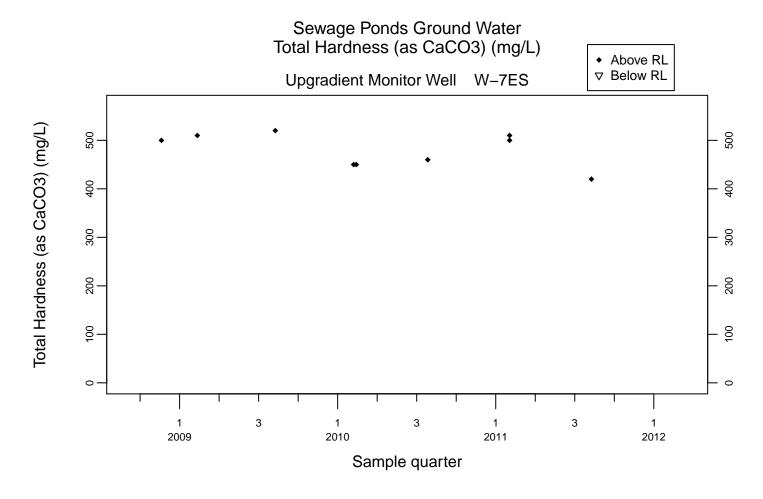


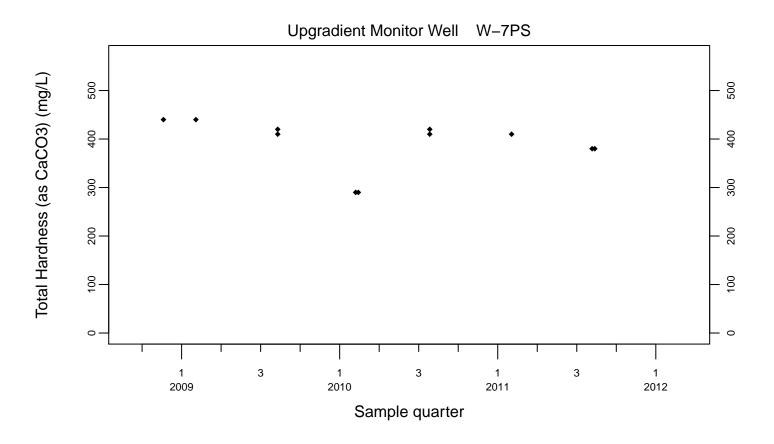


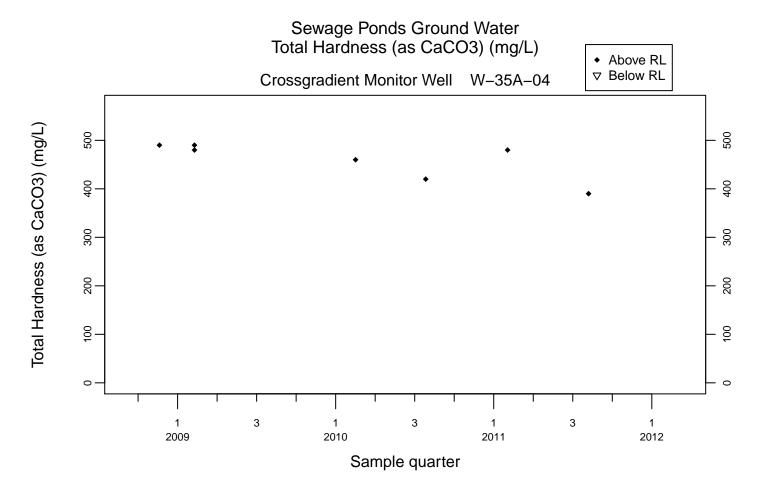


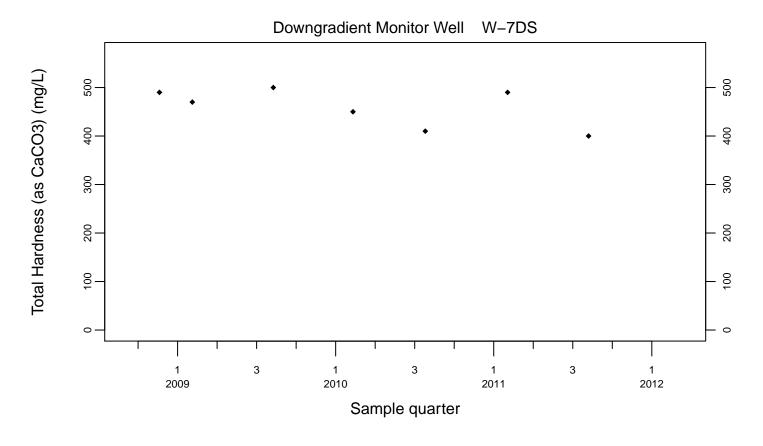


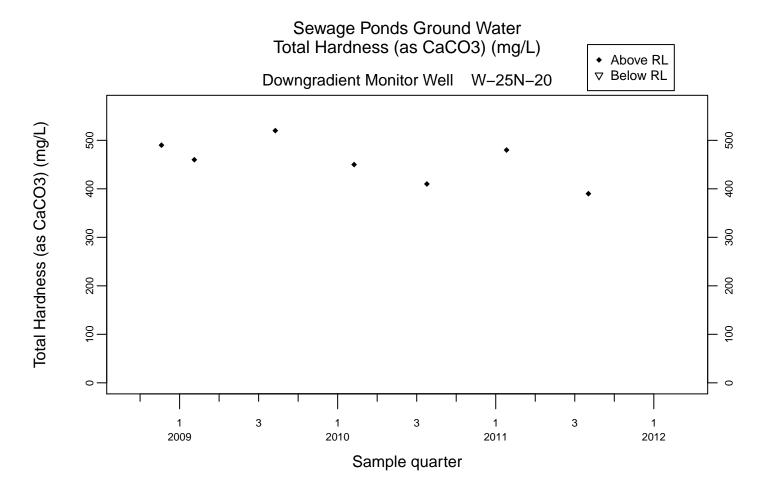


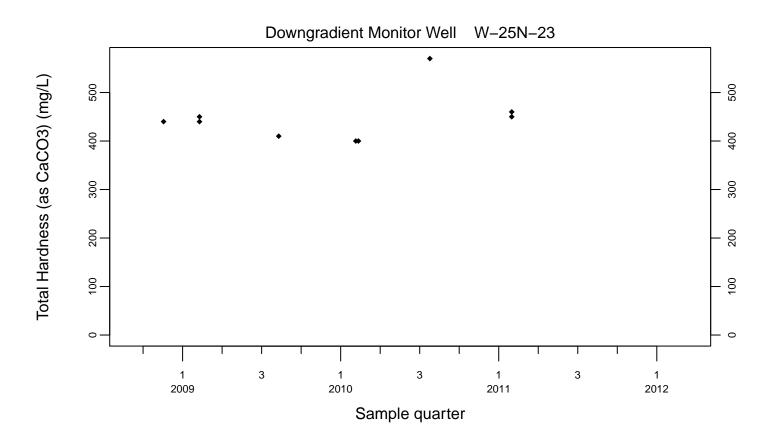


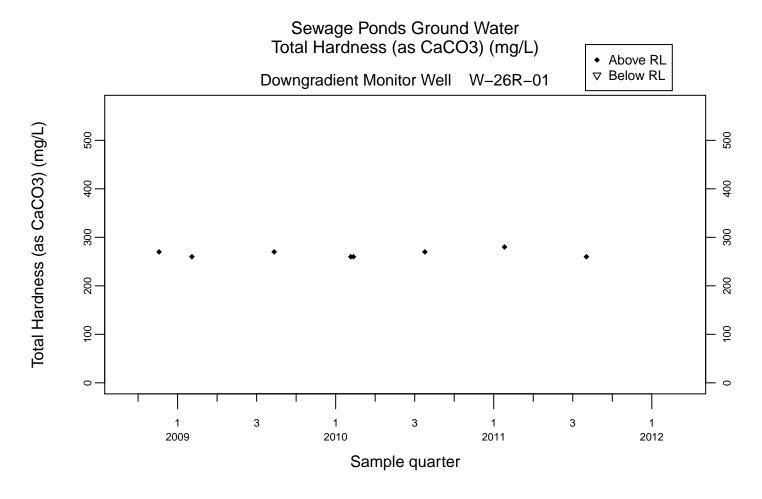


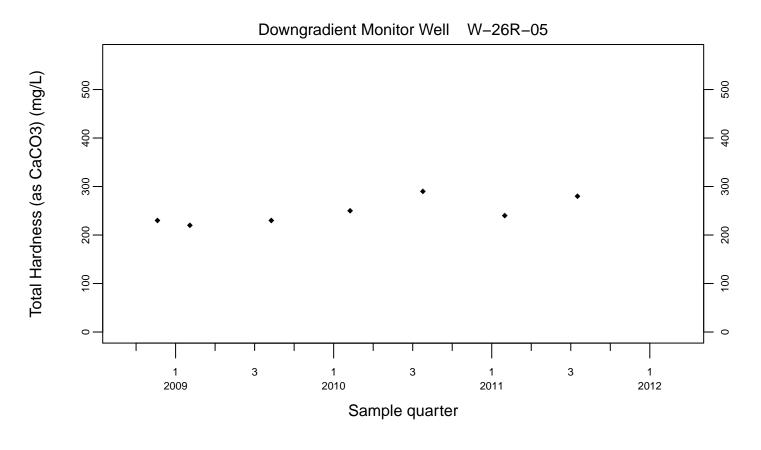


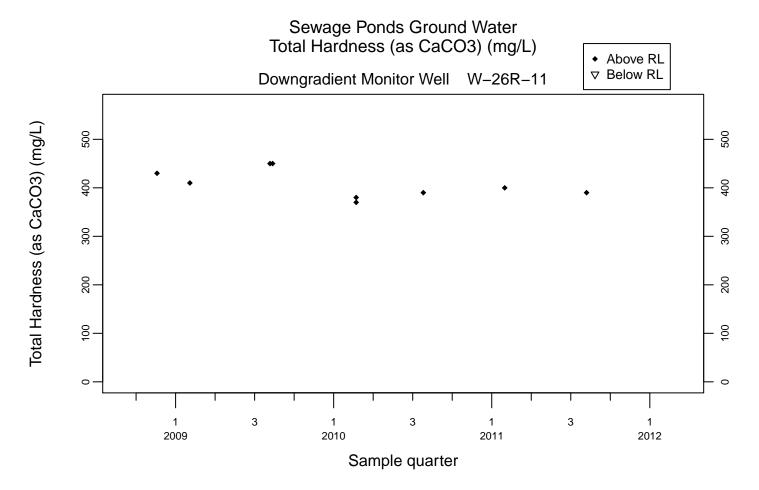


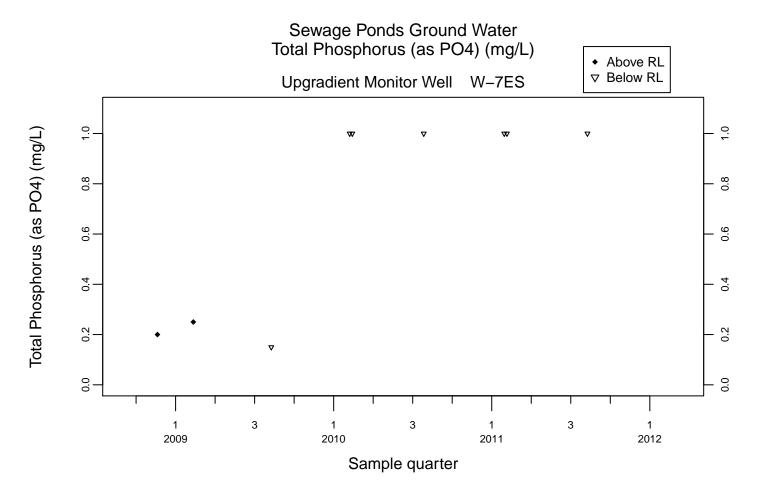


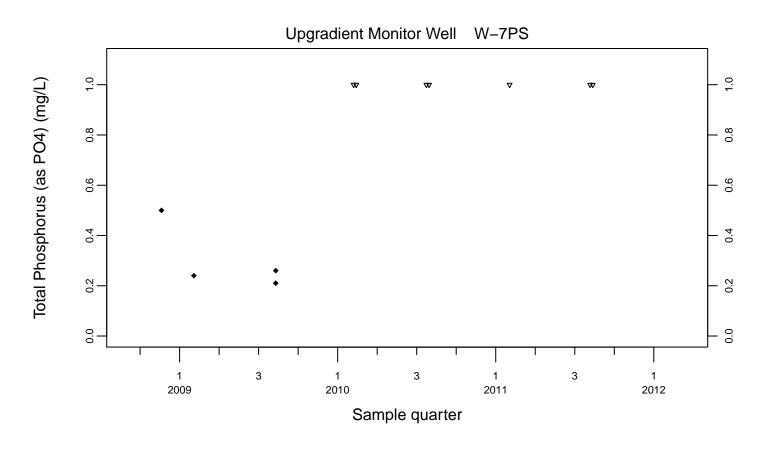


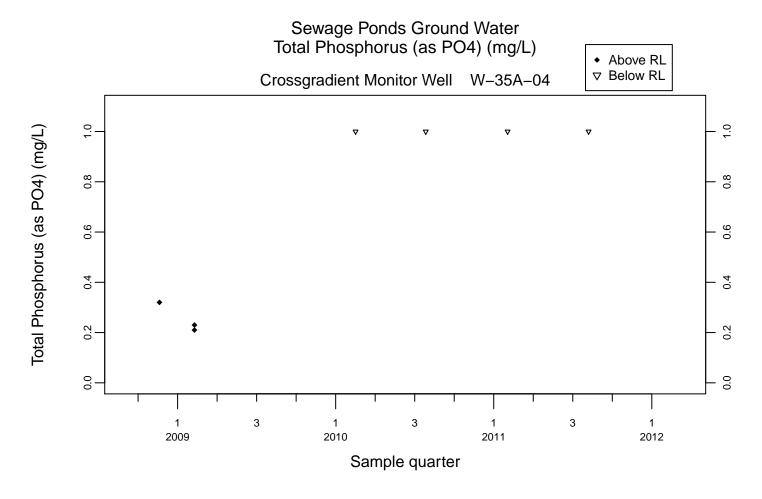


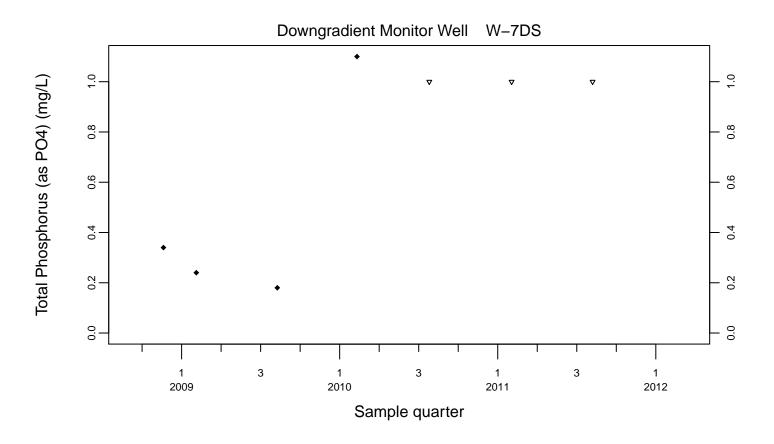


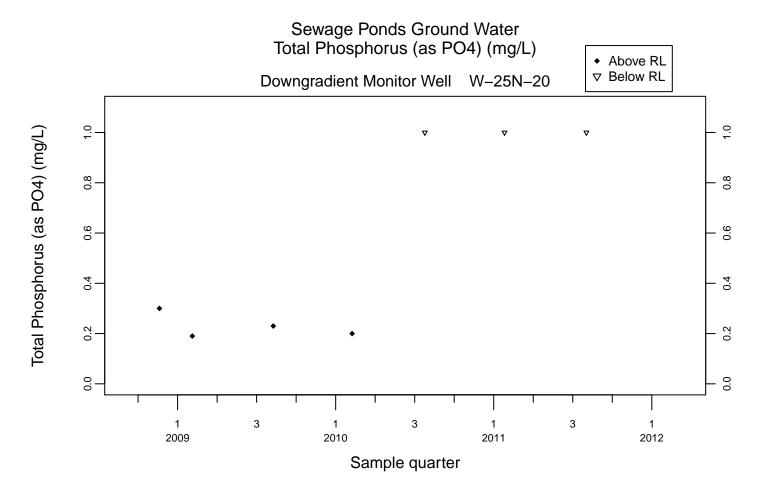


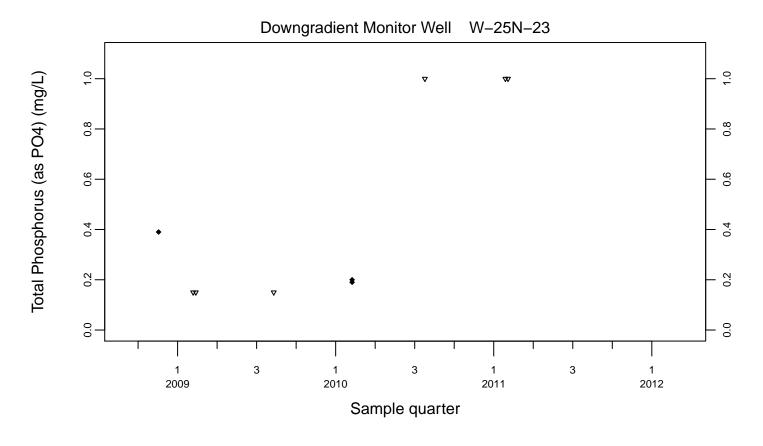


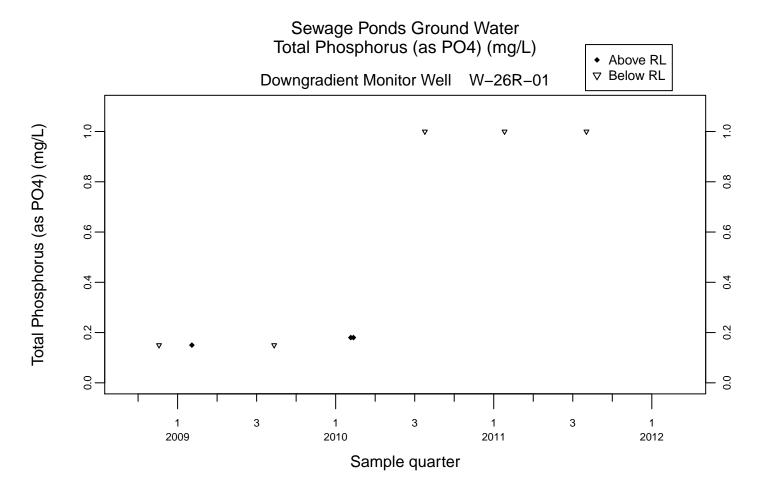


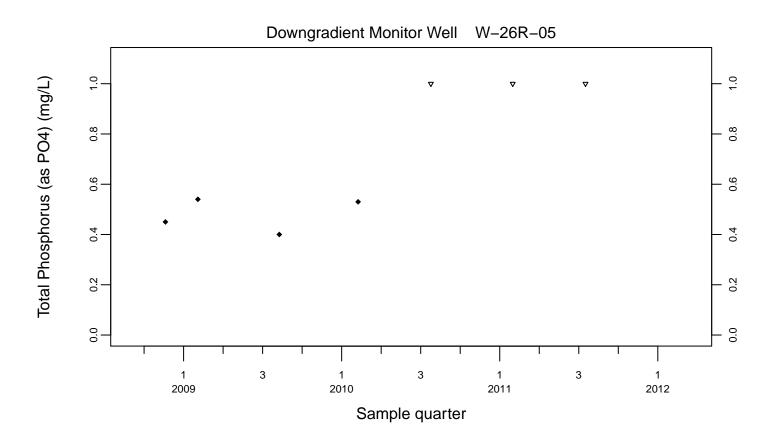


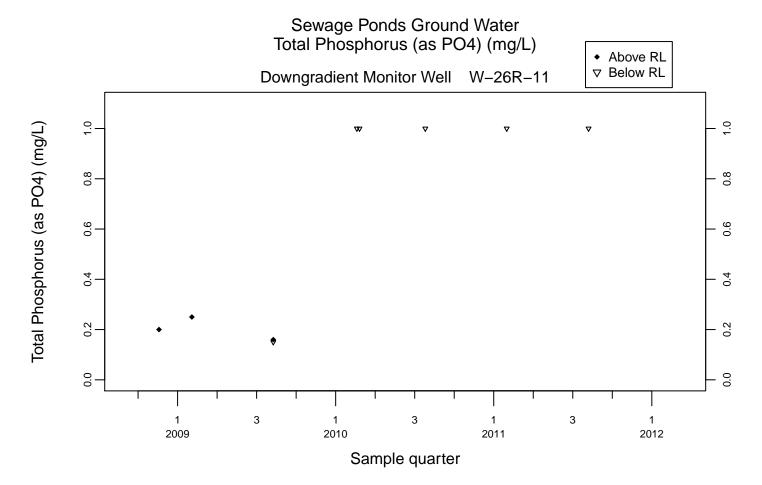












Appendix B

Cooling Tower Network

Cooling Tower Blow Down Effluent Monitoring Network with Discharges to Percolation Pits (Bldgs. 801, 809, 812, 817A, 825, 826, 827A, and 851) and

Cooling Tower Percolation Pit Inspection Forms

Table B-1. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 anions data summary.

Building	Well	Date	Sodium (mg/L)	Chloride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)
801	3-801ACT01-TW	May 24	460	170	0.77	330	0.50
801	3-801ACT01-TW	Oct 19	1,100	420	5.60	880	1.60
809	3-809ACT01-TW	May 24	240	86	<0.50	190	0.29
817	3-817ACT01-TW	May 24	220	80	<0.50	180	0.27
817	3-817ACT01-TW	Oct 19	230	86	0.58	180	0.37
825	3-825ACT01-TW	May 24	220	78	<0.50	170	0.25
825	3-825ACT01-TW	Oct 19	220	83	<0.50	180	0.34
826	3-826FCT01-TW	May 24	210	77	<0.50	170	0.28
826	3-826FCT01-TW	Oct 19	12,000; 220 ^a	4,800; 82 ^a	51; 0.61 ^a	10,000; 170 ^a	16; 0.33 ^a
827	3-827ACT01-TW	May 24	210	76	<0.50	170	0.27
827	3-827ACT01-TW	Oct 19	240	95	1.20	200	0.51

Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-2. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 metals analysis data summary.

Analyte		3-801ACT01-	3-809ACT01-	3-817ACT01-	3-825ACT01-	3-826FCT01	3-827ACT01-
(μg/L)	Month	TW	TW	TW	TW	-TW	TW
Aluminum	Q2	<50	<50	<50	<50	<50	68
	Q4	<100	-	<50	<50	<1,000; <50 ^a	<50
Arsenic	Q2	<2	<2	<2	<2	<2	<2
	Q4	<2		<2	<2	12, <2	<2
Barium	Q2	<25	<25	<25	<25	<25	<25
	Q4	46	-	<25	<25	220; <25	<25
Boron	Q2	1,900	1,100	1,000	990	980	960
	Q4	4,400	-	960	920	43,000; 970	1,200
Cadmium	Q2	<50	<50	<50	<50	< 50	<50
	Q4	<50	-	<50	<50	<250; <50	<50
Calcium	Q2	20,000	8,200	8,000	7.700	7400	9,200
	Q4	35,000	-	9,800	7.300	44,000; 8,800	9,600
Chromium	Q2	1.1	<1	<1	<1	<1	<1
	Q4	<2	-	1.0	<1	14, <1	<1
Hexavalent							
Chromium	Q2	<1	<1	<1	<1	<1	<1
	Q4	1.4	-	<1	<1	<1,<1	<1
Copper	Q2	8.0	16	20	15	5.6	25
	Q4	6.1	-	8.2	6.9	160; 9.8	9.8
Iron	Q2	200	<100	<100	<100	<100	260
·_	Q4	<200	-	<100	<100	<2,000; <100	<100
Lead	Q2	<5	<5	<5	<5	<5	<5
	Q4	<5	-	<5	<5	<25, <5	<5
Magnesium	Q2	<500	<500	<500	<500	<500	<500
	Q4	<1,000	-	<500	<500	<10,000; <500	<500
Manganese	Q2	<30	<30	<30	<30	<30	<30
	Q4	<60	-	<30	<30	<600, <30	<30
Molybdenum	Q2	41	<25	<25	<25	<25	<25
	Q4	95	-	<25	<25	1100, <25	25
Nickel	Q2	<2	<2	<2	<2	<2	<2
····	Q4	<2	_	<2	<2	11, <2	<2
Potassium	Q2	18,000	8,900	8,500	8,300	8100	8,000
	Q4	38,000	<u>-</u>	8,300	7,900	380,000; 9,400	8,900
Selenium	Q2	<2	<2	<2	<2	<2	<2
	Q4	2.4	-	<2	<2	<50, <2	<2
Silver	Q2	<10	<10	<10	<10	<10	<10
	Q4	<1	-	<1	<1	<5, <1	<1
Vanadium	Q2	<20	<20	<20	<20	<20	<20
	Q4	<20	-	<20	<20	<100; <20	<20
Zinc	Q2	55	21	64	110	89	130
	Q4	<20	-	66	55	<100; 100	39

a Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-3. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 physical characteristics data summary.

Location	Well	Date	pН	Specific Conductance (µmhos/cm)	Total Alkalinity (as CaCO3) (mg/L)	Total dissolved solids (mg/L)	Total Hardness (as CaCO3) (mg/L)	Total Phosphorus (as PO4)
B801	3-801ACT01-TW	May 24	9.1	1,890	390	1,400	50	(mg/L) 0.85
B801	3-801ACT01-TW	Oct 19	9.2	4,390	930	3,300	91	0.83
B809	3-809ACT01-TW	May 24	8.6	1,060	220	760	22	0.31
B817	3-817ACT01-TW	May 24	8.7	996	210	720	21	0.46
B817	3-817ACT01-TW	Oct 19	8.6	1,050	210	740	25	0.71
B825	3-825ACT01-TW	May 24	8.4	975	200	680	20	0.20
B825	3-825ACT01-TW	Oct 19	8.2	1,020	200	710	20	<0.15
B826	3-826FCT01-TW	May 24	8.3	970	200	690	20	<0.15
B826	3-826FCT01-TW	Oct 19	9.6	33,600; 1,030 ^a	8,700; 200 ^a	24,000; 740 ^a	140; 23 ^a	35; <0.15 ^a
B827	3-827ACT01-TW	May 24	8.5	958	200	630	24	0.78
B827	3-827ACT01-TW	Oct 19	8.6	1,170	230	840	25	0.41

Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-4. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 QA data summary.

Constituent	Units	3-827ACT01-TW May 24 Routine	3-827ACT01-TW May 24 Duplicate
pН		8.5	8.5
Specific Conductance	μmhos/cm	958	958
Aluminum	μg/L	68	<50
Arsenic	μg/L	<2	<2
Barium	μg/L	<25	<25
Boron	μg/L	960	970
Cadmium	μg/L	<50	<50
Calcium	μg/L	9,200	9,100
Chromium	μg/L	<1	<1
Hexavalent Chromium	μg/L	<1	<1
Copper	μg/L	25	21
Iron	μg/L	260	210
Lead	μg/L	<5	<5
Magnesium	μg/L	<500	<500
Manganese	μg/L	<30	<30
Molybdenum	μg/L	<25	<25
Nickel	μg/L	<2	<2
Potassium	μg/L	8,000	8,100
Selenium	μg/L	<2	<2
Silver	μg/L	<10	<10
Vanadium	μg/L	<20	<20
Zinc	μg/L	130	110
Sodium	mg/L	210	210
Chloride	mg/L	76	76
Nitrate (as NO3)	mg/L	<0.5	<0.5
Sulfate	mg/L	170	170
Fluoride	mg/L	0.27	0.28
Total Alkalinity (as	mg/L	200	200
Total dissolved solids	mg/L	630	670
Total Hardness (as	mg/L	24	23
Total Phosphorus (as PO4)	mg/L	0.78	0.93

FIELD TRACKING FORM

Should be sampled in early April and October. Special Instructions:

See back of form for additional access information

Sample Date:

Semi-Annual SITE 300 Cooling Towers

Ship It# #**3**00 24965 LAB BC Labs Caltest

pH meter calibrated on: 10/19

Specific Conductance meter calibrated on:

Comments													Copy of CoC given to TRR Rev. 9-27-11
sq	S3WETCHEM 1000mL Poly	7			7	1	7	7	7			7	oC give
BC Labs	S3ANIONS 1 x 500ml Poly	7			1	7	7	7	7			7	oy of C
	S3METALS 500mL Poly	7			7	7	7	7	7	1		7	Col
surments	Specific Conductance	4.64ms		esn	105945	122545	SW 426	116445	133645				
Field Measurments	рН	9.17	bu	Not in use	168	14.6	9.83	8.87	9.05				
	Initials	155	Runa		SIX	SM	KS	KS	MS			KI	
	Sample Time	955	NOT		016	930	326	046	1010			1010	
	Location DUP taken - year/quarter	2009/2nd	2009/4th	2008/4th	2010/2nd		2010/4th	2011/2nd	2011/4th		TO1-TW		Rick Blake.
	Location Indentifier	3-801ACT01-TW	3-809ACT01-TW	3-812AFCŢ01-ŢW	3-817ACT01-TW	3-825ACT01-TW	3-826FCT01-TW	3-827ACT01-TW	3-851BFCT03-TW		Duplicate of 3-851BFCT01-TW	3-B9900-01-TW	Copy to Analyst, Rick Blake.

Chain or Custody

# 100100	
Organization / Sampler	Livermore, CA 94551
Requester/LLNL Analyst	P.O. Box 808 L-629
Document Control #	Lawrence Livermore National Laboratory
Access/COC #	EPD: EMAD/PRAD/ESPD

DMT Additi Work Authorized By: EPD TRR Approver: Project Info:

Access/COC #: 54672	Analytical Lab : BCI ABS-BAK	Additional Instructions:
nent Control #: 54672	TAT:20d	
//LLNL Analyst: R. Blake	Analytical Lab Log #:	
tion / Sampler: EPD / brunckhorst2	Project/Network: COOLTOWER	
PCI Project #: 35166	LLNL Acct #: 3297-47	
PCI Task #: 1.03.02.06.02.08	Release #: UNICARD	
Fax/Email #1: swanson15@llnl.gov	Fax/Email #2:	
litional Copies:		

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont.	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-801ACT01-01-TW	10/19/2011 09:55	MΤ	Ы	1	COOLTOWER	SANIONS	ALL	
3-801ACT01-01-TW	10/19/2011 09:55	Λ	Ы	1	COOLTOWER	S3METALS	ALL	
3-801ACT01-01-TW	10/19/2011 09:55	Ţ	Д	0	COOLTOWER	S3METALS	TOTAL	
3-801ACT01-01-TW	10/19/2011 09:55	Λ	Ы	1	COOLTOWER	S3WETCHEM	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	ΝL	Ь	1	COOLTOWER	S3ANIONS	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	ΛL	Ь	1	COOLTOWER	S3METALS	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	ΛL	Ь	0	COOLTOWER	S3METALS	TOTAL	
3-817ACT01-01-TW	10/19/2011 09:10	ΛV	Ь	1	COOLTOWER	S3WETCHEM	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	Λ	Ь	1	COOLTOWER	S3ANIONS	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	ΤW	Ь	1	COOLTOWER	S3METALS	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	MΤ	Ь	0	COOLTOWER	S3METALS	TOTAL	
3-825ACT01-01-TW	10/19/2011 09:30	MΤ	Ь	1	COOLTOWER	S3WETCHEM	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	ΛL	Ь	1	COOLTOWER	S3ANIONS	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	TW	а.	1	COOLTOWER	S3METALS	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	ΛL	Д.	0	COOLTOWER	S3METALS	TOTAL	
3-826FCT01-01-TW	10/19/2011 09:25	ΛL	а.	-	COOLTOWER	S3WETCHEM	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	ΛL	۵	-	COOLTOWER	S3ANIONS	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	MΤ	d .	1	COOLTOWER	S3METALS	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	Λ	Ф	0	COOLTOWER	S3METALS	TOTAL	
3-827ACT01-01-TW	10/19/2011 09:40	Σ	ď	1	COOLTOWER	S3WETCHEM	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	ΛL	Ь	1	COOLTOWER	S3ANIONS	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	ΛL	۵	1	COOLTOWER	S3METALS	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	ΛL	Д	0	COOLTOWER	S3METALS	TOTAL	
3-851BFCT03-01-TW	10/19/2011 10:10	ΝL	Ь	1	COOLTOWER	S3WETCHEM	ALL	
3-B9900-01-TW	10/19/2011 10:10	ΛL	Ь	1	COOLTOWER	S3ANIONS	ALL	
3-B9900-01-TW	10/19/2011 10:10	ΛL	Ь	1	COOLTOWER	S3METALS	ALL	
3-B9900-01-TW	10/19/2011 10:10	MΤ	Ь	0	COOLTOWER	S3METALS	TOTAL	
							1	

-Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 John Kroether	LLNL/EPD	10/19/2011		2	22		
7			TV	9			
3				4			
*				5			
Revision Printed: 09/13/2011/15/50/25	is	Signature Order - 1:	Sampler, 2: C	ature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT			Page 1 of 2

Chain of Custody

	EPD: EMAD/PRAD/ESPD Lawrence Livermore National Laboratory P.O. Box 808 L-629 Livermore, CA 94551		Access/COC #:54672 Document Control #:54672 Requester/LLNL Analyst: R. Blake Organization / Sampler: EPD / br	ss/CO(Contro L Analy / Samp	Access/COC #: 54672 ment Control #: 54672 /ILLNL Analyst: R. Blal ttion / Sampler: EPD /	Access/COC #: 54672 Iment Control #: 54672 sr/LLNL Analyst: R. Blake ation / Sampler: EPD / brunckhorst2	Analytical Lab: BCLABS-BAK TAT: 20d Analytical Lab Log #: Project/Network: COOL TOWER	BCLABS-BAK 20d COOLTOWER	Additional Instructions:	structions:
Matrix Cont Study FaxEmail #2. Matrix Cont Study Arabysis Detail			짇	Project Tael	# 351 # 4 0	66	LLNL Acct#	3297-47		
Matrix Cont Study Req. Analysis Lab Instructions TW P 1 COOLTOWER S3WETCHEM ALL		DMT.	<u> </u>	/Email	#1:swa les:	1050015@llnl.gov	Kelease #: Fax/Email #2:	UNICARD	11	
TW P 1 COOLTOWER S3WETCHEM ALL		Sampled Date/Time	atrix	Cont.	Count.	Study Area	Req. Analysis	Analysis Detail	Lab Instruction	st
Date Time Received Signature Company Date Time A		10/19/2011 10:10	Ž	۵		COOLTOWER	S3WETCHEM	ALL		
Date Time Received Signature Company Date 10/19/2011 2 2 2 2 2 2 2 2 2				T						
Date Time Received Signature Company Date 10/19/2011 2 4 4	П									
Date Time Received Signature Company Date 10/19/2011 2 4 4										
Date Time Received Signature Company Date 10/19/2011 2 4 4 4										
Date Time Received Signature Company Date 10/19/2011 3 4 4 1 5 5 5 5 5 5 5 5 5										
Date Time Received Signature Company Date Time Second Signature Second Signature										
Date Time Received Signature Company Date 10/19/2011 2							5			
Date Time Received Signature Company Date 10/19/2011 2 4					1					
Date Time Received Signature Company Date 10/19/2011 3 3 4	П									
Date Time Received Signature Company Date 10/19/2011 3 4										
Date Time Received Signature Company Date 10/19/2011 2 4 4 4 4 5 5 5 5 5 5	T				1					
Date Time Received Signature Company Date 10/19/2011 3 4 4 4				T		ÿ				
Date Time Received Signature Company Date	П									
Date Time Received Signature Company Date 10/19/2011 3 4 4 5 5 5 5 5 5 5 5	T									
Date Time Received Signature Company Date 10/19/2011 3 4 4 4 5 5 5 5 5 5 5				1		8				
Date Time Received Signature Company Date 10/19/2011 3 4 4 4 5 Company Date Date Company Date Dat										
Date Time Received Signature Company Date				1						
Date Time Received Signature Company Date 10/19/2011 3 4 4 4 5 5 5 5 5 5 5										
Date Time Received Signature Company Date	П			$\dagger \dagger$						
10/19/2011 2 3 4 5	11	Company	De	ate	Tim	-	/ed Signature	Company	Date	Time
	1	LLNL/EPD	10/19	//2011)	-		
	ļ					3				
			_			4				
			_			2				

FIELD TRACKING FORM Semi-Annual SITE 300 Cooling Towers

Special Instructions:									TAB COC# Ship I+#
Should be sampled in early April and October.	early April aı	nd October							s 55668
See back of form for additional access information	additional acc	cess inform	ation						Caltest // // // // // // // // // // // // //
Sample Date: //3	30/12								ph meter calibrated on: 11 × 11/2 Specific Conductance meter calibrated on: 150/
				Field Me	Field Measurments	В	BC Labs	SC	Comments
Location Indentifier	Location DUP taken - year/quarter	Sample Time	Initials	рН	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-801ACT01-TW	2009/2nd								
3-809ACT01-TW	2009/4th								
3-812AFCT01-TW	2008/4th			Not in use	use				
3-817ACT01-TW	2010/2nd								
3-825ACT01-TW									
3-826FCT01-TW	2010/4th	0550	145	16.8	5m066				Resample
3-827ACT01-TW	2011/2nd	_							
						ļ			

Rev. 9-27-11

☐ Copy of CoC given to TRR

Copy to Analyst, Rick Blake.

Duplicate of 3-851BFCT01-TW

3-B9900-01-TW

2011/4th

3-851BFCT03-TW

Chain of Custody

EPD: EMAD/PRAD/ESPD	Access/COC #: 55668	Analytical Lab: BCLABS-BAK	Additional Instructions:
Lawrence Livermore National Laboratory	Document Control #: 55668	TAT:5d	
P.O. Box 808 L-629	Requester/LLNL Analyst: R. Blake	Analytical Lab Log #:	
Livermore, CA 94551	Organization / Sampler: EPD / brunckhorst2	Project/Network: COOLTOWER	
	PCI Project #: 35166	LLNL Acct #: 3297-47	
Work Authorized By: EPD	PCI Task #: 1.03.02.06.02.08	Release #:	
TRR Approver: RUDY JIMENEZ	Fax/Email #1: swanson15@llnl.gov	Fax/Email #2: 925-422-2748	
Project Info:	DMT Additional Copies:		

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Count.	Study Area	Req. Analysis	Analysis Detail	Lab in	Lab Instructions	
3-826FCT01-01-TW	01/30/2012 09:50	MΤ	۵	-	COOLTOWER	S3ANIONS	ALL			
3-826FCT01-01-TW	01/30/2012 09:50	MΤ	Ь	1	COOLTOWER	S3METALS	TOTAL			
3-826FCT01-01-TW	01/30/2012 00:00	ML	а.	0	COOLTOWER	S3METALS	ALL			
3-826FCT01-01-TW	01/30/2012 09:50	ML	Д	7	COOLTOWER	S3WETCHEM	ALL			
									10	
									i.	
									ļ	
								20		
				22						
							i			
			1						348	
				1						
			1	7						
				7						
Relinguished Signature	Company	<u>ة</u>	Date	Time		Received Signature	Company		Date Til	Time
1 Will Beauther	LLNL/EPD	1/30	1/30/2012	0011	0 2					

Page 1 of 1

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

4 Revision Printed: 10/13/2011/11/16/10

4

Date 6.8-11 Inspector 0.1	AUDRUM	Building Number 80
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo	8
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	•	or a minimum of 5 years and made
Send a completed copy to the attention of Allen C		∆ (1.627) EDD
Check Items	Response	Description and Comments:
 Is water flowing from the Christy box? 	Yes/ K	9
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	e e	
3. Is there standing water in the Christy box?	Yes/No	i i a
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes (De	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature And Amu	mo	Date 6-8-11
* Note: This form may be modified or used as is percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the mo weekly until no standing water is observed.	s for document eporting Progra onthly inspection	ing the routine inspections of the

Date 6-8-11 Inspector D.L.	Agen	Building Number	809
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	DW, and record the date and tir	ne. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	<u> </u>	for a minimum of 5 years and r	made
Send a completed copy to the attention of Allen G		M (1 607) FDD	
Check Items	Response	Description and Comments:	
 Is water flowing from the Christy box? 	Yes/Kib	n e	(49)
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ ⊠		12
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes/ 4		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/ N d		
If yes to any of the above, note date, actions taken, and type of repairs when made.			. w
Supervisor's Signature	no	Date 6-8-11	
* Note: This form may be modified or used as is percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the moweekly until no standing water is observed.	for document porting Progra onthly inspection	ting the routine inspections of	the 48, ncy to

Date <u>6</u>	-8-11	Inspector	0.	LAUDER	Building Number	817-A
Instructio description	ons: Circle the a	ppropriate resp nts if necessary	onse fo . Attac	or each item belo h additional pap	ow, and record the date and ting er if extra space is needed.	ne, Provide
This reco		tained by the In	snectin	a Organization f	for a minimum of 5 years and r	made
Send a c	ompleted copy t	o the attention	of Allen	Grayson, WAM	A (L-627), EPD.	
Check Ite				Response	Description and Comments	
1. Is v	water flowing fro	m the Christy b	ox?	Yes/Qo	*	_
2. Are (da	there any signs amp dirt around	s of recent over Christy box)?	flow	Yes (So		
EDO (p arrange	s indicated to eit Team EA or off pager 04097 or 2 of for reporting to and sample col	hours contact tl 27595) immedia the regulatory	ne .	я В — — 8		8. g
3. Is t	here standing w k?	ater in the Chri	sty	Yes ∕© o	-	
increas	s indicated in 3, se inspection fred er is noted	note depth and quency to week	ly until		2 2 22	- 1
per (e.ç	there any other colation pit requ colation of the cumulation of dir	iires maintenan ild up scale	t the ce	Yes/ © ø		- 3
If yes to	any of the abou	ve. note date la	ctions			
Superviso	or's Signature	Dane	Ann	200	Date (0-8-1	·//
* Note: percolation Revision	This form may on pits permitted 1. If standing w	be modified or under Monitori ater is observed	used and and in the	s is for documer Reporting Progr monthly inspect	nting the routine inspections of ram Order Number R5-2008-0 ion, increase inspection frequencion.	f the

- / / .			
Date 6-8-4 Inspector D. 1	ANDRAM	Building Number	816
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and timer if extra space is needed.	ne. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f		nade
Send a completed copy to the attention of Allen G	Grayson, WAM	A (L-627), EPD.	
Check Items	Response	Description and Comments:	
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ ≱ o	0	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	3° 30		
3. Is there standing water in the Christy box?	Yes/ ≱ fo		, <u> </u>
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		= = ₃	4
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/ M b		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature	NOW	Date 6-8-	//
Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the mweekly until no standing water is observed.		nting the routine inspections of	

Date 0-8-11 Inspector D. 1	ALbers	Building Number 827-A
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization f	
Send a completed copy to the attention of Allen C	Grayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
 Is water flowing from the Christy box? 	Yes & So	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ Ø ø	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	8	
3. Is there standing water in the Christy box?	Yes/ 1C o	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/M%	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R	is for documer	Date <u>6-8-11</u>
percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the m weekly until no standing water is observed.	Reporting Progr nonthly inspect	am Order Number R5-2008-0148, ion, increase inspection frequency to

Date 0 · V - U Inspector D ·)	ALBRUA	Building Number 83	51
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pape	w, and record the date and time. Pro er if extra space is needed.	ovide
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization fo		
Send a completed copy to the attention of Allen C	Brayson, WAM	A (L-627), FPD	
Check Items	Response	Description and Comments:	
1. Is water flowing from the Christy box?	Yes/Mole	3 3 8	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes/ % o		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/N⁄ø		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature Ave A	incro_	Date <u>6-8-11</u>	
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the mweekly until no standing water is observed.	is for documen eporting Progr nonthly inspecti	nting the routine inspections of the am Order Number R5-2008-0148, ion, increase inspection frequency to	

Date /-20-// Inspector 0.	Lusan	Building Number 80/
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attack	r each item belo n additional pap	
This record is to be maintained by the Inspecting available by request of EPD or regulatory persor	_	for a minimum of 5 years and made
Send a completed copy to the attention of Allen		IA (1-627) EDD
Check Items	Response	Description and Comments:
 Is water flowing from the Christy box? 	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/N	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	a a	
Is there standing water in the Christy box?	Yes/No	2 0
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/VD	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	20	Date 7-20-1/
Note: This form may be modified or used as percolation pits permitted under Monitoring and Revision 1. If standing water is observed in the mweekly until no standing water is observed.	is for document eporting Progra conthly inspection	ting the routine inspections of the

Date 7-20-11 Inspector 0, 14	LUDRUM	Building Number 805
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f	
Send a completed copy to the attention of Allen G	Grayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	200
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes /N o	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/M	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	æ.	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	XNP	Date 7-20-11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the model, until no standing water is observed.	is for docume eporting Progronthly inspect	nting the routine inspections of the ram Order Number R5-2008-0148, tion, increase inspection frequency to

This record is to be maintained by the Inspecting available by request of EPD or regulatory personn	Organization f nel.	or a minimum of 5 years and made
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes Ø	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	YnQ	Date 7-20-11

Date	1-20-4	Inspector	LAMBER.	L Buildi	ng Number	826
Instruc descri	ctions: Circle the a ptions and comme	appropriate response for nts if necessary. Attach	each item belo additional pape	w, and record the er if extra space	e date and timis is needed.	ne. Provide
This re	ecord is to be main	tained by the Inspecting PD or regulatory persor	ı Organization f			nade
Send	a completed copy t	o the attention of Allen	Grayson, WAM	A (L-627), EPD.		
	<u> (Items</u>		Response	Description an	d Comments:	
1.	Is water flowing fro	om the Christy box?	Yes/61o		<u>a commonto.</u>	•
2.	Are there any signs (damp dirt around	s of recent overflow Christy box)?	Yes/No			
EDC arra	KH Team EA or off	27595) immediately to	8 S			
3.	Is there standing w box?	ater in the Christy	Yes/Me		N	
Incre	es is indicated in 3, ease inspection fre vater is noted	note depth and quency to weekly until			2 G	11
15 0 10	Are there any othe percolation pit requie.g., excessive buaccumulation of directions.	ild up scale.	Yes/ g o		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38
If ye take	s to any of the abo n, and type of repa	ve, note date, actions irs when made.			* x - h -	# . # . # . # . # . # . # . # . # . # .
	visor's Signature	DAVE AM	Novo_	Date		
Revisi	on 1. If standing w	be modified or used as I under Monitoring and I rater is observed in the r water is observed.	is for documer Reporting Progr monthly inspect	nting the routine ram Order Numb tion, increase ins	inspections of er R5-2008-0 pection frequ	f the 1148, ency to

Date /-20-4 Inspector D. J.	rusam	Building Number 8	27-1
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. If extra space is needed.	Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f nel.	or a minimum of 5 years and made	€
Send a completed copy to the attention of Allen G	Brayson, WAM	A (L-627), EPD.	
Check Items	Response	Description and Comments:	
1. Is water flowing from the Christy box?	Yes/	U <u>u </u>	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/M		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	* *		
3. Is there standing water in the Christy box?	Yes/Mo		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No		
If yes to any of the above, note date, actions taken, and type of repairs when made.			,
Supervisor's Signature Property	N	Date 7-20-11	
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the material observed in the ma		nting the routine inspections of the	

Inspector D.	ANDRA	Building Number 85 /
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo	w, and record the date and time. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f	
Send a completed copy to the attention of Allen G	Gravson, WAM	A (I -627) EPD
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes#¶o	5 <u>*</u> <u>*</u>
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/M	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Nro	Date 7-20-11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the mweekly until no standing water is observed.	CONCINA DISA	nting the routine inspections of the

Date 8:3-// Inspector 0- L	ANDRUA	Building Number	801
Instructions: Circle the appropriate response for e descriptions and comments if necessary. Attach a	ach item belo	w, and record the date and time. er if extra space is needed	Provide
This record is to be maintained by the Inspecting Cavailable by request of EPD or regulatory personner.	Organization f		de
Send a completed copy to the attention of Allen Gr	ravson. WAM	A (I -627) FPD	
Check Items	Response	Description and Comments:	15
1. Is water flowing from the Christy box?	Yes/	E 6.8	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No		49
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	a n		
3. Is there standing water in the Christy box?	Yes/Ma		-
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		= 7. 16. The second of the s	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No		2
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature	Nro	Date 8-3-1	//
* Note: This form may be modified or used as i percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the m weekly until no standing water is observed.			

	Date 9-3-11 Inspector 0.	LANDAMA	Building Number	809
	Instructions: Circle the appropriate response for descriptions and comments if necessary. Attack	r each item belo n additional pape	w, and record the date and time. er if extra space is needed.	Provide
	This record is to be maintained by the Inspecting available by request of EPD or regulatory persor	n Organization fo		ie
	Send a completed copy to the attention of Allen	Grayson, WAM	A (L-627), EPD.	
	Check Items	Response	Description and Comments:	
	1. Is water flowing from the Christy box?	Yes/ % o	20 N	
	2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Ma		
	If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	T B n		
	3. Is there standing water in the Christy box?	Yes/ i €ø		
	If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
	 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No		
	If yes to any of the above, note date, actions taken, and type of repairs when made.			
Can published the	Supervisor's Signature The Am	Sow	Date 8-3-11	
	* Note: This form may be modified or used as percolation pits permitted under Monitoring and Revision 1. If standing water is observed in the weekly until no standing water is observed.	s is for documen Reporting Progr monthly inspecti	ating the routine inspections of the am Order Number R5-2008-0148 on, increase inspection frequence	e 3, sy to

Instructi	ons: Circle the appropriate response for	each item belo	ow, and record the date and tin	ne. Provide
	Allach	additional pap	er if extra space is needed.	
availabl	ord is to be maintained by the Inspecting e by request of EPD or regulatory person	Organization f nel.	or a minimum of 5 years and r	nade
Send a	completed copy to the attention of Allen (Grayson, WAM	IA (L-627), EPD.	
Check I	<u>tems</u>	Response	Description and Comments	18 1101 N
1. Is	water flowing from the Christy box?	Yes/(No		
2. A	re there any signs of recent overflow damp dirt around Christy box)?	Yes/ y o		
EDO arran	is indicated to either 1 or 2, contact the I Team EA or off hours contact the (pager 04097 or 27595) immediately to ge for reporting to the regulatory by and sample collection.			
3. ls b	there standing water in the Christy ox?	Yes/ g b		er er
Incre	is indicated in 3, note depth and ase inspection frequency to weekly until ater is noted			224
p (re there any other indications that the ercolation pit requires maintenance e.g., excessive build up scale, ccumulation of dirt or debris).	Yes/1 6		
If yes taker	to any of the above, note date, actions and type of repairs when made.			
Superv	sor's Signature	meno	Date %-3	-//
* No	isor's Signature E: This form may be modified or used a tion pits permitted under Monitoring and in 1. If standing water is observed in the until no standing water is observed in the until no standing water is observed.		enting the routine inspections	

descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting (available by request of EPD or regulatory personn)i	
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD
<u>Check Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Nø	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/Mo	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/I G o	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	WY5/7	Date 8-3-11

Instructions: Circle the appropriate response for educations and comments if necessary. Attach	each item belo additional pape	w, and record the date and timer if extra space is needed.	ne. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personr	Organization fo		nade
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.	
<u>Check Items</u>	Response	Description and Comments	
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Øe		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
Is there standing water in the Christy box?	Yes // Do		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ ig o		
If yes to any of the above, note date, actions taken, and type of repairs when made			
Supervisor's Signature AAA	Now		-//

weekly until no standing water is observed.

structions: Circle the appropriate response for e scriptions and comments if necessary. Attach	additional pap	er if extra space is needed.
nis record is to be maintained by the Inspecting allable by request of EPD or regulatory personn	Organization f nel.	or a minimum of 5 years and made
end a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
<u>neck Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/ ₩	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/M6	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ N o	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature Are	nkow	Date 8-3-11

escriptions and comments if necessary. Attach		
his record is to be maintained by the Inspecting vailable by request of EPD or regulatory personn	Organization fo nel.	or a minimum of 5 years and made
end a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
<u>Check Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/Mo	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Ne	
If yes to any of the above, note date, actions taken, and type of repairs when made		
Supervisor's Signature	NY NO	Date 9-14-11

structions: Circle the appropriate response for e escriptions and comments if necessary. Attach	additional paper	er if extra space is needed.
nis record is to be maintained by the Inspecting ailable by request of EPD or regulatory personr	Organization f nel.	or a minimum of 5 years and made
end a completed copy to the attention of Allen C	Grayson, WAM	A (L-627), EPD.
<u>heck Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	.Yes/Ne	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made		
Supervisor's Signature	MOUD	Date 9-14-11

his record is to be maintained by the Inspecting vailable by request of EPD or regulatory person	Organization fo	or a minimum of 5 years and made
end a completed copy to the attention of Allen (A ((-627) FPD
<u>Check Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	nnews	Date 9-14-11

his record is to be maintained by the Inspecting vailable by request of EPD or regulatory person	Orgánization f nel.	or a minimum of 5 years and made
end a completed copy to the attention of Allen (Grayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No-	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	NY N/O	Date 9 14-11

his record is to be maintained by the Inspecting vailable by request of EPD or regulatory person	Orgánization fo	or a minimum of 5	years and made
end a completed copy to the attention of Allen (A (1-627) EPD	
heck Items	Response	Description and	Comments:
Is water flowing from the Christy box?	Yes/No		oniments.
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No-		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes/Ne		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No-		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature	New 2	Data	9-14-11

Date 9-/4-11

escriptions and comments if necessary. Attach a	additional pape	er ir extra space is needed.
nis record is to be maintained by the Inspecting (vailable by request of EPD or regulatory personn	el.	
end a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
heck Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/Ne	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No-	
If yes to any of the above, note date, actions taken, and type of repairs when made		
Supervisor's Signature	ONYM	Date 9-14-11

is record is to be maintained by the Inspecting (ailable by request of EPD or regulatory personn		or a minimum of 5 years and made
nd a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
neck Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	News	Date 10-18-11

Building Number

Inspector D. LANDRUK

vailable by request of EPD or regulatory persor	inei.	
end a completed copy to the attention of Allen	Grayson, WAM	A (L-627), EPD.
heck Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	NYVO	Date 10-18-11

escriptions and comments if necessary. Attach a	idditional papi	er if extra space is needed.
his record is to be maintained by the Inspecting C vailable by request of EPD or regulatory personne	Organization f el.	or a minimum of 5 years and made
end a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
<u>heck Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Y 117	Date 10-18-11



escriptions and comments if necessary. Attach a	idditional pape	er if extra space is needed.
his record is to be maintained by the Inspecting Ovailable by request of EPD or regulatory personn	Organization fo el.	or a minimum of 5 years and made
end a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
heck Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/Ne	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	NOW >	Date 10-18-1/

his record is to be maintained by the Inspecting		or a minimum of 5 ye	ears and made
vailable by request of EPD or regulatory personi			
send a completed copy to the attention of Allen C	Brayson, WAM	A (L-627), EPD.	
<u>Check Items</u>	Response	Description and C	omments:
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
Is there standing water in the Christy box?	Yes/Mo		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Mo		
If yes to any of the above, note date, actions taken, and type of repairs when made			
Supervisor's Signature	SWAI	Date	10-18-11

Date 16-18-11 Inspector D. LA	NORGE	Building Number 851
Instructions: Circle the appropriate response for e descriptions and comments if necessary. Attach a	ach item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting Cavailable by request of EPD or regulatory personned	Organization f	
Send a completed copy to the attention of Allen Gr	ayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	4 4
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Ng	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	NOW	Date /D-18-11
* Note: This form may be modified or used as is percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the moveekly until no standing water is observed.		nting the routine inspections of the

Date //-2-// Inspector	thou r	Building Nu	mber <u>80/</u>
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach	each item belo additional pape	w, and record the date er if extra space is nee	and time. Provide ded.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization fo		
Send a completed copy to the attention of Allen G	rayson, WAMA	A (L-627), EPD.	
Check Items	Response	Description and Con	nments:
1. Is water flowing from the Christy box?	Yes/No	3%	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	2	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes/No	-	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	- 4		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Ne		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature		Date /	1-2-11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the mweekly until no standing water is observed.		ating the routine inspec	ctions of the

This record is to be maintained by the Inspecting available by request of EPD or regulatory person. Send a completed copy to the attention of Allen G	nei.	
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/Mo	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No-	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Ne	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	CM)	Date 11-2-11

Date 1/-2 - /1

Instructions: Circle the appropriate response for	each item belo	DW and record the date and time. Describe
descriptions and comments if necessary. Attach	additional pap	per if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization t	for a minimum of 5 years and made
Send a completed copy to the attention of Allen	Grayson, WAM	1A (L-627), EPD.
<u>Check Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	S 8
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	7
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Mus	Date 1/-2-1/
* Note: This form may be modified or used as percolation pits permitted under Monitoring and I Revision 1. If standing water is observed in the weekly until no standing water is observed.		enting the routine inspections of the

Date 11-2-01 Inspector D. L.	420241	Suilding	Number	826
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pape	w, and record the cer if extra space is	ate and time	. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization for			ide
Send a completed copy to the attention of Allen G	Brayson, WAM	A (L-627), EPD.		
Check Items	Response	Description and (Comments:	
1. Is water flowing from the Christy box?	Yes/No		2 20	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No			
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	20 P			
3. Is there standing water in the Christy box?	Yes/No	20 00		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	# 2		8 E	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No			
If yes to any of the above, note date, actions taken, and type of repairs when made.				
Supervisor's Signature	Na O	Date	11-2-1	1.00
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the meekly until no standing water is observed.				

Date //-2-// Inspector D. L	4NOUN	Building Number 80/
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo	w, and record the date and time. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization for	
Send a completed copy to the attention of Allen C	Grayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	2 2 2
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	8 G	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Ne-	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Amer	Date 11-2-11
* Note: This form may be modified or used a percolation pits permitted under Monitoring and	s is for docume Reporting Prog	enting the routine inspections of the gram Order Number R5-2008-0148,

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Date 1/-2-11 Inspector 0- L	AUDZGA	Building Number 809
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach	each item belov additional pape	w, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization fo	or a minimum of 5 years and made
Send a completed copy to the attention of Allen G	Grayson, WAM/	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/Mo	de la designation designation de la designation
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Ne	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	nico	Date //-Z-//
* Note: This form may be modified or used as percolation pits permitted under Monitoring and I	s is for docume Reporting Prog	enting the routine inspections of the gram Order Number R5-2008-0148,

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Date //- 2-1/ Inspector O.L.	NORGA	Building Number	811-4
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and tin er if extra space is needed.	ne. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f iel.	or a minimum of 5 years and r	made
Send a completed copy to the attention of Allen G	rayson, WAM	IA (L-627), EPD.	
Check Items	Response	Description and Comments	34
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			es Eu
3. Is there standing water in the Christy box?	Yes/Ne		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Mo		
If yes to any of the above, note date, actions taken, and type of repairs when made.			42 (4.6.3)
Supervisor's Signature	NEW		- 11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and Revision 1. If standing water is observed in the rweekly until no standing water is observed.	Reporting Pro	enting the routine inspections of gram Order Number R5-2008-	of the

descriptions and comments if necessary. Attach a This record is to be maintained by the Inspecting	Organization fo	
available by request of EPD or regulatory personn		
Send a completed copy to the attention of Allen G	Brayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
 Is water flowing from the Christy box? 	Yes/No	*
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	8 B	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Anero	Date 11-2-11

Date $1/-2-1/2$ Inspector $1/2-1/2$	wan	Building Number 827A
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach	each item belo additional pape	w, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personn	Organization fo	or a minimum of 5 years and made
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/Mo	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Nero	Date 11-2-11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and I Revision 1. If standing water is observed in the weekly until no standing water is observed.	Reporting Prod	gram Order Number R5-2008-0148

his record is to be maintained by the Inspecting C vailable by request of EPD or regulatory personne	organization for el.	a minimum of 5 years and made
send a completed copy to the attention of Allen Gr	ayson, WAMA ((L-627), EPD.
Check Items	Response	Description and Comments:
Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature Are A	11 Yax	Date //-Z-//

Date 12-21-11 Inspector D. L	AUDAU.	Building Number 80/
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization f nel.	or a minimum of 5 years and made
Send a completed copy to the attention of Allen G	Brayson, WAM	IA (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/(Nd)	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/(v)	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	mucro	Date 12-21-11
* Note: This form may be modified or used as	s is for docume	enting the routine inspections of the

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Date 12-21-(1 Inspector 0. M	Noun	Building Number	805
Instructions: Circle the appropriate response for e descriptions and comments if necessary. Attach a	ach item belo additional pap	w, and record the date and ti er if extra space is needed.	me. Provide
This record is to be maintained by the Inspecting Cavailable by request of EPD or regulatory personner.	Organization f	or a minimum of 5 years and	made
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.	
Check Items	Response	Description and Comments	<u>s:</u>
1. Is water flowing from the Christy box?	Yes/100		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo		,a
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			e a saj
3. Is there standing water in the Christy box?	Yes/Mo		<u> </u>
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			. α , α
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/N		2 11
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature Parc Ann	ero	Date	21-11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R Revision 1. If standing water is observed in the n weekly until no standing water is observed.	Reporting Proc	gram Order Number R5-2008	2-0148

Date /2-21-11 Inspector	D. LANDEMM	Building Number S17-
		2 0
Instructions: Circle the appropriate respondescriptions and comments if necessary.	onse for each item below Attach additional pape	w, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Insavailable by request of EPD or regulatory	specting Organization for personnel.	or a minimum of 5 years and made
Send a completed copy to the attention of	of Allen Grayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy bo	ox? Yes/🛭 🕏	
Are there any signs of recent overf (damp dirt around Christy box)?	flow Yes/No	
If yes is indicated to either 1 or 2, conta ES&H Team EA or off hours contact th EDO (pager 04097 or 27595) immedia arrange for reporting to the regulatory agency and sample collection.	ne ately to	
Is there standing water in the Chris box?	sty Yes/🗐 🌶	
If yes is indicated in 3, note depth and increase inspection frequency to week no water is noted	ily until	
 Are there any other indications that percolation pit requires maintenan (e.g., excessive build up scale, accumulation of dirt or debris). 	at the Yes/ () b ce	
If yes to any of the above, note date, a taken, and type of repairs when made	ictions	
Supervisor's Signature	2 Amous	Date 12-21-11
* Note: This form may be modified or percolation pits permitted under Monitor Revision 1. If standing water is observe weekly until no standing water is observe	ing and Reporting Prog	gram Order Number R5-2008-0148

This record is to be maintained by the Inspecting of available by request of EPD or regulatory personn	el.	or a minimum or o years and made
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/🕪	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.	1	
Supervisor's Signature	nvero	Date 12-21-1

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist* For Buildings 801, 809, 817A, 826, 827A, and 851 Waste Discharge Requirements Order Number R5-2008-0148 Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12-21-11 Inspector O. br	224M	Building Number 8)74
Instructions: Circle the appropriate response for edescriptions and comments if necessary. Attach a	ach item belo additional pape	w, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting (available by request of EPD or regulatory personn	Organization fo el.	or a minimum of 5 years and made
Send a completed copy to the attention of Allen G	rayson, WAM	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/M	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	NMO	Date 12-21-//
* Note: This form may be modified or used as percolation pits permitted under Monitoring and F	is for docume Reporting Prog	enting the routine inspections of the

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist* For Buildings 801, 809, 817A, 826, 827A, and 851 Waste Discharge Requirements Order Number R5-2008-0148 Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date D-1-11 Inspector D-	NORUM	Building Number 85/
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item below additional pape	v, and record the date and time. Provide r if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization fonel.	r a minimum of 5 years and made
Send a completed copy to the attention of Allen G	Brayson, WAMA	A (L-627), EPD.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/Mb	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Mo	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ M o	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/Mo	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Anxon	Date 12-21-//
* Note: This form may be modified or used as percolation pits permitted under Monitoring and I Revision 1. If standing water is observed in the weekly until no standing water is observed.	Reporting Progr	nting the routine inspections of the

Appendix C

Mechanical Room Network

Mechanical Equipment Discharge Effluent Monitoring for Buildings 806B and 827A, 827C, 827D, and 827E

Mechanical Equipment Room Percolation Pit Inspection Forms

Table C-1. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 anions data summary.

Well	Date	Nitrate (as NO3) mg/L	Fluoride mg/L	Chloride mg/L	Sulfate mg/L
B806B	May 3	<0.5	0.25	70	150
B806B	Oct 3	<0.5	0.30	87	170
B827A	May 10	<0.5	0.51	110	220
B827A	May 10 DUP	<0.5	0.52	100	220
B827A	Oct 11	0.61	0.44	96	200
B827C	May 9	<0.5	0.49	120	250
B827C	Oct 11	<0.5	0.40	90	180
B827D	May 5	<0.5	0.28	82	170
B827D	Oct 10	<0.5	0.32	130	280
B827E	May 18	<0.5	0.28	77	170
B827E	Oct 5	12	0.43	180	220
B827E	Oct 5 DUP	12	0.46	180	220

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary.

Analyte	Date	B806B	B827A	B827A DUP	B827C	B827D	B827E	B827E DUP
Aluminum (mg/L)	May 3	< 0.05	-	-	-	-	-	-
	May 5	-	-	-	-	< 0.05	_	-
	May 9	-	77 -	-	<0.05	_	_	-
	May 10	-	< 0.05	<0.05	-	-	-	-
	May 18	-	-	-	-	-	< 0.05	-
	Oct 3	< 0.05	-	-	-	-		-
	Oct 5	-	-	-	-	-	6.5	6.0
	Oct 10	-	-	-	-	0.096	-	-
	Oct 11	-	< 0.05	-	< 0.05	_	-	-
Arsenic (mg/L)	May 3	< 0.002	_	-	-	-	-	-
	May 5	-	-	_	-	< 0.002	-	-
······································	May 9	-	ia -	-	< 0.002	-	-	-
	May 10	-	< 0.002	< 0.002	-	-	-	-
	May 18	_	-	-	-	-	< 0.002	-
	Oct 3	< 0.002	-	-	-	_	-	-
	Oct 5	_	_	-	-	-	< 0.002	0.0055
	Oct 10	-	_	-	-	< 0.002	-	-
	Oct 11	_	< 0.002	-	< 0.002	_	-	-
Barium (mg/L)	May 3	< 0.025	_	-	· ·	_	-	-
	May 5	-	-	-	_	< 0.025	-	-
	May 9	-	-	-	<0.025	-	· -	-
	May 10	-	< 0.025	< 0.025	-	-	_	-
	May 18	-	-	_	-	-	< 0.025	-
	Oct 3	< 0.025	-	-	-	-	-	-
	Oct 5	_	-	-	-	-	< 0.025	0.055
	Oct 10	_	-	-		< 0.025	-	-
	Oct 11	_	< 0.025	-	< 0.025	-	-	-
Boron (mg/L)	May 3	0.84	-	-	-	-	-	-
	May 5	_	-	-	-	0.92	-	
	May 9	_	_	- 1	1.4	-	-	-
	May 10	-	1.4	1.3	-	-	-	-
•11	May 18	-	-		-	-	0.92	-
	Oct 3	0.90	-	-	-	-	_	-
	Oct 5	-	-	-	-	-	0.89	0.85
	Oct 10	-	-		-	1.5	-	-
	Oct 11	-	1.1	-	0.97	-	-	-
Cadmium (mg/L)	May 3	< 0.05	-	-	-	-	-	-
	May 5	_	-		-	< 0.05	-	_
• "	May 9	-	-	-	< 0.05	-	-	-
	May 10	-	< 0.05	< 0.05	-	-	- **	-
	May 18	-	-	-	-	-	< 0.05	-
	Oct 3	< 0.05	-	- 1	-	-	_ 3	-
	Oct 5	-	-	- 1	-	-	< 0.05	<0.05
	Oct 10	-	-	-	-	< 0.05	-	-
	Oct 11	-	< 0.05	-	< 0.05	-	_	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

Chromium (mg/L)	May 3	< 0.001	_	_	Τ -		-	
(6/2)	May 5		_		-	<0.001	-	_
Chromium (mg/L)	May 9	-	_	_	0.0011	-0.001	-	<u>-</u>
om om am (mg/2)	May 10	-	< 0.001	<0.001	- 0.0011	-		<u>-</u>
	May 18		-	-0.001	 	-	<0.001	-
	Oct 3	<0.001	-	_	 		-0.001	-
	Oct 5		-	-		-	0.011	0.012
	Oct 10		-	-	 	0.0022		0.012
	Oct 10	-	<0.001		<0.001	 	-	-
Hexavalent	May 3	<0.001	- 0.001			-	-	#
Chromium (mg/L)		\0.001	- 19	-	-	-	-	-
 .	May 5	-	-	-	-	< 0.001	-	
	May 9	<u> </u>	-	-	<0.001	-	-	_
	May 10		<0.001	< 0.001		-	-	_
	May 18	<u>-</u>	-	_	-	-	< 0.001	_
	Oct 3	< 0.001	-	-	-	-	_	-
	Oct 5	-	-	-	-	_	< 0.001	< 0.001
	Oct 10	- 19	-	-	-	< 0.001	-	-
<u> </u>	Oct 11	-	< 0.001	-	< 0.001	_	-	_
Copper (mg/L)	May 3	0.059	-	-	-	_	-	_
	May 5	-	-	_	-	0.033	_	-
_	May 9	-	-	-	0.96	-		_
,	May 10	-	0.0098	0.0098	_	_		-
	May 18	-	_		_	-	0.018	-
	Oct 3	0.052	-	-	_	-		-
	Oct 5	-	_	-	_	_	< 0.001	0.69
	Oct 10	-		-		0.45	_	
	Oct 11	-	0.0064	_	0.027	-	_	-
Iron (mg/L)	May 3	<0.1	_		-	_	_	
	May 5	-	_	-		1.2		
	May 9	_	_	_	3.6		_	-
	May 10	_	0.12	0.12	-		-	-
	May 18	_	_	-	 -	_	0.38	_
	Oct 3	<0.1	_		_	_	-	-
	Oct 5	-	_	-	-	_	12	11
	Oct 10	-	_	-	_	7.1	-	-
	Oct 11		<0.1		1.0	- 7.1		
Lead (mg/L)	May 3	<0.005	-	_	-	-	_	
	May 5	-	_	_	 -	< 0.005	-	-
	May 9	*5			0.0096	-	-	
	May 10		<0.005	<0.005	-		-	
	May 18		- 0.003		-	<u>-</u> -	<0.005	-
	Oct 3	<0.005	-		-			-
	Oct 5	-0.003	-		-	-	-0.005	0.022
	Oct 10	-	-		-	0.0001	<0.005	0.023
	Oct 10				-0.005	0.0081	-	-
	Uct II		< 0.005	<u> </u>	<0.005	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

metals data summar	y. (Cont.)							
Manganese (mg/L)	May 3	< 0.03	-	-	_	-	-	-
	May 5	-	-	-	-	< 0.03	-	_
"	May 9	-	-	-	0.22	-	-	_
	May 10	-	< 0.03	< 0.03	-	_	_	_
	May 18	-	-	_	-	_	<0.03	((*) -
	Oct 3	< 0.03	-	_	_	_	-	
	Oct 5	-	_	_	_	_	0.18	0.16
	Oct 10	_	_	_	-	0.13	-	-
	Oct 11	_	<0.03	-	<0.03	- 0.15	-	-
Molybdenum (mg/L)	May 3	< 0.025	-0.05	_	-			_
11101) 0 4 6 14 14 14 14 14 14 14 14 14 14 14 14 14	May 5		_	_	_	<0.025		-
	May 9	_	_		0.025	- 0.023		-
,,a	May 10	_	0.026	0.027		_		
	May 18		0.020	- 0.027		_	<0.025	
	Oct 3	<0.025	-	-	-		<0.023	-
	Oct 5	<0.023	 	 	 	-	-0.025	
	Oct 10		-	-	-	0.022	<0.025	<0.025
	Oct 10		<0.025	-		0.032	-	-
Nickel (mg/L)		<0.002	·	-	<0.025	-	-	-
Nickel (mg/L)	May 3	<0.002	-	-	-	-0.000	-	-
	May 5	-	-	-	- 0.014	<0.002	-	-
	May 9	-	-	-	0.014	-	-	-
	May 10	-	<0.002	<0.002	-	-	-	-
	May 18	-	-		-	-	<0.002	-
	Oct 3	< 0.002	-	-	-	-	-	-
	Oct 5		-	-	-	-	<0.002	0.016
	Oct 10		-	-	-	0.0065	-	-
	Oct 11	-	< 0.002	-	<0.002	-	-	-
Selenium (mg/L)	May 3	<0.002	-	-			-	-
	May 5		-	-	-	<0.002	-	-
	May 9	-	-		<0.002			
	May 10		< 0.002	< 0.002	-	-	-	-
	May 18	-	-		-	-	< 0.002	-
	Oct 3	< 0.002	_	-	-	-	-	-
	Oct 5	-	_	-	-	-	< 0.002	< 0.002
	Oct 10	-	-	_	-	< 0.002	-	-
	Oct 11	-	< 0.002	-	< 0.002	-	-	-
Silver (mg/L)	May 3	< 0.01	-	-	_	-	-	-
	May 5	-	-	_	-	< 0.01	-	_
	May 9	ıı -	-	-	<0.01	-	-	-
	May 10	_	< 0.01	< 0.01	-	_	_	_
	May 18	_	-	-	-	_	<0.01	-
	Oct 3	< 0.001	-	-	_	-	-	-
	Oct 5	-	-	_	-	-	<0.01	<0.01
	Oct 10	_	_	_	_	<0.01	-	-
	Oct 11	-	<0.01	_	<0.01	-	_	
Sodium (mg/L)	May 3	200	-	<u> </u>		~	-	
Comm (mg/D)	May 5	-	-	-		240		
	May 9	-	_		350		 	
· · ·	May 10	-	290	290	 -	-	-	-
	May 18	-			-	-		-
		210	-	•	-	-	230	
	Oct 3	210	-	-	-	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

metals data summar Sodium (mg/L) (cont.)			_		<u> </u>		200	200
Soutum (mg/L) (cont.)	Oct 10		-	-	-	260	290	280
	Oct 10	-	240	-	250	360	-	-
Vanadium (mg/L)	May 3	<0.02	-			-	-	-
valiaulum (mg/L)	May 5		-	-			-	-
	May 9	-				<0.02	-	
		-		-	< 0.02		- -	
	May 10		<0.02	<0.02	- -	-	-	
	May 18	-0.00	-	-	<u>-</u>	-	<0.02	
<u> </u>	Oct 3	< 0.02	-	-	-	-	-	
	Oct 5	-	-	-	-	-	<0.02	0.032
	Oct 10	-	-		-	<0.02	-	
/7° / /T \	Oct 11	-	<0.02		<0.02	-		
Zinc (mg/L)	May 3	<0.02	<u> </u>		-		-	
	May 5	_	-		-	0.022	-	
	May 9	-	-		0.091	-		-
	May 10		0.034	0.037_	-	-	-	-
	May 18	-	-	-	-	_	< 0.02	-
	Oct 3	<0.02	-	<u> </u>		-	-	_
	Oct 5	-	_	-	-	-	< 0.02	0.44
	Oct 10		_	-	-	0.11	_	-
	Oct 11		0.028	-	<0.02	_	_	_
Calcium (mg/L)	May 3	7.1	-	-	-	_	-	_
	May 5	-	-	-	-	9.2	-	-
	May 9	_	-	-	0.74	-	-	-
	May 10	-	13	12	-	-	-	-
	May 18	-	-	_	-		0.98	-
· · · · · · · · · · · · · · · · · · ·	Oct 3	7.8	-	-	_		-	
	Oct 5	_	-	-	_		6.2	5.8
	Oct 10		_		_	5.3	-	
	Oct 11		10	_	<0.5	-	-	
Magnesium (mg/L)	May 3	<0.5	-		-	_	_	
<u> </u>	May 5		_	_		<0.5	_	
	May 9		_		<0.5	-	-	
	May 10	_	<0.5	<0.5	-	_	_	
	May 18		-	-	_	-	<0.5	 -
	Oct 3	<0.5	_		-		-	
	Oct 5	-	-		_	-	4.0	3.6
	Oct 10	-	-	-	_	<0.5		-
	Oct 11		<0.5	-	<0.5	-		
Potassium (mg/L)	May 3	7.5	-	-	-		<u>-</u>	
(11.8/2)	May 5		-	<u> </u>	-	10	-	-
	May 9		-		14		-	-
_	May 10	<u> </u>	11	11		-	-	-
	May 18				-		2.0	-
	Oct 3	7.8	-	-	-		2.0	
	Oct 5		-	-	-	-	-	
		-	-	-	-	1.6	5.4	5.2
	Oct 10		-	<u>-</u>	-	16		- <u>-</u>
	Oct 11	-	9.5		3.8		-	

Note:

⁻⁼ Sampling not required, sampling was performed for that analyte on a different date.

Table C-3. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 physical data.

Well	Date	Total Phosphorus (as PO4)	Total dissolved solids (TDS)	pН	Total Hardness (as CaCO3)	Total Alkalinity (as CaCO3)	Specific Conductance
B806B	May 3	<0.15	650	8.5	19	180	950
B806B	Oct 3	<0.15	730	8.5	21	200	1,100
B827A	May 10	0.52	900	8.8	33	260	1,300
B827A	May 10 DUP	0.51	910	8.8	32	260	1,300
B827A	Oct 11	0.33	830	8.7	27	210	1,000
B827C	May 9	5.5	1,000	9.9	2.1	310	1,500
B827C	Oct 11	0.26	760	8.4	1.4	220	1,100
B827D	May 5	0.44	720	8.9	24	220	1,000
B827D	Oct 10	0.99	1,000	10	15	290	1,600
B827E	May 18	<0.15	720	9.1	2.6	210	1,000
B827E	Oct 5	2.4	890	9.4	32	160	1,400
B827E	Oct 5 DUP	2.3	970	9.4	29	160	1,400

Copy of CoC given to TRR

Copy to Analyst, Rick Blake.

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October. ** For 3-B827A-01-OW Contact FPOC; Off-road travel See back of form for additional access information

Sample Date: /C/

LAB	#OOO	Ship It#
C Labs	4444	
altest		

pH meter calibrated on: $\frac{2\sqrt{3}}{L}$ Specific Conductance meter calibrated on: $\frac{2\sqrt{3}}{L}$

				Field	Field Meas	ā	BC Labs	4	Comments
	Location Indentifier	Sample Time	Initials	рН	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	SENG STATED OF 15 COMPOSITE COMPOSITE SOUND CONSISSED OF 70, 150M/ SIMPLES OVE A 6 HOUT TIMP FROM
4-7	3-B827A-01-OW**								29,1 collecion
	3-B827C-01-OW								
	3-B827D-01-OW								
	3-B827E-01-OW								
¥	3-B806-01-OW	OOh!	X	8.87	104544	1	7	7	
1	Duplicate of 3-B827E-01-OW	wo-							
	3-B9900-OW								
	\								

X

Chain of Custody

EPD: EMAD/PRAD/ESPD	Access/COC #: 54474	Analytical L
Lawrence Livermore National Laboratory	Document Control #: 54474	•
P.O. Box 808 L-629	Requester/LLNL Analyst: R. Blake	_ Analytical Lab Lo
Livermore. CA 94551	Organization / Sampler: EPD / brunckhorst2	Project/Netw
	PCI Project #: 35166	_ LLNL Ac
Work Authorized By: EPD	PCI Task #: 1.03.02.06.02.07	Releas
TRR Approver:	Fax/Email #1: swanson15@llnl.gov	Fax/Emai
Dunional Info	DMT Additional Contact	ı

Additional Instructions:			98				
Analytical Lab: BCLABS-BAK	TAT: 20d	Analytical Lab Log #:	Project/Network: MECHEQUIPMNTRMS	LLNL Acct #: 3297-47	Release #: UNICARD	Fax/Email #2:	34
		:	khorst2		2.07	到llnl.gov	

TRR Approver:		Ta T	x/Emai	#1:sw	Fax/Email #1:swanson15@llnl.gov	Fax/Email #2:		
Project Info:	DMT Addi		tional Copies:	jes:				
Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-B806B-01-OW	10/03/2011 14:00	AQ	Д.	1	MECHEQUIPM	S3ANIONS	ALL	
3-B806B-01-OW	10/03/2011 14:00	PΩ	Ь	1	MECHEQUIPM	S3METALS	ALL	
3-B806B-01-OW	10/03/2011 14:00	γo	Ь	0	MECHEQUIPM	S3METALS	TOTAL	
3-B806B-01-OW	10/03/2011 14:00	ΑQ	Ь	1	MECHEQUIPM	S3WETCHEM	ALL	
							8	
12								
					-			

	:						
Relinguished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 Lan Frederi	LLNL/EPD	10/3/2011	10/3/2011 /500	2			
2				3			
3				4			
4				5			
Revision Printed: 09/13/2011/15/50/25	Signat	ature Order - 1	: Sampler, 2: C	ture Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT			Page 1 of 1

Copy of CoC given to TRR

Copy to Analyst, Rick Blake.

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October.
See back of form for additional access information
*** For 3-B827A-01-OW Contact FPOC; Off-road travel

Sample Date: /0/5

LAB	#5°S	Ship It #
BC Labs	54529	
altest		

pH meter calibrated on 0/5/1/1
Specific Conductance meter calibrated on: 10/1/1/

Comments	COMPOSTE Sungle Cont. Seed of 78,150 m1 Sample 5	over abhout time have		Arrox 8 Bires College					
ps	S3WETCHEM 1000mL Poly				7				7
BC Labs	S3ANIONS 1 x 500ml Poly				7				7
L	S3METALS 500mL Poly				7				7
Field Meas	Specific Conductance				1362.us				11
Field	рН				856				11
	Initials				KS.				11
	Sample Time				1405			MO.	"
	Location Indentifier	3-B827A-01-OW**	3-B827C-01-OW	3-B827D-01-OW	3-B827E-01-OW	3-B806-01-OW		Duplicate of 3-B827E-01-OW	3-B9900-OW

Chain of Custody

EPD: EMAD/PRAD/ESPD	Access/COC #: 54529	Analytical Lab : BCLABS-BAK	Additional Instructions:
Lawrence Livermore National Laboratory	-aboratory Document Control #:54529		
P.O. Box 808 L-629	Requester/LLNL Analyst: R. Blake	Analytical Lab Log #:	
Livermore, CA 94551	Organization / Sampler: EPD / brunckhorst2	Project/Network: MECHEQUIPMNTRMS	
	PCI Project #: 35166	LLNL Acct #: 3297-47	
Work Authorized By: EPD	PCI Task #: 1.03.02.06.02.07	Release #: UNICARD	
TRR Approver:	Fax/Email #1: swanson15@llnl.gov	Fax/Email #2:	
Project Info:	DMT Additional Copies:		
	Sampled Cont. Cont.	Roa Analusia	

Lab Instructions																华									
Analysis Detail	IJA	AII	TOTAL	All	All	A	TOTAL	All																	
Req. Analysis	SANIONS	Sametals	S3METALS	S3WETCHEM	SANIONS	S3METALS	S3METALS	S3WETCHEM												-					
Study Area	SPECIAL																								
Court Count	-	-	0	1	-	-	0	-			1				Ī								T	Ī	1
Cont. Type	_	۵	٦	Ь	Ь	۵.	۵	۵		T	1	1	<u> </u>	Ī	T	1	-				T	<u> </u>	T		1
Matrix	ΑQ	ΑQ	AQ	AQ	AQ	AQ	AQ	AQ			1				1							Ī	ľ		1
Sampled Date/Time	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05	10/05/2011 14:05																	
Sample ID	3-B827E-01-OW	3-B827E-01-OW	3-B827E-01-OW	3-B827E-01-OW	3-B9900-01-OW	3-B9900-01-OW	3-B9900-01-OW	3-B9900-01-OW																	

Belingwished Signature	Company	200	- Carrie				
	Company	Date	901	Received Signature	Company	Date	_ime
1 Klub Lundh	LLNL/EPD	10/5/2011	10/5/2011 /530	2			
2							*
				2			
ന				4			
*						50	
Davision Brintad: 00/42/2044 /4E/E0 ME	Ċ						
Nevision Fillited, 03/10/2011/10/00/20	Signa	nature Order - 1	: Sampler, 2: C	nature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT			Page 1 of 1

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

October.			
sampled in early April and	s information	2; Off-road travel	
Special Instructions: Should be sampled in early April and October.	See back of form for additional access information	** For 3-B827A-01-OW Contact FPOC; Off-road travel	
Special Ins	See back o	** For 3-B8	

Sample Date: (0/10)

LAB	# 20 2	Ship It #
BC Labs	54570	
Caltest		
	/ /	
nH meter calibrated on: 10/10/1	mindi	

pH meter calibrated on: 70/10/11/ Specific Conductance meter calibrated on: 20/10/11/

Comments	B27D STAINED ON 7.35 COMPOSINE SOMP (CONS. SOM O) OF 80, 150 m) Somples	Collected over a 61h	how some was	The same of the sa	Aprex. & Crus College				TRR
BC Labs	S3WETCHEM 1000mL Poly	-		_					Copy of CoC given to TRR
BC		-		-					y of Co
as	S3METALS 500mL Poly Specific Conductance			sports					ပ္သိ
Field Meas	рН			15B-150					
	Initials			M SH					
	Sample Time			01/10			MO.		. Blake.
	Location Indentifier	3-B827A-01-OW**	3-B827C-01-OW	3-B827D-01-OW	3-B827E-01-OW	3-B806-01-OW	Duplicate of 3-B827E-01-OW	3-B9900-OW	Copy to Analyst, Rick Blake.

Chain of Custody

EPD: EMAD/PRAD/ESPD	Access/COC #: 54570	Analytical Lab : BCLABS-BAK	Additional instructions
Lawrence Livermore National Laboratory	Document Control #: 54570	TAT:20d	
P.O. Box 808 L-629	Requester/LLNL Analyst: R. Blake	Analytical Lab Log #:	
Livermore, CA 94551	inckhorst2	Project/Network: MECHEQUIPMNTRMS	
	PCI Project #: 35166		
Nork Authorized By: EPD	PCI Task #: 1.03.02.06.02.07	Release #: UNICARD	
I KK Approver:	Fax/Email #1: swanson15@llnl.gov	Fax/Fmail #2-	
Project Info:	DMT Additional Copies:		

Lab Instructions						ā																
Analysis Detail	1 0	1 -	TOTAL	ALL																		
Req. Analysis	SANIONS	SAMETALS	S3METALS	S3WETCHEM																		
Study Area	SPECIAL	SPECIAL	SPECIAL	SPECIAL																		
Court. Count	-	-	0	-			ľ	l	T	\dagger	†	1			-	T					\dagger	1
Cont. Cont. Type Count	_	۵	۵	П				r	<u> </u>	1	1	1	1					_		-		
Matrix	AQ	Ą	AQ	ΑQ																		
Sampled Date/Time	10/10/2011 14:10	10/10/2011 14:10	10/10/2011 14:10	10/10/2011 14:10																		
Sample ID	3-B827D-01-OW	3-B827D-01-OW	3-B827D-01-OW	3-B827D-01-OW																	•	

Kelinguished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 Dal Luckh	LLNL/EPD	10/10/2011	10/10/2011 1530 2	2	final in	2002	D
2							
				•			
~			ľ				
7							
Revision Printed: 09/13/2011/15/50/25	rio.	20,000					
	Big		. sampier, z. C.	atule Older - I. Sampler, Z. Courier, 3: Lab, 4: Analyst, 5: DMT			Page 1 of 1

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October. See back of form for additional access information
** For 3-B827A-01-OW Contact FPOC; Off-road travel

Sample Date:

pH meter calibrated on: 10/1/1 Specific Conductance meter calibrated on: 10/1/1

80mposin Sample CONS. Sudor 75,150 m1 Souples collexed over a 61/2 hour time frank 15871 C STANDED at 7:30am. Composize Sample Consisted of APPIOX & Liters Collected Allox Slins. Collected 8274 STANGOS 7:50 am 80,150m1 Samples over a 6 1/2 hour min Froms. Comments S3WETCHEM 1000mL Poly BC Labs **S3ANIONS** 1 x 500ml Poly **S3METALS** 500mL Poly 114645 **Specific Conductance** Field Meas 6.42 8.96 pН SI Initials 00 11 0/6/ Sample Time Duplicate of 3-B827E-01-OW 3-B827A-01-OW** 3-B827C-01-OW 3-B827D-01-OW 3-B827E-01-OW 3-B806-01-OW Location Indentifier 3-B9900-OW

Copy to Analyst, Rick Blake.

Copy of CoC given to TRR

Date	6/16/2011 Inspect	or MARK	KRAUHS	4	Building Number	<u>806B</u>
Instru	actions: Circle the appropriate riptions and comments if nece	e response for essary. Attach	each item belo additional pape	w, and re er if extra	cord the date and ting space is needed.	me. Provide
	record is to be maintained by able by request of EPD or reg			or a minir	num of 5 years and	made
Send	a completed copy to the atter	ntion of Allen G	arayson, WAM	A (L-627)	, Environmental Fur	ctional Area
Chec	k Items		Response	Descrip	tion and Comments	<u>:</u>
1.	Is water flowing from the Chi	risty box?	Yes/No			
2.	Are there any signs of recent (damp dirt around Christy bo		Yes No			
ES ED arra	es is indicated to either 1 or 2 &H Team EA or off hours con O (pager 04097 or 27595) imp ange for reporting to the regul ency and sample collection.	tact the mediately to	S 8			
3.	Is there standing water in the box?	e Christy	Yes/No			
inc	es is indicated in 3, note deptl rease inspection frequency to water is noted					
4.	Are there any other indication percolation pit requires main (e.g., excessive build up scal accumulation of dirt or debris	tenance le,	Yes/No			
	es to any of the above, note o					
	19.	1	,			
Supe	rvisor's Signature	t Sole			Date 9/18/	///

6/16/2011

^{*} Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Inspector

Building Number

04/11 kjf

		A (L-627), Environmental Functional A
heck Items	Response	Description and Comments:
Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	YestNo	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

weekly until no standing water is observed.

Revision 5

Inspector /

Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide her if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person		for a minimum of 5 years and made
Send a completed copy to the attention of Allen C	arayson, WAM	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No)	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yesini	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water₅in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/Ño	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	May 1	Date

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Building Number 827C

Date 6/27/11

Building Number

Inspector Aaron T. Fortes

vailable by request of EPD or regulatory personr Send a completed copy to the attention of Allen G	nel.	or a minimum of 5 years and made A (L-627), Environmental Functional Arc
Check Items	<u>Response</u>	<u>Description and Comments:</u>
Is water flowing from the Christy box?	Yes <i>l</i> Vd	
Are there any signs of recent overflow (damp dirt.around_Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA er off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/🕅	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions		

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

04/11 kjf

Inspector

Building Number

This record is to be maintained by the Inspecting available by request of EPD or regulatory person		or a minimum of o yourd and made
Send a completed copy to the attention of Allen (Grayson, WAM	A (L-627), Environmental Functional Ar
<u>Check Items</u>	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arranges for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/(V)	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Date	MOSISIF	Inspector _	MARK	KRAUAS	Building N	umber	806B
Instru	actions: Circle the apriptions and commen	propriate resp ts if necessar	ponse för e y. Attach a	each item belov additional pape	w, and record the dat er if extra space is ne	e and tir eded.	ne. Provide
	record is to be mainta able by request of EP				or a minimum of 5 yea	ars and	made
Send	a completed copy to	the attention	of Allen G	rayson, WAMA	A (L-627), Environme	ntal Fun	ctional Area
Chec	k Items			Response	Description and Co	<u>mments</u>	<u>.</u>
1.	Is water flowing from	n the Christy	box?	Yes(No	<u> </u>		
2.	Are there any signs (damp dirt around C		rflow	Yes(No			
EŠ ED arra	es is indicated to eith &H Team EA or off h O (pager 04097 or 2 ange for reporting to ency and sample colle	ours contact 7595) immedi the regulatory	the iately to				
3.	Is there standing wabox?	ater in the Chr	risty	Yes (No		ă.	
inc	es is indicated in 3, n rease inspection freq water is noted						
4.	Are there any other percolation pit requi (e.g., excessive buil accumulation of dirt	res maintena d up scale,		Yes(No			
	es to any of the aboven, and type of repail				5		
Supe	rvisor's Signature	Robert	Box	<i>j</i>	Date	7/12	/1/
perco	lote: This form may plation pits permitted sion 1. If standing wa	under Monito	ring and Re	eporting Progra	am Order Number R	5-2008-0	0148,

Inspector

This record is to be maintained by the Inspecting available by request of EPD or regulatory person		or a minimum or 5 years and m	aue
Send a completed copy to the attention of Allen C	Grayson, WAM	A (L-627), Environmental Funct	ional Are
<u>Check Items</u>	Response	Description and Comments:	
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt-around Christy box)?	Yes/No [®]		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency-and sample collection.			
Is there standing water in the Christy box?	Yes/No)
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes(No		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature Patrick of San	Hantin	Date 7:25	·//

weekly until no standing water is observed.

Building Number 827A

Date $1/25/11$ Inspector $A \cdot F$	ontes	Building Number _	8271
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach This record is to be maintained by the Inspecting	additional paper if	extra space is needed.	Se Contraction
available by request of EPD or regulatory person		Timinimum of 3 years and h	liaue
Send a completed copy to the attention of Allen C	Grayson, WAMA (L	-627), Environmental Fund	tional Area
<u>Check Items</u>	Response Do	escription and Comments:	
Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No =		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
Is there standing water in the Christy box?	Yes/No		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No		2 - Carlos (1970)
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature <u>Intuition</u>	Mayler	Date <u>7.25</u>	- -//

Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Building Number

This record is to be maintained by the Inspecting available by request of EPD or regulatory person		for a minimum of 5 years and made
Send a completed copy to the attention of Allen (Grayson, WAM	IA (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/(vo)	
2. Are there any signs of recent overflow (damp dirt-around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H. Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature <u>January</u> Signature Supervisor's Note: This form may be modified or used as	Mayhu	Date

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5

weekly until no standing water is observed.

Date 7/25/11

Inspector

Date	8/15/2011 Inspector MAR	K KRAWK	Building Number _ <u></u>
	uctions: Circle the appropriate response riptions and comments if necessary. Atta		w, and record the date and time. Provide er if extra space is needed.
	record is to be maintained by the Inspect able by request of EPD or regulatory pers		or a minimum of 5 years and made
Send	a completed copy to the attention of Alle	en Grayson, WAM	A (L-627), Environmental Functional Area
Chec	k Items	Response	Description and Comments:
1.	Is water flowing from the Christy box?	Yes(No)	
2.	Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/Nd)	
EŠ ED arra	es is indicated to either 1 or 2, contact th &H Team EA or off hours contact the O (pager 04097 or 27595) immediately to ange for reporting to the regulatory ency and sample collection.		
3.	Is there standing water in the Christy box?	Yes(No)	
inc	es is indicated in 3, note depth and rease inspection frequency to weekly untwater is noted	il	9
4.	Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No/	
	es to any of the above, note date, action en, and type of repairs when made.	s·	
Supe	rvisor's Signature	Solu	Date <u>8//5///</u>
perco	lote: This form may be modified or used plation pits permitted under Monitoring an ion 1. If standing water is observed in the	d Reporting Progra	am Order Number R5-2008-0148,

This record is to be maintained by the Inspecting available by request of EPD or regulatory person		for a minimum of 5 years and made
Send a completed copy to the attention of Allen C	Grayson, WAM	A (L-627), Environmental Functional Are
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If-yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for-reporting to the regulatory agency and sample collection.		
Is there standing water in the Christy box?	Yesno	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

8/29/11

Date 8/29/11 Inspector A. Funtes

Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item below, and record the date and time. Provide additional paper if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization for a minimum of 5 years and made nel.
Send a completed copy to the attention of Allen C	Grayson, WAMA (L-627), Environmental Functional Area
<u>Check Items</u>	Response Description and Comments:
1. Is water flowing from the Christy box?	Yes (Vo
Are there any signs of recent overflow (damp dirt-around Christy box)?	Yes No
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	
Is there standing water in the Christy box?	Yes/No at the second se
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No
If yes to any of the above, note date, actions taken, and type of repairs when made.	
11/11	
Supervisor's Signature	Magher Date 9:13:11

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Building Number 8270

Building Number 827C

Inspector A. Fontes

Date 8/29/11

This record is to be maintained by the Inspecting available by request of EPD or regulatory personners.		for a minimum of 5 years and ma	ade
Send a completed copy to the attention of Allen G	irayson, WAM	1A (L-627), Environmental Functi	onal A
<u>Check Items</u>	Response	Description and Comments:	
1. Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes/No		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No		25.00000000
If yes to any of the above, note date, actions taken, and type of repairs when made.			
upervisor's Signature		Date 2 /3 //	

Revision 5 04/11 kjf

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	additional par	per if extra space is needed.	a. Provid
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization	for a minimum of 5 years and m	ade
Send a completed copy to the attention of Allen	Grayson, WAN	IA (L-627), Environmental Func	ional Are
Check Items	<u>Response</u>	Description and Comments:	
Is water flowing from the Christy box?	Yes/No		
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes(No)		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
Is there standing water in the Christy box?	Yes/No		
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature		Date 9-/3-//	

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5

weekly until no standing water is observed.

Date	1108/12/1	Inspector _	MARK	KRAUPK	Building	g Number	806
Instru	ections: Circle the a	ppropriate res	ponse fo	or each item belo	w, and record the	date and tir	ne. Provide
desci	riptions and comme	nts if necessa	ry. Attac	h additional pap	er if extra space is	needed.	
This availa	record is to be main able by request of E	tained by the l PD or regulate	Inspectin ory perso	g Organization f nnel.	or a minimum of 5	years and I	made
Send	a completed copy t	o the attention	of Allen	Grayson, WAM	A (L-627), Environ	mental Fun	ctional Area
Chec	k Items			Response	Description and	Comments	<u>.</u>
1.	Is water flowing fro	m the Christy	box?	Yes(No	~		
2.	Are there any signs (damp dirt around)		erflow	Yes(No	-		
ES _c ED arra	es is indicated to eit &H Team EA or off O (pager 04097 or 2 ange for reporting to ency and sample col	hours contact 27595) immed the regulator	the iately to				
3.	Is there standing w box?	ater in the Ch	risty	Yes/No			10
incr	es is indicated in 3, rease inspection free water is noted						
4.	Are there any other percolation pit requ (e.g., excessive bu accumulation of dir	iires maintena ild up scale,		Yes/No			
	es to any of the abo en, and type of repa						
Supe	rvisor's Signature	Rober	£	Boly	Date	9/28	<u> </u>
perco	ote: This form may lation pits permitted ion 1. If standing wa	under Monito	ring and	Reporting Progr	ram Order Number	r R5-2008-0	0148,

Building Number

Inspector

		·
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach		
This record is to be maintained by the Inspecting available by request of EPD or regulatory person		for a minimum of 5 years and made
Send a completed copy to the attention of Allen	Grayson, WAM	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes(No)	2
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes(No)	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	9	**************************************
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes (No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature * Note: This form may be modified or used as	is for documen	Date 9:28://
percolation pits permitted under Monitoring and F		

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Date <u>9/28/11</u> Inspector <u>A.F.</u>	entes	Building Number	8271
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and ti per if extra space is needed.	me. Provide
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization t	for a minimum of 5 years and	made
Send a completed copy to the attention of Allen (Grayson, WAM	A (L-627), Environmental Fur	nctional Area
Check Items	Response	Description and Comments	<u>.</u>
1. Is water flowing from the Christy box?	Yes(No		
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes		
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.			
3. Is there standing water in the Christy box?	Yes(N6)		G G
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted			2
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No		
If yes to any of the above, note date, actions taken, and type of repairs when made.			
Supervisor's Signature Jalanh 4. XX	Maple	Date 9:28	.//
* Note: This form may be modified or used as	is for documen	ating the routing increations	f tha

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5

weekly until no standing water is observed.

Date	$\frac{1/20/1}{}$ Inspector $\frac{1}{2}$	vtes .	Building Number 8276
Instru descr	octions: Circle the appropriate response for eliptions and comments if necessary. Attach a	each item belo additional pap	ow, and record the date and time. Provid er if extra space is needed.
This ravaila	record is to be maintained by the Inspecting (able by request of EPD or regulatory personn	Organization t	for a minimum of 5 years and made
Send	a completed copy to the attention of Allen G	rayson, WAM	A (L-627), Environmental Functional Area
	<u> </u>	Response	Description and Comments:
1.	Is water flowing from the Christy box?	Yesk	
2.	Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
ES8 ED0 arra	es is indicated to either 1 or 2, contact the H Team EA or off hours contact the D (pager 04097 or 27595) immediately to nge for reporting to the regulatory and sample collection.		
	Is there standing water in the Christy box?	Yes/No	
incre	s is indicated in 3, note depth and ease inspection frequency to weekly until rater is noted		
	Are there any other indications that the percolation pit requires maintenance e.g., excessive build up scale, accumulation of dirt or debris).	Yes(No	
If yes taker	s to any of the above, note date, actions n, and type of repairs when made.		
ø			- 8
Superv	isor's Signature	hu_	Date9.28.11
No	te: This form may be modified or used as is	for document	ing the routine inspections of the

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

weekly until no standing water is observed.

alsol.

Date 10 18 2011 Inspector MARK	Krauks	Building Number 806
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide per if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization t	for a minimum of 5 years and made
Send a completed copy to the attention of Allen G	Grayson, WAM	IA (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes(No)	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	×	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	2	Date <u> 0/18/1/</u>
* Note: This form may be modified or used as i percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the modern control of the modern	eportina Proar	am Order Number R5-2008-0148

Inspector Nimile Francia

Date 10 31 11 Inspector N10019	Grinsley	Building Number <u>827 A</u>
	: ₂ J	
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attack	r each item belo n additional pap	ow, and record the date and time. Provide er if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person		or a minimum of 5 years and made
Send a completed copy to the attention of Allen	Grayson, WAM	A (L-627), Environmental Functional Area.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	YeaNo	
Are there any signs of recent overflow (damp dirt around Christy box)?	YeaNo	**
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	to.	15 28
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	· Yes(No)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	Jallagher.	Date 11.7.11
* Note: This form may be modified or used as	s is for documen	nting the routine inspections of the

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5

weekly until no standing water is observed.

Date 10 3 11

Inspector Nicole Grimsley

		¥1
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach		
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization t	for a minimum of 5 years and made
Send a completed copy to the attention of Allen 0	Grayson, WAM	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes(No)	. 20
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes(No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes(No)	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted	8	
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yea(No)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature Patrick 4. 19	alleghe	Date 11-7:11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and F Revision 1. If standing water is observed in the m	Reporting Prog	ram Order Number R5-2008-0148,

weekly until no standing water is observed.

Building Number 8270

Inspector Ninole Crimsley

This record is to be maintained by the Inspecting available by request of EPD or regulatory person	nel.	
Send a completed copy to the attention of Allen C	Grayson, WAM	IA (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yea(No)	
Are there any signs of recent overflow (damp dirt around Christy box)?	YesNo	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes(No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature	laghe	Date

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

weekly until no standing water is observed.

Building Number 827

Date	11/-111	Inspector	Nicole	Enmsley	}	Building Nur	nber	827	D
Instru descri	ctions: Circle the options and comm	e appropriate re nents if necess	esponse for ary. Attach	each item belo additional pape	w, and re er if extra	cord the date space is need	and tir ded.	ne. Pro	ovide
This ravaila	ecord is to be ma ble by request of	intained by the EPD or regula	Inspecting tory person	Organization fo	or a minir	mum of 5 year	s and	made	
Send	a completed cop	y to the attention	on of Allen (Grayson, WAM	A (L-627)	, Environment	al Fun	ctional	Area
Check	<u>c Items</u>			Response	<u>Descrip</u>	tion and Com	ments	*	
1.	Is water flowing f	rom the Christ	y box?	Yes/No					
	Are there any sig (damp dirt aroun			YesNo			1		
ES8 EDC arra	es is indicated to other than EA or of the control	ff hours contac r 27595) imme to the regulato	t the diately to		ы	4 0		₩	
	Is there standing box?	water in the C	hristy	Yes/No	~ 0	.5ft w	ater	- 4	
incre	s is indicated in 3 ease inspection for vater is noted			×					
1	Are there any oth percolation pit red (e.g., excessive the communication of communication o	quires mainten puild up scale,		Yes(No)	- 15		<u>+</u>)	72	*
lf ye take	s to any of the a	bove, note date pairs when mad	e, actions de.						18
Superv	visor's Signature	Jahah	1/1	alleyhir		Date//	1.7.	/(
percola	ote: This form ma ation pits permitte on 1. If standing v	ed under Monit	oring and R	eporting Progra	am Order	Number R5-2	2008-0	148.	

Date 111411 Inspector NICOL	Grinsle	Building Number 827 b
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach		
This record is to be maintained by the Inspecting available by request of EPD or regulatory person		or a minimum of 5 years and made
Send a completed copy to the attention of Allen of	Grayson, WAM/	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes(No)	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	e e	
3. Is there standing water in the Christy box?	YesNo	About lo inches
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		Standing water
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes(No)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
Supervisor's Signature * Note: This form may be modified or used as	Sallay/2	Date //////
11010. This form may be informed of used as	is for documen	ung the routine mapeonons of the

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

1

Inspector NICOLO Trims PIA

	mprotou copy to the attention of allient	arayson, wanv	AA (L-627), Environmental Fund
heck Ite	<u>ms</u>	Response	Description and Comments:
1. ls v	vater flowing from the Christy box?	Yes/No	
	there any signs of recent overflow mp dirt around Christy box)?	Yes(No)	
ES&H T EDO (p arrange	indicated to either 1 or 2, contact the feam EA or off hours contact the ager 04097 or 27595) immediately to for reporting to the regulatory and sample collection.		
3. Is the box	nere standing water in the Christy	Yes/No	
increase	indicated in 3, note depth and e inspection frequency to weekly until r is noted	a 3	2
perd (e.g	there any other indications that the colation pit requires maintenance ., excessive build up scale, umulation of dirt or debris).	Yes(No)	· · · · · · · · · · · · · · · · · · ·
	any of the above, note date, actions nd type of repairs when made.		Ю.

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

04/11 kjf

weekly until no standing water is observed.

Revision 5

Date	1100/12/011	Inspector	MAKK	KRAUHS	Building Number	806B	
Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.							
This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.							
Send	a completed copy to	the attentio	n of Allen	Grayson, WAMA	A (L-627), Environmental Fun	ctional Area	
Chec	k Items			Response	Description and Comments	<u>.</u>	
1.	Is water flowing from	n the Christy	/ box?	Yes/(No			
2.	Are there any signs (damp dirt around C			Yes/No			
ES8 ED9 arra	es is indicated to eith RH Team EA or off h O (pager 04097 or 27 ange for reporting to ency and sample colle	ours contac 7595) imme the regulato	t the diately to				
3.	Is there standing wa box?	nter in the Cl	hristy	Yea(No)	·		
incr	es is indicated in 3, n ease inspection freq water is noted				- 0		
4.	Are there any other percolation pit require, (e.g., excessive buil accumulation of dirt	res mainten d up scale,		Yes/No			
	es to any of the aboven, and type of repair						
Super	visor's Signature	Loberi	t B	of the	Date <u>///21</u> /	///	
perco	Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to						

Building Number

Inspector .

Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide per if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization	for a minimum of 5 years and made
Send a completed copy to the attention of Allen C	arayson, WAM	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	-
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/N	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	YesAVo	0 280 3
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		
***		8
Supervisor's Signature	ague	Date
* Note: This form may be modified or used as percolation pits permitted under Monitoring and R	 for documer eporting Programmer 	nting the routine inspections of the ram Order Number R5-2008-0148,

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Date 11/28/11 Inspector 10/0	n (. tan	Building Number 827E
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide per if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person		for a minimum of 5 years and made
Send a completed copy to the attention of Allen G	Grayson, WAM	A (L-627), Environmental Functional Area.
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes	F)
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	59 a.
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes(No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		38
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	·
If yes to any of the above, note date, actions taken, and type of repairs when made.	v.	
	11	
Supervisor's Signature	y de la constant de l	Date
* Note: This form may be modified or used as	is for documer	nting the routine inspections of the

percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5

		· v
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide per if extra space is needed.
This record is to be maintained by the Inspecting available by request of EPD or regulatory person	Organization t	for a minimum of 5 years and made
Send a completed copy to the attention of Allen (Grayson, WAM	IA (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	77 16	
3. Is there standing water in the Christy box?	Yes/No	9
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes/No	
If yes to any of the above, note date, actions taken, and type of repairs when made.		4
× ×	*	
Supervisor's Signature <u>Fallick</u> 1. S	ullagher	Date 12:19:11
* Note: This form may be modified or used as percolation pits permitted under Monitoring and F	is for documer leporting Progr	nting the routine inspections of the ram Order Number R5-2008-0148,

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

weekly until no standing water is observed.

Date 12/19/11

Building Number 827A

Date 12/19/11 Inspector _	Aaron T. Ford	Building Number	827D
Instructions: Circle the appropriate respondescriptions and comments if necessar			time. Provide
This record is to be maintained by the luavailable by request of EPD or regulato		n for a minimum of 5 years and	i made
Send a completed copy to the attention	of Allen Grayson, WA	MA (L-627), Environmental Fu	nctional Area
Check Items	Response	Description and Comment	<u>s:</u>
Is water flowing from the Christy I	box? Yes/😡		
Are there any signs of recent ove (damp dirt around Christy box)?	erflow Yes		
If yes is indicated to either 1 or 2, con ES&H Team EA or off hours contact t EDO (pager 04097 or 27595) immedi arrange for reporting to the regulatory agency and sample collection.	the ately to	8	
3. Is there standing water in the Chr box?	risty Yes/No	% <u>*</u>	ts .
If yes is indicated in 3, note depth and increase inspection frequency to wee no water is noted			8
 Are there any other indications th percolation pit requires maintenar (e.g., excessive build up scale, accumulation of dirt or debris). 			41
If yes to any of the above, note date, taken, and type of repairs when made			
Supervisor's Signature Talush	1. Hallaghen	Date 12.19	2.//
* Note: This form may be modified of percolation pits permitted under Monitor Revision 1. If standing water is observe	ring and Reporting Pro	gram Order Number R5-2008	-0148,

Date 12/19/11 Inspector Jacon	(. tentes	Building Number 8276
Instructions: Circle the appropriate response for e	ach itom holo	yy and record the data and time. Durid
descriptions and comments if necessary. Attach a	dditional pap	er if extra space is needed.
This record is to be maintained by the Inspecting C available by request of EPD or regulatory personne	Organization f el.	or a minimum of 5 years and made
Send a completed copy to the attention of Allen Gr	ayson, WAM	A (L-627), Environmental Functional Area
Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/Mo	-
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	\$
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.	ý v	
3. Is there standing water in the Christy box?	Yes/No	
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes <i>[</i> No)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		-
	/	/
Supervisor's Signature	Muchan	Date
* Note: This form may be modified or used as is percolation pits permitted under Monitoring and Re Revision 1. If standing water is observed in the mo weekly until no standing water is observed.	porting Progr	am Order Number R5-2008-0148,

Date Nav Juli Inspector MACK	KRAUK	Building Number 806R			
Instructions: Circle the appropriate response for descriptions and comments if necessary. Attach	each item belo additional pap	ow, and record the date and time. Provide er if extra space is needed.			
This record is to be maintained by the Inspecting available by request of EPD or regulatory personness.	Organization for the control of the	or a minimum of 5 years and made			
Send a completed copy to the attention of Allen G	Grayson, WAM	A (L-627), Environmental Functional Area.			
Check Items	Response	Description and Comments:			
1. Is water flowing from the Christy box?	Yes/No	/			
Are there any signs of recent overflow (damp dirt around Christy box)?	Yes(No)				
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.					
3. Is there standing water in the Christy box?	Yes/No				
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted					
 Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). 	Yes(No				
If yes to any of the above, note date, actions taken, and type of repairs when made.					
Supervisor's Signature Regent Ba	tes	Date 12/20///			
Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148,					

Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to

Revision 5



Environmental Functional Area, Lawrence Livermore National Laboratory P.O. Box 808, L-627, Livermore, California 94551