LMS/RFS/S11334

Rocky Flats, Colorado, Site

Quarterly Report of Site Surveillance and Maintenance Activities Third Quarter Calendar Year 2013

January 2014

U.S. DEPARTMENT OF ENERGY | Legacy Management

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Appendix B Analytical Results for Water Samples—Third Quarter CY 2013

Abbreviations

Am	americium
AOC	Area of Concern
CAD/ROD	Corrective Action Decision/Record of Decision
CDPHE	Colorado Department of Public Health and Environment
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EPC	East Perimeter Channel
ETPTS	East Trenches Plume Treatment System
IC	institutional control
LANL	Los Alamos National Laboratory
LBNL	Lawrence Berkeley National Laboratory
LM	Office of Legacy Management
µg/L	micrograms per liter
M&M	monitoring and maintenance
MSPTS	Mound Site Plume Treatment System
OLF	Original Landfill
pCi/L	picocuries per liter
PLF	Present Landfill
PLFTS	Present Landfill Treatment System
PMJM	Preble's meadow jumping mouse
POC	Point of Compliance
POE	Point of Evaluation
Pu	plutonium
RCRA	Resource Conservation and Recovery Act
RFLMA	*Rocky Flats Legacy Management Agreement*
RFSOG	*Rocky Flats Site Operations Guide*
Site	Rocky Flats Site
SPPTS	Solar Ponds Plume Treatment System
Stoller	S.M. Stoller Corporation
U	uranium
USFWS	U.S. Fish and Wildlife Service

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1.0 Introduction

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is responsible for implementing the final response action selected in the *Corrective Action Decision/Record of Decision for Rocky Flats Plant (USDOE) Peripheral Operable Unit and Central Operable Unit* (CAD/ROD) (DOE, EPA, and CDPHE 2006) issued on September 29, 2006, and amended on September 21, 2011 (DOE, EPA, and CDPHE 2011), for the Rocky Flats Site (the Site) in Colorado. DOE, the U.S. Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment have chosen to implement the monitoring and maintenance requirements of the CAD/ROD as described in the *Rocky Flats Legacy Management Agreement* (RFLMA) (DOE 2007). Attachment 2 of the RFLMA defines the Central Operable Unit (COU) remedy surveillance and maintenance requirements, the frequency for each required activity, and the monitoring and maintenance locations. The requirements include environmental monitoring; maintenance of the erosion controls, access controls (signs), landfill covers, and groundwater treatment systems; and operation of the groundwater treatment systems. The RFLMA also requires that the institutional controls (ICs), in the form of use restrictions as established in the CAD/ROD, be maintained.

This report is required in accordance with Section 7.0 of RFLMA Attachment 2. The purpose of this report is to inform the regulatory agencies and stakeholders of the remedy-related surveillance, monitoring, and maintenance activities being conducted at the Site. LM provides periodic communications through several means, such as this report, web-based tools, and public meetings.

LM prepared the *Rocky Flats, Colorado, Site Site Operations Guide* (RFSOG) (DOE 2013) to serve as the primary internal document to guide work to satisfy the requirements of the RFLMA and to implement best management practices at the Site.

Several other Site-specific documents provide additional detail regarding the requirements described in RFLMA Attachment 2, including all aspects of surveillance, monitoring, and maintenance activities, as well as data evaluation protocols.

Monitoring data and summaries of surveillance and maintenance activities for past quarters are available in the quarterly reports. Extensive discussion and evaluation of surveillance, monitoring, and maintenance activities are presented each calendar year in the annual report of Site surveillance and maintenance activities.

This report addresses remedy-related surveillance, monitoring, and operations and maintenance activities conducted at the Site during the third quarter of calendar year (CY) 2013 (July 1 through September 30). This report describes the following activities:

- Maintenance and inspection of the Original Landfill (OLF) and Present Landfill (PLF)
- Maintenance and inspection of the four groundwater treatment systems
- Erosion control and revegetation activities
- Routine (in accordance with the RFLMA and the RFSOG) water monitoring
- Inspection of signs posted at the perimeter of the COU as physical controls

2.0 Site Operations and Maintenance

2.1 Landfills

A rainfall event from September 9 through September 16, 2013, caused catastrophic flooding in northeastern Colorado. Because the heavy precipitation event produced more than 1 inch of rainfall within a 24-hour period, the covers and storm water management systems for the landfills were inspected after this storm event in accordance with RFLMA Attachment 2, Table 3, "Present and Original Landfill Inspection and Maintenance Requirements."

2.1.1 Present Landfill

The PLF is inspected quarterly in accordance with the requirements of the PLF Monitoring and Maintenance (M&M) Plan (DOE 2008a) and the RFLMA (DOE 2007). Vegetation monitoring has been conducted on the PLF according to the requirements in RFLMA Attachment 2, Table 3.

2.1.1.1 Inspection Results

The routine PLF inspection for the third quarter of CY 2013 was performed on August 22, and a special inspection was performed September 16, 2013. No significant problems were observed during these inspections. Copies of the landfill inspection forms are presented in Appendix A.

2.1.1.2 Settlement Monuments

The 2013 survey of the PLF settlement monuments was performed on December 9, 2013. Additional information on the settlement monuments is included in the *Rocky Flats Site Quarterly Report of Site Surveillance and Maintenance Activities, First Quarter Calendar Year 2008* (DOE 2008b).

2.1.2 Original Landfill

The OLF is inspected monthly, in accordance with the requirements in the OLF M&M Plan (DOE 2009a) and the RFLMA. It was anticipated that after the first year, the inspection frequency might be reduced to quarterly for an additional 4 years. However, because of observed localized slumping and seep areas, and investigation and repairs to the OLF cover completed in 2009, no change to the monthly inspection frequency was recommended in the third five-year review of the Site (DOE 2012).

2.1.2.1 Inspection Results

Routine OLF inspections during the third quarter of CY 2013 were performed on July 27, August 22, and September 16, 2013. No issues were noted during an additional inspection performed on September 12, 2013, in response to the heavy precipitation. Evaluations of the landfill cover vegetation have been discontinued, as the success criteria, according to the requirements outlined in RFLMA, have been met. The completed inspection forms are presented in Appendix A.

Localized surface cracking and differential settlement in the northeastern portion of the cover were noted during the September 16 inspection. (As described below, the affected area is near an area where cracks were observed in 2010 and 2011.) Cracks with vertical displacement of up to approximately 2 feet and cracks up to approximately 0.5 foot wide were observed during the inspection. The cracking and settling extended through portions of Diversion Berms 4 and 5, and a minor depression was formed in the Diversion Berm 4 channel between the cracks. In accordance with RFLMA Attachment 2, Section 6.0, "Action Determinations," DOE determined this was a reportable condition affecting the effectiveness of the OLF cover. Figure 1 shows the location of the observed cracking.

DOE informed the Colorado Department of Public Health and Environment (CDPHE) and EPA of the cracking on the northeast side of the OLF on September 17. DOE, CDPHE, and EPA personnel toured the area on September 18 to start the consultative process to develop a proposed course of action.

Initial mitigation steps were undertaken by DOE to minimize the potential for infiltration of precipitation. Initial steps included (1) minor regrading of the differential displacement cracks to seal the openings using Rocky Flats Alluvium from the adjacent area and (2) filling minor cracks by smoothing and tamping the surrounding surface. Erosion mats were placed over the regraded area. This work was completed on September 20. This area will be inspected weekly and any continuation of the cracking will be filled by smoothing out and tamping the surface as needed.

A qualified geotechnical engineer and S.M. Stoller Corporation (Stoller) engineering staff visited the OLF on September 24 to view the affected area, to provide recommendations for additional near-term repairs, and to assist in developing a plan and schedule to address the conditions.

Minor surface cracking north of the beginning of the East Perimeter Channel (EPC) was noted in August 2010. A qualified geotechnical engineer evaluated the observed cracking in August 2010 and in September 2011. The evaluations concluded that, based on the proximity and shape of the cracks, they appeared to be related to the abrupt slope change at the beginning of the EPC. In 2010, the geotechnical engineer recommended that as part of routine maintenance the cracks be monitored for expansion and be filled and tamped to prevent infiltration of precipitation. This routine maintenance has been performed since that time. The condition of the observed cracking has also been noted on the OLF monthly inspection reports.

The geotechnical engineer's recommendation was reiterated after observation of the area in 2011, and no significant expansion of the cracking was observed until the September 16, 2013, inspection. The 2008 geotechnical investigation concluded for the northwest side OLF instability that a weak clay layer containing organic materials at or near the bedrock contact appeared to be a weak interface area. Modeling predicted small-scale instability due to percolating moisture that lubricates this weak interval. It is likely that the recent northeast side OLF instability is associated with the effects of moisture from the September 2013 heavy precipitation event.

RFLMA Contact Record 2013-02, "Reportable Condition at the Original Landfill," describes the outcome of consultation regarding the evaluation plan and schedule to address the observed localized instability. The geotechnical engineer's evaluation results and recommendations are included as an attachment to the Contact Record.

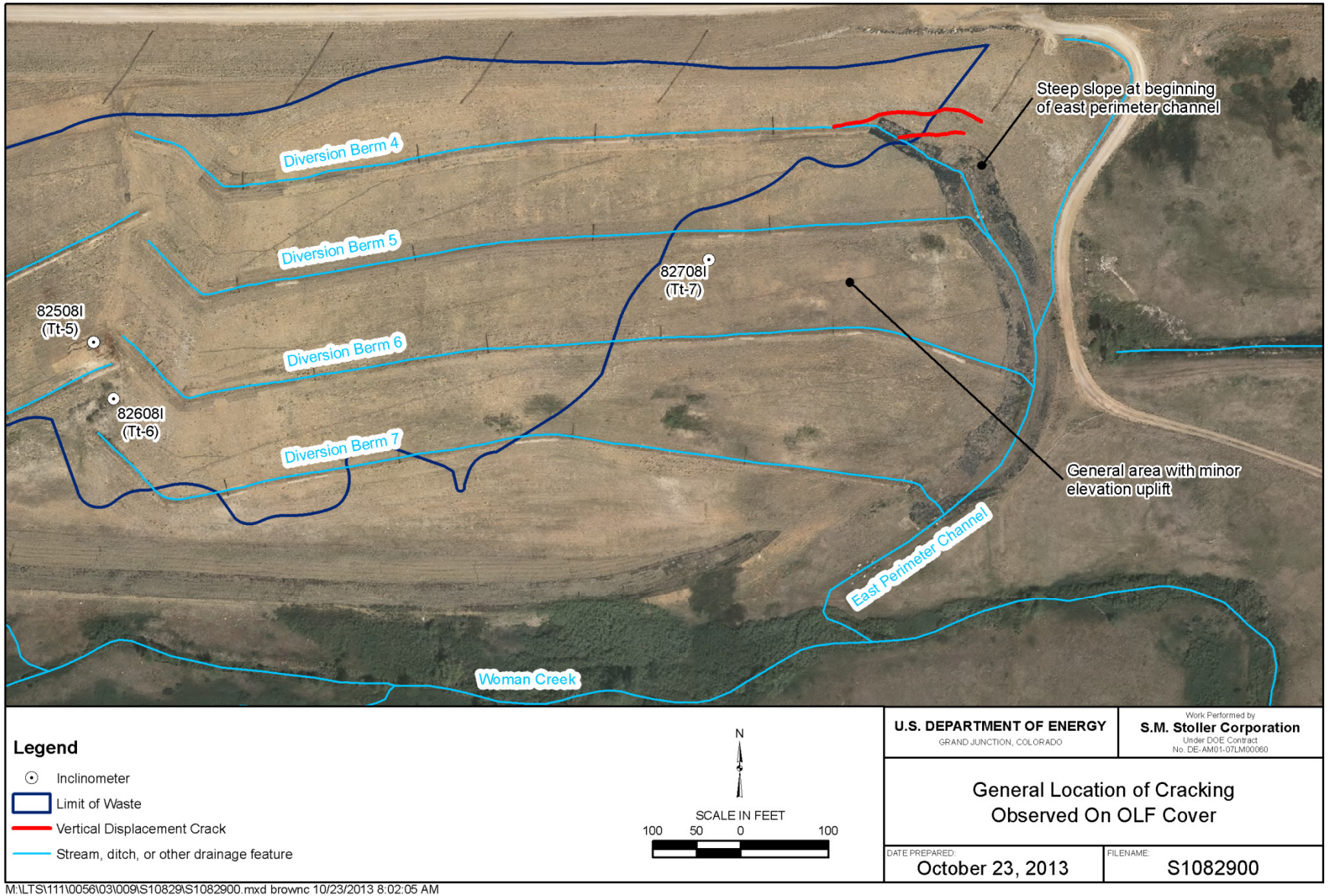

Figure 1. Location of Observed Cracking

The Contact Record is posted to the Rocky Flats public website. DOE will provide information of the progress of the evaluation and any repairs and maintenance required to address the reportable condition in subsequent contact records and quarterly and annual reports.

2.1.2.2 Settlement Monuments

The OLF settlement monuments were surveyed on September 25, 2013. Survey data indicate that settling at each monument does not exceed the limits published in the OLF M&M Plan (DOE 2009a). The survey results are presented in Appendix A.

2.1.2.3 Inclinometers

As discussed in the quarterly report for the second quarter of CY 2009 (DOE 2009b), seven inclinometers were installed in boreholes at the OLF in 2008 as part of the geotechnical investigation of localized areas of instability (Figure 2).

Movement of the inclinometers has been monitored approximately monthly since installation. Inclinometers deflect by lateral movement of the ground in which they are located and can deflect enough to cause the inclinometer tubes to break. Once an inclinometer tube breaks, that inclinometer will no longer be monitored. Inclinometer monitoring data provide information on localized soil movement and serve to focus the periodic inspections of the soil cover surface on signs of potential instability, such as cracking, vertical displacement, and slumping. A deflection of more than 1 inch is used as a trigger for evaluation of the data by a qualified geotechnical engineer. The engineer determines the significance of the deflection in relation to recommendations for maintenance or repairs to address potential instability in accordance with the OLF M&M Plan (DOE 2009a). The geotechnical engineer also reviews the inclinometer data annually, and the geotechnical engineer's report is included in RFLMA annual reports.

Inclinometer measurements were taken on July 30, August 8, and September 26, 2013. For the September 26 readings, all of the inclinometers except for 82108I (Tt-1) showed noticeable deflection. Except for inclinometer 82708I (Tt-7), deflection of less than 1 inch was recorded. Deflection for Tt-7, which was installed to a depth of 29 feet below the OLF cover surface, prevented the monitoring instrument from accessing depths greater than 9 feet below the OLF cover surface.

Based on the geotechnical investigation, maintenance and repairs were made in 2009 to address localized instability on the northwest side of the OLF to minimize the effects of lubrication of a subsurface organic layer by groundwater and precipitation infiltration. The new cracking on the northeast side of the OLF appears similar to the cracking that was previously observed and repaired on the northwest side.

Routine maintenance to fill any surface cracking noted in inspections to minimize infiltration of precipitation appears to be an effective way to address conditions that may lead to localized instability.

2.1.2.4 Slumps

As discussed in the 2009 annual report (DOE 2010), areas where the landfill cover is pushed up or rolling are noticeable on the western end of the OLF between Berms 2 and 3. An additional smaller slumping area in the East Perimeter Channel was documented in 2011 and remains in stable condition. A new slump on the eastern end of the OLF between Berms 4 and 5 was observed during the inspection following the extremely heavy precipitation event discussed above in Section 2.1.2.1. The slump extended from above Berm 4 and through the berm pushing up between Berms 4 and 5. Cracking was present on the upper end of the slump extending through Berm 4. A project to close the cracks with heavy equipment and add erosion controls was completed on September 20. The slumping area was inspected by a qualified geotechnical engineer on September 24, and as of the end of the quarter, recommendations for any additional repairs were being evaluated.

2.1.2.5 Seeps

Seeps at the OLF were evaluated during the monthly inspections and during unscheduled visits. Individual seep location flow rates can be found in the monthly inspection reports.

2.1.2.6 Topographic Survey

In accordance with Section 3.1, "Inspection Procedures," in the OLF M&M Plan, a topographic survey will be conducted approximately every 2 years as an aid in periodically evaluating the subsidence and consolidation, slope stability, and storm water management structure conditions at the OLF. The survey was completed in April 2013. The previous survey was completed in May 2011.

The survey results were mapped by engineering staff during this quarter and plans were developed for (1) adding minor amounts of soil to specific areas on the diversion berms to maintain minimum berm height and (2) making minor adjustments to the slope in some locations in berm channels. The results of the survey were forwarded to a qualified geotechnical engineer for review.

Prior to the September precipitation event, diversion berm height maintenance had been planned to begin on September 23. This planned work would involve adding soil to the tops of those portions of the diversion berms that, due to minor settling of the berms over time, do not meet the minimum height requirements. Generally, measurements show that most portions needing adjustment are low by an inch or two, but the planned maintenance approach was to add soil to the berm tops in 6-inch lifts, compact the lifts, seed the added soil, and cover with erosion matting.

The minimum diversion berm heights were calculated (based on modeling) to be sufficient to convey the runoff from a 100-year/24-hour storm event to the perimeter channels, with additional height (freeboard) based on a projected 1,000-year/24-hour storm event. Inspections of the OLF during and after the September 2013 precipitation event demonstrated that the diversion berms were more than adequate to convey the runoff without causing significant water level elevations in the berm channels. It appeared that runoff collected and conveyed by the diversion berms was approximately 6 to 10 inches deep in the berm channels. The fast-moving

Figure 2. Original Landfill Features

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water did cause some erosion and gullying at the ends of several diversion berms where they joined the perimeter channels. However, there was no evidence of any significant erosion of the OLF cover or the perimeter channels, or loss of existing vegetation from run on and runoff.

Based on these observations, it appears that, except for the northeast side of the OLF, the storm water management systems performed very well and that these features are robust. The RFLMA parties agreed that the planned berm-height maintenance can be delayed until DOE can assess performance of the diversion berms in relation to this event and then evaluate a possible modification to the minimum berm-height criteria.

2.2 Groundwater Treatment Systems

Four groundwater treatment systems are operated and maintained in accordance with requirements defined in the RFLMA and the RFSOG. Three of these systems (the Mound Site Plume Treatment System [MSPTS], the East Trenches Plume Treatment System [ETPTS], and the Solar Ponds Plume Treatment System [SPPTS]) include a groundwater intercept trench (collection trench), which is similar to a French drain with an impermeable membrane on the downgradient side. Groundwater entering the trench is routed through a drainpipe into one or more treatment cells, where it is treated and then discharged. Solar-powered air strippers were added in early 2013 to the MSPTS (to polish effluent from the treatment cells) and ETPTS (to pretreat water before it enters the treatment cells). The fourth system, the PLF Treatment System (PLFTS), treats water from the northern and southern components of the Groundwater Intercept System and flow from the PLF seep.

2.2.1 Mound Site Plume Treatment System

Routine maintenance activities continued at the MSPTS through the third quarter of CY 2013. These activities included checking flows, piping, and water levels.

The air stripper operated throughout the quarter. Air stripper maintenance mainly comprised monitoring of the water pressures and nozzle spray patterns, and cleaning the pump, lines, and nozzles as warranted. Sampling was conducted to support continuing evaluation and optimization efforts.

Extra inspections were conducted following the precipitation events in mid-September. The MSPTS was not adversely affected by these events.

The annual report for 2013 will provide a more detailed discussion of the MSPTS, including the air stripper.

Refer to Section 3.1.9.1 for information on water quality sampling.

2.2.2 East Trenches Plume Treatment System

Routine maintenance activities continued at the ETPTS through the third quarter of CY 2013. These activities included checking flows, piping, and water levels.

The air stripper was the focus of substantial operation and maintenance effort. This work primarily focused on installing and testing different nozzles and nozzle configurations to achieve improved treatment of volatile organic compounds and cleaning the mineral precipitates (i.e., hard water "scale") that clogged nozzles and other components. The air stripper was taken offline in early September, when the pump failed due to this repeated clogging, and remained off for the balance of the quarter while alternate pumps were researched.

Extra inspections were conducted following the precipitation events in mid-September. The ETPTS was not adversely affected by these events.

The annual report for 2013 will provide a more detailed discussion of the ETPTS, including the air stripper.

Refer to Section 3.1.9.2 for information on water quality sampling.

2.2.3 Solar Ponds Plume Treatment System

Routine maintenance activities continued at the SPPTS through the third quarter of CY 2013. These activities included weekly inspections of the solar/battery systems that power the pumps, the operation of the pumps, and influent and effluent flow conditions.

Tests also continued through the quarter on treating uranium (U) with smaller-scale "microcell" treatment components incorporating zero-valent iron as a treatment media, and treating nitrate using pilot-scale lagoons.

Extra inspections, adjustments, and maintenance were performed following the precipitation events in mid-September. In particular, the area surrounding the SPPTS was saturated (as was the case across the Site, but this condition was amplified in the flat area adjacent to the SPPTS), leading to higher groundwater levels and flooding of the vaults, which triggered automatic system shutdown. (The system is designed to shut down in such an event in case the water is a result of pipe leakage.) The system also shut down when these higher water levels caused a short in the wiring. The wiring was repaired and the vaults were repeatedly pumped out to help keep components dry; fluid pumped from the vaults was routed to the original concrete treatment cells (the Cell 1/Cell 2 structure). Several electrical components were replaced due to water damage, including one flow meter and both of the dosing pumps used to deliver liquid carbon nutrients (a proprietary substance called MicroCg) to the pilot-scale lagoons. During or shortly after the precipitation events, the tubing used to deliver nutrients leaked, resulting in a mixture of water and the clear, colorless MicroCg entering this vault. This condition was not recognized until after the container of MicroCg had drained and several vault-pumping events had been conducted. Samples of residual liquid in the vault were then collected and analyzed to confirm there was no environmental concern. A new container of MicroCg was obtained and put online, the system was restored to full operation, and the vaults continued to be pumped dry as conditions warranted.

Both the microcell and lagoon tests are expected to continue for the next several months. The associated results will be discussed in greater detail in the annual report for 2013.

Refer to Section 3.1.9.3 for information on water quality sampling.

2.2.4 Present Landfill Treatment System

Routine maintenance activities continued at the PLFTS through the third quarter of CY 2013. These activities generally consisted of inspecting the system for potential problems.

Refer to Section 3.1.9.4 for information on water quality sampling.

2.3 Sign Inspection

"U.S. Department of Energy - No Trespassing" signs are required to be posted at intervals around the perimeter of the COU to notify persons that they are at the boundary of the COU. Signs listing the use restrictions (ICs) and providing contact information are also required to be posted at access points to the COU. The signs are required as physical controls of the remedy, are inspected quarterly, and are maintained by repairing or replacing them as needed. Physical controls protect the engineered components of the remedy, including landfill covers, groundwater treatment systems, and monitoring equipment, which are also inspected routinely during monitoring and maintenance activities.

The signs were inspected on September 4, 2013, and they met the requirements.

2.4 Erosion Control and Revegetation

Maintenance of the site erosion control features required continued effort throughout the third quarter of CY 2013, especially following high-wind or precipitation events. Erosion wattles and matting loosened and displaced by high winds or rain were repaired. Erosion controls were installed and maintained for the various projects that were ongoing during the third quarter of CY 2013.

3.0 Environmental Monitoring

This section summarizes the environmental monitoring conducted in accordance with the RFLMA.

3.1 Water Monitoring

This section includes:

- A discussion of analytical results for the Point of Compliance (POC), Point of Evaluation (POE), PLF, and OLF surface-water monitoring objectives.
- Summaries of Area of Concern (AOC) well, Evaluation well, Sentinel well, and Resource Conservation and Recovery Act (RCRA) well groundwater monitoring; treatment system monitoring; and Surface Water Support monitoring at the Site.
- A summary of results of special high-resolution isotopic uranium analyses.

RFLMA Attachment 2 and the RFSOG offer details about the monitoring locations, sampling criteria, and evaluation protocols for the water monitoring objectives mentioned in the following

sections. Appendix B provides analytical water quality data for the third quarter of CY 2013. A more detailed interpretation and discussion will be provided in the annual report for CY 2013.

3.1.1 Water Monitoring Highlights

During the third quarter of CY 2013, water monitoring successfully met the targeted monitoring objectives as required by the RFLMA and was in conformance with RFSOG implementation guidance. The routine RFLMA network consists of 10 automated gaging stations, 12 surface water grab-sampling locations, 8 treatment system locations, and 97 wells. Ten precipitation gages are also installed. Additional locations are occasionally sampled in support of investigations in response to reportable conditions. During the quarter, 33 flow-paced composite samples, 53 surface water grab samples, 16 treatment system samples, and 10 groundwater samples were collected (in accordance with RFLMA protocols) and submitted for analysis.[1]

As with many locations on the Front Range, the Site experienced very high flows during the second week of September 2013. In some cases the high flows and debris caused damage to the automated sampling equipment, resulting in temporary interruptions in composite sampling. At almost all locations, the unanticipated runoff volumes caused flow-paced composite bottles to fill before personnel could safely replace them with empty bottles. Access to various areas of the Site was unsafe and restricted by local authorities during certain periods.

Due to the interruptions in automated sampling at RFLMA POCs and POEs, tables have been added to this report (see individual sections for each location below) detailing automated composite sample collection during September 2013. That said, the automated surface-water monitoring network performed as well as could be expected. During September 2013, composite samples collected at RFLMA POCs and POEs were comprised of more than 2,000 individual grabs.

Water quality data at the RFLMA POCs remained below the applicable standards through the third quarter of CY 2013.

Reportable 12-month rolling average uranium concentrations were observed starting on April 30, 2011, in surface water at RFLMA POE monitoring station GS10, which is located on South Walnut Creek upstream of former Pond B-1. Reportable 12-month rolling average americium (Am) and plutonium (Pu) activities were also observed starting on August 31, 2011, and May 31, 2012, respectively. As of the end of the third quarter of CY 2013, Pu and Am were still reportable. The 12-month rolling average uranium concentration was below the RFLMA Attachment 2 water quality standard and was no longer reportable at GS10 as of September 30, 2013. GS10 data are evaluated in Section 3.1.3.1 of this report.

Except for GS10 as discussed above, all other analyte concentrations at POEs were less than the applicable RFLMA Attachment 2 water quality standards as of the end of the third quarter of CY 2013.

Groundwater monitoring results will be evaluated as part of the annual report for CY 2013.

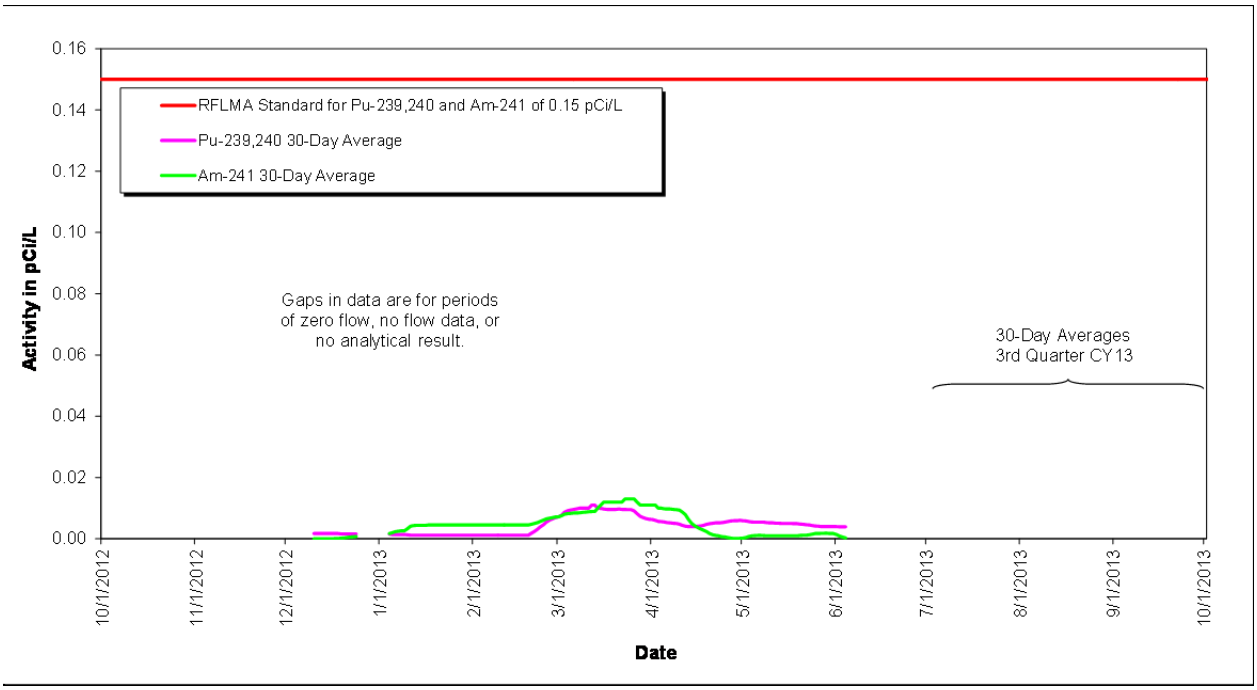
[1] Composite samples consist of multiple aliquots ("grabs") of identical volume. Each grab is delivered by the automatic sampler to the composite container at each predetermined flow volume or time interval. During the third quarter of CY 2013, the 33 flow-paced composites comprised 2,894 individual grabs.

3.1.2 POC Monitoring

The following sections include summary tables and plots showing the applicable 30-day and 12-month rolling averages for the POC analytes.

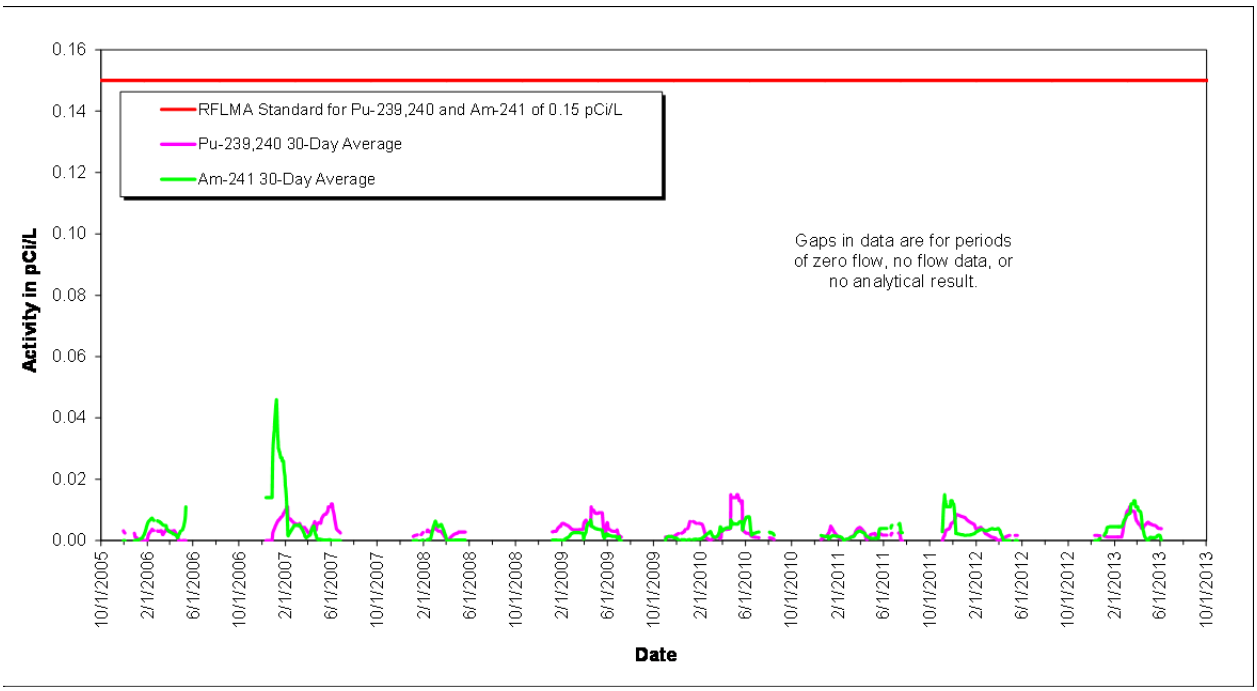
3.1.2.1 Monitoring Location GS01

Monitoring location GS01 is on Woman Creek at Indiana Street. Figure 3 and Figure 5 show no occurrences of reportable 30-day averages for the quarter. As of September 9, 2013, GS01 is no longer an RFLMA POC. There was no flow at GS01 for the period June 5, 2013, through September 9, 2013. Figure 4 and Figure 6 show sampling data from 2005 through September 9, 2013.



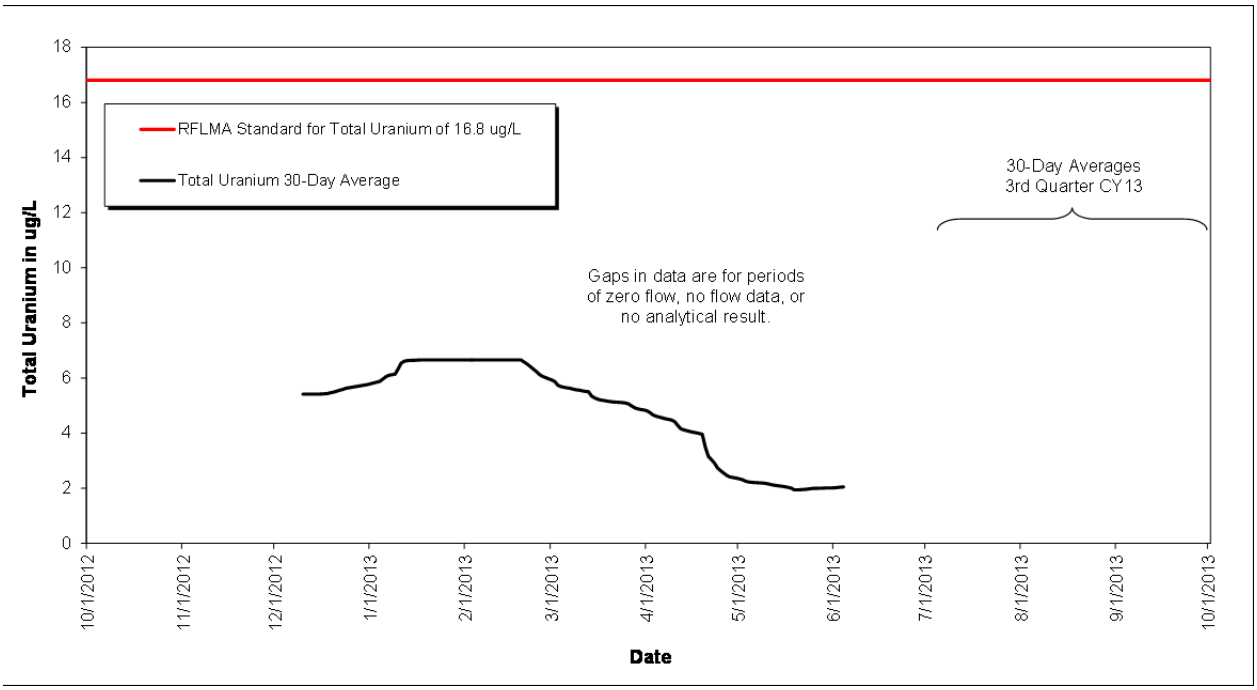
pCi/L = picocuries per liter

Figure 3. Volume-Weighted 30-Day Average Plutonium and Americium Activities at GS01: Period Ending September 9, 2013



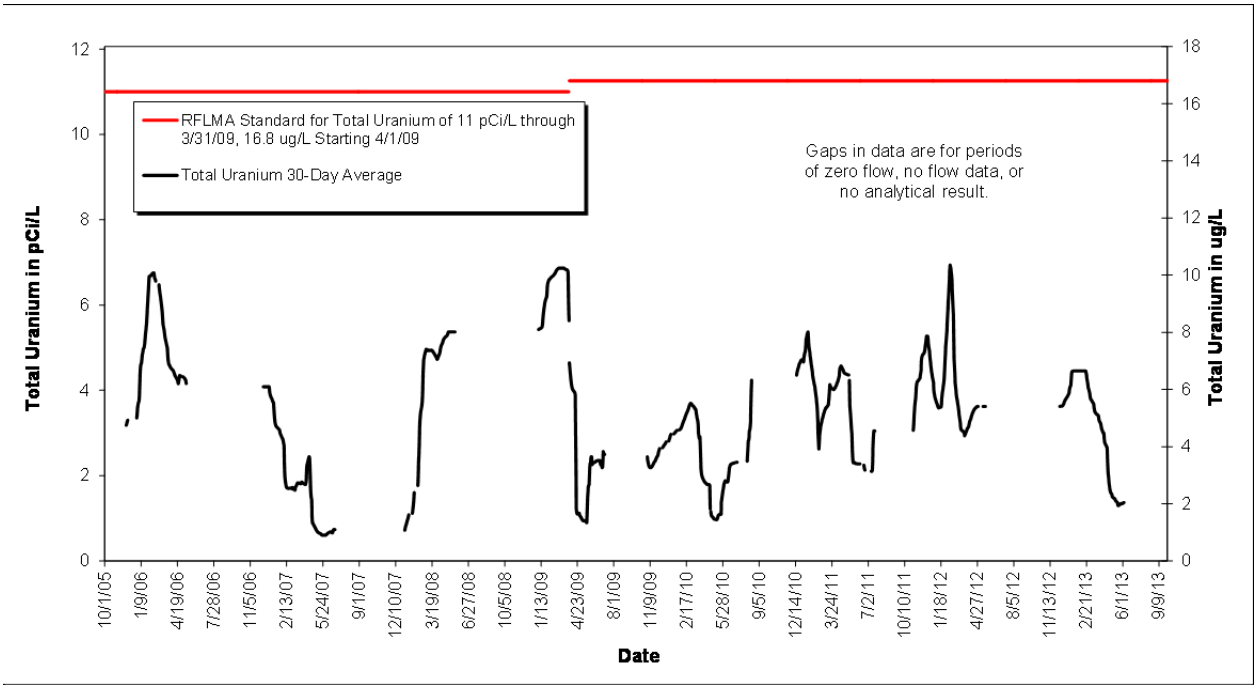
pCi/L = picocuries per liter

Figure 4. Volume-Weighted 30-Day Average Plutonium and Americium Activities at GS01: Postclosure Period Ending September 9, 2013



ug/L = µg/L = micrograms per liter

Figure 5. Volume-Weighted 30-Day Average Total Uranium Concentrations at GS01: Period Ending September 9, 2013



ug/L = µg/L = micrograms per liter
pCi/L = picocuries per liter

Figure 6. Volume-Weighted 30-Day Average Total Uranium Concentrations at GS01: Postclosure Period Ending September 9, 2013

3.1.2.2 Monitoring Location GS03

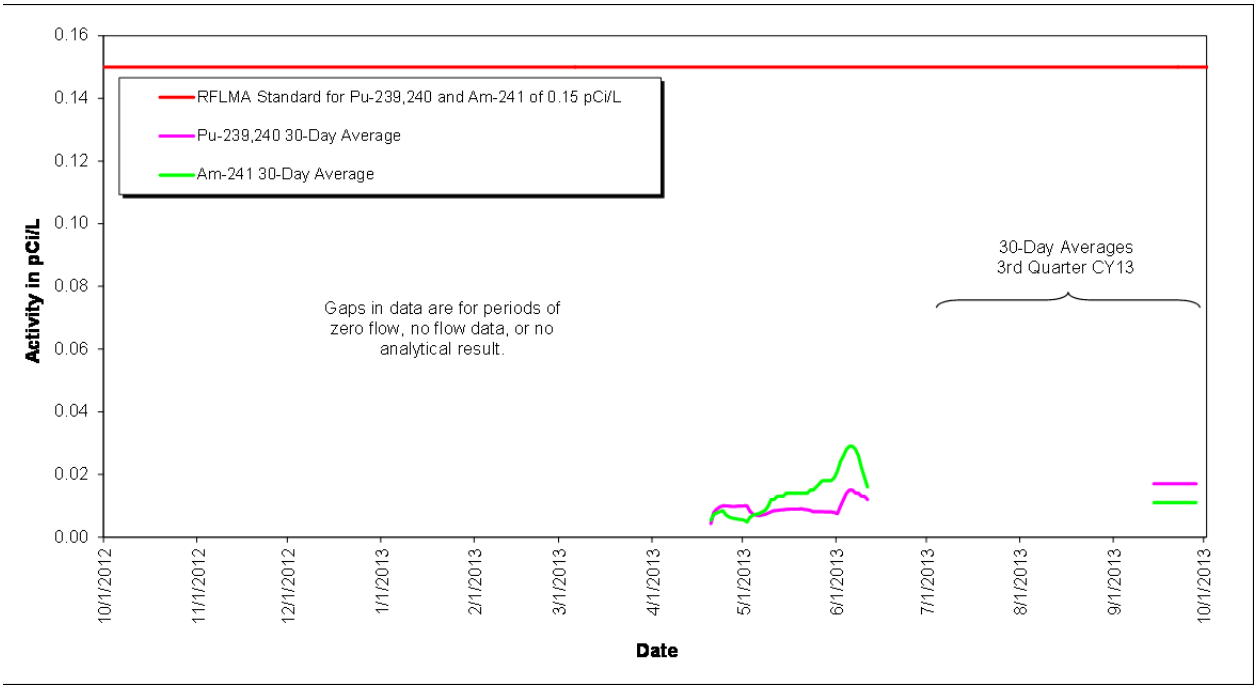
Monitoring location GS03 is on Walnut Creek at Indiana Street. Figure 7, Figure 9, and Figure 11 show no occurrences of reportable water quality for the quarter. As of September 28, 2013, GS03 is no longer an RFLMA POC. Figure 8, Figure 10, and Figure 12 show sampling data from 2005 through September 28, 2013.

Table 1 shows automated composite sampling information collected during September 2013. Flow rates could not be accurately estimated for the period 9/12/13 2:00 through 9/13/13 14:00. Therefore, no discharge volumes are available and in accordance with routine evaluation protocols, this period is not included in the calculation of 12-month rolling and 30-day averages.

Table 1. September 2013 Composite Sampling Detail for POC GS03

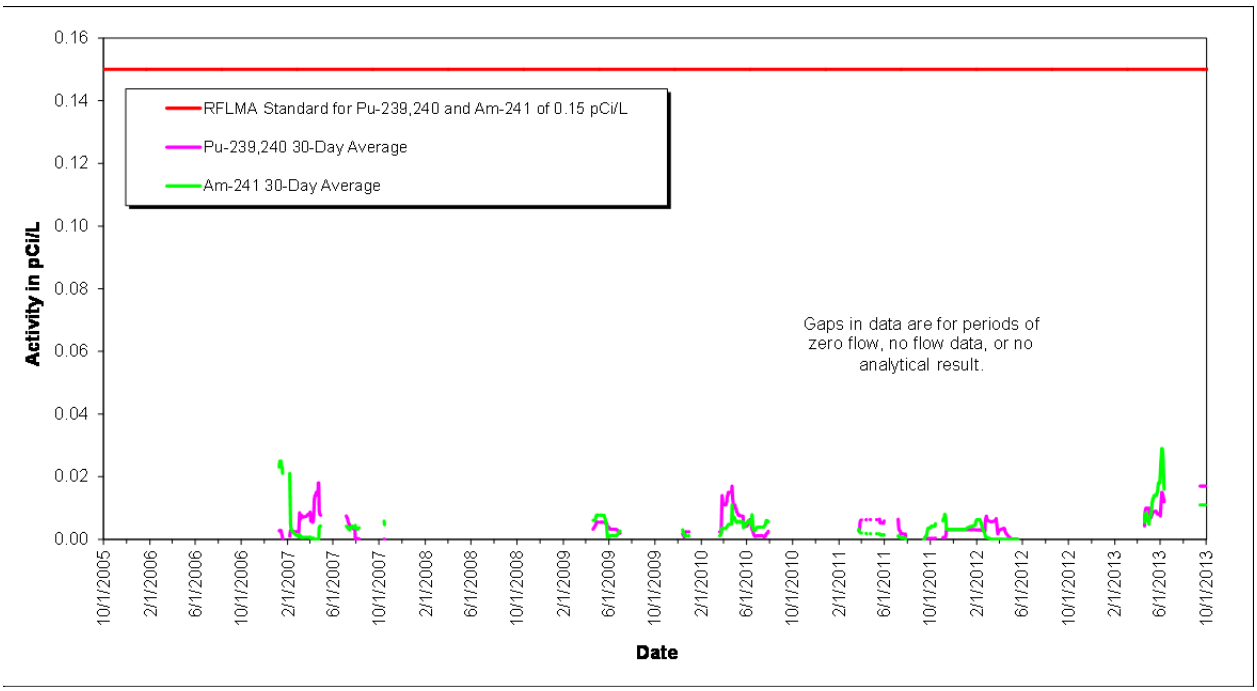
Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239, 240 (pCi/L)	Uranium (µg/L)			
6/25 12:07–9/12 14:36	249	0.016	0.036	8.90	NA	NA	Sampler was full on 9/12 from 7:28 to 14:36
9/12 14:36–9/14 9:50	251	0.032	0.042	2.15	NA	NA	Sampler was full for the period 9/14 6:43 to 9:50
9/14 9:50–10/2 14:37	52	0.011	0.017	2.91	50.2	0.2–68.4	

Notes:
CFS = cubic feet per second
µg/L = micrograms per liter
MG = million gallons
NA = not analyzed
pCi/L = picocuries per liter



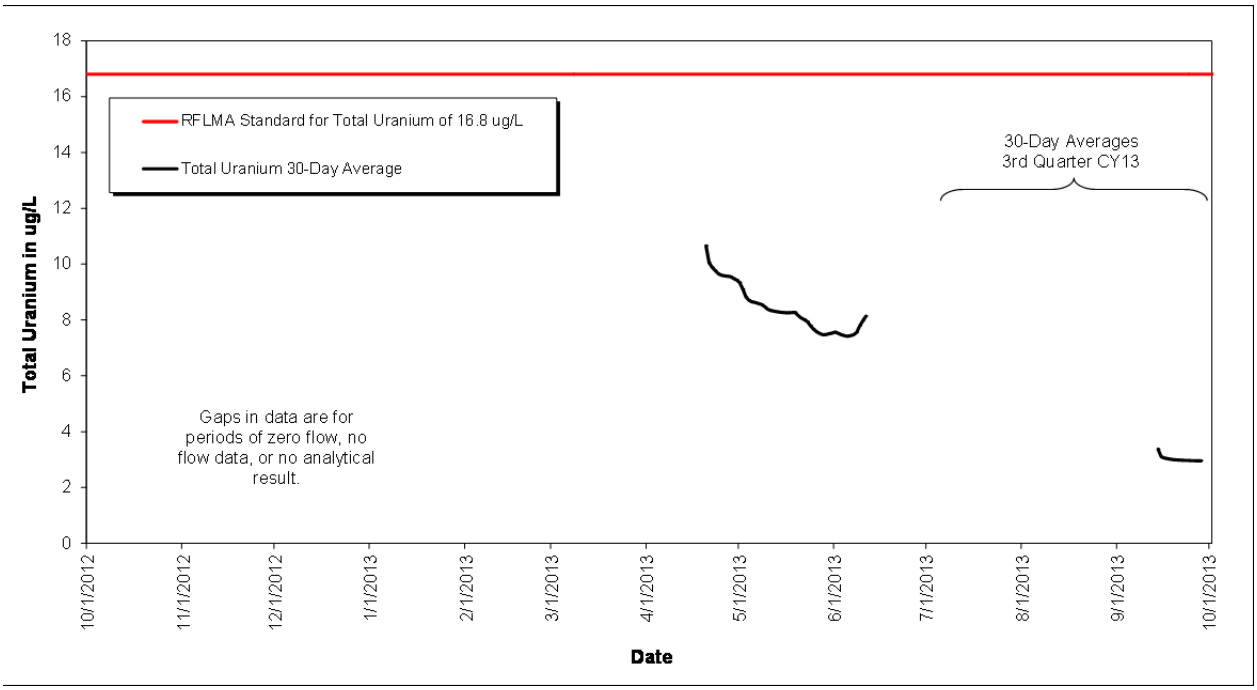
pCi/L = picocuries per liter

Figure 7. Volume-Weighted 30-Day Average Plutonium and Americium Activities at GS03: Year Ending Third Quarter CY 2013



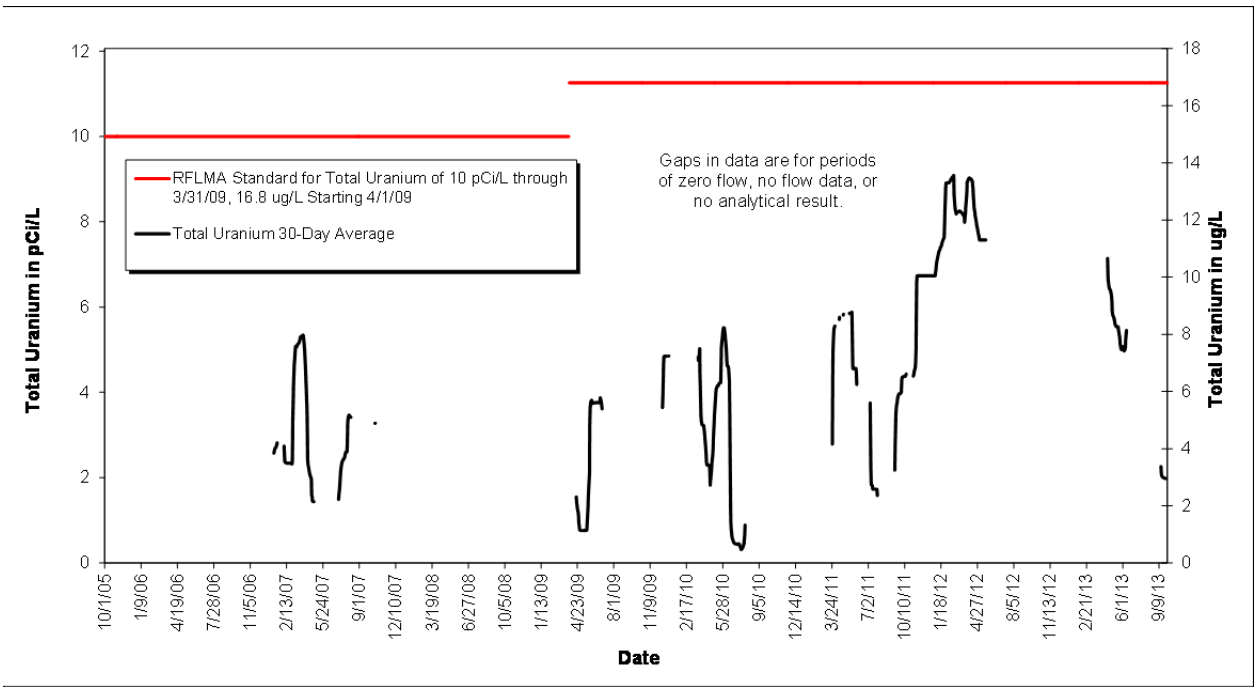
pCi/L = picocuries per liter

Figure 8. Volume-Weighted 30-Day Average Plutonium and Americium Activities at GS03: Postclosure Period Ending Third Quarter CY 2013



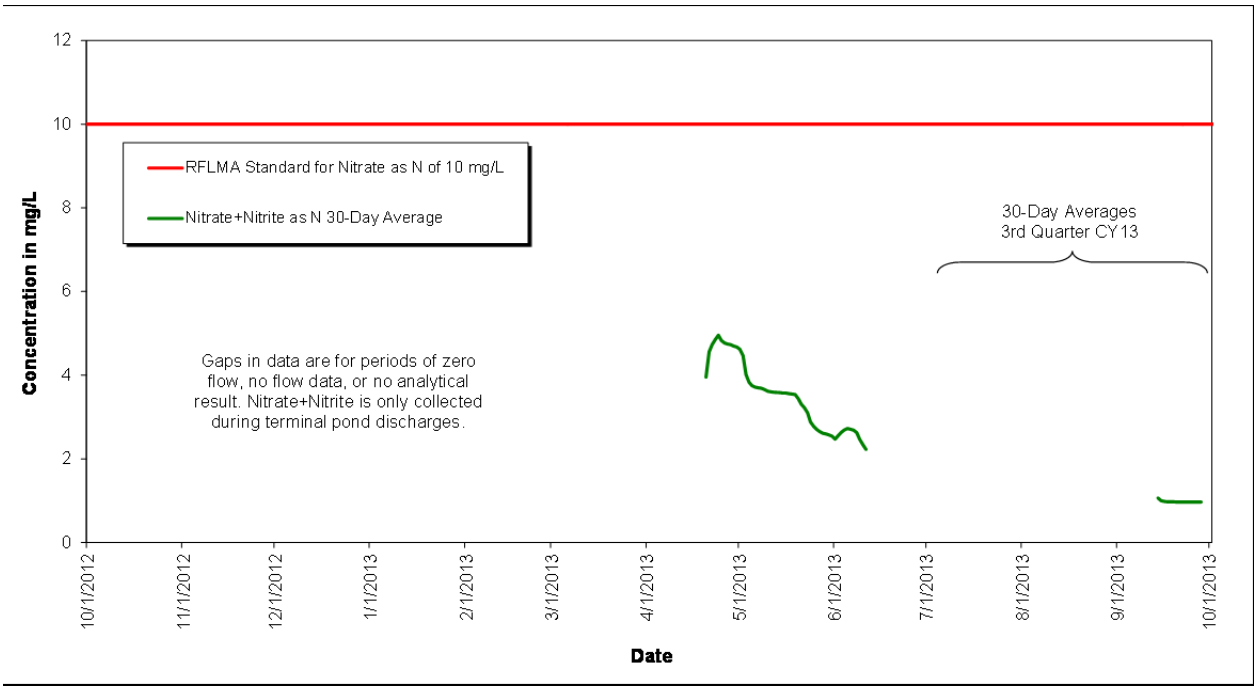
ug/L = µg/L = micrograms per liter

Figure 9. Volume-Weighted 30-Day Average Total Uranium Concentrations at GS03: Year Ending Third Quarter CY 2013



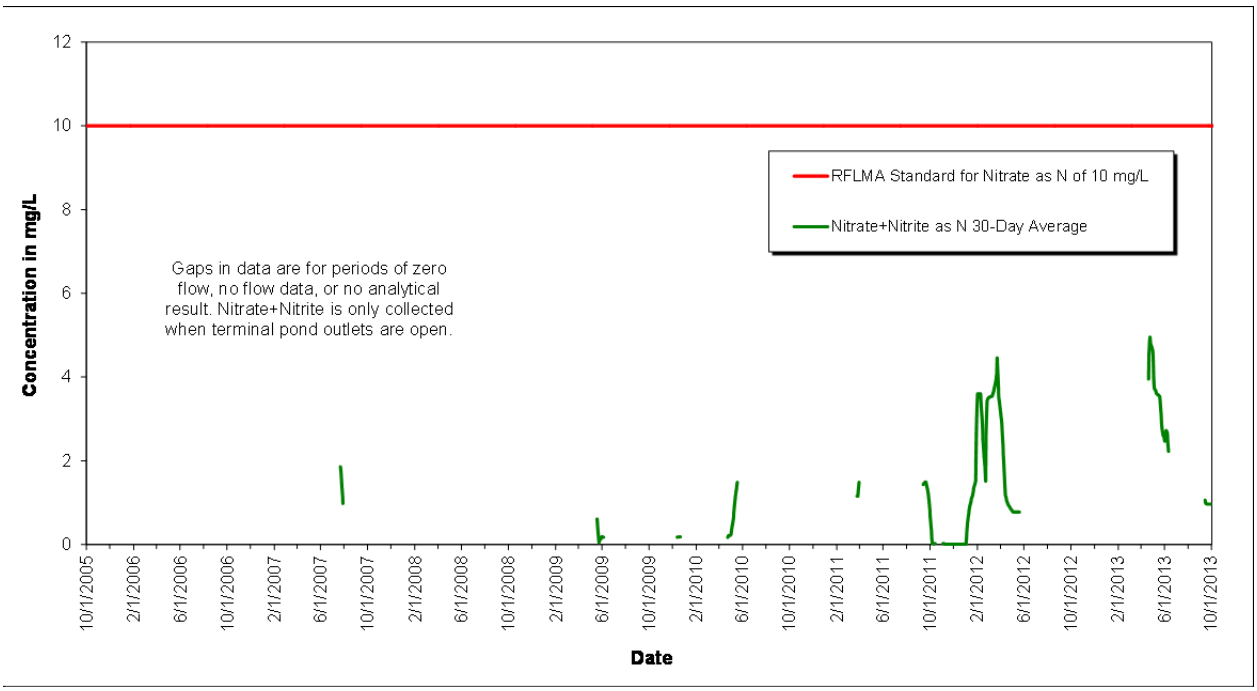
ug/L = µg/L = micrograms per liter
pCi/L = picocuries per liter

Figure 10. Volume-Weighted 30-Day Average Total Uranium Concentrations at GS03: Postclosure Period Ending Third Quarter CY 2013



mg/L = milligrams per liter
N = nitrogen

Figure 11. Volume-Weighted 30-Day Average Nitrate + Nitrite as Nitrogen Concentrations at GS03: Year Ending Third Quarter CY 2013



mg/L = milligrams per liter
N = nitrogen

Figure 12. Volume-Weighted 30-Day Average Nitrate + Nitrite as Nitrogen Concentrations at GS03: Postclosure Period Ending Third Quarter CY 2013

3.1.2.3 Monitoring Location WALPOC

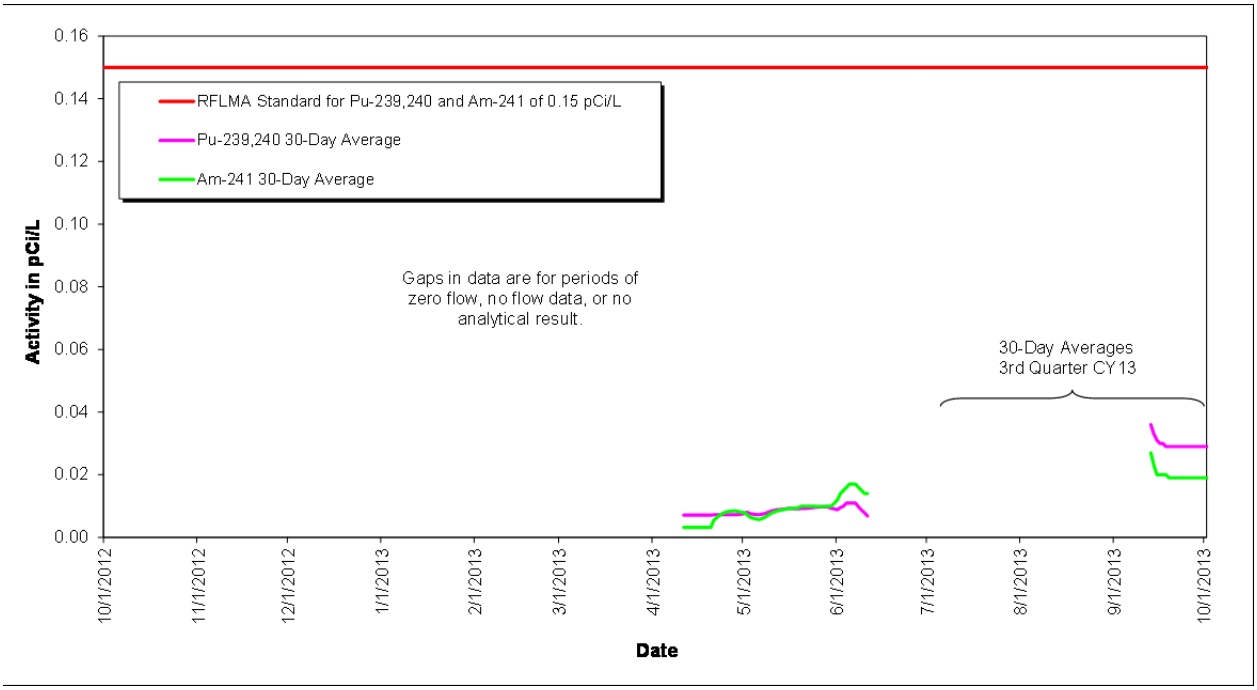
Monitoring location WALPOC is on Walnut Creek at the eastern COU boundary. Figure 13 through Figure 18 show no occurrences of reportable 12-month rolling or 30-day averages for the quarter using the available data.

Table 2 shows automated composite sampling information collected during September 2013. It should be noted that the sampler was full and did not collect any water for the period 9/12/13 7:08 to 9/13/13 14:54. Therefore, no analytical results are available and in accordance with routine evaluation protocols, this period is not included in the calculation of 12-month rolling and 30-day averages.

Table 2. September 2013 Composite Sampling Detail for POC WALPOC

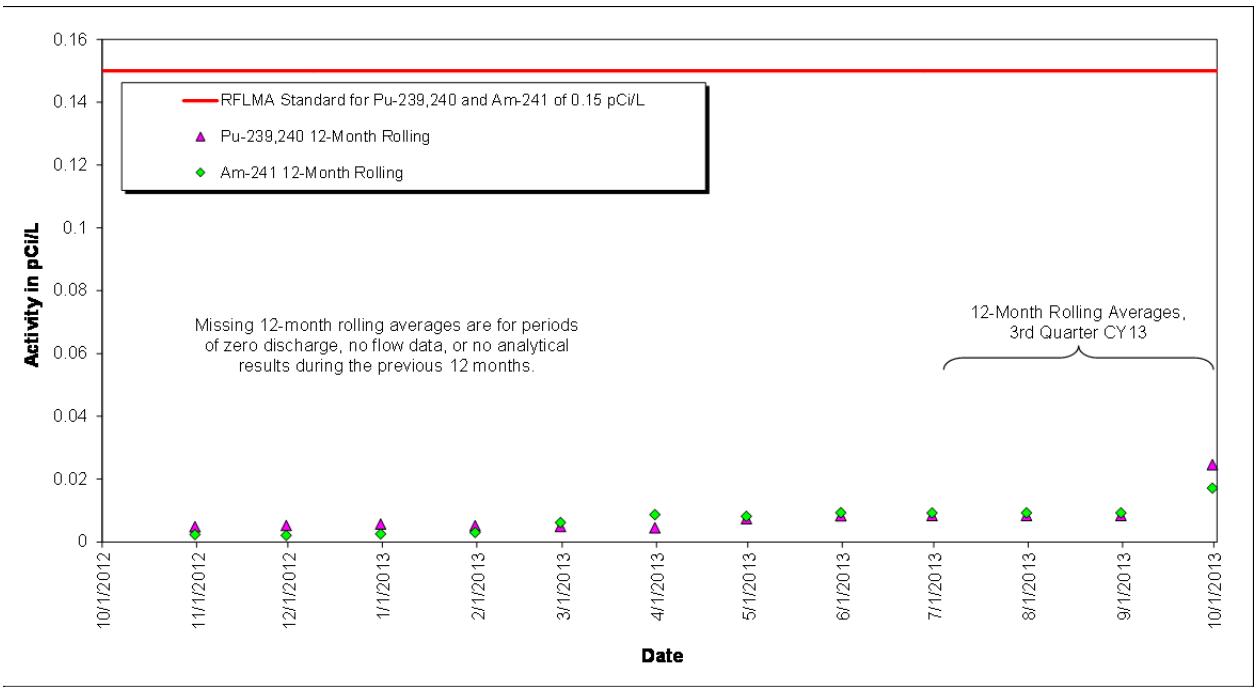
Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239,240 (pCi/L)	Uranium (µg/L)			
6/4 13:19–9/12 7:08	231	0.007	0.026	3.21	5.14	0.0–30.8 (est)	Sampler filled at 9/12 7:08
9/12 7:08–9/13 14:54	0 NSQ	NA	NA	NA	43.2 (est)	22.3–83.5 (est)	Sampler was full for this period and no water was collected
9/13 14:54–9/14 11:54	62	0.028	0.039	1.99	17.5 (est)	22.5–41.8 (est)	
9/14 11:54–9/16 11:20	89	0.013	0.025	2.55	25.1 (est)	6.2–41.6 (est)	
9/16 11:20–10/25 14:12	32	0.010	0.010	11.5	10.2	0.12–6.1	

Notes:
CFS = cubic feet per second
est = estimated
µg/L = micrograms per liter
MG = million gallons
NA = not analyzed
NSQ = nonsufficient quantity for analysis
pCi/L = picocuries per liter



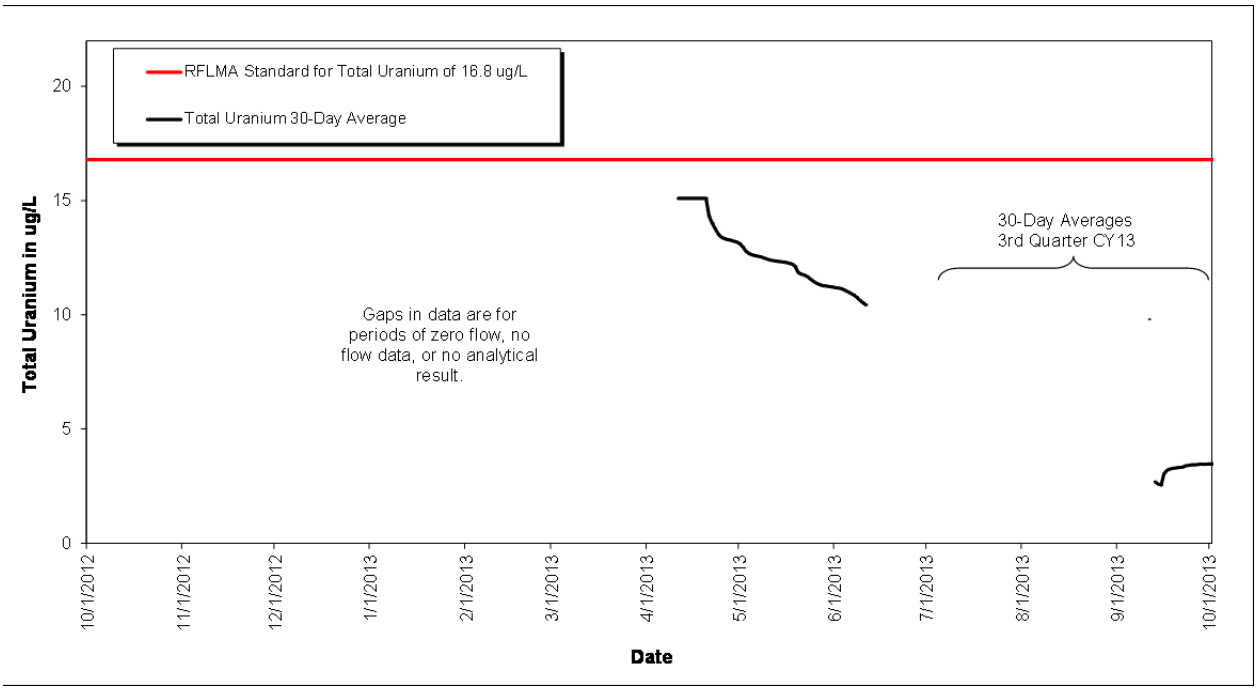
pCi/L = picocuries per liter

Figure 13. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WALPOC: Year Ending Third Quarter CY 2013



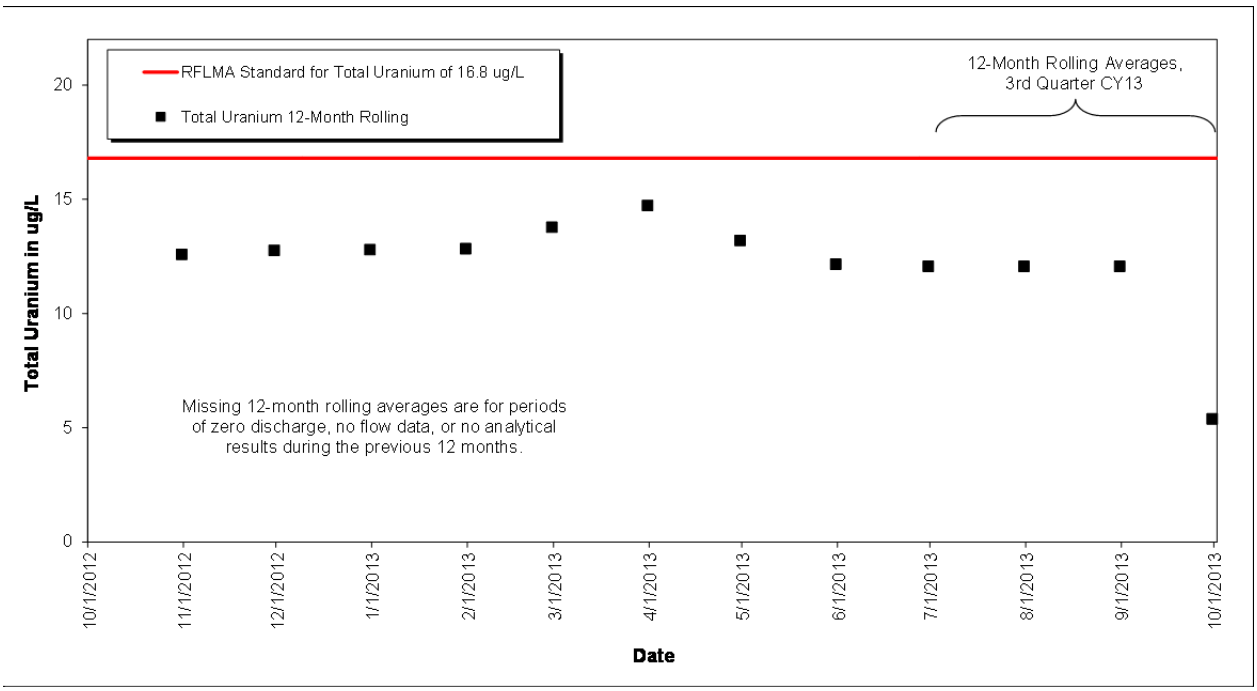
pCi/L = picocuries per liter

Figure 14. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WALPOC: Year Ending Third Quarter CY 2013



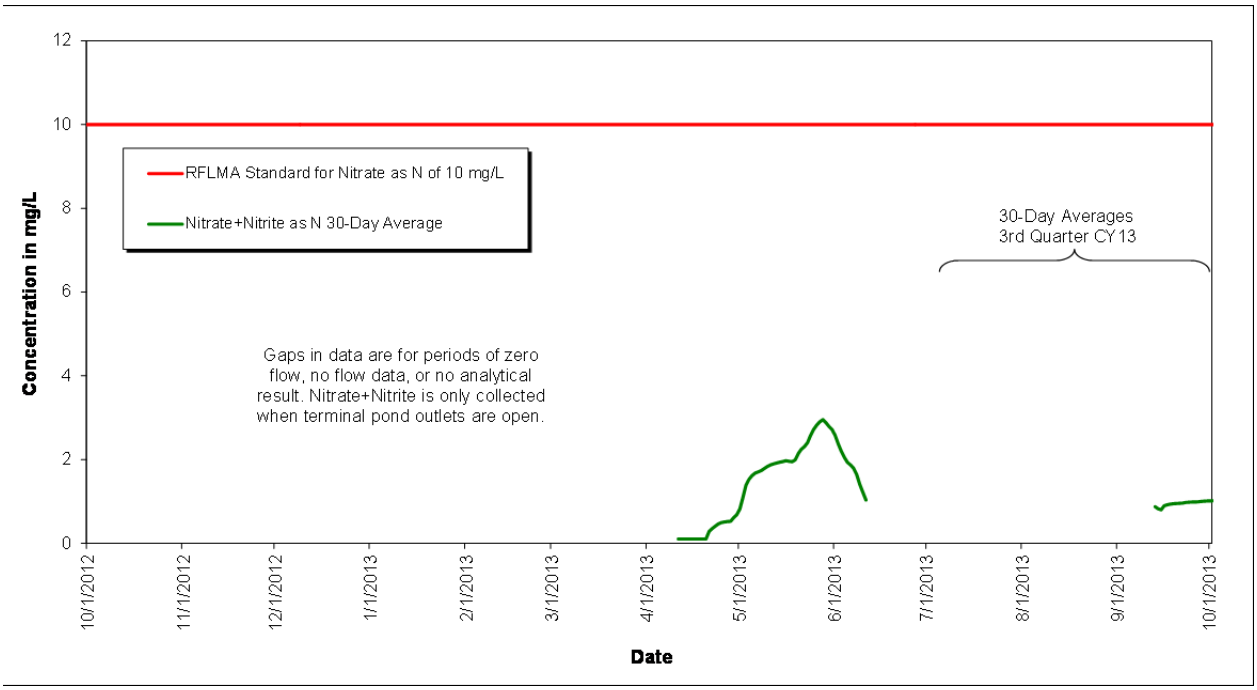
ug/L = µg/L = micrograms per liter

Figure 15. Volume-Weighted 30-Day Average Total Uranium Concentrations at WALPOC: Year Ending Third Quarter CY 2013



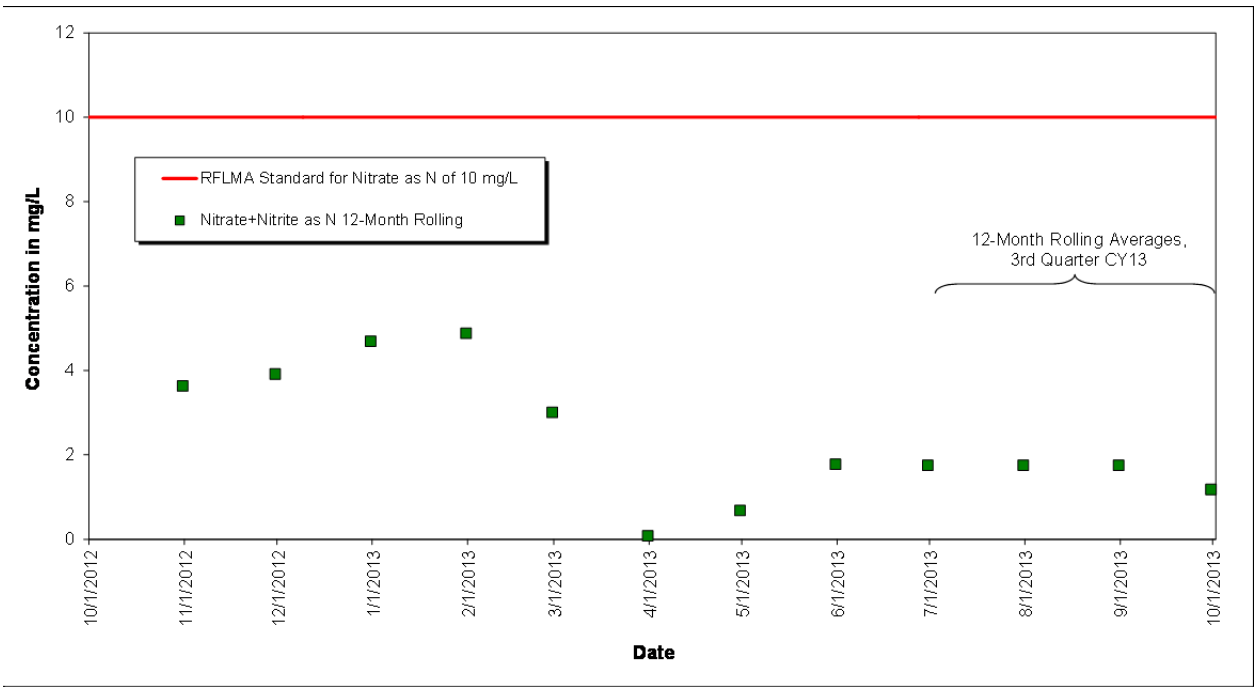
ug/L = µg/L = micrograms per liter

Figure 16. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at WALPOC: Year Ending Third Quarter CY 2013



mg/L = milligrams per liter
N = nitrogen

Figure 17. Volume-Weighted 30-Day Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending Third Quarter CY 2013



Nitrate + nitrite as nitrogen 12-month averages are conservatively compared to the nitrate standard only.
mg/L = milligrams per liter
N = nitrogen

Figure 18. Volume-Weighted 12-Month Rolling Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending Third Quarter CY 2013

3.1.2.4 Monitoring Location WOMPOC

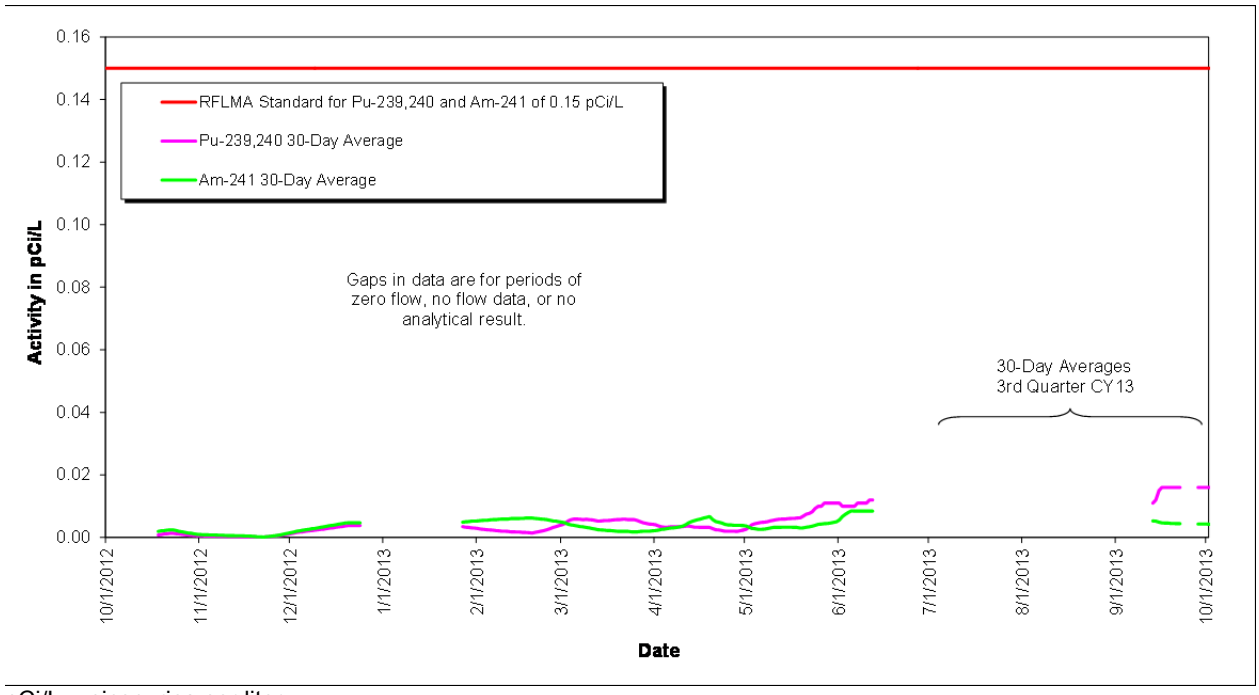
Monitoring location WOMPOC is on Woman Creek at the eastern COU boundary. Figure 19 through Figure 22 show no occurrences of reportable 12-month rolling or 30-day averages for the quarter.

Table 3 shows automated composite sampling information collected during September 2013. It should be noted that the sampler was full and did not collect any water for the period 9/12/13 14:13 to 9/13/13 12:23. For the period 9/23/13 13:37 to 9/28/13 9:24, the sampler pacing was too large for the actual flows and only two grab samples were collected. These two grabs were discarded and a more appropriate pace was selected on September 28, 2013. Therefore, no analytical results are available for these two periods and in accordance with routine evaluation protocols, these periods are not included in the calculation of 12-month rolling and 30-day averages.

Table 3. September 2013 Composite Sampling Detail for POC WOMPOC

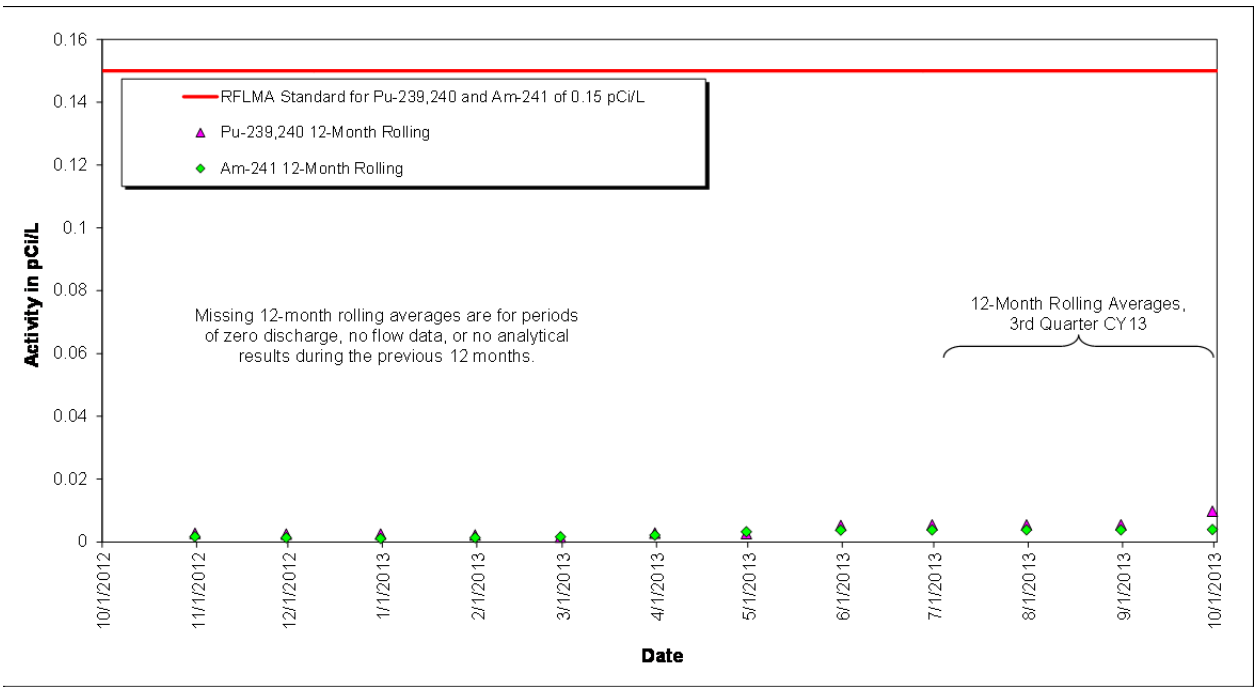
Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239,240 (pCi/L)	Uranium (µg/L)			
6/6 10:20–9/12 14:13	250	0.007	0.038	7.11	48.5 (est)	0.0–682 (est)	Sampler filled 9/12 14:13
9/12 14:13–9/13 12:23	0 NSQ	NA	NA	NA	74.8 (est)	24.4–414 (est)	
9/13 12:23–9/14 10:50	127	0.005	0.009	1.14	6.44 (est)	3.3–29.8 (est)	Sampler was full on 9/14 from 8:05 to 10:50
9/14 10:50–9/19 11:39	58	0.004	0.023	1.44	16.1 (est)	0.7–33.7 (est)	
9/19 11:39–9/23 13:37	85	0.0	0.002	2.35	1.65 (est)	0.3–4.2 (est)	
9/23 13:37–9/28 9:24	2 NSQ	NA	NA	NA	1.48 (est)	0.2–1.7 (est)	Only two grabs collected and discarded.
9/28 9:24–10/7 14:43	76	0.001	0.002	2.89	3.05	0.2–2.4	

Notes:
CFS = cubic feet per second
est = estimated
µg/L = micrograms per liter
MG = million gallons
NA = not analyzed
NSQ = nonsufficient quantity for analysis
pCi/L = picocuries per liter



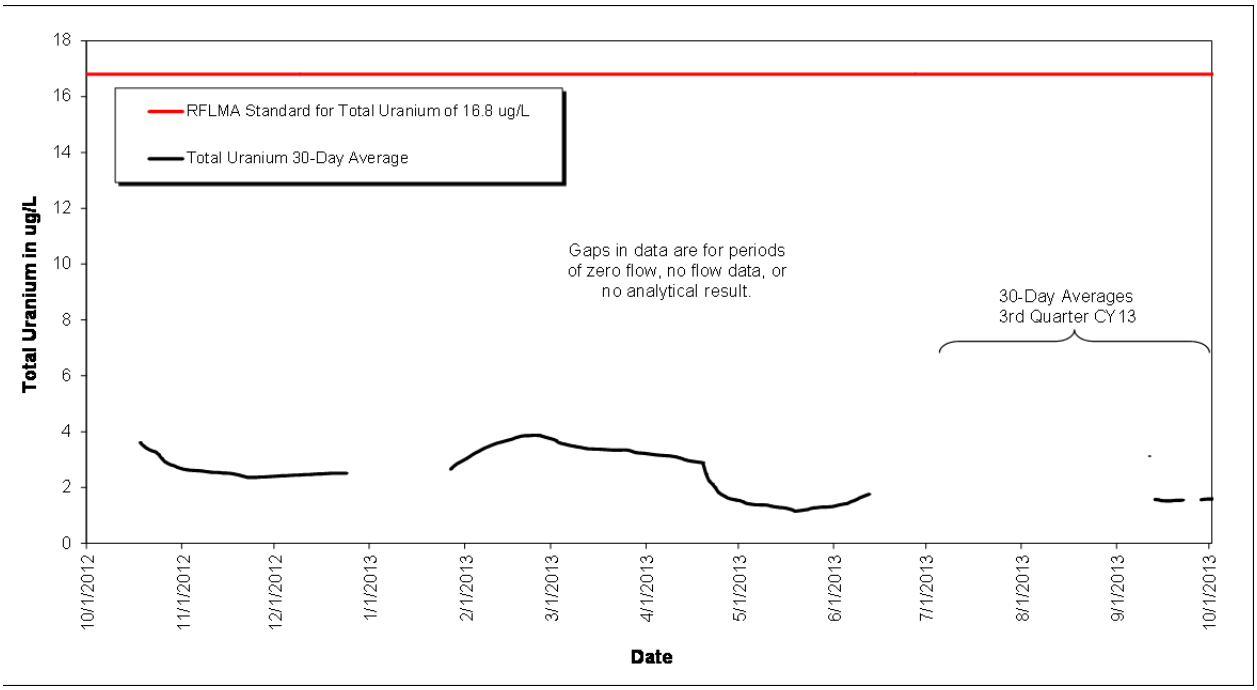
pCi/L = picocuries per liter

Figure 19. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WOMPOC: Year Ending Third Quarter CY 2013



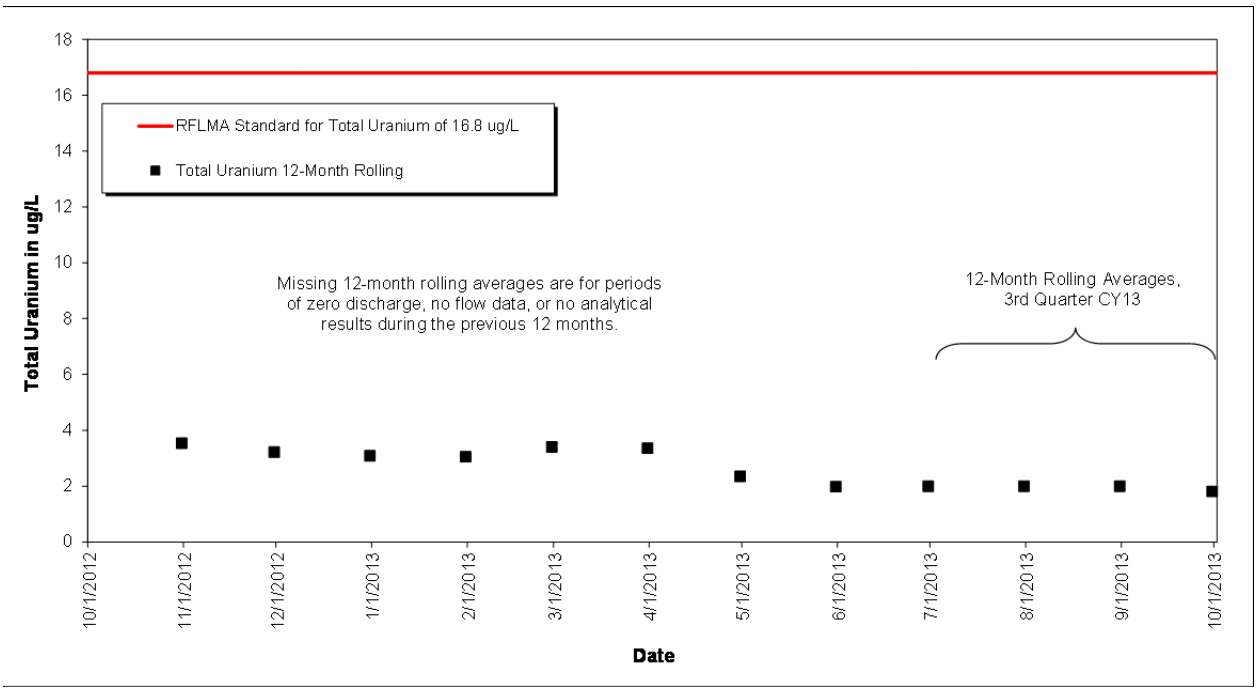
pCi/L = picocuries per liter

Figure 20. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WOMPOC: Year Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 21. Volume-Weighted 30-Day Average Total Uranium Concentrations at WOMPOC: Calendar Year Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 22. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at WOMPOC: Calendar Year Ending Third Quarter CY 2013

3.1.3 POE Monitoring

The following sections include summary plots showing the applicable 12-month rolling averages for the POE analytes.

3.1.3.1 Monitoring Location GS10

Monitoring location GS10 is on South Walnut Creek just upstream of the B-Series ponds. Figure 23 and Figure 25 show the 12-month rolling averages for plutonium, americium, and total uranium values during the quarter. Figure 24 and Figure 26 show sampling data from 2005 through the third quarter of CY 2013.

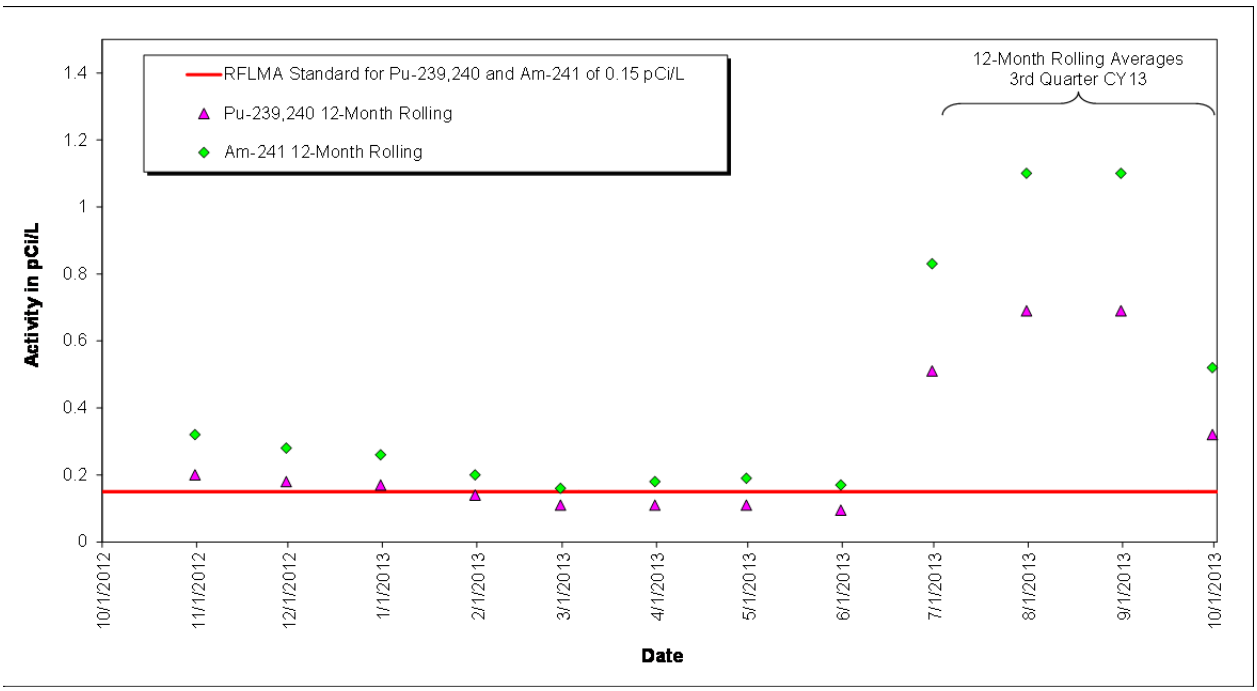
Table 4 shows automated composite sampling information collected during September 2013. It should be noted that the sampler was full and did not collect any water for the period 9/11/13 21:49 to 9/13/13 15:30. Therefore, no analytical results are available for this period and in accordance with routine evaluation protocols, this period is not included in the calculation of 12-month rolling and 30-day averages.

Table 4. September 2013 Composite Sampling Detail for POE GS10

Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239,240 (pCi/L)	Uranium (µg/L)			
8/9 13:06–9/11 21:49	109	0.041	0.033	5.61	0.85	0.0–15.7	Sampler filled 9/11 21:49
9/11 21:49–9/13 15:30	0 NSQ	NA	NA	NA	16.0 (est)	1.4–65.1 (est)	Sampler full 9/11 21:49–9/13 15:30
9/13 15:30–9/16 12:09	110	0.0	0.012	5.55	3.0	0.2–13.2	Sampler was full 9/15 17:06–9/16 12:09
9/16 12:09–9/24 16:26	41	0.013	0.010	12.7	1.2	0.1–1.3	
9/24 16:26–10/16 14:45	47	0.009	0.002	16.3	1.4	0.04–0.4	

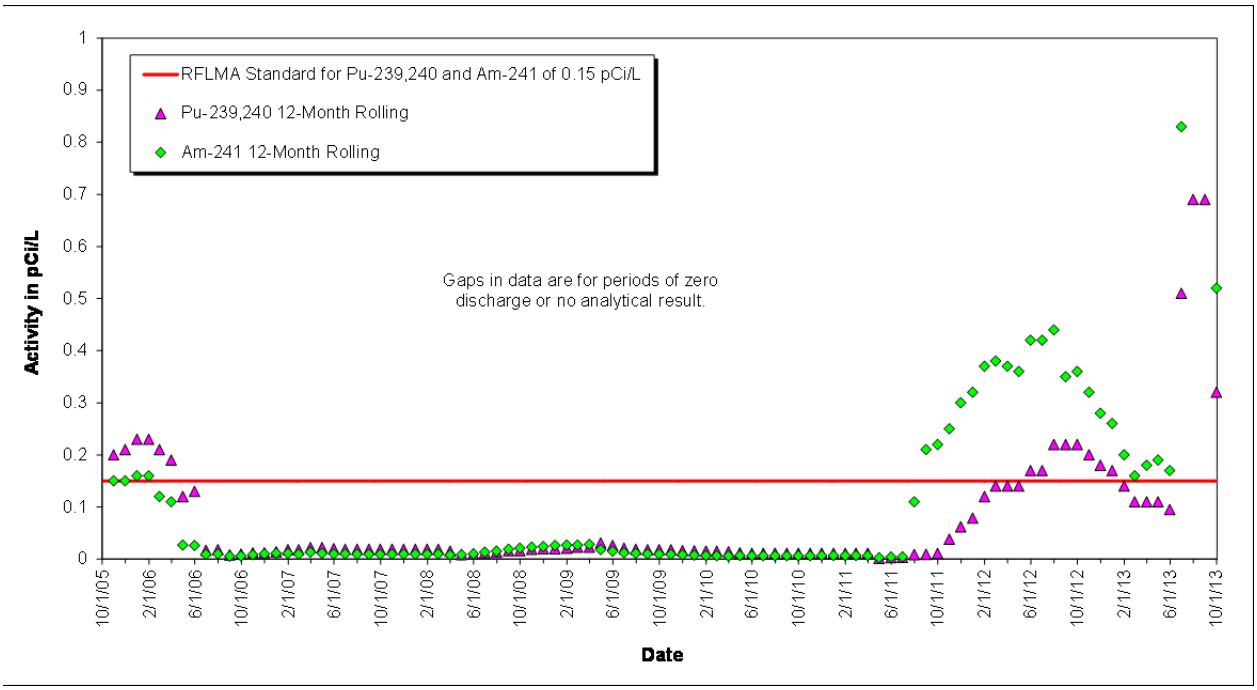
Notes:
CFS = cubic feet per second
est = estimated
µg/L = micrograms per liter
MG = million gallons
NA = not analyzed
NSQ = nonsufficient quantity for analysis
pCi/L = picocuries per liter

Reportable 12-month rolling average uranium concentrations were observed in surface water at RFLMA POE monitoring station GS10 starting on April 30, 2011. Reportable 12-month rolling average americium and plutonium activities were also observed starting on August 31, 2011, and May 31, 2012, respectively. As of the end of the third quarter of CY 2013, only plutonium and americium were still reportable.



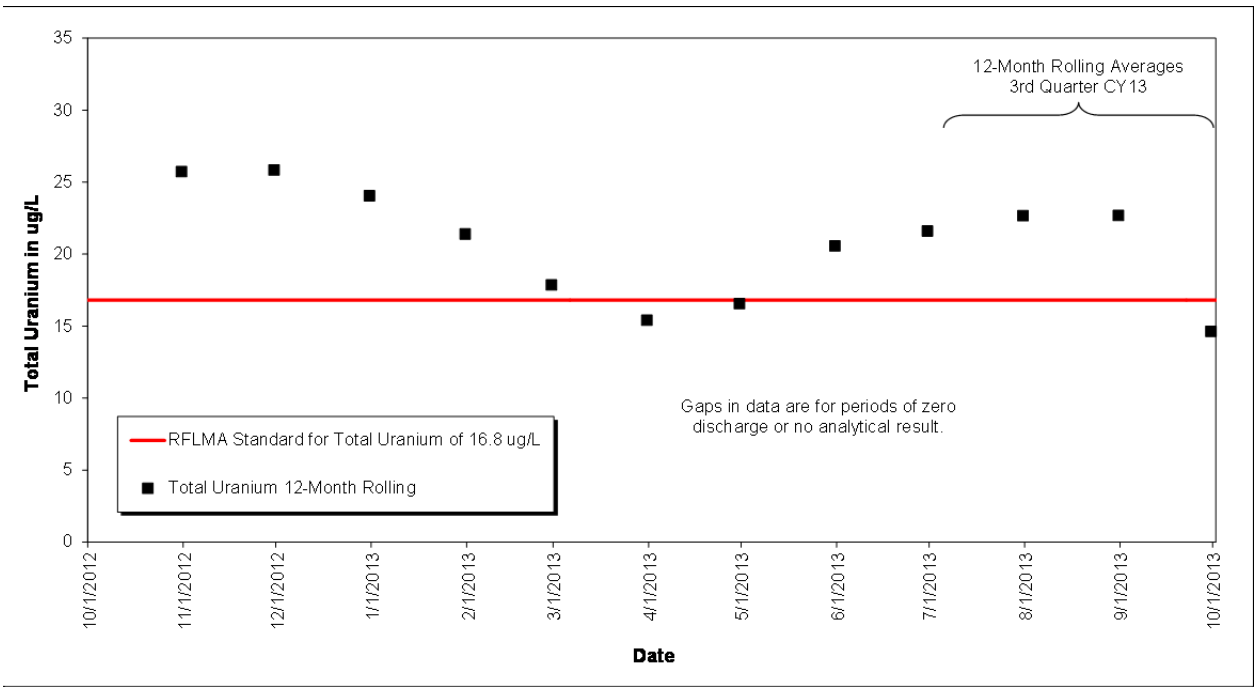
pCi/L = picocuries per liter

Figure 23. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at GS10: Year Ending Third Quarter CY 2013



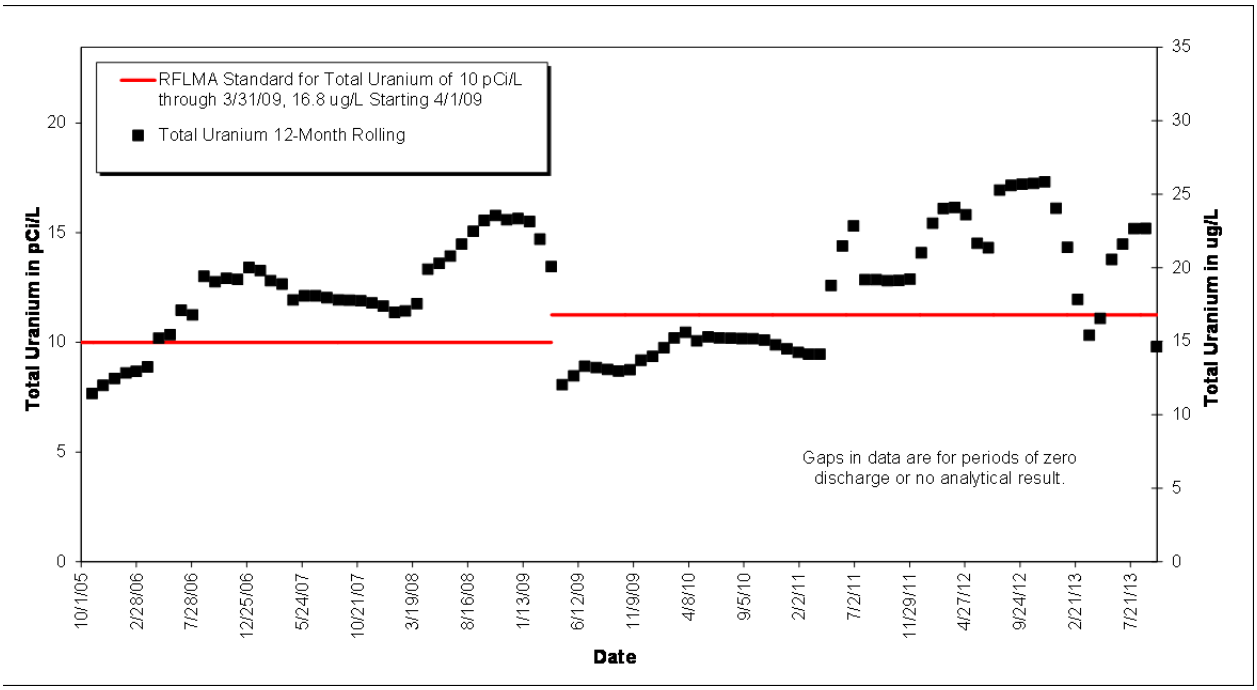
pCi/L = picocuries per liter

Figure 24. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at GS10: Postclosure Period Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 25. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at GS10: Year Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter
pCi/L = picocuries per liter

Figure 26. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at GS10: Postclosure Period Ending Third Quarter CY 2013

The sampling results for plutonium, americium, and uranium from composite samples collected at GS10 during CY 2013 are given in Table 5.

Table 5. CY 2013 Composite Sampling Results at GS10

Date–Time Start	Date–Time End	Am-241 Result (pCi/L)	Pu-239, 240 Result (pCi/L)	Uranium Result (µg/L)
12/4/2012–10:44	1/10/2013–10:39	0.054	0.032	12.3
1/10/2013–10:39	3/4/2013–11:22	NSQ	NSQ	NSQ
3/4/2013–11:22	4/1/2013–10:35	0.724	0.325	39.5
4/1/2013–10:35	4/20/2013–18:54	0.183	0.110	28.8
4/20/2013–18:54	4/24/2013–9:51	0.221	0.131	27.2
4/24/2013–9:51	4/29/2013–12:21	0.133	0.085	26.3
4/29/2013–12:21	5/3/2013–12:24	0.191	0.080	36.5
5/3/2013–12:24	5/8/2013–9:01	0.353	0.201	34.2
5/8/2013–9:01	5/16/2013–11:04	0.038	0.029	18.9
5/16/2013–11:04	5/28/2013–10:54	0.023	0.014	26.8
5/28/2013–10:54	6/14/2013–9:12	0.145	0.058	19.4
6/14/2013–9:12	7/3/2013–7:36	8.41	5.28	21.9
7/3/2013–7:36	8/9/2013–13:06	4.54	2.82	28.8
8/9/2013–13:06	9/11/201–21:49	0.041	0.033	5.61
9/11/2013–21:49	9/13/201–15:30	NSQ	NSQ	NSQ
9/13/201–5:30	9/16/201–12:09	0.0	0.012	5.55
9/16/201–12:09	9/24/201–16:26	0.013	0.010	12.7
9/24/201–16:26	10/16/201–14:45	0.009	0.002	16.3
10/16/201–14:45	11/13/201–13:49	[b]	[b]	[b]
11/13/201–13:49	In Progress	[a]	[a]	[a]

Recent results after the second quarter of CY 2013 are not yet validated and are subject to revision.
[a] Sample in progress
[b] Analysis pending
µg/L = micrograms per liter
NSQ = nonsufficient sample quantity due to ice or full sampler due to excessively high runoff
pCi/L = picocuries per liter

Reportable Americium and Plutonium Activities at GS10

Formal notification of a reportable condition for 12-month rolling average americium values at GS10 was made on December 12, 2011. Formal notification of a reportable condition for 12-month rolling average plutonium values at GS10 was made on July 24, 2012.

The above notifications were triggered by routine data evaluation performed in accordance with RFLMA Attachment 2, Figure 6, “Points of Evaluation,” which resulted in 12-month rolling average values for americium of 0.21 picocurie per liter (pCi/L) on August 31, 2011, and 0.22 pCi/L on September 30, 2011. As of June 30, 2013, using validated data, the 12-month rolling average for americium remained above the standard at 0.83 pCi/L. Similarly, data evaluation resulted in a 12-month rolling average value for plutonium of 0.17 pCi/L on May 31, 2012. As of September 30, 2013, using validated data, the 12-month rolling average for both americium and plutonium remained above the standard at 0.52 pCi/L and 0.32 pCi/L, respectively. The applicable RFLMA Table 1 standard for americium and plutonium is 0.15 pCi/L.

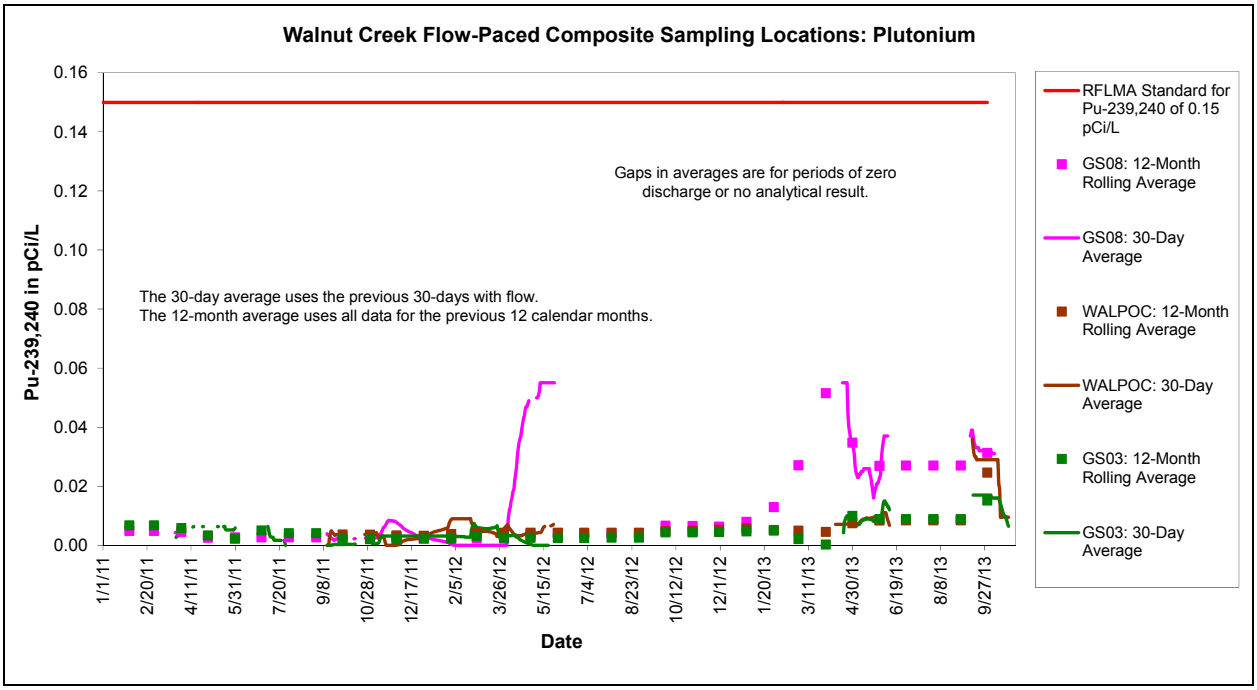
Downstream monitoring at GS08, WALPOC, and GS03 continue to show plutonium and americium activities below the RFLMA standard of 0.15 pCi/L. Recent analytical results from these downstream locations are given in Table 6. The latest available 12-month rolling and 30-day average plutonium and americium activities calculated from flow-paced composite samples are shown on Figure 27 and Figure 28.

An aliquot from each flow-paced composite sample routinely being collected at B5INFLOW (supporting the GS10 uranium evaluation; Figure 29) is also being held for plutonium and americium analysis if upstream sample results at GS10 suggest analysis would inform the evaluation. To date, 10 plutonium and americium results have been obtained and all results are well below the RFLMA standard of 0.15 pCi/L. The highest single result is 0.012 pCi/L of americium for the March 14–April 1, 2013, composite sample.

Table 6. Recent Plutonium and Americium Flow-Paced Composite Sample Results

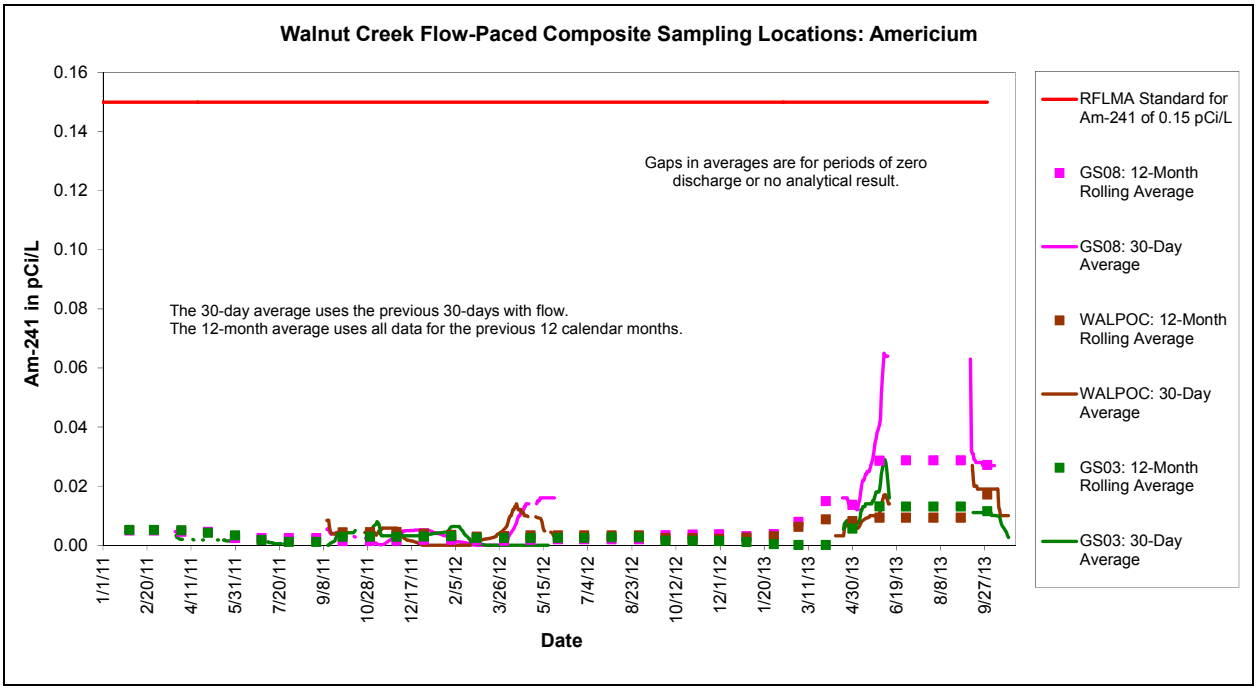
GS08		WALPOC		GS03	
Sample Period	**Result Am/Pu (pCi/L)**	**Sample Period**	**Result Am/Pu (pCi/L)**	**Sample Period**	**Result Am/Pu (pCi/L)**
1/5–2/1/12	0.001/0.0	1/3–2/23/12	0.0/0.009	1/3–2/10/12	0.006/0.003
2/1–4/4/12	0.0/0.0			2/10–2/23/12	0.0/0.003
		2/23–3/6/12	0.003/0.001	2/23–2/27/12	0.0/0.012
				2/27–3/1/12	0.0/0.0
		3/6–3/21/12	0.004/0.009	3/1–3/15/12	0.0/0.002
		3/21–4/13/12	0.018/0.0	3/15–4/4/12	0.0/0.005
4/4/12–4/25/13	0.016/0.055	4/13/12–4/21/13	0.003/0.007	4/4/12–1/15/13	0.0/0.0
				1/15–4/21/13	0.008/0.006
		4/21–4/29/13	0.010/0.007	4/21–4/25/13	0.009/0.012
4/25–5/7/13	0.010/0.004			4/25–4/29/13	0.0/0.009
		4/29–5/3/13	0.001/0.012	4/29–5/3/13	0.0/0.012
		5/3–5/7/13	0.0/0.005	5/3–5/7/13	0.012/0.0
5/7–6/4/13	0.065/0.037	5/7–5/17/13	0.022/0.016	5/7–5/17/13	0.036/0.016
		5/17–6/4/13	0.010/0.0	5/17–6/25/13	0.0/0.009
6/4–9/12/13	0.031/0.039	6/4–9/12/13	0.007/0.026	6/25–9/12/13	0.016/0.036
9/12–9/14/13	NSQ	9/12–9/13/13	NSQ	9/12–9/14/13	0.032/0.042
9/14–9/15/13	0.017/0.006	9/13–9/14/13	0.028/0.039	9/14–10/2/13	0.011/0.017
9/15–9/17/13	NSQ	9/14–9/16/13	0.013/0.025		
9/17–9/24/13	0.008/0.004	9/16–10/25/13	0.010/0.010		
9/24–10/9/13	0.0/0.001			10/2–10/7/13	0.0/0.004
10/9–11/14/13	[a]	10/25/13–	[b]	10/7–10/25/13	0.0/0.002
11/14/13–	[b]			10/25/13–	[b]

Some results are preliminary and subject to revision; negative results are set to zero.
[a] Results pending
[b] Sample in progress
NSQ = nonsufficient sample quantity (no analytical results)



Values for 12-month and 30-day averages shown here are presented for comparison purposes only.

Figure 27. Average Plutonium Activities at Locations Downstream of GS10



Values for 12-month and 30-day averages shown here are presented for comparison purposes only.

Figure 28. Average Americium Activities at Locations Downstream of GS10

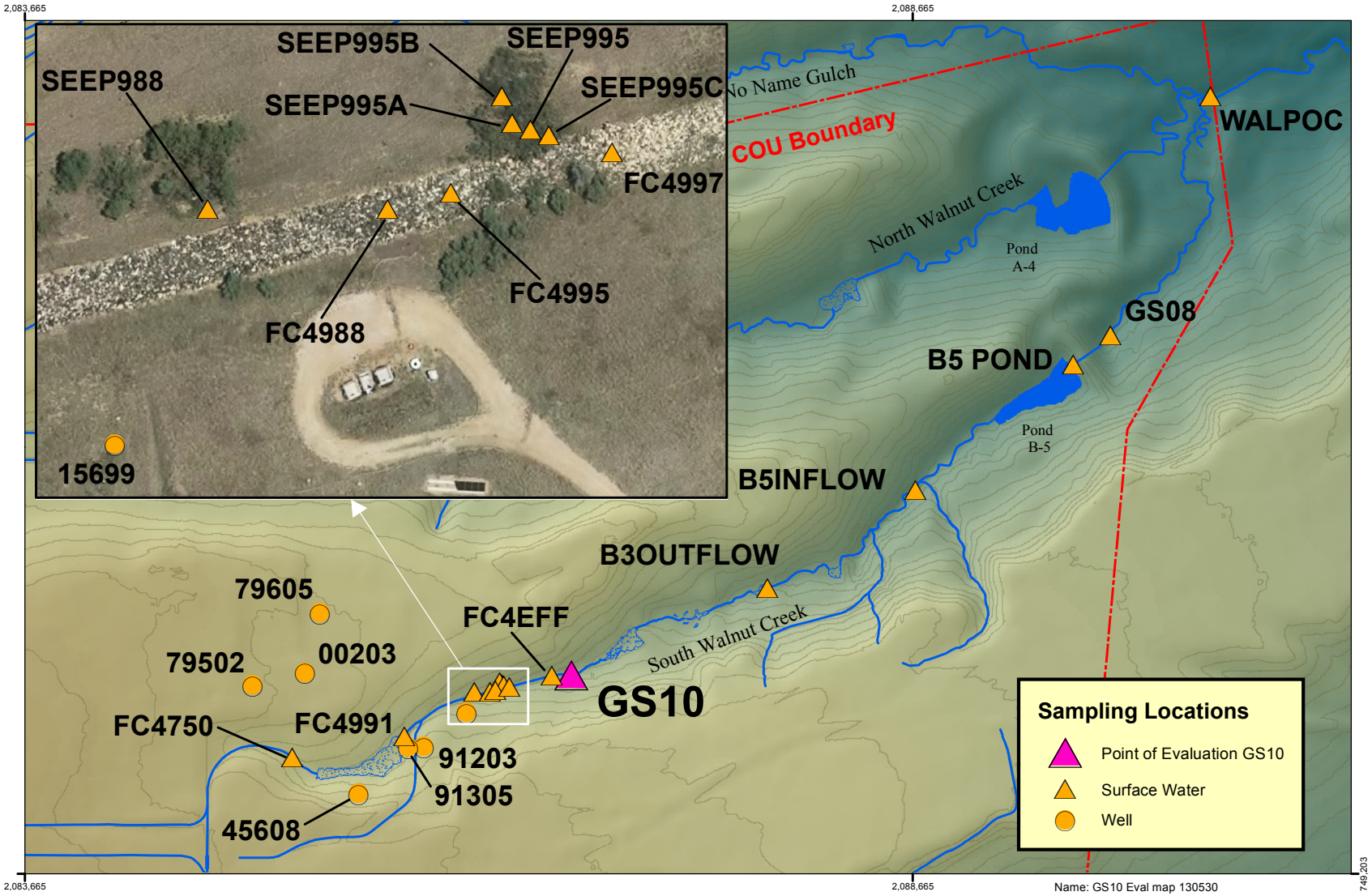


Figure 29. Evaluation Sampling Location Map for GS10 Drainage Area

Many additional water samples have been collected both upstream and downstream of GS10. Although further evaluation and consultation is ongoing, the following list summarizes action to date:

- Rocky Flats site staff walked down the GS10 drainage on November 16, 2011, to see if any obvious conditions were promoting potential soil erosion. Some thin vegetation spots were noted on the north side of the riprap upstream of GS10. Some reseeding/erosion matting may have been useful, but given that the current water quality does not appear to be a result of soil transport, additional erosion controls were not implemented. A closer examination of the drainage to focus on seeps and former utility corridors was conducted; representatives from DOE and EPA were in attendance. Additional seed was spread and raked into the ground along the riprap areas upstream of GS10 in FC-4 and at the confluence of FC-4/FC-5 on November 29, 2011.
- Historical plutonium and americium well data from wells in the drainage have been reviewed. The review gave no indication that additional well sampling would be informative at this stage.
- The previous GS10 evaluation reports have been reviewed for information that may aid this current evaluation.
- Several of the sampling locations already designated for evaluation of the reportable condition for uranium at GS10 (FC4991, GS10, and B3OUTFLOW; Figure 29) were grab-sampled on November 25, 2011. Several seep sampling locations (SEEP995, SEEP995A, SEEP995B, and SEEP995C; Figure 29) were also grab-sampled on November 25, 2011. The Seep 995 area was chosen for sampling for the following reasons:
  - GS10 samples with elevated plutonium/americium were collected during low-flow conditions, not during high-flow conditions when soil and sediment would be expected to be transported.
  - Visible surface flow from this seep was observed reaching FC-4.
  - This seep, which has increased in size since closure, is in the same location of the former Wastewater Treatment Plant outfall and a former utility corridor that included Original Process Waste Lines.

  The results in Table 7 suggest that the SEEP995 locations could be contributing plutonium and americium to GS10. However, activities at GS10 for this grab sample are low.

Table 7. Grab Sampling Results Upstream of GS10: November 25, 2011

Location Code	SEEP995	SEEP995A	SEEP995B	SEEP995C
Pu [pCi/L]	0.096	0.156	0.157	0.105
Am [pCi/L]	0.066	0.127	0.035	0.052

	Upstream	➡	Downstream
Location Code	FC4991	GS10	B3OUTFLOW
Pu [pCi/L]	0.006	0.030	0.005
Am [pCi/L]	0.005	0.012	0.005

The arrow from the upper table indicates the relative location of the SEEP995 locations along FC-4.

- Additional samples are being collected at the SEEP995 locations when water is available (i.e., unfrozen seep flow not affected by surface flow, such as snowmelt). Table 8 through Table 11 summarize sample results to date. While the activities are not as high as seen at GS10, the results do suggest that the SEEP995 area could be contributing some plutonium and americium to GS10.

  For the January 24, 2012, sample from SEEP995A, analysis was performed for total plutonium and americium (unfiltered) and also for filtered plutonium and americium (sample filtered with 0.45-micron filter) to evaluate for the possibility of colloidal transport. However, the low activities for the January 24 samples do not provide additional insight into colloidal transport.

  Additional samples continue to be collected on a periodic basis.

Table 8. Americium Grab Sampling Results for SEEP995 Locations (pCi/L)

Sample Date(s)	SEEP995	SEEP995A	SEEP995B	SEEP995C
11/25/2011	0.066	0.127	0.035	0.052
1/6/2012	---	0.052	---	---
1/24/2012	---	0.000	---	---
3/6/2012	---	0.003	---	---
4/13/2012	---	0.040	---	---
2/14/2013	---	---	---	0.020
2/20/2013	0.002	---	---	---
3/26/2013	0.028	---	---	---
5/15/2013	0.008	0.045	0.008	---
5/28/2013	0.120	0.074	0.007	---
6/10-6/20	0.135	0.138	0.079	---
9/19/2013	0.023	0.033	0.013	0.005
9/24/2013	0.012	0.010	0.017	0.000
9/30/2013	0.069	0.083	0.045	0.077
10/10/2013	0.016	0.041	0.156	0.045
10/17/2013	0.055	0.056	0.010	0.071
10/24/2013	0.054	0.021	0.031	0.022
10/31/2013	0.071	0.016	0.004	0.079

--- = not sampled

Table 9. Plutonium Grab Sampling Results for SEEP995 Locations (pCi/L)

Sample Date(s)	SEEP995	SEEP995A	SEEP995B	SEEP995C
11/25/2011	0.096	0.156	0.157	0.105
1/6/2012	---	0.079	---	---
1/24/2012	---	0.007	---	---
3/6/2012	---	0.004	---	---
4/13/2012	---	0.052	---	---
2/14/2013	---	---	---	0.043
2/20/2013	0.051	---	---	---
3/26/2013	0.058	---	---	---
5/15/2013	0.007	0.028	0.007	---
5/28/2013	0.135	0.157	0.030	---
6/10-6/20	0.179	0.350	0.122	---
9/19/2013	0.040	0.069	0.045	0.022
9/24/2013	0.015	0.015	0.022	0.000
9/30/2013	0.190	0.245	0.101	0.108
10/10/2013	0.024	0.068	0.512	0.059
10/17/2013	0.150	0.123	0.023	0.145
10/24/2013	0.083	0.055	0.088	0.058
10/31/2013	0.129	0.054	0.015	0.143

--- = not sampled

Table 10. Uranium Grab Sampling Results for SEEP995 Locations (µg/L)

Sample Date(s)	SEEP995	SEEP995A	SEEP995B	SEEP995C
11/25/2011	---	---	---	---
1/6/2012	---	12.3	---	---
1/24/2012	---	13.7	---	---
3/6/2012	---	11.2	---	---
4/13/2012	---	7.8	---	---
2/14/2013	---	---	---	22.4
2/20/2013	23.9	---	---	---
3/26/2013	23.4	---	---	---
5/15/2013	14.1	10.9	11.6	---
5/28/2013	14.7	9.4	11.0	---
6/10-6/20	12.6	7.8	11.1	---
9/19/2013	11.7	10.2	12.0	22.3
9/24/2013	14.8	14.4	14.9	26.5
9/30/2013	16.6	19.1	16.0	19.2
10/10/2013	18.2	19.1	21.9	16.8
10/17/2013	24.2	23.1	22.4	19.7
10/24/2013	22.0	21.4	23.9	19.6
10/31/2013	24.0	23.5	23.7	19.3

--- = not sampled
µg/L = micrograms per liter

Table 11. Filtered Results for SEEP995A

SEEP995A	1/24/12 (total)	1/24/12 (filtered)
Pu [pCi/L]	0.007	0.000
Am [pCi/L]	0.000	0.000
U [ug/L]	13.7	NA

ug/L = µg/L = micrograms per liter
NA = not analyzed

- To evaluate whether there could be other seep-related contributions along FC-4 that are not visible due to the thick riprap, several sampling locations were established along FC-4 where water could be reached between the rocks (Figure 29). These locations were grab-sampled on March 6, 2012, for both total and filtered analytes.

  The results in Table 12 show low plutonium and americium activities and no significant spatial trends for any of the analytes. Additional samples are being collected on a periodic basis. These results are presented in Table 13.

Table 12. Grab Sampling Results in FC-4 Upstream of GS10: March 6, 2012

Location Code	SEEP995A
Pu [pCi/L]	0.004
Am [pCi/L]	0.003
U [ug/L]	11.2
Alk as CaCO3 [mg/L]	143
Hardness as CaCO3 [mg/L]	384
pH	7.84@4.1C
TSS [mg/L]	6

	Upstream	➡	➡	**Downstream**
Location Code	FC4988	FC4995	FC4997	FC4EFF
Pu [pCi/L]	0.026	0.000	0.007	0.004
Am [pCi/L]	0.002	0.001	0.002	0.000
U [ug/L]	19.0	19.1	18.7	18.7
Alk as CaCO3 [mg/L]	261	256	246	246
Hardness as CaCO3 [mg/L]	478	468	464	462
pH	7.74@3.5C	7.62@3.2C	7.64@3.5C	7.71@3.7C
TSS [mg/L]	113	2	1	5

The arrow from the upper table indicates the relative location of SEEP995A along FC-4.
Alk = alkalinity
CaCO3 = calcium carbonate
ug/L = µg/L = micrograms per liter
mg/L = milligrams per liter
TSS = total suspended solids

Table 13. Americium, Plutonium, and Uranium Grab Sampling Results for FC-4 Locations (pCi/L)

Americium

Sample Date(s)	FC4988	FC4995	FC4997	FC4EFF
3/26/2013	---	0.003	0.049	---
9/19/2013	0.005	0.021	0.000	0.005
9/30/2013	0.003	0.025	0.000	0.008
10/17/2013	0.000	0.000	0.008	0.002
10/31/2013	0.004	0.005	0.033	0.000

Plutonium

Sample Date(s)	FC4988	FC4995	FC4997	FC4EFF
3/26/2013	---	0.004	0.046	---
9/19/2013	0.005	0.022	0.006	0.004
9/30/2013	0.000	0.004	0.000	0.000
10/17/2013	0.000	0.006	0.001	0.006
10/31/2013	0.003	0.001	0.003	0.003

Uranium

Sample Date(s)	FC4988	FC4995	FC4997	FC4EFF
3/26/2013	---	31.3	29.5	---
9/19/2013	13.5	13.9	14.0	14.7
9/30/2013	15.5	16.1	15.3	15.5
10/17/2013	19.0	19.6	19.2	17.8
10/31/2013	22.2	23.4	22.0	20.3

--- = not sampled

- To evaluate for any plutonium and americium transport characteristics specifically related to the dissolved, colloidal, and particulate mechanisms, water from the routine GS10 composite samples is periodically being analyzed after filtration with a 0.45-micron filter.

  A filtered sample is prepared from selected composite carboys collected at GS10. The routine RFLMA sample is analyzed for total (unfiltered) plutonium, americium, uranium, beryllium, chromium, and hardness. If the analytical results show plutonium and americium concentrations above the 0.15 pCi/L standard, then the corresponding filtered sample may be submitted for analysis. To date, three GS10 composite samples have been analyzed as filtered and unfiltered (Table 14).

Table 14. Results for Filtered and Unfiltered Composite Sample Pairs at GS10

Composite Dates	Am-241 (pCi/L)		Pu-239, 240 (pCi/L)		Uranium (µg/L)	
	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
3/21–4/4/12	0.318	0.000	0.246	0.000	35.5	34.2
4/25–5/9/12	0.478	0.000	0.264	0.026	16.1	NA
7/26–9/12/12	0.464	0.000	0.314	0.002	3.75	3.63
3/4–4/1/13	0.724	0.003	0.325	0.000	39.5	NA
4/1–4/20/13	0.183	0.000	0.110	0.000	28.8	NA
4/20–4/24/13	0.221	0.000	0.131	0.004	27.2	NA
6/14–7/3/13	8.41	0.007	5.28	0.010	21.9	27.2

µg/L = micrograms per liter

Table 14 shows that nearly all of the plutonium and americium was removed by the 0.45-micron filter. Additionally, nearly all of the uranium passed through the filter. These results support the conclusions of previous research showing that plutonium and americium move in association with particulates, while uranium is dissolved. However, these results indicate that the plutonium and americium are only associated with particles larger than 0.45 micron once they reach GS10 and are processed for submittal to the laboratory. It is still possible that plutonium and americium could reach surface water in association with sub-0.45 micron colloids, but then adsorb to other geologic materials or simply aggregate.

Additional unfiltered-filtered sample pairs may periodically be collected from seeps and surface water upstream of GS10.

- Grab samples have been collected upstream of GS10 from both seeps and surface water in an attempt to define the spatial variability of plutonium and americium activities. However, grab samples have failed to show activities similar to those measured in flow-paced composites collected at GS10. This suggests that either the source of the GS10 plutonium and americium is not affecting the grab sample locations, the source could be very close to GS10, the plutonium and americium follow a pathway that is difficult to sample (e.g., below the riprap and fill in FC-4), or the source is intermittent, such that grabs have missed the plutonium and americium, while the flow-paced composites at GS10 (with up to 100 individual grabs) have been more successful.

  Therefore, time-paced automated samplers were deployed at FC4991, FC4997, and GS10 (Figure 29; the latter is a secondary sampler located at GS10) to collect composite samples over the course of a few days. Table 15 presents the results for the May 2012 sampling event, which show very low plutonium and americium activities and give practically no indication of spatial variability (FC4991 did not provide a sample this period). Table 16 presents results for the April 2013 sampling event. Some activity is noted at FC4997, which is located in FC-4 immediately downstream from SEEP995, suggesting that SEEP995 could be contributing plutonium and americium to GS10.

Table 15. Results for Time-Paced Composites at GS10 and FC4997: May 22–28, 2012

Analyte	FC4997 (upstream)	GS10 (downstream)
Am-241 (pCi/L)	0.005	0.005
Pu-239, 240 (pCi/L)	0.00	0.00
Uranium (µg/L)	10.4	10.6
Alkalinity as $CaCO_3$ (mg/L)	205	246
Hardness as $CaCO_3$ (mg/L)	492	517

$CaCO_3$ = calcium carbonate
µg/L = micrograms per liter
mg/L = milligrams per liter

Table 16. Results for Time-Paced Composites at GS10, FC4997, and FC4991: April 22–25, 2013

Analyte	FC4991 (upstream)	FC4997	GS10 (downstream)
Am-241 (pCi/L)	0.003	0.035	0.006
Pu-239, 240 (pCi/L)	0.003	0.054	0.000
Uranium (µg/L)	13.6	21.1	23.4

µg/L = micrograms per liter

- A 2-week turnaround will continue to be requested for analysis of flow-paced composite samples routinely being collected at WALPOC. A 2-week turnaround is also currently being requested for analysis of flow-paced composite samples routinely being collected at GS10 and GS08.

Updates to the ongoing evaluation for GS10 will periodically be communicated through public meetings, routine reports, and contact records. For additional information, go to http://www.lm.doe.gov/Rocky_Flats/ContactRecords.aspx.

Reportable Uranium Concentrations at GS10

The routine GS10 uranium data evaluation is performed in accordance with RFLMA Attachment 2, Figure 6, "Points of Evaluation," which resulted in a calculated 12-month rolling average concentration for uranium of 18.8 micrograms per liter (µg/L) on April 30, 2011, exceeding the RFLMA applicable Table 1 standard of 16.8 µg/L. As of September 30, 2013, the 12-month rolling average concentration for uranium is no longer reportable at 14.6 µg/L.

Initial notification to the regulatory agencies and the public, in accordance with RFLMA Attachment 2, Figure 6, was made by e-mail on June 16, 2011. RFLMA Contact Record 2011-04 (July 8, 2011), "Reportable Condition for Uranium at Point of Evaluation GS10," provides a discussion of the monitoring results and recaps the outcome of the RFLMA Parties consultation regarding the evaluation steps to be taken. RFLMA Contact Record 2011-05 (October 4, 2011), "Update for Reportable Condition for Uranium at Point of Evaluation GS10," provides an update of the monitoring results and provides further discussion of the path forward. Both contact records are available on the Rocky Flats website, http://www.lm.doe.gov/Rocky_Flats/ContactRecords.aspx.

Figure 30 shows the locations sampled in support of the evaluation for GS10. (GS03, which is the current POC on Walnut Creek at Indiana Street, is not shown.)

The following is an update to the ongoing GS10 uranium evaluation:

- Downstream monitoring at B5INFLOW, GS08, WALPOC, and GS03 (Figure 30) continue to show uranium concentrations lower than GS10. All results from the downstream POC (WALPOC) are below 16.8 µg/L. Recent analytical results at these locations are given in Table 17. The latest available 12-month rolling and 30-day average uranium concentrations calculated from flow-paced composite samples are shown in Figure 31.
- Additional sampling and analysis for uranium within the GS10 drainage continues. Following the initial consultation, two temporary surface water sample locations upstream of GS10 were established for biweekly uranium grab sampling (FC4991 and FC4750; Figure 30). Biweekly sampling at these locations was initiated on June 30, 2011.

  These new locations supplement GS10, B3OUTFLOW, B5INFLOW, and B5 POND (Figure 30), which have been sampled biweekly for uranium since January 27, 2010. Data from these six locations are summarized in Table 18. The averages (except for B5 Pond) are shown on Figure 31.

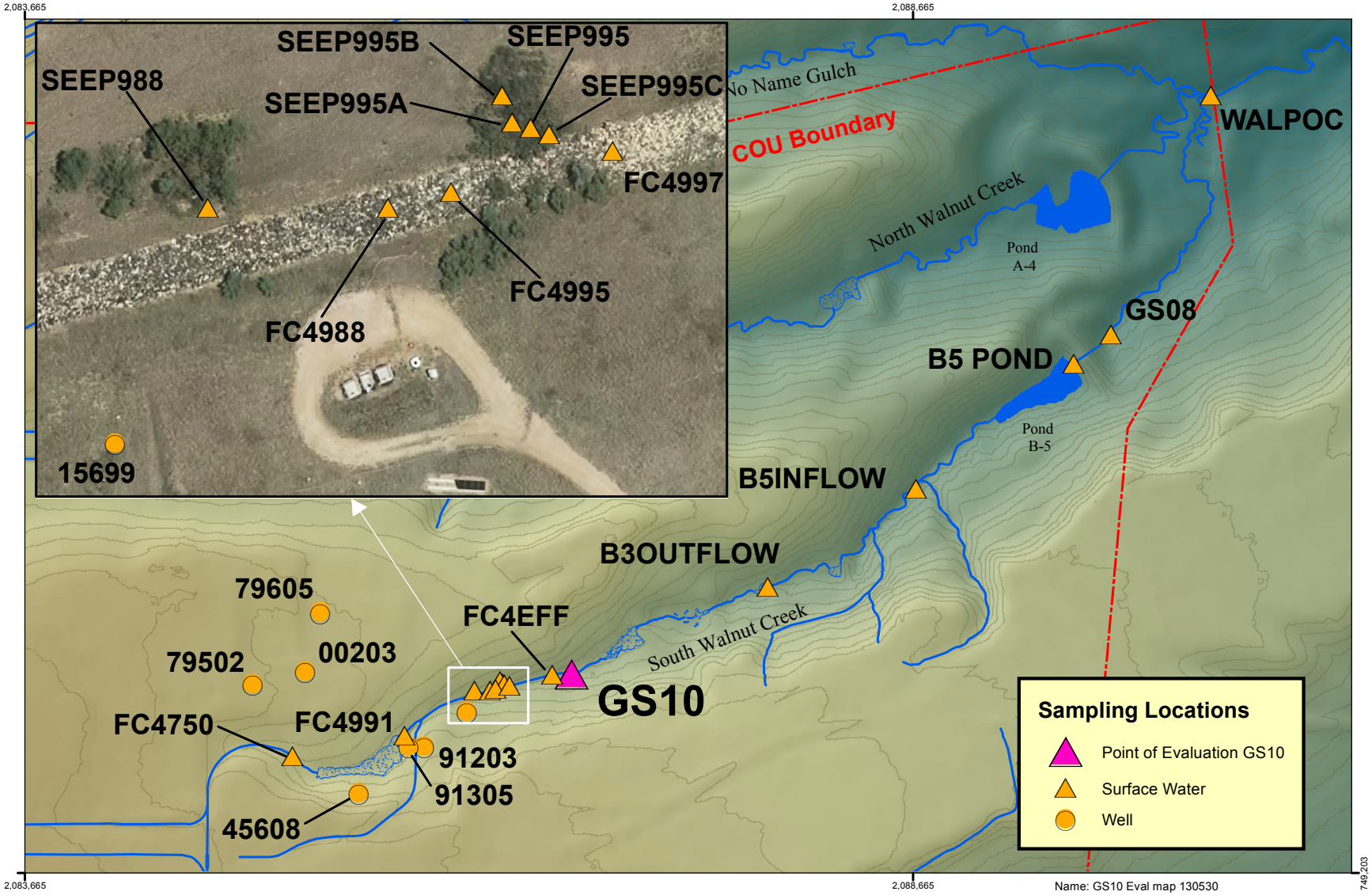
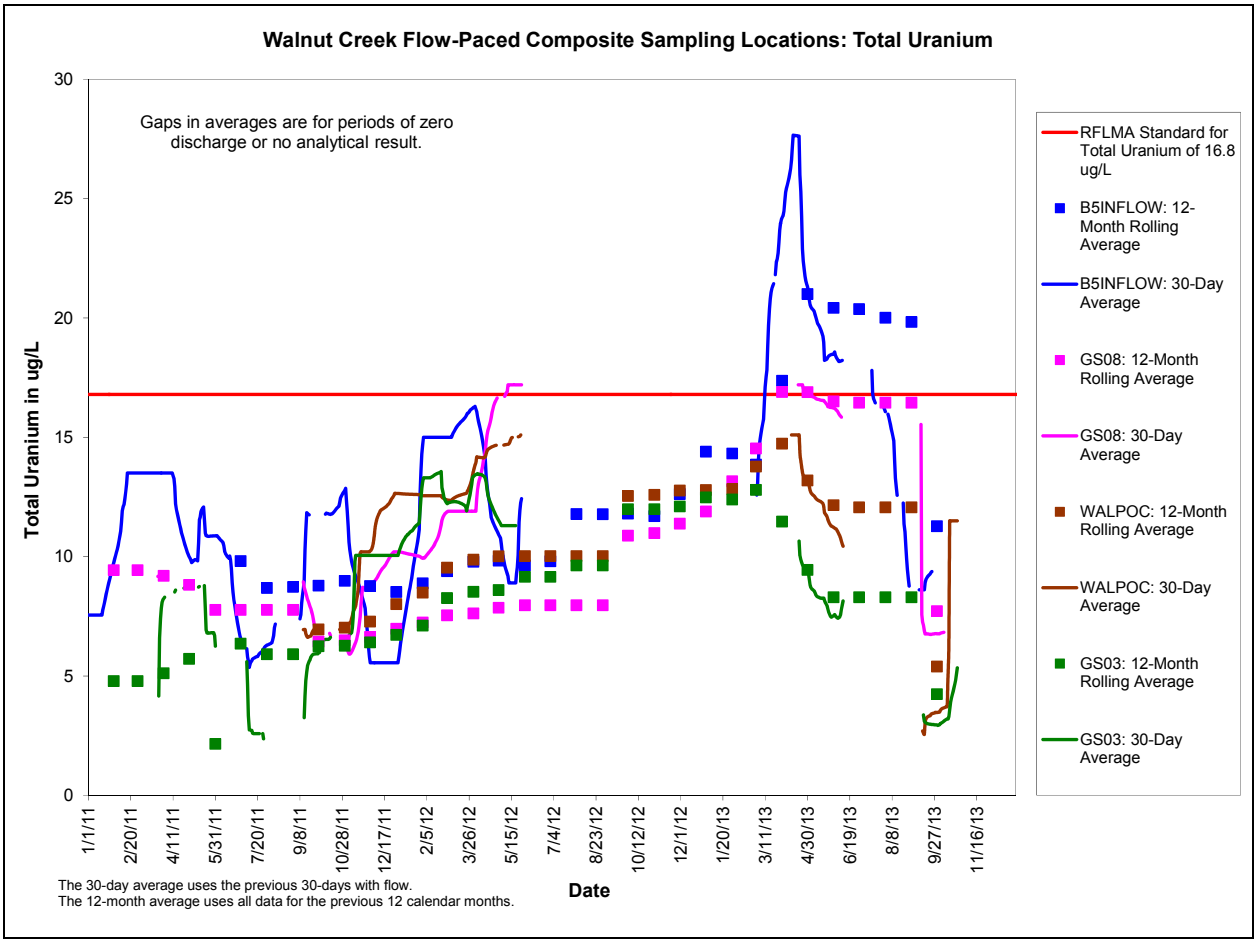


Figure 30. Evaluation Sampling Location Map for GS10 Drainage Area

Table 17. Recent Uranium Flow-Paced Composite Sample Results

B5INFLOW		GS08		WALPOC		GS03	
Sample Period	**Result (µg/L)**	**Sample Period**	**Result (µg/L)**	**Sample Period**	**Result (µg/L)**	**Sample Period**	**Result (µg/L)**
11/1/11–1/3/12	5.6	9/27–11/9/11	8.8	9/27–11/30/11	10.2	9/27/11–1/3/12	10.1
		11/9–11/29/11	8.5				
		11/29/11–1/5/12	10.2	11/30/11–1/3/12	12.7		
1/3–3/6/12	15.0	1/5–2/1/12	9.9	1/3–2/23/12	12.6	1/3–2/10/12	13.3
		2/1–4/4/12	11.9			2/10–2/23/12	13.7
				2/23–3/6/12	12.2	2/23–2/27/12	11.2
						2/27–3/1/12	11.4
3/6–3/23/12	17.4			3/6–3/21/12	14.2	3/1–3/15/12	13.1
3/23–4/13/12	13.2			3/21–4/13/12	14.1	3/15–4/4//12	14.2
4/13–5/21/12	8.90						
5/21/12–3/14/13	20.5	4/4/12–4/25/13	17.2	4/13/12–4/21/13	15.1	4/4/12–1/15/13	11.3
3/14–4/1/13	27.7					1/15–4/21/13	10.4
4/1–4/21/13	27.6						
4/21–4/29/13	17.8			4/21–4/29/13	12.6	4/21–4/25/13	9.36
		4/25–5/7/13	16.4			4/25–4/29/13	9.37
4/29–5/3/13	17.9			4/29–5/3/13	11.5	4/29–5/3/13	7.18
5/3–5/8/13	19.4			5/3–5/7/13	11.3	5/3–5/7/13	7.74
5/8–5/23/13	18.1	5/7–6/4/13	16.1	5/7–5/17/13	11.4	5/7–5/17/13	7.02
5/23–6/26/13	18.4			5/17–6/4/13	10.6	5/17–6/25/13	9.03
6/26–9/11/13	8.6	6/4–9/12/13	7.1	6/4–9/12/13	3.2	6/25–9/12/13	8.9
9/11–9/16/13	NSQ	9/12–9/14/13	NSQ	9/12–9/13/13	NSQ	9/12–9/14/13	2.2
		9/14–9/15/13	4.3	9/13–9/14/13	2.0	9/14–10/2/13	2.9
		9/15–9/17/13	NSQ	9/14–9/16/13	2.6		
9/16–9/25/13	14.4	9/17–9/24/13	7.4	9/16–10/25/13	11.5		
9/25–10/25/13	[a]	9/24–10/9/13	11.1			10/2–10/7/13	4.9
10/25/13–	[b]	10/9–11/14/13	[a]	10/25–12/18/13	[a]	10/7–10/25/13	7.1
		11/14/13–	[b]	12/18/13–	[b]	10/25/13–	[b]

Some results are preliminary and subject to revision.
[a] Results pending
[b] Sample in progress
NSQ = nonsufficient quantity for analysis



Plot includes unvalidated analytical data that are preliminary and subject to revision.
ug/L = µg/L = micrograms per liter

Figure 31. Average Uranium Concentrations at Locations Downstream of GS10

Table 18. Summary of Biweekly Uranium Grab Sampling in South Walnut Creek

South Walnut Creek		**Uranium (ug/L)**			
	Location Code	**Average**	**Sample Count**	**85th Percentile**	**50th Percentile**
Upstream	FC4750	19.2	33	21.6	17.0
⬇	FC4991	13.6	37	22.6	12.0
⬇	GS10	14.6	96	21.8	14.0
⬇	B3OUTFLOW	16.0	70	23.0	16.5
⬇	B5INFLOW	13.2	64	18.0	14.0
Downstream	B5 POND	8.31	98	11.5	7.30

ug/L = µg/L = micrograms per liter

- As noted in previous RFLMA quarterly reports, the following samples were sent to Los Alamos National Laboratory (LANL) for isotopic analysis during the spring of 2011. LANL determines the percentages of natural and anthropogenic uranium to compare with percentages in preclosure and postclosure samples previously analyzed by LANL. The locations described below are shown on Figure 30 and Figure 31:
  - Flow-paced surface water sample from GS10 for the period June 3−June 13, 2011. (Historically, GS10 has shown approximately 70 percent natural uranium.)
  - Groundwater sample from upgradient well 99405. (Historically, 99405 has shown uranium concentrations that typically exceed 100 µg/L and have been 99.9 to 100 percent natural uranium.)

  The results of the LANL analysis have been reported by LANL to Stoller staff. The following highlights are noted:
  - The signature results for GS10 do not match the historical natural uranium percentage of approximately 70 percent. Natural uranium was reported as 50.6 percent. The uranium concentration was 21.6 µg/L. The previous LANL sample, taken on March 17, 2010, was 24.1 µg/L and 72.3 percent natural uranium.
  - The results for well 99405 were 411.1 µg/L uranium, with a 100 percent natural uranium signature. These results are consistent with historical data.
- Based on the above LANL results for GS10, the following additional samples were collected in the fall of 2011 and sent to LANL for isotopic analysis (the locations are shown on Figure 30):
  - Water from the routine flow-paced composite sample collected at GS10 during the period August 24–September 29, 2011, to help confirm the previous sample results.
  - Grab samples at FC4750 and FC4991 collected on September 28, 2011.
  - Water from the routine flow-paced composite sample collected at B5INFLOW during the period August 24–September 29, 2011. This location does not have previous LANL results.
  - A grab sample at B3OUTFLOW collected on September 27, 2011. One postclosure LANL sample has been collected at B3OUTFLOW. The result was a 74.7 percent natural uranium signature.
  - A grab sample at well 91305, which is upgradient of GS10, collected on October 10, 2011.

  The results of the LANL analysis have been reported by LANL to Stoller staff. The following highlights are noted:
  - The signature results for GS10 have returned to the historical natural uranium percentage of approximately 70 percent. Natural uranium was reported as 70.2 percent. The uranium concentration was 8.9 µg/L.
  - The results for all of the other locations show natural uranium signatures between 70.9 and 90.8 percent. These results are consistent with historical data (where said data exist).

- The Site is now using the Lawrence Berkeley National Laboratory (LBNL) to perform the high-resolution isotopic analyses. Additional samples listed below were sent to LBNL in July. The locations are shown on Figure 30 and Figure 31 and are described below (GS03 is not shown but is on Walnut Creek at Indiana Street):
  - Selected flow-paced composite samples from GS10 for the period July 2011 to the present.
  - Selected flow-paced composite samples from WALPOC for the period September 2011 to the present.
  - A sample from well 79102, which is located in the Solar Ponds Plume area.

  The results of the LBNL analyses have been reported by LBNL to Stoller staff. The following highlights are noted:
  - GS10 shows variable percentages of natural uranium ranging from 43 percent to 59 percent.
  - WALPOC shows more consistent percentages of uranium, ranging from 76 percent to 80 percent.
  - Well 79102 continues to show a 100 percent depleted uranium signature.
- Additional nonroutine grab samples have been collected to assist in the possible identification of a source that may have contributed to elevated uranium levels at GS10. These additional samples included the following:
  - Wells 15699, 45608, 91305, and 91203 were grab-sampled for uranium on October 10–October 11, 2011.
  - Wells 00203, 79502, and 79605 were grab-sampled for uranium and nitrate + nitrite as nitrogen on October 6, 2011.
  - GS10 and hillside seep locations SEEP988 and SEEP995 were also grab-sampled for uranium and nitrate + nitrite as nitrogen on September 28–September 29, 2011.

Updates to the ongoing evaluation for GS10 will periodically be communicated through public meetings, routine reports, and contact records. For additional information, go to http://www.lm.doe.gov/Rocky_Flats/ContactRecords.aspx.

3.1.3.2 Monitoring Location SW027

Monitoring location SW027 is at the end of the South Interceptor Ditch at the inlet to Pond C-2. Figure 32 and Figure 34 show no occurrences of reportable 12-month rolling averages for plutonium, americium, and total uranium values during the quarter. Figure 33 and Figure 35 show water-quality data for plutonium, americium, and uranium from 2005 through the third quarter of CY 2013.

Table 19 shows automated composite sampling information collected during September 2013. It should be noted that the sampler was full and did not collect any water for the period 9/12/13 12:21 to 9/13/13 13:17. Therefore, no analytical results are available for this period and in accordance with routine evaluation protocols, this period is not included in the calculation of 12-month rolling averages.

Table 19. September 2013 Composite Sampling Detail for POE SW027

Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239,240 (pCi/L)	Uranium (µg/L)			
2/4 11:38–9/12 12:21	109	0.026	0.108	1.91	0.24	0–3.5	Sampler filled 9/12 12:21.
9/12 12:21–9/13 13:17	0 NSQ	NA	NA	NA	5.1 (est)	0.8–28.4 (est)	Sampler full from 9/12 12:21–9/13 13:17
9/13 13:17–10/3 17:49	47	0.014	0.126	1.98	1.0	0–4.6	

Notes:
CFS = cubic feet per second
est = estimated
MG = million gallons
NA = not analyzed
NSQ = nonsufficient quantity for analysis

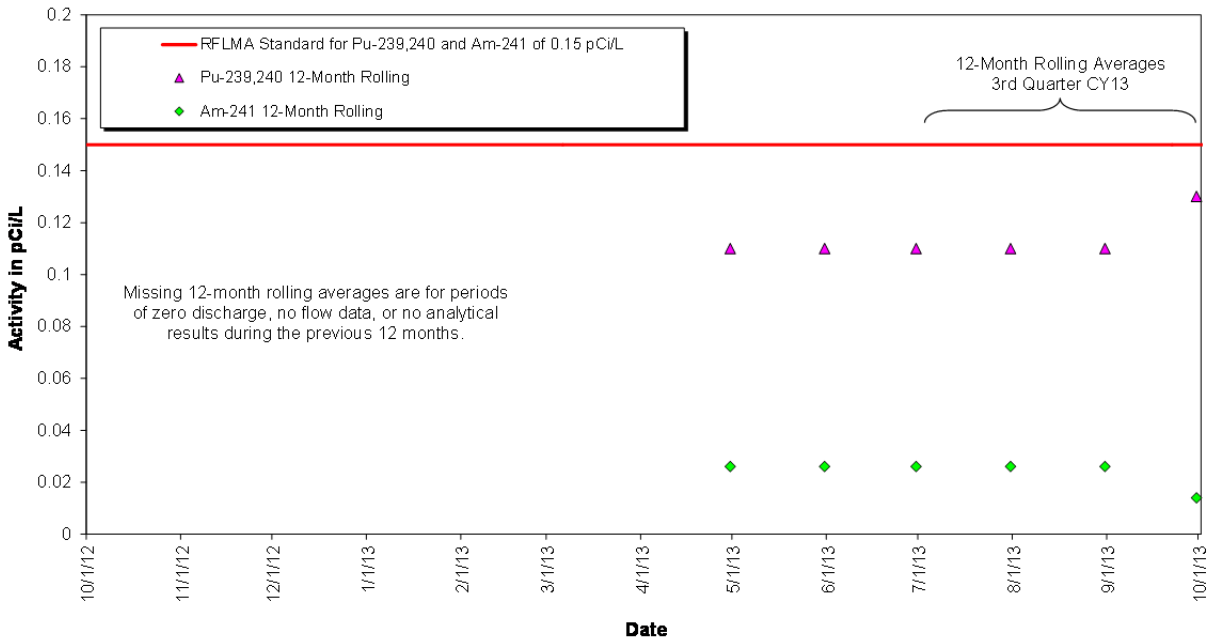


Figure 32. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW027: Year Ending Third Quarter CY 2013

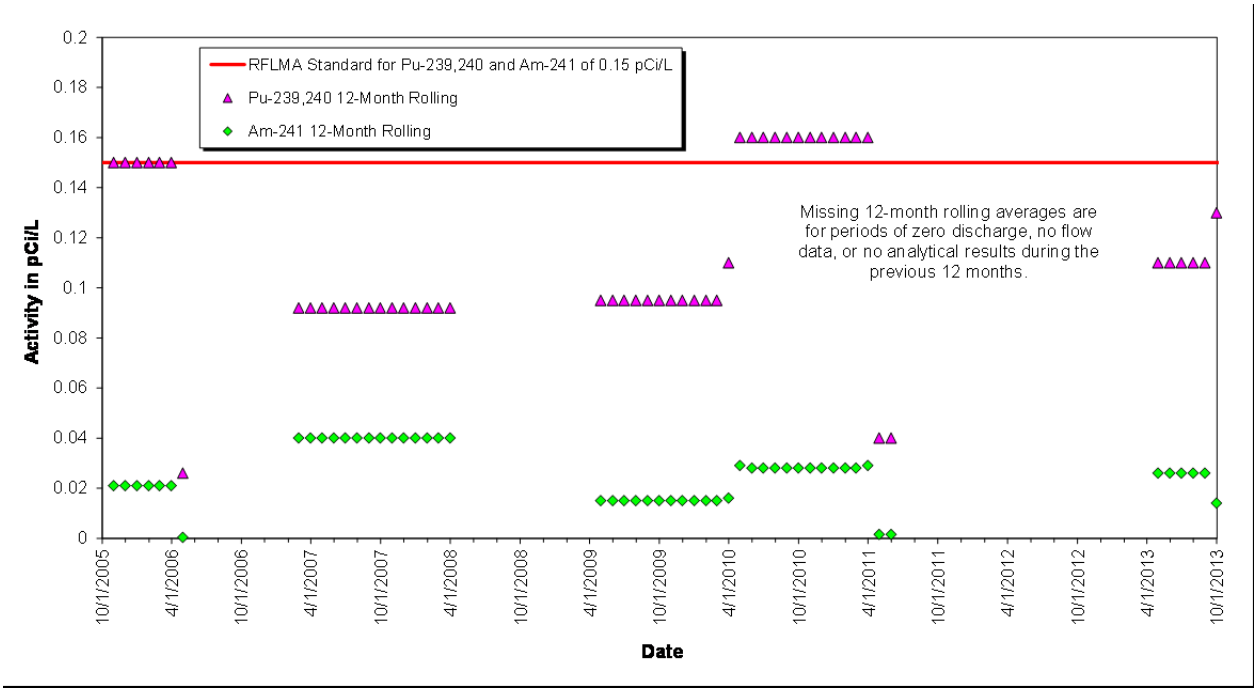
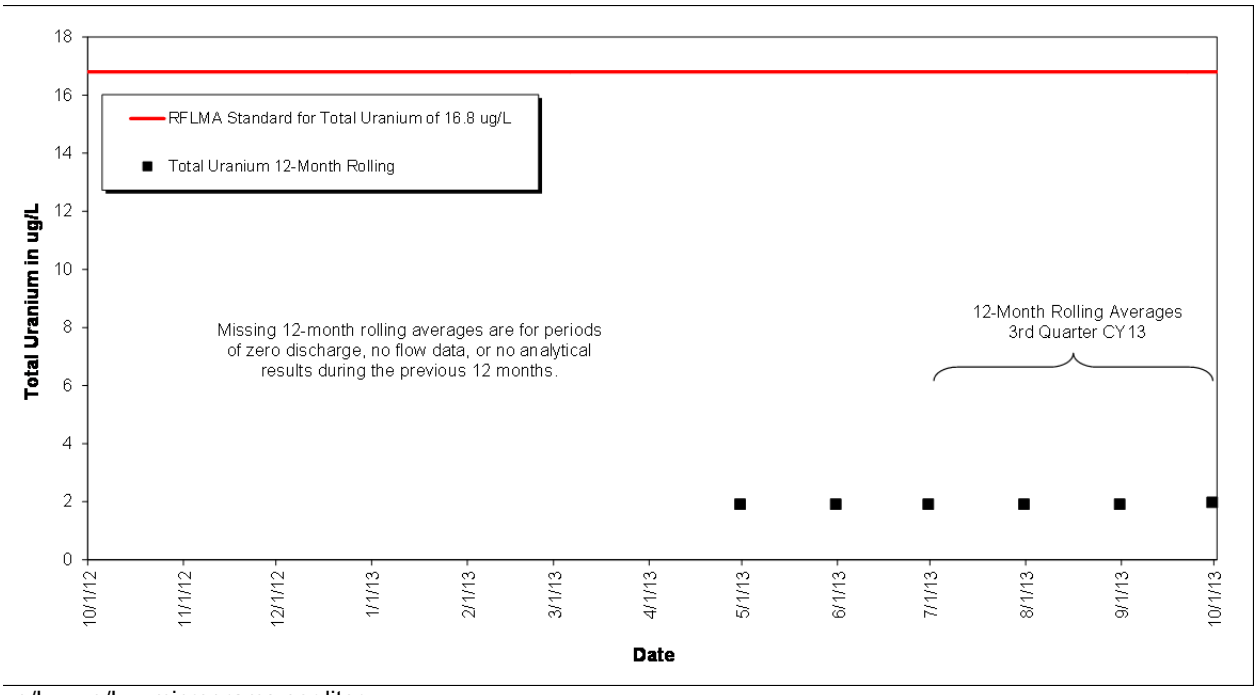
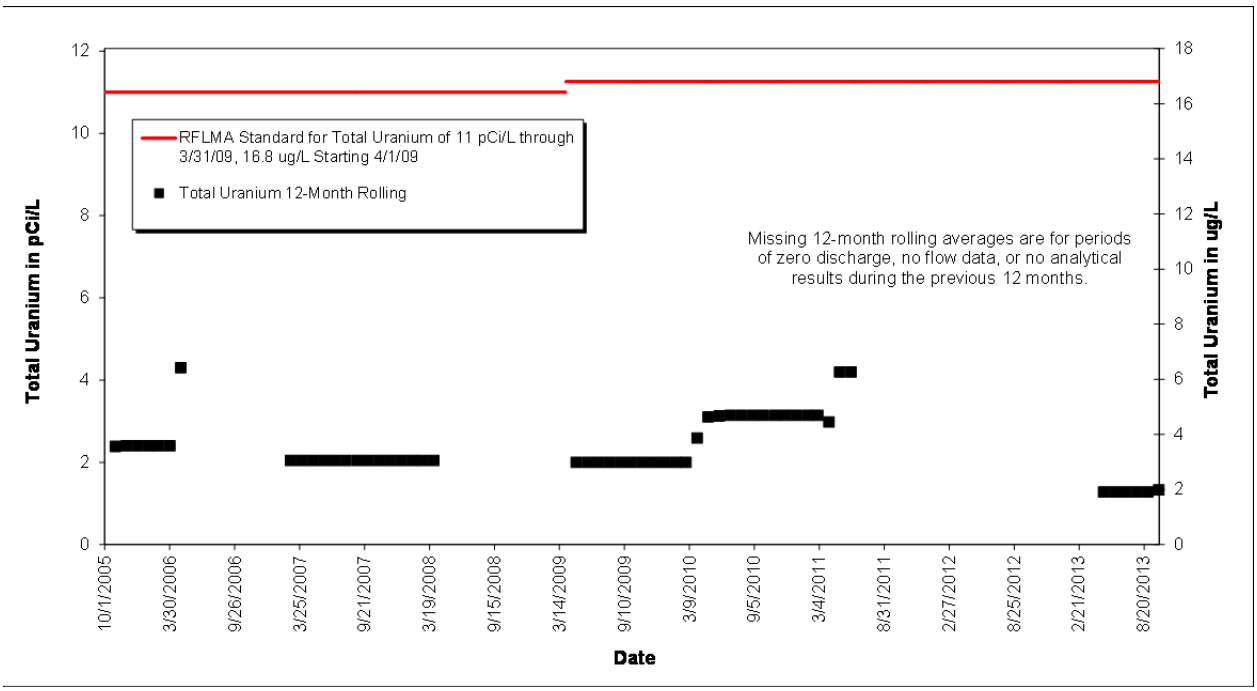


Figure 33. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW027: Postclosure Period Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 34. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at SW027: Year Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 35. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at SW027: Postclosure Period Ending Third Quarter CY 2013

3.1.3.3 Monitoring Location SW093

Monitoring location SW093 is on North Walnut Creek, 1,300 feet upstream of former Pond A-1. Figure 36 and Figure 38 show no occurrences of reportable 12-month rolling averages for plutonium, americium, or total uranium values during the quarter. Figure 37 and Figure 39 show sampling data from 2005 through the third quarter of CY 2013.

Table 20 shows automated composite sampling information collected during September 2013. It should be noted that the sampler was full and did not collect any water for the period 9/11/13 20:17 to 9/15/13 11:01. Therefore, no analytical results are available for this period and in accordance with routine evaluation protocols, this period is not included in the calculation of 12-month rolling averages.

Table 20. September 2013 Composite Sampling Detail for POE SW093

Sampling Period	Number of Grabs	Sample Results			Flow Volume (MG)	Flow Rates (CFS)	Comments
		Am-241 (pCi/L)	Pu-239,240 (pCi/L)	Uranium (µg/L)			
7/23 12:28–9/11 20:17	110	0.031	0.011	2.88	1.7	0–10.2	Sampler filled 9/11 20:17
9/11 20:17–9/15 11:01	0 NSQ	NA	NA	NA	43.3 (est)	0.7–136 (est)	Sampler full from 9/11 20:17 to 9/15 11:01
9/15 11:01–9/19 12:34	58	0.018	0.0	5.33	4.3	0.3–17.5	
9/19 12:34–10/15 14:15	63	0.003	0.002	12.1	3.6	0.1–2.3	

Notes:
CFS = cubic feet per second
est = estimated
MG = million gallons
NA = not analyzed
NSQ = nonsufficient quantity for analysis

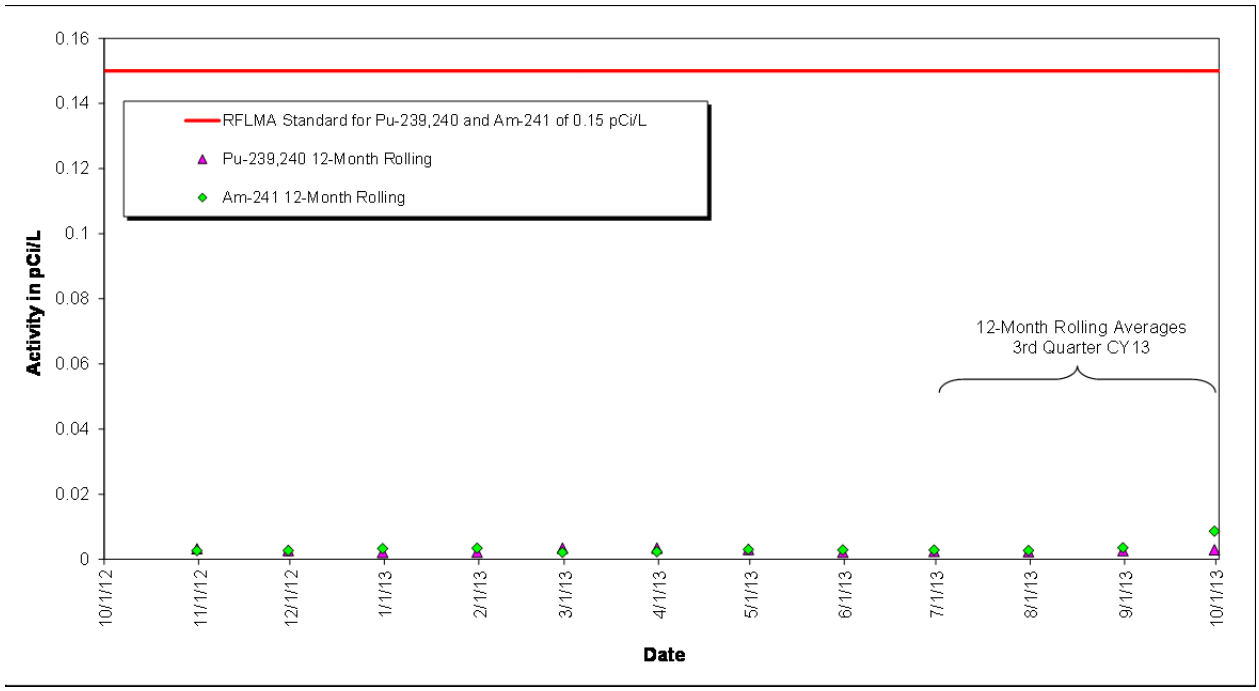


Figure 36. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW093: Year Ending Third Quarter CY 2013

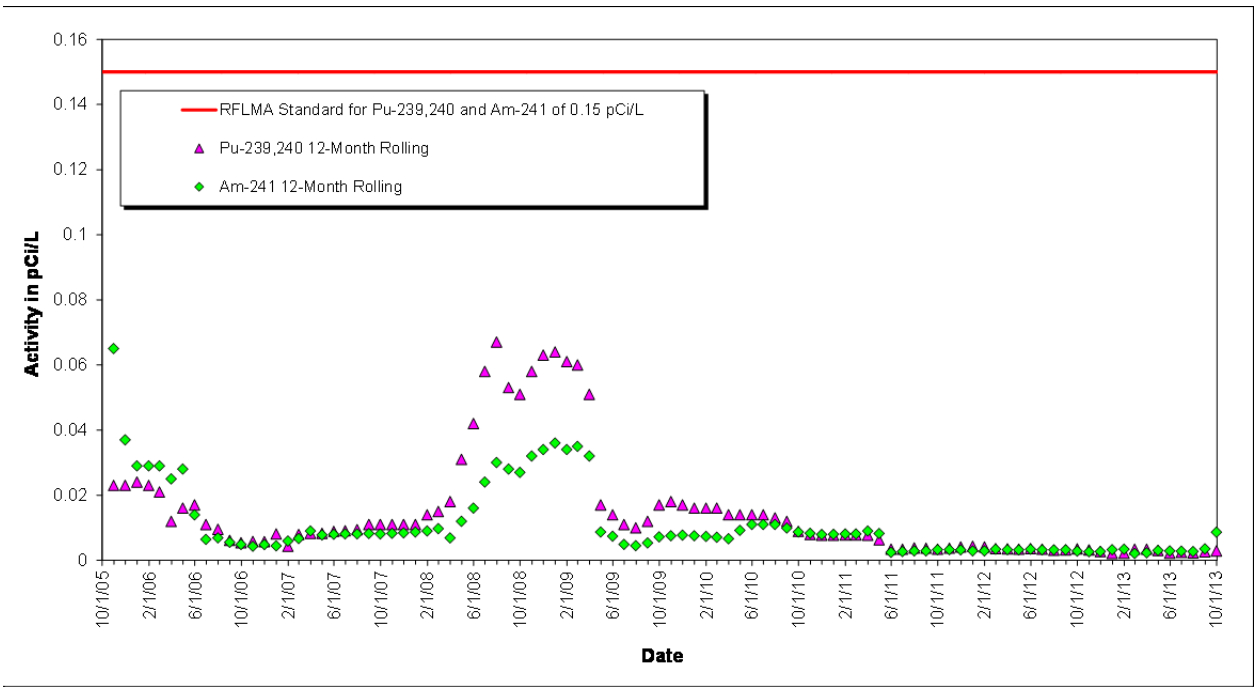
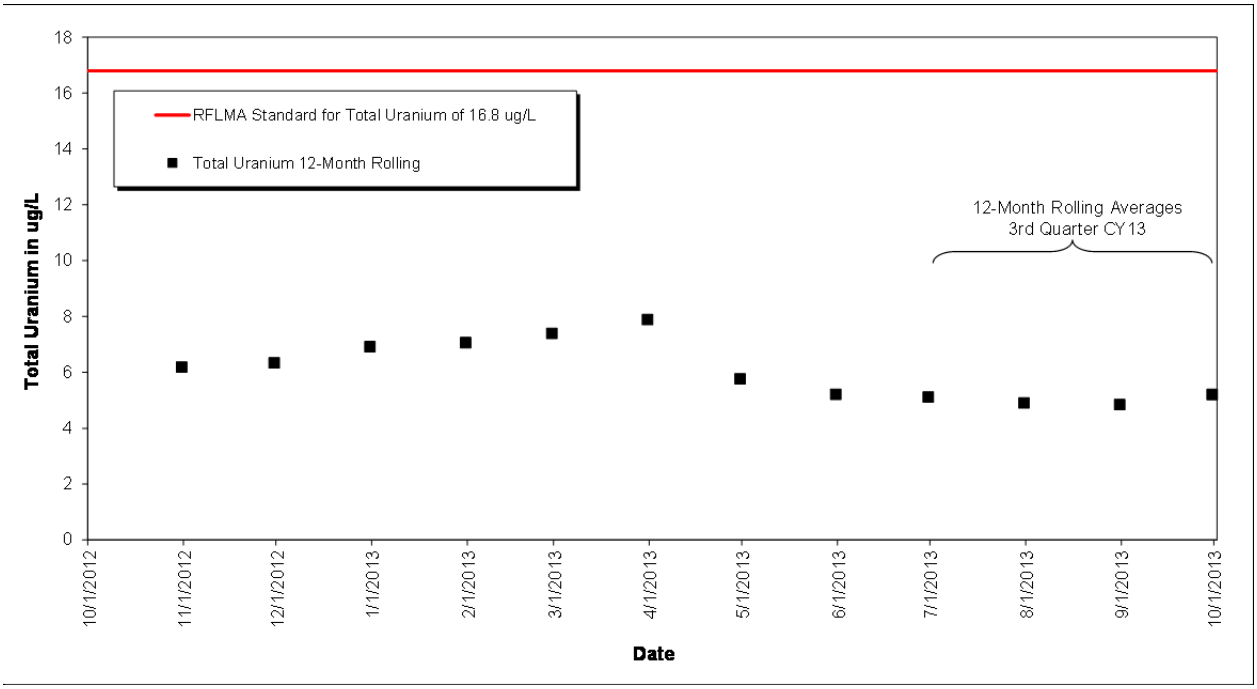
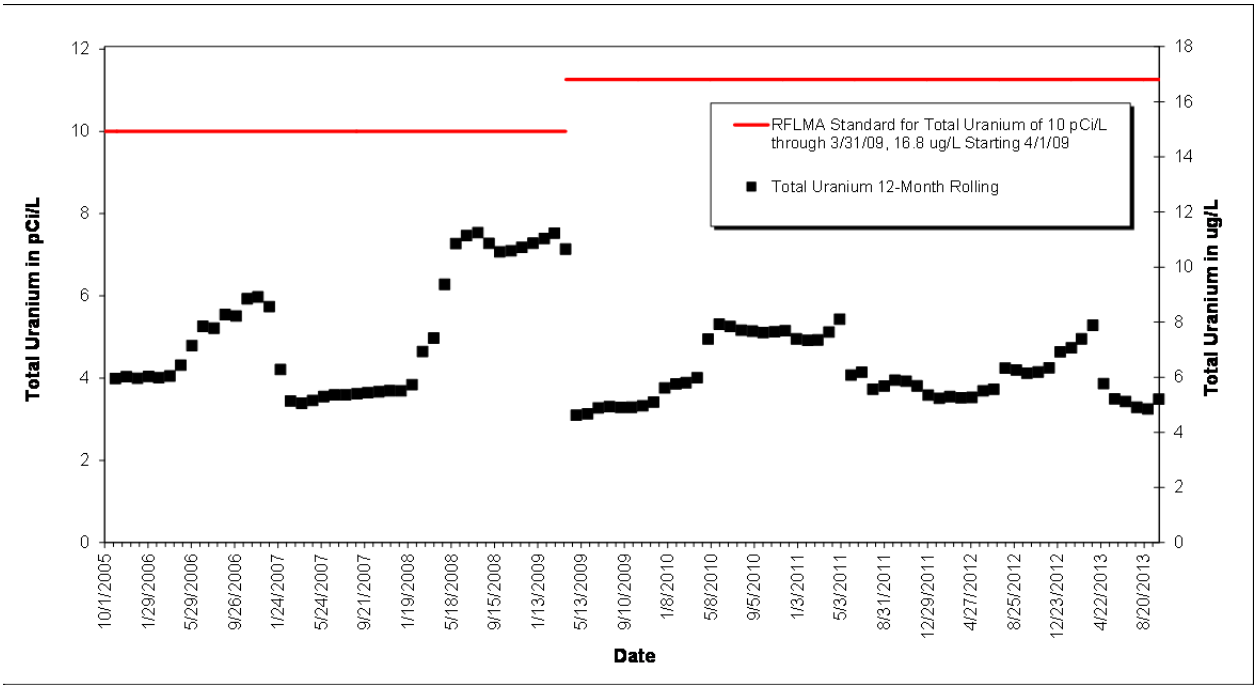


Figure 37. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW093: Postclosure Period Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 38. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at SW093: Year Ending Third Quarter CY 2013



ug/L = µg/L = micrograms per liter

Figure 39. Volume-Weighted 12-Month Rolling Average Total Uranium Concentrations at SW093: Postclosure Period Ending Third Quarter CY 2013

3.1.4 AOC Wells and Surface Water Location SW018

The AOC wells and SW018 were not scheduled for RFLMA monitoring in the third quarter of CY 2013.

3.1.5 Sentinel Wells

The Sentinel wells were not scheduled for RFLMA monitoring in the third quarter of CY 2013.

3.1.6 Evaluation Wells

The Evaluation wells were not scheduled for RFLMA monitoring in the third quarter of CY 2013.

3.1.7 PLF Monitoring

All RCRA groundwater monitoring wells at the PLF were sampled during the third quarter of CY 2013. Analytical results (Appendix B) were generally consistent with past samples and will be discussed and statistically evaluated as part of the annual report for CY 2013. Section 3.1.9.4 discusses monitoring the PLFTS.

3.1.8 OLF Monitoring

All RCRA groundwater monitoring wells at the OLF were sampled during the third quarter of CY 2013. Analytical results (Appendix B) were generally consistent with past samples and will be discussed and statistically evaluated as part of the annual report for CY 2013.

During the third quarter of CY 2013, when routine surface water sampling was performed in Woman Creek downstream of the OLF (GS59), all analytical results were less than the applicable surface water standards.

3.1.9 Groundwater Treatment System Monitoring

As described in Section 2.2, contaminated groundwater is intercepted and treated in four areas of the Site. The MSPTS, ETPTS, and SPPTS include a groundwater intercept trench. Groundwater entering the trenches is routed through a drainpipe into one or more treatment cells, where it is treated and then discharged to the subsurface. The PLFTS treats water from the northern and southern components of the Groundwater Intercept System and flow from the PLF seep.

3.1.9.1 Mound Site Plume Treatment System

MSPTS monitoring locations were not scheduled for RFLMA sampling in the third quarter of CY 2013. Non-RFLMA samples were collected to support testing of the recently upgraded air stripper. The associated results (Appendix B) will be discussed in the annual report for 2013.

3.1.9.2 East Trenches Plume Treatment System

ETPTS monitoring locations were not scheduled for RFLMA sampling in the third quarter of CY 2013. Non-RFLMA samples were collected to support testing of the recently upgraded air stripper. The associated results (Appendix B) will be discussed in the annual report for 2013.

3.1.9.3 Solar Ponds Plume Treatment System

SPPTS monitoring locations were not scheduled for RFLMA sampling in the third quarter of CY 2013. Non-RFLMA samples were collected, some to support the Adaptive Management Plan (DOE 2011) and others to support continued testing of treatment components (microcells and pilot-scale lagoons). As stated in Section 2.2.3, both of these testing efforts will continue for some time. The associated results (Appendix B) will be discussed in the annual report for 2013, together with additional information regarding these tests.

3.1.9.4 PLF Treatment System

During collection of the August 15, 2013, sample at the system influent (monitoring location PLFSEEPINF), the flow rate was 1.27 gallons per minute. Breaching of the PLF Dam was completed in June 2012, and since then any PLFTS effluent flows through the remaining wetland area. This flow configuration is now essentially equivalent to the historic open valve configuration.

During the third quarter of CY 2013, routine sampling of the treated effluent exiting the system (monitoring location PLFSYSEFF) showed results for arsenic of 11 µg/L, above the surface water standard of 10 µg/L. According to RFLMA evaluation protocols, this result triggered

monthly sampling for arsenic. The first monthly sample was collected on October 29, 2013. This sample also showed selenium above the standard at 34 µg/L (unvalidated as of this report). A second monthly sample for arsenic was then collected on November 27, 2013. Analytical results for this sample are pending.

All other analyte concentrations were below the RFLMA standards.

3.1.10 Predischarge Monitoring

Predischarge samples are collected prior to opening the valves to initiate a discharge period at Ponds A-4, B-5, and C-2 on North Walnut Creek, South Walnut Creek, and Woman Creek, respectively.

No predischarge samples were collected at Ponds A-4, B-5, or C-2 during the third quarter of CY 2013. All three ponds were operated in a flow-through configuration during the entire quarter.

3.1.11 High-Resolution Isotopic Uranium Analyses

As noted above in the discussion of the reportable condition at surface-water monitoring location GS10, samples are occasionally submitted to a specialized laboratory for high-resolution analysis of uranium isotopes, and for interpretation of the results to estimate natural versus anthropogenic uranium content. Since the 1990s, this support had been obtained from LANL. However, LANL ceased to provide this support and a search for a different laboratory with these capabilities was undertaken. In the second quarter of 2013, a contract was established with LBNL for this support and the first shipment of samples was made. Results were received in late September 2013. Samples and their associated results are summarized below in Table 21.

Table 21. Data Summary for Samples Submitted to LBNL

Sample Location	Sample Type	Sample Date	Total U (µg/L)[a]	Percent Natural	Percent Depleted	Percent Enriched
WALPOC	SW	9/22/2011	7.6	77.39%	22.53%	0.08%
WALPOC	SW	9/27/2011	10.2	77.57%	22.36%	0.07%
WALPOC	SW	1/3/2012	12.6	79.63%	20.30%	0.07%
WALPOC	SW	2/23/2012	12.2	79.48%	20.44%	0.08%
WALPOC	SW	3/6/2012	14.2	78.35%	21.57%	0.08%
WALPOC	SW	4/13/2012	15.1	77.53%	22.41%	0.06%
WALPOC	SW	4/21/2012	12.6	77.79%	22.15%	0.06%
WALPOC	SW	5/3/2013	11.3	75.95%	23.98%	0.07%
GS10	SW	1/5/2012	49.7	52.59%	47.30%	0.11%
GS10	SW	3/6/2012	38.7	43.29%	56.58%	0.13%
GS10	SW	7/26/2012	4.2	64.33%	35.59%	0.08%
GS10	SW	4/29/2013	36.5	59.07%	40.84%	0.09%
79102	GW	5/14/2012	510	-0.50%	100.00%	0.50%

Notes:
[a] Total uranium data are from contract laboratory; balance of data are from LBNL.
GW = groundwater
SW = surface water

The annual report for 2013 will include additional discussion of these data.

4.0 Adverse Biological Conditions

No evidence of adverse biological conditions (e.g., unexpected mortality or morbidity) was observed during monitoring and maintenance activities in the third quarter of CY 2013.

5.0 Ecological Monitoring

During the third quarter of CY 2013, Preble's meadow jumping mouse (PMJM) mitigation monitoring and wetland mitigation monitoring were conducted. The PMJM monitoring data will be summarized and delivered to U.S. Fish and Wildlife Service (USFWS) in the 2013 Preble's Meadow Jumping Mouse Mitigation Monitoring Report for Biological Opinions at the Rocky Flats Site. This report was due to USFWS on December 1, 2013. The wetland monitoring data will be summarized and delivered to EPA in the 2013 Rocky Flats Site Annual Wetland Mitigation Monitoring Report, due on March 1, 2014. A brief summary of the information from both reports will be included in the annual report for CY 2013. Revegetation monitoring was conducted at several monitoring locations throughout the COU to evaluate the status of the revegetation parcels. These data will be summarized in the annual report for CY 2013. Other ecological monitoring conducted during the third quarter included weed mapping, prairie dog and nest box surveys, forb nursery monitoring, and photopoint monitoring. The shrubs planted last spring as a habitat enhancement project continued to be irrigated until early September. Mowing and clipping of flower stalks was conducted to help reduce seed set for common mullein and Scotch thistle. Approximately 62 acres were treated with herbicides to help control various noxious weed species during the third quarter.

6.0 References

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DOE, EPA, and CDPHE (U.S. Department of Energy, U.S. Environmental Protection Agency, and Colorado Department of Public Health and Environment), 2006. *Corrective Action Decision/Record of Decision for Rocky Flats Plant (USDOE) Peripheral Operable Unit and Central Operable Unit*, EPA/541/R-06/197, September 29.

DOE, EPA, and CDPHE (U.S. Department of Energy, U.S. Environmental Protection Agency, and Colorado Department of Public Health and Environment), 2011. *Corrective Action Decision/Record of Decision Amendment for Rocky Flats Plant (USDOE) Central Operable Unit,* U.S. Department of Energy, U.S. Environmental Protection Agency, and Colorado Department of Public Health and Environment, September 21.

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Appendix A

Landfill Inspection Forms and Survey Data

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ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: J. McLaughlin DATE: 7/27/13 TIME: 1000 REVIEWED BY: Chase Squyd

TEMPERATURE: 88°F WEATHER CONDITIONS: Pt. Cloudy REVIEW DATE: 7-29-13

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None. Note - Inspection was completed due to the Rocky Flats Site receiving a precipitation event in excess of 1".

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

No vegetation inspection is required per M+M Plan.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No		
DIVERSION BERM 4		☐ Yes ☐ No	JAW	
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

None.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	Good condition / No sediment
DIVERSION BERM OUTFALL 2	End of berm has been eroded due to high flows
DIVERSION BERM OUTFALL 3	Good condition / No sediment
DIVERSION BERM OUTFALL 4	Good condition / No sediment
DIVERSION BERM OUTFALL 5	Good condition / No sediment
DIVERSION BERM OUTFALL 6	Berm outfall has been eroded due to high flows
DIVERSION BERM OUTFALL 7	Good condition / No sediment
WEST PERIMETER CHANNEL OUTFALL	Good condition / No sediment
EAST PERIMETER CHANNEL OUTFALL	Good condition / No sediment
FRENCH DRAIN OUTFALL (SID)	Good condition / No sediment

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

The outfalls for Berms 2 + 6 need to be repaired.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☑ No	COMMENT: —
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☑ No	COMMENT: —
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☑ No	COMMENT: —
NORTH OF WOMAN CREEK	☐ Yes	☑ No	COMMENT: —

MAINTENANCE REQUIRED

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT: –
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☒ No	COMMENT: –
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT: –
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT: –

OTHER DEFICIENCIES / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
Berm 2 + 6 outfalls need repaired	7/27/13	Remove TRM and regrade outfall - Re-install TRM	7/31/13	

INSPECTOR SIGNATURE: [signature] DATE: 7/27/13

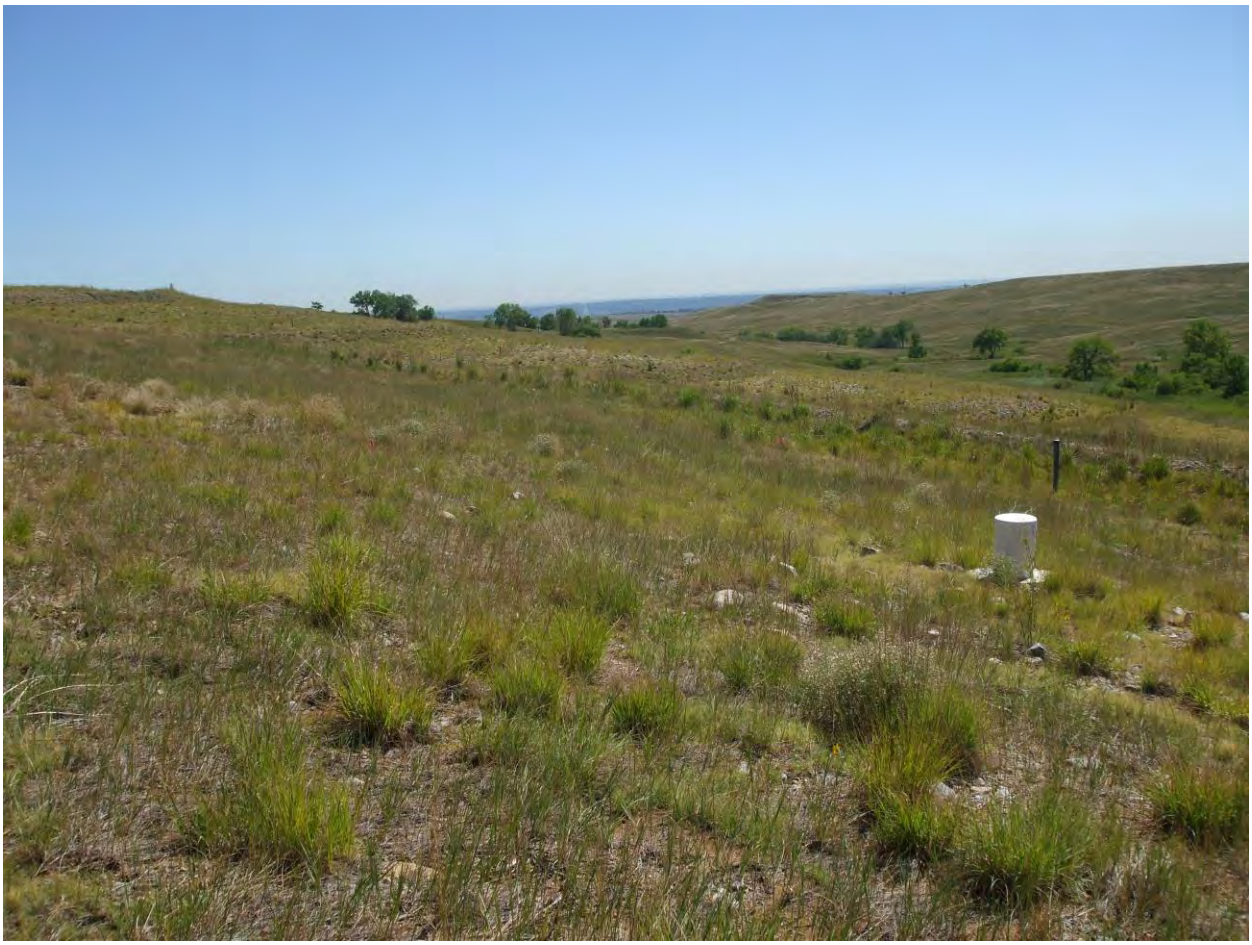
REVIEWER SIGNATURE: [signature] DATE: 7-29-13

Original Landfill July 2013 Monthly Inspection—Attachment 1

The monthly inspection of the OLF was completed on July 27. The Rocky Flats Site received 1.56 inches of precipitation during the month of July. This inspection was completed following a precipitation event of approximately 1.0 inch on July 26.

Berms and channels remain in good condition. The berm outfalls for Berm's 2 and 6 were noted as requiring some maintenance as the most recent precipitation event caused some erosion damage to those outfalls. Vegetation on the landfill cover remains in good condition. No new cracks, depressions, or slumps were noted on the landfill cover during the July inspection.

OLF Cover



OLF Cover Facing East

Berm 1

Seeps

All of the seep locations were saturated at the time of this inspection except Seep 1. None of the seep locations showed any surface flow except Seep 8 which was flowing at approximately 2 - 3 gpm. Vegetation in the seep locations is well established.

Seep 4 Area

Seep 6 Area

East Perimeter Channel Slump

The small slump that was observed on the eastern slope of the EPC toward the top of the channel remains unchanged. The wooden stakes that were installed around the perimeter of the slumping area have not moved. No cracks are apparent. We will continue to monitor the slumping area for any changes during routine and nonroutine inspections of the OLF.

EPC Slump Area

OLF Cover Survey

The OLF Topographical Cover Survey was completed in early May. The survey data was evaluated by a Geo-technical Engineer and recommendations for maintenance on the OLF were submitted to Stoller on July 29. The Geo-technical Engineer determined that approximately 1100 feet of berm on the OLF needs to have additional RF Alluvium added to the tops of the berms to get them to the required heights as required in the OLF Monitoring and Maintenance Plan. A project to adjust the berm heights will be completed in early September 2013.

Maintenance

Maintenance to the outfalls of Berms 2 and 6 was completed on July 31. The erosion matting was removed or peeled back and Rocky Flats Alluvium was added to the eroded areas of the berm outfalls. The placed material was then compacted and erosion matting was re-installed.

Berm 2 Eroded Outfall

Repairing Berm 2 Outfall

Repaired Berm 2 Outfall with Erosion Matting Installed

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ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: J. McLaughlin DATE: 8/22/13 TIME: 1100 REVIEWED BY: [illegible]

TEMPERATURE: 78°F WEATHER CONDITIONS: Cloudy REVIEW DATE: 8-26-13

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	–

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None. Seep information is included in Attachment 1

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	—

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

No vegetation inspection is required

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No		
DIVERSION BERM 4		☐ Yes ☐ No		
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6	JRW	☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

None.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	Poor condition / outfall has eroded some
DIVERSION BERM OUTFALL 2	" "
DIVERSION BERM OUTFALL 3	" "
DIVERSION BERM OUTFALL 4	" "
DIVERSION BERM OUTFALL 5	" "
DIVERSION BERM OUTFALL 6	" "
DIVERSION BERM OUTFALL 7	Good condition / Minimal sediment
WEST PERIMETER CHANNEL OUTFALL	Good condition / No sediment
EAST PERIMETER CHANNEL OUTFALL	" "
FRENCH DRAIN OUTFALL (SID)	" "

OTHER DEFICIENCIES?

None.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Berm 1-6 outfalls require erosion matting to be removed and have the outfalls regraded - See Attachment 1

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☒ No	COMMENT: —
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT: —
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT: —
NORTH OF WOMAN CREEK	☐ Yes	☒ No	COMMENT: —

MAINTENANCE REQUIRED

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☑ No	COMMENT: –
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☑ No	COMMENT: –
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☑ No	COMMENT: –
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☑ No	COMMENT: –

OTHER DEFICIENCIES / PHOTO LOG

None.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
Berm 1-6 outfalls need repaired	8/22/13	Re-grade outfalls + add TRM matting	*project completed	scheduled to be in September

INSPECTOR SIGNATURE: [signature] DATE: 8/22/13

REVIEWER SIGNATURE: Gaye Smith DATE: 8/26/13

Original Landfill August 2013 Monthly Inspection—Attachment 1

The monthly inspection of the OLF was completed on August 22. The Rocky Flats Site received 1.80 inches of precipitation during the month of August. This inspection was completed following a precipitation event of approximately 1.2 inches on August 21.

Berms and channels remain in good condition. The berm outfalls for Berm's 1, 2, 3, 4, 5, and 6 were noted as requiring some maintenance as the most recent precipitation event caused some erosion damage to those outfalls. Vegetation on the landfill cover remains in good condition. No new cracks, depressions, or slumps were noted on the landfill cover during the August inspection.

OLF Cover

OLF Cover Facing East

Berm 1

Seeps

All of the seep locations were saturated at the time of this inspection except Seep 1. Seeps 4 and 7 showed some surface expression and Seep 8 was flowing at approximately 2-3 gpm. Vegetation in the seep locations is well established.

Seep 4 Area

Seep 7 Area

East Perimeter Channel Slump

The small slump that was observed on the eastern slope of the EPC toward the top of the channel remains unchanged. The wooden stakes that were installed around the perimeter of the slumping area have not moved. No cracks are apparent. We will continue to monitor the slumping area for any changes during routine and nonroutine inspections of the OLF.

EPC Slump Area

Maintenance

The outfalls of Berms 1, 2, 3, 4, 5, and 6 will require some maintenance due to erosion damage that was caused by the precipitation event on August 21. The maintenance will be completed by a subcontractor using heavy equipment. The maintenance project is scheduled to be completed in late September at the same time that the berm height adjustments are completed.

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ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: Kurt Franzen / Jody Nelson DATE: 9/16/13 TIME: 13:30 REVIEWED BY: Joe Smith

TEMPERATURE: 78° WEATHER CONDITIONS: Partly Cloudy / light wind REVIEW DATE: 10-1-13

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
COVER – EAST	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☑ Yes ☐ No	
BUTTRESS FILL	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 1	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 2	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 3	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 4	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☑ Yes ☐ No	
DIVERSION BERM 5	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 6	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
DIVERSION BERM 7	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	

Settlement Plates – Inspect integrity. Intact? ☑ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

See: 'Attachment #1'

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☑ No	☑ Yes ☐ No	☐ Yes ☑ No	
COVER – EAST	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	- Slump areas, rework - TRM separation due to slump
COVER SEEPS (IF PRESENT)	☐ Yes ☑ No	☑ Yes ☐ No	☐ Yes ☑ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

See: 'Attachment #1'

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	
COVER – EAST	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	
BUTTRESS FILL	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

See: Attachment #1

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No		
DIVERSION BERM 4		☐ Yes ☐ No		
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 2	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 3	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 4	☐ Yes ☑ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 5	☐ Yes ☑ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 6	☐ Yes ☑ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
DIVERSION BERM 7	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
TEMPORARY CHECK DAMS*	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
WEST PERIMETER CHANNEL	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☑ Yes ~~☐ No~~
EAST PERIMETER CHANNEL	☐ Yes ☑ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

See: Attachment 1

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	
DIVERSION BERM OUTFALL 2	Erosion evident w/sediment deposited in WPC.
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	
WEST PERIMETER CHANNEL OUTFALL	
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

See: 'Attachment #1'

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☑ No	COMMENT:
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☑ No	COMMENT:
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☑ No	COMMENT:
NORTH OF WOMAN CREEK	☐ Yes	☑ No	COMMENT:

MAINTENANCE REQUIRED

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☑ No	COMMENT:
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☑ No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☑ No	COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☑ No	COMMENT:

OTHER DEFICIENCIES / PHOTO LOG

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
East soil cover - cracks due to large depression.	9/16/13	Repair/fill cracks with a skid steer + by hand	9/19/13	
Large depression through Cover, Berms 4, 5 + 6.	9/16/13			
Berm 4 portion of depression created a ponding area.	9/16/13	Install 4" drain tile to allow ponding area to drain	10/3/13	
Diversion Ditch #2 Outfall erosion.	9/16/13			
West Perimeter Channel sediment deposit from #2 outfall erosion.	9/16/13			
Berm #1 ~100' surface crack.	9/16/13	Repair/fill cracks with a skid steer + by hand	9/19/13	

INSPECTOR SIGNATURE: _____ DATE: 9/16/13

REVIEWER SIGNATURE: Gary Smith DATE: 10-1-13

OLF September Monthly Inspection – Attachment 1

An inspection of the OLF was completed on September 16, 2013 following a heavy precipitation event (totaling between 7 and 9 inches) that was received at the Rocky Flats Site over the last week. During the inspection a large depression approximately 1-3 feet in depth and 300 feet in length was identified extending from above the top of the East Perimeter Channel west/southwest through Berms 4, 5, and 6. The upper portion had large cracks within the depression while the lower portion above Berm 6 was pushed up approximately 1 foot at the toe. Berm 1 also had a surface crack approximately 100 feet in length and 1 inch wide running along the south, top and north face starting from the east extending to the west. Berm outfall locations in the East Perimeter Channel and West Perimeter Channel show signs of erosion beneath the erosion matting with the Berm 2 outfall erosion being the most severe. Eroded soil and rock from the Berm 2 outfall was deposited in the West Perimeter Channel.

Large depression area above EPC near Berm 4 facing west

Portion of large depression crack extending through Berm 4

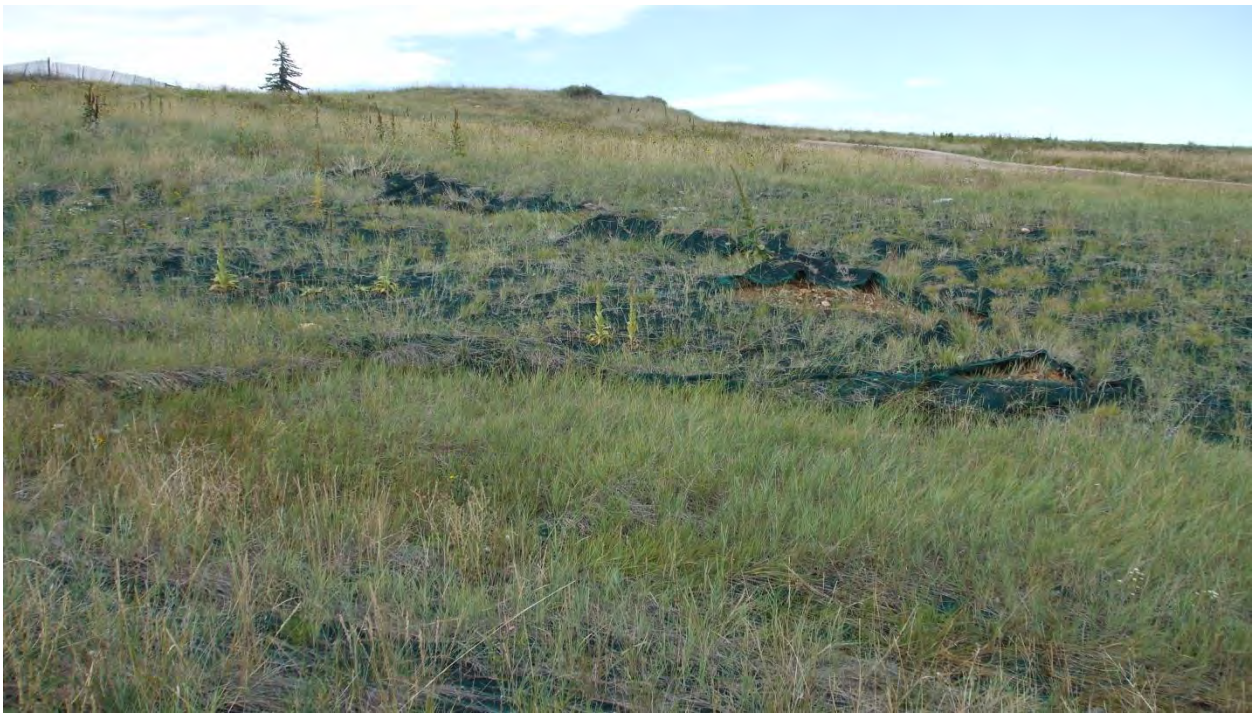
Soil cover crack extending from Berm 4 southwest through Berm 5

OLF soil cover crack extending between Berm 4 and through Berm 5 facing southwest

Soil cover pushed up above Berm 6

Berm 2 channel outfall erosion in West Perimeter Channel

West Perimeter Channel sediment deposit from Berm 2 outfall



East Perimeter Channel slumping area

OLF Maintenance and Repair Projects

A project to re-grade the OLF subsidence location where the crack had formed and prevent further precipitation from entering the landfill cover was completed on September 17. Once the crack was graded and compacted with a tracked skid-steer, erosion matting was installed over the crack to help prevent further erosion from occurring.

A second project to install a drain in the Berm 4 channel subsidence location was completed on October 3. Drainage tile extending from the subsidence and into the East Perimeter Channel was installed in ¾" rock bedding along the Berm 4 channel to ensure proper drainage of precipitation off of the landfill cover.

A larger project to address the instability on the eastern end of the OLF and complete more permanent repairs to the subsidence location is being planned with help from a geo-technical engineer. This project is schedule to be completed in November or December.

OLF Crack Repair Project

Re-grading OLF crack

Erosion matting installed over re-graded crack in Berm 4

OLF Berm 4 Subsidence Drainage Repair

Installing drainage tile in ¾" rock bedding

Rip-rap at influent of drainage tile

PRESENT LANDFILL – MONITORING AND MAINTENANCE PROGRAM

INSPECTION FORM

INSPECTOR: J. McLaughlin DATE: 8/22/13 TIME: 1300 REVIEWED BY: Greg Squill

TEMPERATURE: 78°F WEATHER CONDITIONS: Cloudy REVIEW DATE: 8-26-13

METEOROLOGICAL STATION LOCATION: NREL Wind Site

SUBSIDENCE/CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
TOP OF COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
TOP OF COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER SIDESLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER SIDESLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – CENTRAL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – NORTH SEEP*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–

Settlement Plates and side-slope monitoring points to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter

Integrity intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

There are some small puddles on the cover due to the recent precipitation, but no major ponding issues were observed.

* AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	EVIDENCE OF SEEPS?	OTHER (DESCRIBE BELOW)
COVER SIDESLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER SIDESLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
PERIMETER CHANNEL OUTER SLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
PERIMETER CHANNEL OUTER SLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – CENTRAL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – NORTH SEEP*	☐ Yes ☒ No	☐ Yes ☒ No	☒ Yes ☐ No	–

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

North seep was saturated at the time of this inspection.

* AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
TOP OF COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
TOP OF COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER SIDESLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
COVER SIDESLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
EAST FACE SLOPE – CENTRAL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	–
	VENT CAPS IN PLACE & SECURE?	**STANDPIPES IN GOOD CONDITION?**	**BIRDS OR INSECTS IN VENT CAPS?**	
COVER – BAROMETRIC VENTS	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☒ No	–

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None.

No vegetation inspection is required.

VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	OTHER (DESCRIBE BELOW)
TOP OF COVER – WEST		☐ Yes ☐ No	
TOP OF COVER – EAST		☐ Yes ☐ No	
EAST FACE SLOPE – NORTH		☐ Yes ☐ No	
EAST FACE SLOPE – SOUTH		☐ Yes ☐ No	
EAST FACE SLOPE – CENTRAL		☐ Yes ☐ No	
COVER SIDESLOPE – NORTH		☐ Yes ☐ No	
COVER SIDESLOPE – SOUTH		☐ Yes ☐ No	
VEGETATION-LINED PERIMETER CHANNEL – NORTH		☐ Yes ☐ No	
VEGETATION-LINED PERIMETER CHANNEL – SOUTH		☐ Yes ☐ No	

* Unwanted vegetation includes weeds and deep-rooting trees.

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

SEEP TREATMENT SYSTEM

REGION	EVIDENCE OF PLUGGING, OBSTRUCTIONS, OR EXCESS DEBRIS?	EVIDENCE OF CRACKS OR DETERIORATION?	OTHER (DESCRIBE BELOW)
GWIS INLET PIPES	☐ Yes ☒ No	☐ Yes ☒ No	—
STRIP DRAIN INLET PIPE	☐ Yes ☒ No	☐ Yes ☒ No	—
NORTH MANHOLE OUTLET PIPE	☐ Yes ☒ No	☐ Yes ☒ No	—
SOUTH MANHOLE OUTLET PIPE	☐ Yes ☒ No	☐ Yes ☒ No	—
TREATMENT UNIT	☐ Yes ☒ No	☐ Yes ☒ No	—
TREATMENT UNIT OUTLET PIPE	☐ Yes ☒ No	☐ Yes ☒ No	—
NORTH MANHOLE	☐ Yes ☒ No	☐ Yes ☒ No	—
SOUTH MANHOLE	☐ Yes ☒ No	☐ Yes ☒ No	—
TREATMENT UNIT GRATING	NA	☐ Yes ☒ No	—

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None.

STORMWATER MANAGEMENT STRUCTURES

CHANNELS/LINING

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION, HOLES, RIPS, OR SEPARATION?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
VEGETATION-LINED PERIMETER CHANNEL – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
VEGETATION-LINED PERIMETER CHANNEL – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
RIPRAP-LINED PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
C350-LINED EAST FACE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST FACE RIPRAP CHANNEL – NORTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST FACE RIPRAP CHANNEL – SOUTH	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

OTHER DEFICIENCIES?

None.

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None.

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION/SEDIMENT DEPTH
DIVERSION BERM OUTFALL – NORTH	Good condition / No sediment
DIVERSION BERM OUTFALL – SOUTH	↓
CULVERT 1 OUTFALL	
CULVERT 2 OUTFALL	
SOUTHWEST CULVERT OUTFALL	

CULVERTS

CHECK EACH STRUCTURE FOR BLOCKAGE, SURROUNDING CONDITIONS, BREACHING, SEDIMENT BUILD-UP, AND INLET/OUTLET CONDITIONS.

STRUCTURE	CONDITION
CULVERT 1	Good condition / No sediment
CULVERT 2	↓
SOUTHWEST CULVERT	

MAINTENANCE REQUIRED/PHOTO LOG

None.

"RUN-ON" EROSION CONTROL

AREA	ADVERSELY AFFECTING PLF?		
RUN-ON INTO PERIMETER CHANNEL – NORTH	☐ Yes	☒ No	COMMENT: —
RUN-ON INTO PERIMETER CHANNEL – SOUTH	☐ Yes	☒ No	COMMENT: —
NATURAL DRAINAGE FED BY CULVERT 1	☐ Yes	☒ No	COMMENT: —
NATURAL DRAINAGE FED BY NORTHEAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT: —
NATURAL DRAINAGE FED BY RIPRAP	☐ Yes	☒ No	COMMENT: —

MAINTENANCE REQUIRED/PHOTO LOG

None.

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT: —
EVIDENCE OF CONSTRUCTION OF ROADS OR TRAILS ON COVER OR BUILDINGS?	☐ Yes	☒ No	COMMENT: —
EVIDENCE OF UNAUTHORIZED ENTRY?	☐ Yes	☒ No	COMMENT: —
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT: —
DISRUPTION OR DAMAGE OF SEEP TREATMENT SYSTEM?	☐ Yes	☒ No	COMMENT: —
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT: —

OTHER DEFICIENCIES/PHOTO LOG

None.

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS

INSPECTOR SIGNATURE: [illegible] DATE: 8/22/13

REVIEWER SIGNATURE: [illegible] DATE: 8-26-13

Rocky Flats Site
Original Landfill - Settlement Plates Monitoring
Quarterly Survey September 25, 2013 Comparison to Previous June 24, 2013

09-25-13 OBSERVATIONS					DELTA	DELTA	DELTA	PREVIOUS 06-24-13 OBSERVATIONS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	NORTHING	EASTING	ELEVATION	POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
62651	747913.68	2082233.09	6005.94	N RIM PIPE AA	-0.01	0.01	-0.01	62560	747913.66	2082233.09	6005.94	N RIM PIPE AA
62653	747644.88	2081851.22	5975.37	N RIM PIPE BB	-0.01	-0.01	-0.03	62562	747644.88	2081851.21	5975.33	N RIM PIPE BB
62657	747883.29	2081666.05	6019.57	N RIM PIPE CC	0.00	0.02	0.01	62563	747883.29	2081666.06	6019.58	N RIM PIPE CC
62658	747803.41	2081642.36	6006.09	N RIM PIPE DD	0.02	-0.02	0.00	62564	747803.43	2081642.35	6006.09	N RIM PIPE DD
62661	747700.73	2081620.55	5988.52	N RIM PIPE EE	0.02	-0.01	-0.01	62567	747700.76	2081620.53	5988.51	N RIM PIPE EE
62663	747704.29	2081407.02	5997.16	N RIM PIPE FF	0.10	-0.06	0.00	62569	747704.39	2081406.96	5997.15	N RIM PIPE FF
62662	747563.08	2081656.34	5974.16	N RIM PIPE GG	0.01	-0.02	0.00	62568	747563.09	2081656.33	5974.16	N RIM PIPE GG
62665	747741.38	2081226.32	6013.11	N RIM PIPE HH	0.24	-0.11	0.03	62571	747741.62	2081226.20	6013.15	N RIM PIPE HH

DELTAS ARE CALCULATED AS THE DIFFERENCE BETWEEN THE 09-25-13 OBSERVATION AND THE 06-24-13 OBSERVATION

POINTS ARE GRID BASED COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 27, NGVD 29

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Appendix B

Analytical Results for Water Samples—Third Quarter CY 2013

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RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
70193	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
70193	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
70193	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		F
70193	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
70193	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
70193	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F
70193	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
70193	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
70193	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
70193	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
70193	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
70193	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
70193	WL	9/4/2013	13085563	7440-42-8	Boron	0001	19	ug/L	J	F	4.4		F
70193	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
70193	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
70193	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
70193	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.49	ug/L	J*	F	0.45		F
70193	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
70193	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
70193	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
70193	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
70193	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F
70193	WL	9/4/2013	13085563	7440-50-8	Copper	0001	1.7	ug/L	J	F	1.4		UF
70193	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
70193	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
70193	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
70193	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
70193	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
70193	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	1.3	ug/L	U	F	1.3		F
70193	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	9.1	ug/L	J	F	4.9		F
70193	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
70193	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
70193	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		F
70193	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
70193	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
70193	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F
70193	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	0.26	ug/L	J	F	0.05		F
70193	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
70193	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	5.7	ug/L	J	F	4.5		JF
70193	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70193	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70193	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
70393	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.8	ug/L	J	F	0.16		F
70393	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
70393	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
70393	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	2.6	ug/L		F	0.23		F
70393	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
70393	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
70393	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F

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70393	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
70393	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
70393	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
70393	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
70393	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
70393	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
70393	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F
70393	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
70393	WL	9/4/2013	13085563	7440-42-8	Boron	0001	9	ug/L	J	F	4.4		F
70393	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
70393	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
70393	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
70393	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		F
70393	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
70393	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
70393	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
70393	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
70393	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
70393	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F
70393	WL	9/4/2013	13085563	7440-50-8	Copper	0001	2.3	ug/L	J	F	1.4		UF
70393	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
70393	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
70393	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
70393	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
70393	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
70393	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
70393	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	2	ug/L	J	F	1.3		F
70393	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		F
70393	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
70393	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
70393	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	1.8	ug/L		F	0.2		F
70393	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
70393	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
70393	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	7.9	ug/L		F	0.16		F
70393	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	0.056	ug/L	J	F	0.05		F
70393	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
70393	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		F
70393	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70393	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70393	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
70693	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.74	ug/L	J	F	0.16		F
70693	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
70693	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
70693	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	1.6	ug/L		F	0.23		F
70693	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
70693	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
70693	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F
70693	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
70693	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
70693	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
70693	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
70693	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
70693	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
70693	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F

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70693	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
70693	WL	9/4/2013	13085563	7440-42-8	Boron	0001	33	ug/L		F	4.4		F
70693	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
70693	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
70693	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
70693	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		F
70693	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
70693	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
70693	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
70693	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
70693	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
70693	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F
70693	WL	9/4/2013	13085563	7440-50-8	Copper	0001	1.9	ug/L	J	F	1.4		UF
70693	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
70693	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
70693	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
70693	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
70693	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
70693	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
70693	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	1.4	ug/L	J	F	1.3		F
70693	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		F
70693	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
70693	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
70693	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	0.72	ug/L	J	F	0.2		F
70693	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
70693	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
70693	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	2.3	ug/L		F	0.16		F
70693	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	0.05	ug/L	U	F	0.05		F
70693	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
70693	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		F
70693	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70693	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
70693	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
73005	WL	9/5/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ
73005	WL	9/5/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ
73005	WL	9/5/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ
73005	WL	9/5/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ
73005	WL	9/5/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ
73005	WL	9/5/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ
73005	WL	9/5/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ
73005	WL	9/5/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ
73005	WL	9/5/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ
73005	WL	9/5/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ
73005	WL	9/5/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ
73005	WL	9/5/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ
73005	WL	9/5/2013	13085563	7440-42-8	Boron	0001	35	ug/L		F	4.4		FQ
73005	WL	9/5/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ
73005	WL	9/5/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ
73005	WL	9/5/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ
73005	WL	9/5/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		FQ
73005	WL	9/5/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ

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73005	WL	9/5/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ
73005	WL	9/5/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ
73005	WL	9/5/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ
73005	WL	9/5/2013	13085563	7440-47-3	Chromium	0001	1.4	ug/L	J	F	0.66		FQ
73005	WL	9/5/2013	13085563	7440-50-8	Copper	0001	2.8	ug/L	J	F	1.4		UFQ
73005	WL	9/5/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ
73005	WL	9/5/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		FQ
73005	WL	9/5/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ
73005	WL	9/5/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ
73005	WL	9/5/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ
73005	WL	9/5/2013	13085563	7440-02-0	Nickel	0001	1.3	ug/L	U	F	1.3		FQ
73005	WL	9/5/2013	13085563	7782-49-2	Selenium	0001	15	ug/L		F	4.9		FQ
73005	WL	9/5/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ
73005	WL	9/5/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ
73005	WL	9/5/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ
73005	WL	9/5/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ
73005	WL	9/5/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ
73005	WL	9/5/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ
73005	WL	9/5/2013	13085563	7440-61-1	Uranium	0001	35	ug/L		F	0.05		FQ
73005	WL	9/5/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ
73005	WL	9/5/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ
73005	WL	9/5/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
73005	WL	9/5/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
73005	WL	9/5/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ
73105	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ
73105	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ
73105	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ
73105	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ
73105	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ
73105	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ
73105	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ
73105	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ
73105	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ
73105	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ
73105	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ
73105	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ
73105	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ
73105	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ
73105	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ
73105	WL	9/4/2013	13085563	7440-42-8	Boron	0001	130	ug/L		F	4.4		FQ
73105	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ
73105	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ
73105	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ
73105	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		FQ
73105	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ
73105	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ
73105	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ
73105	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ
73105	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ
73105	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ
73105	WL	9/4/2013	13085563	7440-50-8	Copper	0001	3	ug/L	J	F	1.4		UFQ
73105	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ

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73105	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ
73105	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		FQ
73105	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ
73105	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ
73105	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ
73105	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	3.4	ug/L	J	F	1.3		FQ
73105	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		FQ
73105	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ
73105	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ
73105	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ
73105	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ
73105	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ
73105	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ
73105	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	22	ug/L		F	0.05		FQ
73105	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ
73105	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	4.6	ug/L	J	F	4.5		JFQ
73105	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
73105	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
73105	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ
73205	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
73205	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
73205	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		F
73205	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
73205	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
73205	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F
73205	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
73205	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
73205	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
73205	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
73205	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
73205	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
73205	WL	9/4/2013	13085563	7440-42-8	Boron	0001	64	ug/L		F	4.4		F
73205	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
73205	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
73205	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
73205	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.5	ug/L	J*	F	0.45		F
73205	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
73205	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
73205	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
73205	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
73205	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.79	ug/L	J	F	0.66		F
73205	WL	9/4/2013	13085563	7440-50-8	Copper	0001	3.7	ug/L	J	F	1.4		UF
73205	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
73205	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
73205	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
73205	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
73205	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
73205	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	2.8	ug/L	J	F	1.3		F
73205	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	430	ug/L		F	4.9		F

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73205	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
73205	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
73205	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		F
73205	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
73205	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
73205	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F
73205	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	100	ug/L		F	0.05		F
73205	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
73205	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	4.6	ug/L	J	F	4.5		JF
73205	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
73205	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
73205	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
80005	WL	9/5/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	71-55-6	1,1,1-Trichloroethane	N002	0.16	ug/L	U	D	0.16		F
80005	WL	9/5/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
80005	WL	9/5/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N002	0.21	ug/L	U	D	0.21		F
80005	WL	9/5/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
80005	WL	9/5/2013	13085563	79-00-5	1,1,2-Trichloroethane	N002	0.27	ug/L	U	D	0.27		F
80005	WL	9/5/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		F
80005	WL	9/5/2013	13085563	75-35-4	1,1-Dichloroethene	N002	0.23	ug/L	U	D	0.23		F
80005	WL	9/5/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
80005	WL	9/5/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N002	0.21	ug/L	U	D	0.21		F
80005	WL	9/5/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
80005	WL	9/5/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N002	0.47	ug/L	U	D	0.47		F
80005	WL	9/5/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F
80005	WL	9/5/2013	13085563	106-93-4	1,2-Dibromoethane	N002	0.18	ug/L	U	D	0.18		F
80005	WL	9/5/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
80005	WL	9/5/2013	13085563	95-50-1	1,2-Dichlorobenzene	N002	0.15	ug/L	U	D	0.15		F
80005	WL	9/5/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
80005	WL	9/5/2013	13085563	107-06-2	1,2-Dichloroethane	N002	0.13	ug/L	U	D	0.13		F
80005	WL	9/5/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
80005	WL	9/5/2013	13085563	78-87-5	1,2-Dichloropropane	N002	0.18	ug/L	U	D	0.18		F
80005	WL	9/5/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
80005	WL	9/5/2013	13085563	541-73-1	1,3-Dichlorobenzene	N002	0.13	ug/L	U	D	0.13		F
80005	WL	9/5/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	106-46-7	1,4-Dichlorobenzene	N002	0.16	ug/L	U	D	0.16		F
80005	WL	9/5/2013	13085563	105-67-9	2, 4-Dimethylphenol	N001	0.57	ug/L	U	F	0.57		F
80005	WL	9/5/2013	13085563	105-67-9	2, 4-Dimethylphenol	N002	0.56	ug/L	U	D	0.56		F
80005	WL	9/5/2013	13085563	95-95-4	2,4,5-Trichlorophenol	N001	0.44	ug/L	U	F	0.44		F
80005	WL	9/5/2013	13085563	95-95-4	2,4,5-Trichlorophenol	N002	0.43	ug/L	U	D	0.43		F
80005	WL	9/5/2013	13085563	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		F
80005	WL	9/5/2013	13085563	88-06-2	2,4,6-Trichlorophenol	N002	0.28	ug/L	U	D	0.28		F
80005	WL	9/5/2013	13085563	120-83-2	2,4-Dichlorophenol	N001	0.63	ug/L	U	F	0.63		F
80005	WL	9/5/2013	13085563	120-83-2	2,4-Dichlorophenol	N002	0.62	ug/L	U	D	0.62		F
80005	WL	9/5/2013	13085563	51-28-5	2,4-Dinitrophenol	N001	9.9	ug/L	U	F	9.9		F
80005	WL	9/5/2013	13085563	51-28-5	2,4-Dinitrophenol	N002	9.7	ug/L	U	D	9.7		F
80005	WL	9/5/2013	13085563	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		F
80005	WL	9/5/2013	13085563	121-14-2	2,4-Dinitrotoluene	N002	1.6	ug/L	U	D	1.6		F
80005	WL	9/5/2013	13085563	606-20-2	2,6-Dinitrotoluene	N001	1.9	ug/L	U	F	1.9		F
80005	WL	9/5/2013	13085563	606-20-2	2,6-Dinitrotoluene	N002	1.8	ug/L	U	D	1.8		F
80005	WL	9/5/2013	13085563	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		F
80005	WL	9/5/2013	13085563	91-58-7	2-Chloronaphthalene	N002	0.25	ug/L	U	D	0.25		F
80005	WL	9/5/2013	13085563	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		F
80005	WL	9/5/2013	13085563	95-57-8	2-Chlorophenol	N002	1.9	ug/L	U	D	1.9		F

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80005	WL	9/5/2013	13085563	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		F
80005	WL	9/5/2013	13085563	91-94-1	3,3'-Dichlorobenzidine	N002	1.9	ug/L	U	D	1.9		F
80005	WL	9/5/2013	13085563	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.9	ug/L	U	F	3.9		F
80005	WL	9/5/2013	13085563	534-52-1	4,6-Dinitro-2-methyl phenol	N002	3.9	ug/L	U	D	3.9		F
80005	WL	9/5/2013	13085563	59-50-7	4-Chloro-3-methylphenol	N001	2.4	ug/L	U	F	2.4		F
80005	WL	9/5/2013	13085563	59-50-7	4-Chloro-3-methylphenol	N002	2.3	ug/L	U	D	2.3		F
80005	WL	9/5/2013	13085563	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		F
80005	WL	9/5/2013	13085563	100-02-7	4-Nitrophenol	N002	1.2	ug/L	U	D	1.2		F
80005	WL	9/5/2013	13085563	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		F
80005	WL	9/5/2013	13085563	83-32-9	Acenaphthene	N002	0.27	ug/L	U	D	0.27		F
80005	WL	9/5/2013	13085563	120-12-7	Anthracene	N001	0.41	ug/L	U	F	0.41		F
80005	WL	9/5/2013	13085563	120-12-7	Anthracene	N002	0.41	ug/L	U	D	0.41		F
80005	WL	9/5/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
80005	WL	9/5/2013	13085563	7440-38-2	Arsenic	0002	4.4	ug/L	U	D	4.4		F
80005	WL	9/5/2013	13085563	56-55-3	Benz(a)anthracene	N001	0.34	ug/L	U	F	0.34		F
80005	WL	9/5/2013	13085563	56-55-3	Benz(a)anthracene	N002	0.34	ug/L	U	D	0.34		F
80005	WL	9/5/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	71-43-2	Benzene	N002	0.16	ug/L	U	D	0.16		F
80005	WL	9/5/2013	13085563	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		F
80005	WL	9/5/2013	13085563	50-32-8	Benzo(a)pyrene	N002	0.3	ug/L	U	D	0.3		F
80005	WL	9/5/2013	13085563	205-99-2	Benzo(b)fluoranthene	N001	0.52	ug/L	U	F	0.52		F
80005	WL	9/5/2013	13085563	205-99-2	Benzo(b)fluoranthene	N002	0.51	ug/L	U	D	0.51		F
80005	WL	9/5/2013	13085563	191-24-2	Benzo(g,h,i)Perylene	N001	0.49	ug/L	U	F	0.49		F
80005	WL	9/5/2013	13085563	191-24-2	Benzo(g,h,i)Perylene	N002	0.48	ug/L	U	D	0.48		F
80005	WL	9/5/2013	13085563	207-08-9	Benzo(k)fluoranthene	N001	0.45	ug/L	U	F	0.45		F
80005	WL	9/5/2013	13085563	207-08-9	Benzo(k)fluoranthene	N002	0.44	ug/L	U	D	0.44		F
80005	WL	9/5/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
80005	WL	9/5/2013	13085563	7440-41-7	Beryllium	0002	0.47	ug/L	U	D	0.47		F
80005	WL	9/5/2013	13085563	111-44-4	Bis(2-chloroethyl) ether	N001	0.4	ug/L	U	F	0.4		F
80005	WL	9/5/2013	13085563	111-44-4	Bis(2-chloroethyl) ether	N002	0.4	ug/L	U	D	0.4		F
80005	WL	9/5/2013	13085563	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		F
80005	WL	9/5/2013	13085563	108-60-1	Bis(2-chloroisopropyl) ether	N002	0.27	ug/L	U	D	0.27		F
80005	WL	9/5/2013	13085563	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.55	ug/L	U	F	0.55		F
80005	WL	9/5/2013	13085563	117-81-7	Bis(2-ethylhexyl) phthalate	N002	0.54	ug/L	U	D	0.54		F
80005	WL	9/5/2013	13085563	7440-42-8	Boron	0001	44	ug/L		F	4.4		F
80005	WL	9/5/2013	13085563	7440-42-8	Boron	0002	45	ug/L		D	4.4		F
80005	WL	9/5/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
80005	WL	9/5/2013	13085563	75-27-4	Bromodichloromethane	N002	0.17	ug/L	U	D	0.17		F
80005	WL	9/5/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
80005	WL	9/5/2013	13085563	75-25-2	Bromoform	N002	0.19	ug/L	U	D	0.19		F
80005	WL	9/5/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
80005	WL	9/5/2013	13085563	74-83-9	Bromomethane	N002	0.21	ug/L	U	D	0.21		F
80005	WL	9/5/2013	13085563	85-68-7	Butyl benzyl phthalate	N001	0.99	ug/L	U	F	0.99		F
80005	WL	9/5/2013	13085563	85-68-7	Butyl benzyl phthalate	N002	0.97	ug/L	U	D	0.97		F
80005	WL	9/5/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		F
80005	WL	9/5/2013	13085563	7440-43-9	Cadmium	0002	0.45	ug/L	U*	D	0.45		F
80005	WL	9/5/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
80005	WL	9/5/2013	13085563	56-23-5	Carbon tetrachloride	N002	0.19	ug/L	U	D	0.19		F
80005	WL	9/5/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
80005	WL	9/5/2013	13085563	108-90-7	Chlorobenzene	N002	0.17	ug/L	U	D	0.17		F
80005	WL	9/5/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
80005	WL	9/5/2013	13085563	124-48-1	Chlorodibromomethane	N002	0.17	ug/L	U	D	0.17		F
80005	WL	9/5/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	67-66-3	Chloroform	N002	0.16	ug/L	U	D	0.16		F

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80005	WL	9/5/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
80005	WL	9/5/2013	13085563	74-87-3	Chloromethane	N002	0.3	ug/L	U	D	0.3		F
80005	WL	9/5/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F
80005	WL	9/5/2013	13085563	7440-47-3	Chromium	0002	0.66	ug/L	U	D	0.66		F
80005	WL	9/5/2013	13085563	218-01-9	Chrysene	N001	0.53	ug/L	U	F	0.53		F
80005	WL	9/5/2013	13085563	218-01-9	Chrysene	N002	0.52	ug/L	U	D	0.52		F
80005	WL	9/5/2013	13085563	7440-50-8	Copper	0001	2.7	ug/L	J	F	1.4		UF
80005	WL	9/5/2013	13085563	7440-50-8	Copper	0002	2.9	ug/L	J	D	1.4		UF
80005	WL	9/5/2013	13085563	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		F
80005	WL	9/5/2013	13085563	84-74-2	Di-n-butyl phthalate	N002	1.1	ug/L	U	D	1.1		F
80005	WL	9/5/2013	13085563	53-70-3	Dibenz(a,h)anthracene	N001	0.5	ug/L	U	F	0.5		F
80005	WL	9/5/2013	13085563	53-70-3	Dibenz(a,h)anthracene	N002	0.49	ug/L	U	D	0.49		F
80005	WL	9/5/2013	13085563	84-66-2	Diethyl phthalate	N001	0.5	ug/L	J	F	0.37		F
80005	WL	9/5/2013	13085563	84-66-2	Diethyl phthalate	N002	0.74	ug/L	J	D	0.37		F
80005	WL	9/5/2013	13085563	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		F
80005	WL	9/5/2013	13085563	131-11-3	Dimethyl phthalate	N002	0.2	ug/L	U	D	0.2		F
80005	WL	9/5/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	100-41-4	Ethylbenzene	N002	0.16	ug/L	U	D	0.16		F
80005	WL	9/5/2013	13085563	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		F
80005	WL	9/5/2013	13085563	206-44-0	Fluoranthene	N002	0.19	ug/L	U	D	0.19		F
80005	WL	9/5/2013	13085563	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		F
80005	WL	9/5/2013	13085563	86-73-7	Fluorene	N002	0.3	ug/L	U	D	0.3		F
80005	WL	9/5/2013	13085563	118-74-1	Hexachlorobenzene	N001	0.65	ug/L	U	F	0.65		F
80005	WL	9/5/2013	13085563	118-74-1	Hexachlorobenzene	N002	0.64	ug/L	U	D	0.64		F
80005	WL	9/5/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
80005	WL	9/5/2013	13085563	87-68-3	Hexachlorobutadiene	N002	0.36	ug/L	U	D	0.36		F
80005	WL	9/5/2013	13085563	77-47-4	Hexachlorocyclopentadiene	N001	9.9	ug/L	U	F	9.9		F
80005	WL	9/5/2013	13085563	77-47-4	Hexachlorocyclopentadiene	N002	9.7	ug/L	U	D	9.7		F
80005	WL	9/5/2013	13085563	67-72-1	Hexachloroethane	N001	2.1	ug/L	U	F	2.1		F
80005	WL	9/5/2013	13085563	67-72-1	Hexachloroethane	N002	2	ug/L	U	D	2		F
80005	WL	9/5/2013	13085563	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.64	ug/L	U	F	0.64		F
80005	WL	9/5/2013	13085563	193-39-5	Indeno(1,2,3-cd)pyrene	N002	0.63	ug/L	U	D	0.63		F
80005	WL	9/5/2013	13085563	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		F
80005	WL	9/5/2013	13085563	78-59-1	Isophorone	N002	0.2	ug/L	U	D	0.2		F
80005	WL	9/5/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
80005	WL	9/5/2013	13085563	7439-92-1	Lead	0002	2.6	ug/L	U	D	2.6		F
80005	WL	9/5/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
80005	WL	9/5/2013	13085563	7439-97-6	Mercury	0002	0.027	ug/L	U	D	0.027		F
80005	WL	9/5/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
80005	WL	9/5/2013	13085563	75-09-2	Methylene chloride	N002	0.36	ug/L	JB	D	0.32		UF
80005	WL	9/5/2013	13085563	621-64-7	N-Nitrosodi-n-propylamine	N001	0.34	ug/L	U	F	0.34		F
80005	WL	9/5/2013	13085563	621-64-7	N-Nitrosodi-n-propylamine	N002	0.34	ug/L	U	D	0.34		F
80005	WL	9/5/2013	13085563	86-30-6	N-Nitrosodiphenylamine	N001	0.43	ug/L	U	F	0.43		F
80005	WL	9/5/2013	13085563	86-30-6	N-Nitrosodiphenylamine	N002	0.43	ug/L	U	D	0.43		F
80005	WL	9/5/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
80005	WL	9/5/2013	13085563	91-20-3	Naphthalene	N002	0.22	ug/L	U	D	0.22		F
80005	WL	9/5/2013	13085563	7440-02-0	Nickel	0001	1.4	ug/L	J	F	1.3		F
80005	WL	9/5/2013	13085563	7440-02-0	Nickel	0002	1.4	ug/L	J	D	1.3		F
80005	WL	9/5/2013	13085563	98-95-3	Nitrobenzene	N001	0.8	ug/L	U	F	0.8		F
80005	WL	9/5/2013	13085563	98-95-3	Nitrobenzene	N002	0.78	ug/L	U	D	0.78		F
80005	WL	9/5/2013	13085563	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		F
80005	WL	9/5/2013	13085563	87-86-5	Pentachlorophenol	N002	19	ug/L	U	D	19		F
80005	WL	9/5/2013	13085563	108-95-2	Phenol	N001	2	ug/L	U	F	2		F
80005	WL	9/5/2013	13085563	108-95-2	Phenol	N002	1.9	ug/L	U	D	1.9		F

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80005	WL	9/5/2013	13085563	129-00-0	Pyrene	N001	0.36	ug/L	U	F	0.36		F
80005	WL	9/5/2013	13085563	129-00-0	Pyrene	N002	0.36	ug/L	U	D	0.36		F
80005	WL	9/5/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		F
80005	WL	9/5/2013	13085563	7782-49-2	Selenium	0002	6.3	ug/L	J	D	4.9		F
80005	WL	9/5/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
80005	WL	9/5/2013	13085563	7440-22-4	Silver	0002	0.93	ug/L	U	D	0.93		F
80005	WL	9/5/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
80005	WL	9/5/2013	13085563	100-42-5	Styrene	N002	0.17	ug/L	U	D	0.17		F
80005	WL	9/5/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		F
80005	WL	9/5/2013	13085563	127-18-4	Tetrachloroethene	N002	0.2	ug/L	U	D	0.2		F
80005	WL	9/5/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
80005	WL	9/5/2013	13085563	108-88-3	Toluene	N002	0.17	ug/L	U	D	0.17		F
80005	WL	9/5/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
80005	WL	9/5/2013	13085563	1330-20-7	Total Xylenes	N002	0.19	ug/L	U	D	0.19		F
80005	WL	9/5/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F
80005	WL	9/5/2013	13085563	79-01-6	Trichloroethene	N002	0.16	ug/L	U	D	0.16		F
80005	WL	9/5/2013	13085563	7440-61-1	Uranium	0001	8.4	ug/L		F	0.05		F
80005	WL	9/5/2013	13085563	7440-61-1	Uranium	0002	8.6	ug/L		D	0.05		F
80005	WL	9/5/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
80005	WL	9/5/2013	13085563	75-01-4	Vinyl chloride	N002	0.1	ug/L	U	D	0.1		F
80005	WL	9/5/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		F
80005	WL	9/5/2013	13085563	7440-66-6	Zinc	0002	4.5	ug/L	U	D	4.5		F
80005	WL	9/5/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
80005	WL	9/5/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		F
80005	WL	9/5/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
80005	WL	9/5/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		F
80005	WL	9/5/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
80005	WL	9/5/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N002	0.19	ug/L	U	D	0.19		F
80105	WL	9/5/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F
80105	WL	9/5/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F
80105	WL	9/5/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		F
80105	WL	9/5/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F
80105	WL	9/5/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F
80105	WL	9/5/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F
80105	WL	9/5/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F
80105	WL	9/5/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F
80105	WL	9/5/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F
80105	WL	9/5/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F
80105	WL	9/5/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	105-67-9	2, 4-Dimethylphenol	N001	0.56	ug/L	U	F	0.56		F
80105	WL	9/5/2013	13085563	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		F
80105	WL	9/5/2013	13085563	88-06-2	2,4,6-Trichlorophenol	N001	0.28	ug/L	U	F	0.28		F
80105	WL	9/5/2013	13085563	120-83-2	2,4-Dichlorophenol	N001	0.62	ug/L	U	F	0.62		F
80105	WL	9/5/2013	13085563	51-28-5	2,4-Dinitrophenol	N001	9.6	ug/L	U	F	9.6		F
80105	WL	9/5/2013	13085563	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		F
80105	WL	9/5/2013	13085563	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		F
80105	WL	9/5/2013	13085563	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		F
80105	WL	9/5/2013	13085563	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		F
80105	WL	9/5/2013	13085563	91-94-1	3,3'-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		F
80105	WL	9/5/2013	13085563	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		F
80105	WL	9/5/2013	13085563	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		F
80105	WL	9/5/2013	13085563	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		F
80105	WL	9/5/2013	13085563	83-32-9	Acenaphthene	N001	0.27	ug/L	U	F	0.27		F

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
80105	WL	9/5/2013	13085563	120-12-7	Anthracene	N001	0.4	ug/L	U	F	0.4		F
80105	WL	9/5/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F
80105	WL	9/5/2013	13085563	56-55-3	Benz(a)anthracene	N001	0.34	ug/L	U	F	0.34		F
80105	WL	9/5/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	50-32-8	Benzo(a)pyrene	N001	0.3	ug/L	U	F	0.3		F
80105	WL	9/5/2013	13085563	205-99-2	Benzo(b)fluoranthene	N001	0.51	ug/L	U	F	0.51		F
80105	WL	9/5/2013	13085563	191-24-2	Benzo(g,h,i)Perylene	N001	0.48	ug/L	U	F	0.48		F
80105	WL	9/5/2013	13085563	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		F
80105	WL	9/5/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F
80105	WL	9/5/2013	13085563	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		F
80105	WL	9/5/2013	13085563	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		F
80105	WL	9/5/2013	13085563	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.54	ug/L	U	F	0.54		F
80105	WL	9/5/2013	13085563	7440-42-8	Boron	0001	150	ug/L		F	4.4		F
80105	WL	9/5/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F
80105	WL	9/5/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F
80105	WL	9/5/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F
80105	WL	9/5/2013	13085563	85-68-7	Butyl benzyl phthalate	N001	0.96	ug/L	U	F	0.96		F
80105	WL	9/5/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		F
80105	WL	9/5/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F
80105	WL	9/5/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F
80105	WL	9/5/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F
80105	WL	9/5/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F
80105	WL	9/5/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F
80105	WL	9/5/2013	13085563	218-01-9	Chrysene	N001	0.52	ug/L	U	F	0.52		F
80105	WL	9/5/2013	13085563	7440-50-8	Copper	0001	1.7	ug/L	J	F	1.4		UF
80105	WL	9/5/2013	13085563	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		F
80105	WL	9/5/2013	13085563	53-70-3	Dibenz(a,h)anthracene	N001	0.49	ug/L	U	F	0.49		F
80105	WL	9/5/2013	13085563	84-66-2	Diethyl phthalate	N001	0.66	ug/L	J	F	0.37		F
80105	WL	9/5/2013	13085563	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		F
80105	WL	9/5/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	206-44-0	Fluoranthene	N001	0.19	ug/L	U	F	0.19		F
80105	WL	9/5/2013	13085563	86-73-7	Fluorene	N001	0.3	ug/L	U	F	0.3		F
80105	WL	9/5/2013	13085563	118-74-1	Hexachlorobenzene	N001	0.63	ug/L	U	F	0.63		F
80105	WL	9/5/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F
80105	WL	9/5/2013	13085563	77-47-4	Hexachlorocyclopentadiene	N001	9.6	ug/L	U	F	9.6		F
80105	WL	9/5/2013	13085563	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		F
80105	WL	9/5/2013	13085563	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.63	ug/L	U	F	0.63		F
80105	WL	9/5/2013	13085563	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		F
80105	WL	9/5/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		F
80105	WL	9/5/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F
80105	WL	9/5/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F
80105	WL	9/5/2013	13085563	621-64-7	N-Nitrosodi-n-propylamine	N001	0.34	ug/L	U	F	0.34		F
80105	WL	9/5/2013	13085563	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		F
80105	WL	9/5/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F
80105	WL	9/5/2013	13085563	7440-02-0	Nickel	0001	1.3	ug/L	U	F	1.3		F
80105	WL	9/5/2013	13085563	98-95-3	Nitrobenzene	N001	0.78	ug/L	U	F	0.78		F
80105	WL	9/5/2013	13085563	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		F
80105	WL	9/5/2013	13085563	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		F
80105	WL	9/5/2013	13085563	129-00-0	Pyrene	N001	0.36	ug/L	U	F	0.36		F
80105	WL	9/5/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		F
80105	WL	9/5/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F
80105	WL	9/5/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F
80105	WL	9/5/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		F

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80105	WL	9/5/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F
80105	WL	9/5/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F
80105	WL	9/5/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F
80105	WL	9/5/2013	13085563	7440-61-1	Uranium	0001	9.6	ug/L		F	0.05		F
80105	WL	9/5/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F
80105	WL	9/5/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		F
80105	WL	9/5/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
80105	WL	9/5/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F
80105	WL	9/5/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F
80205	WL	9/5/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ
80205	WL	9/5/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ
80205	WL	9/5/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ
80205	WL	9/5/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ
80205	WL	9/5/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ
80205	WL	9/5/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ
80205	WL	9/5/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ
80205	WL	9/5/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ
80205	WL	9/5/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ
80205	WL	9/5/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ
80205	WL	9/5/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	105-67-9	2, 4-Dimethylphenol	N001	0.59	ug/L	U	F	0.59		FQ
80205	WL	9/5/2013	13085563	95-95-4	2,4,5-Trichlorophenol	N001	0.46	ug/L	U	F	0.46		FQ
80205	WL	9/5/2013	13085563	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		FQ
80205	WL	9/5/2013	13085563	120-83-2	2,4-Dichlorophenol	N001	0.65	ug/L	U	F	0.65		FQ
80205	WL	9/5/2013	13085563	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		FQ
80205	WL	9/5/2013	13085563	121-14-2	2,4-Dinitrotoluene	N001	1.7	ug/L	U	F	1.7		FQ
80205	WL	9/5/2013	13085563	606-20-2	2,6-Dinitrotoluene	N001	1.9	ug/L	U	F	1.9		FQ
80205	WL	9/5/2013	13085563	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		FQ
80205	WL	9/5/2013	13085563	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		FQ
80205	WL	9/5/2013	13085563	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		FQ
80205	WL	9/5/2013	13085563	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4.1	ug/L	U	F	4.1		FQ
80205	WL	9/5/2013	13085563	59-50-7	4-Chloro-3-methylphenol	N001	2.4	ug/L	U	F	2.4		FQ
80205	WL	9/5/2013	13085563	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ
80205	WL	9/5/2013	13085563	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		FQ
80205	WL	9/5/2013	13085563	120-12-7	Anthracene	N001	0.43	ug/L	U	F	0.43		FQ
80205	WL	9/5/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ
80205	WL	9/5/2013	13085563	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		FQ
80205	WL	9/5/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		FQ
80205	WL	9/5/2013	13085563	205-99-2	Benzo(b)fluoranthene	N001	0.54	ug/L	U	F	0.54		FQ
80205	WL	9/5/2013	13085563	191-24-2	Benzo(g,h,i)Perylene	N001	0.51	ug/L	U	F	0.51		FQ
80205	WL	9/5/2013	13085563	207-08-9	Benzo(k)fluoranthene	N001	0.47	ug/L	U	F	0.47		FQ
80205	WL	9/5/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ
80205	WL	9/5/2013	13085563	111-44-4	Bis(2-chloroethyl) ether	N001	0.42	ug/L	U	F	0.42		FQ
80205	WL	9/5/2013	13085563	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		FQ
80205	WL	9/5/2013	13085563	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.57	ug/L	U	F	0.57		FQ
80205	WL	9/5/2013	13085563	7440-42-8	Boron	0001	92	ug/L		F	4.4		FQ
80205	WL	9/5/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ
80205	WL	9/5/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ
80205	WL	9/5/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ
80205	WL	9/5/2013	13085563	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		FQ
80205	WL	9/5/2013	13085563	7440-43-9	Cadmium	0001	0.45	ug/L	U*	F	0.45		FQ
80205	WL	9/5/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ

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80205	WL	9/5/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ
80205	WL	9/5/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ
80205	WL	9/5/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ
80205	WL	9/5/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ
80205	WL	9/5/2013	13085563	218-01-9	Chrysene	N001	0.55	ug/L	U	F	0.55		FQ
80205	WL	9/5/2013	13085563	7440-50-8	Copper	0001	3.8	ug/L	J	F	1.4		UFQ
80205	WL	9/5/2013	13085563	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		FQ
80205	WL	9/5/2013	13085563	53-70-3	Dibenz(a,h)anthracene	N001	0.52	ug/L	U	F	0.52		FQ
80205	WL	9/5/2013	13085563	84-66-2	Diethyl phthalate	N001	1.1	ug/L	J	F	0.38		FQ
80205	WL	9/5/2013	13085563	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		FQ
80205	WL	9/5/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		FQ
80205	WL	9/5/2013	13085563	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		FQ
80205	WL	9/5/2013	13085563	118-74-1	Hexachlorobenzene	N001	0.67	ug/L	U	F	0.67		FQ
80205	WL	9/5/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ
80205	WL	9/5/2013	13085563	77-47-4	Hexachlorocyclopentadiene	N001	10	ug/L	U	F	10		FQ
80205	WL	9/5/2013	13085563	67-72-1	Hexachloroethane	N001	2.1	ug/L	U	F	2.1		FQ
80205	WL	9/5/2013	13085563	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.66	ug/L	U	F	0.66		FQ
80205	WL	9/5/2013	13085563	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		FQ
80205	WL	9/5/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		FQ
80205	WL	9/5/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ
80205	WL	9/5/2013	13085563	75-09-2	Methylene chloride	N001	0.48	ug/L	JB	F	0.32		UFQ
80205	WL	9/5/2013	13085563	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		FQ
80205	WL	9/5/2013	13085563	86-30-6	N-Nitrosodiphenylamine	N001	0.45	ug/L	U	F	0.45		FQ
80205	WL	9/5/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ
80205	WL	9/5/2013	13085563	7440-02-0	Nickel	0001	9	ug/L	J	F	1.3		FQ
80205	WL	9/5/2013	13085563	98-95-3	Nitrobenzene	N001	0.82	ug/L	U	F	0.82		FQ
80205	WL	9/5/2013	13085563	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		FQ
80205	WL	9/5/2013	13085563	108-95-2	Phenol	N001	2	ug/L	U	F	2		FQ
80205	WL	9/5/2013	13085563	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		FQ
80205	WL	9/5/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		FQ
80205	WL	9/5/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ
80205	WL	9/5/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ
80205	WL	9/5/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ
80205	WL	9/5/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ
80205	WL	9/5/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ
80205	WL	9/5/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ
80205	WL	9/5/2013	13085563	7440-61-1	Uranium	0001	64	ug/L		F	0.05		FQ
80205	WL	9/5/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ
80205	WL	9/5/2013	13085563	7440-66-6	Zinc	0001	7.1	ug/L	J	F	4.5		JFQ
80205	WL	9/5/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
80205	WL	9/5/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
80205	WL	9/5/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ
B5 POND	SL	7/23/2013	13075507	7440-61-1	Uranium	N001	5.9	ug/L		F	0.05		
B5 POND	SL	9/3/2013	13095595	7440-61-1	Uranium	N001	4.9	ug/L		F	0.05		
B5 POND	SL	7/3/2013	13075472	7440-61-1	Uranium	N001	8.6	ug/L		F	0.05		
B5 POND	SL	9/19/2013	13095625	7440-61-1	Uranium	N001	6.7	ug/L		F	0.05		
B5 POND	SL	8/9/2013	13085544	7440-61-1	Uranium	N001	5.2	ug/L		F	0.05		
B5 POND	SL	8/23/2013	13085570	7440-61-1	Uranium	N001	4.7	ug/L		F	0.05		
B5INFLOW	SL	8/23/2013	13085570	7440-61-1	Uranium	N001	17	ug/L		F	0.05		
B5INFLOW	SL	9/19/2013	13095625	7440-61-1	Uranium	N001	14	ug/L		F	0.05		
ET EFFLUENT	TS	8/26/2013	13085566	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		

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ET EFFLUENT	TS	7/12/2013	13075486	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	8/26/2013	13085566	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/12/2013	13075486	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	8/26/2013	13085566	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
ET EFFLUENT	TS	7/15/2013	13075491	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
ET EFFLUENT	TS	7/12/2013	13075486	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
ET EFFLUENT	TS	7/15/2013	13075491	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
ET EFFLUENT	TS	7/12/2013	13075486	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
ET EFFLUENT	TS	8/26/2013	13085566	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
ET EFFLUENT	TS	7/15/2013	13075491	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	8/26/2013	13085566	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/12/2013	13075486	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/12/2013	13075486	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
ET EFFLUENT	TS	8/26/2013	13085566	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
ET EFFLUENT	TS	7/15/2013	13075491	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
ET EFFLUENT	TS	7/12/2013	13075486	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	7/15/2013	13075491	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	8/26/2013	13085566	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	7/15/2013	13075491	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	7/12/2013	13075486	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	8/26/2013	13085566	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	7/15/2013	13075491	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	8/26/2013	13085566	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	7/12/2013	13075486	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	7/12/2013	13075486	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	7/15/2013	13075491	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	8/26/2013	13085566	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
ET EFFLUENT	TS	8/26/2013	13085566	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	7/15/2013	13075491	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	7/12/2013	13075486	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
ET EFFLUENT	TS	8/26/2013	13085566	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/12/2013	13075486	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/12/2013	13075486	71-43-2	Benzene	N001	0.33	ug/L	J	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	71-43-2	Benzene	N001	0.41	ug/L	J	F	0.16		
ET EFFLUENT	TS	8/26/2013	13085566	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/12/2013	13075486	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/12/2013	13075486	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/15/2013	13075491	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	8/26/2013	13085566	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	8/26/2013	13085566	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/12/2013	13075486	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/15/2013	13075491	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
ET EFFLUENT	TS	7/15/2013	13075491	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/12/2013	13075486	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	8/26/2013	13085566	56-23-5	Carbon tetrachloride	N001	2.6	ug/L		F	0.19		
ET EFFLUENT	TS	7/15/2013	13075491	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/12/2013	13075486	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/15/2013	13075491	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		

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ET EFFLUENT	TS	7/12/2013	13075486	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	67-66-3	Chloroform	N001	4.1	ug/L		F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	67-66-3	Chloroform	N001	4.3	ug/L		F	0.16		
ET EFFLUENT	TS	7/12/2013	13075486	67-66-3	Chloroform	N001	5.6	ug/L		F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
ET EFFLUENT	TS	7/12/2013	13075486	74-87-3	Chloromethane	N001	0.45	ug/L	J	F	0.3		
ET EFFLUENT	TS	8/26/2013	13085566	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
ET EFFLUENT	TS	7/12/2013	13075486	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	8/26/2013	13085566	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
ET EFFLUENT	TS	7/12/2013	13075486	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
ET EFFLUENT	TS	8/26/2013	13085566	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
ET EFFLUENT	TS	7/15/2013	13075491	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
ET EFFLUENT	TS	7/15/2013	13075491	75-09-2	Methylene chloride	N001	13	ug/L		F	0.32		
ET EFFLUENT	TS	7/12/2013	13075486	75-09-2	Methylene chloride	N001	11	ug/L		F	0.32		
ET EFFLUENT	TS	8/26/2013	13085566	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
ET EFFLUENT	TS	7/12/2013	13075486	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
ET EFFLUENT	TS	8/26/2013	13085566	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
ET EFFLUENT	TS	7/15/2013	13075491	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
ET EFFLUENT	TS	7/12/2013	13075486	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/15/2013	13075491	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	8/26/2013	13085566	127-18-4	Tetrachloroethene	N001	12	ug/L		F	0.2		
ET EFFLUENT	TS	7/15/2013	13075491	127-18-4	Tetrachloroethene	N001	19	ug/L		F	0.2		
ET EFFLUENT	TS	7/12/2013	13075486	127-18-4	Tetrachloroethene	N001	19	ug/L		F	0.2		
ET EFFLUENT	TS	8/26/2013	13085566	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
ET EFFLUENT	TS	7/15/2013	13075491	108-88-3	Toluene	N001	0.19	ug/L	J	F	0.17		
ET EFFLUENT	TS	7/12/2013	13075486	108-88-3	Toluene	N001	0.18	ug/L	J	F	0.17		
ET EFFLUENT	TS	7/15/2013	13075491	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	8/26/2013	13085566	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/12/2013	13075486	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/12/2013	13075486	79-01-6	Trichloroethene	N001	31	ug/L		F	0.16		
ET EFFLUENT	TS	7/15/2013	13075491	79-01-6	Trichloroethene	N001	29	ug/L		F	0.16		J
ET EFFLUENT	TS	8/26/2013	13085566	79-01-6	Trichloroethene	N001	64	ug/L		F	0.64		
ET EFFLUENT	TS	7/12/2013	13075486	75-01-4	Vinyl chloride	N001	0.33	ug/L	J	F	0.1		
ET EFFLUENT	TS	8/26/2013	13085566	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
ET EFFLUENT	TS	7/15/2013	13075491	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
ET EFFLUENT	TS	7/15/2013	13075491	156-59-2	cis-1,2-Dichloroethene	N001	37	ug/L		F	0.15		
ET EFFLUENT	TS	8/26/2013	13085566	156-59-2	cis-1,2-Dichloroethene	N001	5.7	ug/L		F	0.15		
ET EFFLUENT	TS	7/12/2013	13075486	156-59-2	cis-1,2-Dichloroethene	N001	29	ug/L		F	0.15		
ET EFFLUENT	TS	8/26/2013	13085566	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	7/12/2013	13075486	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	7/15/2013	13075491	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
ET EFFLUENT	TS	8/26/2013	13085566	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/12/2013	13075486	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
ET EFFLUENT	TS	7/15/2013	13075491	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
ET INFLUENT	TS	7/12/2013	13075486	71-55-6	1,1,1-Trichloroethane	N001	3.3	ug/L	J	F	3.2		J
ET INFLUENT	TS	7/15/2013	13075491	71-55-6	1,1,1-Trichloroethane	N001	4.2	ug/L	J	F	1.6		
ET INFLUENT	TS	8/26/2013	13085566	71-55-6	1,1,1-Trichloroethane	N002	0.17	ug/L	J	F	0.16		R
ET INFLUENT	TS	7/12/2013	13075486	79-34-5	1,1,2,2-Tetrachloroethane	N001	4.2	ug/L	U	F	4.2		
ET INFLUENT	TS	7/15/2013	13075491	79-34-5	1,1,2,2-Tetrachloroethane	N001	2.1	ug/L	U	F	2.1		
ET INFLUENT	TS	8/26/2013	13085566	79-34-5	1,1,2,2-Tetrachloroethane	N002	0.21	ug/L	U	F	0.21		R
ET INFLUENT	TS	7/15/2013	13075491	79-00-5	1,1,2-Trichloroethane	N001	2.7	ug/L	U	F	2.7		
ET INFLUENT	TS	7/12/2013	13075486	79-00-5	1,1,2-Trichloroethane	N001	5.4	ug/L	U	F	5.4		

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ET INFLUENT	TS	8/26/2013	13085566	79-00-5	1,1,2-Trichloroethane	N002	0.27	ug/L	U	F	0.27		R
ET INFLUENT	TS	7/15/2013	13075491	75-35-4	1,1-Dichloroethene	N001	3.8	ug/L	J	F	2.3		
ET INFLUENT	TS	7/12/2013	13075486	75-35-4	1,1-Dichloroethene	N001	4.6	ug/L	U	F	4.6		J
ET INFLUENT	TS	8/26/2013	13085566	75-35-4	1,1-Dichloroethene	N002	0.23	ug/L	U	F	0.23		R
ET INFLUENT	TS	7/15/2013	13075491	120-82-1	1,2,4-Trichlorobenzene	N001	2.1	ug/L	U	F	2.1		
ET INFLUENT	TS	7/12/2013	13075486	120-82-1	1,2,4-Trichlorobenzene	N001	4.2	ug/L	U	F	4.2		
ET INFLUENT	TS	8/26/2013	13085566	120-82-1	1,2,4-Trichlorobenzene	N002	0.21	ug/L	U	F	0.21		R
ET INFLUENT	TS	7/12/2013	13075486	96-12-8	1,2-Dibromo-3-chloropropane	N001	9.4	ug/L	U	F	9.4		
ET INFLUENT	TS	7/15/2013	13075491	96-12-8	1,2-Dibromo-3-chloropropane	N001	4.7	ug/L	U	F	4.7		
ET INFLUENT	TS	8/26/2013	13085566	96-12-8	1,2-Dibromo-3-chloropropane	N002	0.47	ug/L	U	F	0.47		R
ET INFLUENT	TS	7/12/2013	13075486	106-93-4	1,2-Dibromoethane	N001	3.6	ug/L	U	F	3.6		
ET INFLUENT	TS	7/15/2013	13075491	106-93-4	1,2-Dibromoethane	N001	1.8	ug/L	U	F	1.8		
ET INFLUENT	TS	8/26/2013	13085566	106-93-4	1,2-Dibromoethane	N002	0.18	ug/L	U	F	0.18		R
ET INFLUENT	TS	7/15/2013	13075491	95-50-1	1,2-Dichlorobenzene	N001	1.5	ug/L	U	F	1.5		
ET INFLUENT	TS	7/12/2013	13075486	95-50-1	1,2-Dichlorobenzene	N001	3	ug/L	U	F	3		
ET INFLUENT	TS	8/26/2013	13085566	95-50-1	1,2-Dichlorobenzene	N002	0.15	ug/L	U	F	0.15		R
ET INFLUENT	TS	7/12/2013	13075486	107-06-2	1,2-Dichloroethane	N001	2.6	ug/L	U	F	2.6		
ET INFLUENT	TS	7/15/2013	13075491	107-06-2	1,2-Dichloroethane	N001	1.3	ug/L	U	F	1.3		
ET INFLUENT	TS	8/26/2013	13085566	107-06-2	1,2-Dichloroethane	N002	0.13	ug/L	U	F	0.13		R
ET INFLUENT	TS	7/15/2013	13075491	78-87-5	1,2-Dichloropropane	N001	1.8	ug/L	U	F	1.8		
ET INFLUENT	TS	7/12/2013	13075486	78-87-5	1,2-Dichloropropane	N001	3.6	ug/L	U	F	3.6		
ET INFLUENT	TS	8/26/2013	13085566	78-87-5	1,2-Dichloropropane	N002	0.18	ug/L	U	F	0.18		R
ET INFLUENT	TS	7/15/2013	13075491	541-73-1	1,3-Dichlorobenzene	N001	1.3	ug/L	U	F	1.3		
ET INFLUENT	TS	7/12/2013	13075486	541-73-1	1,3-Dichlorobenzene	N001	2.6	ug/L	U	F	2.6		
ET INFLUENT	TS	8/26/2013	13085566	541-73-1	1,3-Dichlorobenzene	N002	0.13	ug/L	U	F	0.13		R
ET INFLUENT	TS	7/12/2013	13075486	106-46-7	1,4-Dichlorobenzene	N001	3.2	ug/L	U	F	3.2		
ET INFLUENT	TS	7/15/2013	13075491	106-46-7	1,4-Dichlorobenzene	N001	1.6	ug/L	U	F	1.6		
ET INFLUENT	TS	8/26/2013	13085566	106-46-7	1,4-Dichlorobenzene	N002	0.16	ug/L	U	F	0.16		R
ET INFLUENT	TS	7/15/2013	13075491	71-43-2	Benzene	N001	1.6	ug/L	U	F	1.6		
ET INFLUENT	TS	7/12/2013	13075486	71-43-2	Benzene	N001	3.2	ug/L	U	F	3.2		
ET INFLUENT	TS	8/26/2013	13085566	71-43-2	Benzene	N002	0.16	ug/L	U	F	0.16		R
ET INFLUENT	TS	7/12/2013	13075486	75-27-4	Bromodichloromethane	N001	3.4	ug/L	U	F	3.4		
ET INFLUENT	TS	7/15/2013	13075491	75-27-4	Bromodichloromethane	N001	1.7	ug/L	U	F	1.7		
ET INFLUENT	TS	8/26/2013	13085566	75-27-4	Bromodichloromethane	N002	0.17	ug/L	U	F	0.17		R
ET INFLUENT	TS	7/12/2013	13075486	75-25-2	Bromoform	N001	3.8	ug/L	U	F	3.8		
ET INFLUENT	TS	7/15/2013	13075491	75-25-2	Bromoform	N001	1.9	ug/L	U	F	1.9		
ET INFLUENT	TS	8/26/2013	13085566	75-25-2	Bromoform	N002	0.19	ug/L	U	F	0.19		R
ET INFLUENT	TS	7/15/2013	13075491	74-83-9	Bromomethane	N001	2.1	ug/L	U	F	2.1		
ET INFLUENT	TS	7/12/2013	13075486	74-83-9	Bromomethane	N001	4.2	ug/L	U	F	4.2		
ET INFLUENT	TS	8/26/2013	13085566	74-83-9	Bromomethane	N002	0.21	ug/L	U	F	0.21		R
ET INFLUENT	TS	7/12/2013	13075486	56-23-5	Carbon tetrachloride	N001	120	ug/L		F	3.8		J
ET INFLUENT	TS	7/15/2013	13075491	56-23-5	Carbon tetrachloride	N001	170	ug/L		F	1.9		
ET INFLUENT	TS	8/26/2013	13085566	56-23-5	Carbon tetrachloride	N002	6.3	ug/L		F	0.19		R
ET INFLUENT	TS	7/15/2013	13075491	108-90-7	Chlorobenzene	N001	1.7	ug/L	U	F	1.7		
ET INFLUENT	TS	7/12/2013	13075486	108-90-7	Chlorobenzene	N001	3.4	ug/L	U	F	3.4		
ET INFLUENT	TS	8/26/2013	13085566	108-90-7	Chlorobenzene	N002	0.17	ug/L	U	F	0.17		R
ET INFLUENT	TS	7/15/2013	13075491	124-48-1	Chlorodibromomethane	N001	1.7	ug/L	U	F	1.7		
ET INFLUENT	TS	7/12/2013	13075486	124-48-1	Chlorodibromomethane	N001	3.4	ug/L	U	F	3.4		
ET INFLUENT	TS	8/26/2013	13085566	124-48-1	Chlorodibromomethane	N002	0.17	ug/L	U	F	0.17		R
ET INFLUENT	TS	7/15/2013	13075491	67-66-3	Chloroform	N001	120	ug/L		F	1.6		
ET INFLUENT	TS	7/12/2013	13075486	67-66-3	Chloroform	N001	91	ug/L		F	3.2		
ET INFLUENT	TS	8/26/2013	13085566	67-66-3	Chloroform	N002	7.5	ug/L		F	0.16		R
ET INFLUENT	TS	7/12/2013	13075486	74-87-3	Chloromethane	N001	6	ug/L	U	F	6		
ET INFLUENT	TS	7/15/2013	13075491	74-87-3	Chloromethane	N001	3	ug/L	U	F	3		

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ET INFLUENT	TS	8/26/2013	13085566	74-87-3	Chloromethane	N002	0.3	ug/L	U	F	0.3		R
ET INFLUENT	TS	7/15/2013	13075491	100-41-4	Ethylbenzene	N001	1.6	ug/L	U	F	1.6		
ET INFLUENT	TS	7/12/2013	13075486	100-41-4	Ethylbenzene	N001	3.2	ug/L	U	F	3.2		
ET INFLUENT	TS	8/26/2013	13085566	100-41-4	Ethylbenzene	N002	0.16	ug/L	U	F	0.16		R
ET INFLUENT	TS	7/12/2013	13075486	87-68-3	Hexachlorobutadiene	N001	7.2	ug/L	U	F	7.2		
ET INFLUENT	TS	7/15/2013	13075491	87-68-3	Hexachlorobutadiene	N001	3.6	ug/L	U	F	3.6		
ET INFLUENT	TS	8/26/2013	13085566	87-68-3	Hexachlorobutadiene	N002	0.36	ug/L	U	F	0.36		R
ET INFLUENT	TS	7/15/2013	13075491	75-09-2	Methylene chloride	N001	3.2	ug/L	U	F	3.2		
ET INFLUENT	TS	7/12/2013	13075486	75-09-2	Methylene chloride	N001	6.4	ug/L	U	F	6.4		
ET INFLUENT	TS	8/26/2013	13085566	75-09-2	Methylene chloride	N002	0.32	ug/L	U	F	0.32		R
ET INFLUENT	TS	7/12/2013	13075486	91-20-3	Naphthalene	N001	4.4	ug/L	U	F	4.4		
ET INFLUENT	TS	7/15/2013	13075491	91-20-3	Naphthalene	N001	2.2	ug/L	U	F	2.2		
ET INFLUENT	TS	8/26/2013	13085566	91-20-3	Naphthalene	N002	0.22	ug/L	U	F	0.22		R
ET INFLUENT	TS	7/15/2013	13075491	100-42-5	Styrene	N001	1.7	ug/L	U	F	1.7		
ET INFLUENT	TS	7/12/2013	13075486	100-42-5	Styrene	N001	3.4	ug/L	U	F	3.4		
ET INFLUENT	TS	8/26/2013	13085566	100-42-5	Styrene	N002	0.17	ug/L	U	F	0.17		R
ET INFLUENT	TS	7/12/2013	13075486	127-18-4	Tetrachloroethene	N001	290	ug/L		F	4		
ET INFLUENT	TS	7/15/2013	13075491	127-18-4	Tetrachloroethene	N001	320	ug/L		F	2		
ET INFLUENT	TS	8/26/2013	13085566	127-18-4	Tetrachloroethene	N002	17	ug/L		F	0.2		R
ET INFLUENT	TS	7/12/2013	13075486	108-88-3	Toluene	N001	3.4	ug/L	U	F	3.4		J
ET INFLUENT	TS	7/15/2013	13075491	108-88-3	Toluene	N001	1.7	ug/L	U	F	1.7		
ET INFLUENT	TS	8/26/2013	13085566	108-88-3	Toluene	N002	0.17	ug/L	U	F	0.17		R
ET INFLUENT	TS	7/15/2013	13075491	1330-20-7	Total Xylenes	N001	1.9	ug/L	U	F	1.9		
ET INFLUENT	TS	7/12/2013	13075486	1330-20-7	Total Xylenes	N001	3.8	ug/L	U	F	3.8		
ET INFLUENT	TS	8/26/2013	13085566	1330-20-7	Total Xylenes	N002	0.19	ug/L	U	F	0.19		R
ET INFLUENT	TS	7/12/2013	13075486	79-01-6	Trichloroethene	N001	2400	ug/L		F	32		
ET INFLUENT	TS	7/15/2013	13075491	79-01-6	Trichloroethene	N001	3400	ug/L		F	16		
ET INFLUENT	TS	8/26/2013	13085566	79-01-6	Trichloroethene	N002	140	ug/L		F	1.6		R
ET INFLUENT	TS	7/15/2013	13075491	75-01-4	Vinyl chloride	N001	1	ug/L	U	F	1		
ET INFLUENT	TS	7/12/2013	13075486	75-01-4	Vinyl chloride	N001	2	ug/L	U	F	2		
ET INFLUENT	TS	8/26/2013	13085566	75-01-4	Vinyl chloride	N002	0.1	ug/L	U	F	0.1		R
ET INFLUENT	TS	7/15/2013	13075491	156-59-2	cis-1,2-Dichloroethene	N001	47	ug/L		F	1.5		
ET INFLUENT	TS	7/12/2013	13075486	156-59-2	cis-1,2-Dichloroethene	N001	38	ug/L		F	3		
ET INFLUENT	TS	8/26/2013	13085566	156-59-2	cis-1,2-Dichloroethene	N002	3.2	ug/L		F	0.15		R
ET INFLUENT	TS	7/15/2013	13075491	156-60-5	trans-1,2-Dichloroethene	N001	1.5	ug/L	U	F	1.5		
ET INFLUENT	TS	7/12/2013	13075486	156-60-5	trans-1,2-Dichloroethene	N001	3	ug/L	U	F	3		
ET INFLUENT	TS	8/26/2013	13085566	156-60-5	trans-1,2-Dichloroethene	N002	0.15	ug/L	U	F	0.15		R
ET INFLUENT	TS	7/12/2013	13075486	10061-02-6	trans-1,3-dichloropropene	N001	3.8	ug/L	U	F	3.8		
ET INFLUENT	TS	7/15/2013	13075491	10061-02-6	trans-1,3-dichloropropene	N001	1.9	ug/L	U	F	1.9		
ET INFLUENT	TS	8/26/2013	13085566	10061-02-6	trans-1,3-dichloropropene	N002	0.19	ug/L	U	F	0.19		R
FC4750	SL	9/19/2013	13095625	7440-61-1	Uranium	N001	12	ug/L		F	0.05		
FC4750	SL	8/23/2013	13085570	7440-61-1	Uranium	N001	12	ug/L		F	0.05		
FC4750	SL	8/9/2013	13085544	7440-61-1	Uranium	N001	17	ug/L		F	0.05		
FC4750	SL	7/23/2013	13075507	7440-61-1	Uranium	N001	16	ug/L		F	0.05		
FC4750	SL	7/3/2013	13075472	7440-61-1	Uranium	N001	17	ug/L		F	0.05		
FC4988	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.00508	pCi/L	U	F	0.014	0.00879	
FC4988	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.00454	pCi/L	U	F	0.0184	0.00664	
FC4988	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	13.5	ug/L		F	0.067		
FC4991	SL	9/19/2013	13095625	7440-61-1	Uranium	N001	10	ug/L		F	0.05		
FC4991	SL	8/9/2013	13085544	7440-61-1	Uranium	N001	2.3	ug/L		F	0.05		
FC4991	SL	7/23/2013	13075507	7440-61-1	Uranium	N001	3.1	ug/L		F	0.05		
FC4991	SL	7/3/2013	13075472	7440-61-1	Uranium	N001	7.4	ug/L		F	0.05		
FC4991	SL	8/23/2013	13085570	7440-61-1	Uranium	N001	7.7	ug/L		F	0.05		
FC4995	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.0208	pCi/L		F	0.0132	0.0122	J

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FC4995	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.0217	pCi/L		F	0.0147	0.0147	U
FC4995	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	13.9	ug/L		F	0.067		
FC4997	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0136	0.00457	
FC4997	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.00629	pCi/L	U	F	0.0192	0.00757	
FC4997	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	14	ug/L		F	0.067		
FC4EFF	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.00511	pCi/L	U	F	0.0141	0.00748	
FC4EFF	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.00428	pCi/L	U	F	0.0174	0.00839	
FC4EFF	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	14.7	ug/L		F	0.067		
GS03	SL	9/12/2013	13095608	AM-241	Americium-241	N001	0.0319	pCi/L		F	0.0217	0.0173	
GS03	SL	9/14/2013	13095612	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.96	mg/L	B	F	0.019		
GS03	SL	9/12/2013	13095612	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	1.3	mg/L	B	F	0.019		
GS03	SL	9/12/2013	13095608	PU-239,240	Plutonium-239, 240	N001	0.0417	pCi/L		F	0.0156	0.0166	
GS03	SL	9/12/2013	13095608	7440-61-1	Uranium	N001	2.15	ug/L		F	0.067		
GS05	SL	7/1/2013	13075471	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13075471	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
GS05	SL	7/1/2013	13075471	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
GS05	SL	7/1/2013	13075471	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
GS05	SL	7/1/2013	13075471	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
GS05	SL	7/1/2013	13075471	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
GS05	SL	7/1/2013	13075471	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
GS05	SL	7/1/2013	13075471	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
GS05	SL	7/1/2013	13075471	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
GS05	SL	7/1/2013	13075471	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
GS05	SL	7/1/2013	13075471	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
GS05	SL	7/1/2013	13075471	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13095621	7440-38-2	Arsenic	N003	5	ug/L	B	F	5		
GS05	SL	7/1/2013	13075471	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13095621	7440-41-7	Beryllium	N003	1	ug/L	U	F	1		
GS05	SL	7/1/2013	13095621	7440-42-8	Boron	N003	17.3	ug/L	B	F	15		
GS05	SL	7/1/2013	13075471	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
GS05	SL	7/1/2013	13075471	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
GS05	SL	7/1/2013	13075471	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
GS05	SL	7/1/2013	13095621	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		
GS05	SL	7/1/2013	13075471	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
GS05	SL	7/1/2013	13075471	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
GS05	SL	7/1/2013	13075471	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
GS05	SL	7/1/2013	13075471	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13075471	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
GS05	SL	7/1/2013	13095621	7440-47-3	Chromium	N003	2.86	ug/L	B	F	1		
GS05	SL	7/1/2013	13095621	7440-50-8	Copper	0001	3	ug/L	U	F	3		
GS05	SL	7/1/2013	13075471	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13075471	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
GS05	SL	7/1/2013	13095621	7439-92-1	Lead	0001	3.3	ug/L	U	F	3.3		
GS05	SL	7/1/2013	13075471	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		
GS05	SL	7/1/2013	13095621	7439-97-6	Mercury	N003	0.067	ug/L	U	F	0.067		J
GS05	SL	7/1/2013	13075471	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
GS05	SL	7/1/2013	13075471	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
GS05	SL	7/1/2013	13095621	7440-02-0	Nickel	0001	1.5	ug/L	U	F	1.5		
GS05	SL	7/1/2013	13095621	7782-49-2	Selenium	N003	6	ug/L	U	F	6		
GS05	SL	7/1/2013	13095621	7440-22-4	Silver	0001	1	ug/L	U	F	1		
GS05	SL	7/1/2013	13075471	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
GS05	SL	7/1/2013	13075471	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		
GS05	SL	7/1/2013	13075471	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
GS05	SL	7/1/2013	13075471	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		

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GS05	SL	7/1/2013	13075471	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		
GS05	SL	7/1/2013	13095621	7440-61-1	Uranium	N002	1.4	ug/L		F	0.067		
GS05	SL	7/1/2013	13075471	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
GS05	SL	7/1/2013	13095621	7440-66-6	Zinc	0001	5.91	ug/L	B	F	3.3		
GS05	SL	7/1/2013	13075471	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
GS05	SL	7/1/2013	13075471	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
GS05	SL	7/1/2013	13075471	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
GS08	SL	9/14/2013	13095622	AM-241	Americium-241	N001	0.0169	pCi/L	U	F	0.0177	0.0106	
GS08	SL	9/14/2013	13095622	PU-239,240	Plutonium-239, 240	N001	0.00592	pCi/L	U	F	0.0161	0.00919	
GS08	SL	9/14/2013	13095622	7440-61-1	Uranium	N001	4.34	ug/L		F	0.067		
GS10	SL	9/13/2013	13095621	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0242	0.011	
GS10	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.00346	pCi/L	U	F	0.0143	0.00679	
GS10	SL	8/9/2013	13095608	AM-241	Americium-241	N002	0.0413	pCi/L		F	0.0194	0.0173	
GS10	SL	7/3/2013	13085545	AM-241	Americium-241	N002	4.54	pCi/L		F	0.0253	0.561	
GS10	SL	9/13/2013	13095621	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
GS10	SL	7/3/2013	13085545	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		
GS10	SL	8/9/2013	13095608	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		
GS10	SL	8/9/2013	13095608	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
GS10	SL	7/3/2013	13085545	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
GS10	SL	9/13/2013	13095621	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
GS10	SL	9/13/2013	13095621	7440-47-3	Chromium	N001	1	ug/L	U	F	1		
GS10	SL	8/9/2013	13095608	7440-47-3	Chromium	N002	1	ug/L	U	F	1		
GS10	SL	7/3/2013	13085545	7440-47-3	Chromium	N002	7.84	ug/L		F	1		
GS10	SL	9/13/2013	13095621	HARDNESS	Hardness	N001	142	mg/L		F	2		
GS10	SL	7/3/2013	13085545	HARDNESS	Hardness	N002	1050	mg/L		F	5		
GS10	SL	8/9/2013	13095608	HARDNESS	Hardness	N002	176	mg/L		F	2		
GS10	SL	9/13/2013	13095621	PU-239,240	Plutonium-239, 240	N001	0.0123	pCi/L	U	F	0.019	0.0165	
GS10	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.00604	pCi/L	U	F	0.0184	0.00937	
GS10	SL	8/9/2013	13095608	PU-239,240	Plutonium-239, 240	N002	0.0332	pCi/L		F	0.0134	0.0137	
GS10	SL	7/3/2013	13085545	PU-239,240	Plutonium-239, 240	N002	2.82	pCi/L		F	0.018	0.284	
GS10	SL	7/3/2013	13085545	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
GS10	SL	8/9/2013	13095608	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
GS10	SL	9/13/2013	13095621	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
GS10	SL	9/13/2013	13095621	7440-61-1	Uranium	N001	5.55	ug/L		F	0.067		
GS10	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	14.1	ug/L		F	0.067		
GS10	SL	8/9/2013	13095608	7440-61-1	Uranium	N002	5.61	ug/L		F	0.067		
GS10	SL	7/3/2013	13085545	7440-61-1	Uranium	N002	28.8	ug/L		F	0.067		
GS13	SL	7/3/2013	13075472	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.6	mg/L		F	0.019		
GS13	SL	7/23/2013	13075507	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.1	mg/L	B	F	0.019		
GS13	SL	8/23/2013	13085570	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2100	mg/L		F	9.5		
GS13	SL	9/3/2013	13095595	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.13	mg/L		F	0.019		
GS13	SL	9/19/2013	13095625	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	17	mg/L		F	0.038		
GS13	SL	7/23/2013	13095609	7440-61-1	Uranium	N002	4.94	ug/L		F	0.067		
GS59	SL	7/1/2013	13075471	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13075471	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
GS59	SL	7/1/2013	13075471	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
GS59	SL	7/1/2013	13075471	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
GS59	SL	7/1/2013	13075471	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
GS59	SL	7/1/2013	13075471	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
GS59	SL	7/1/2013	13075471	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
GS59	SL	7/1/2013	13075471	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
GS59	SL	7/1/2013	13075471	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
GS59	SL	7/1/2013	13075471	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
GS59	SL	7/1/2013	13075471	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		

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GS59	SL	7/1/2013	13075471	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13095621	7440-38-2	Arsenic	N003	5	ug/L	U	F	5		
GS59	SL	7/1/2013	13075471	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13095621	7440-41-7	Beryllium	N003	1	ug/L	U	F	1		
GS59	SL	7/1/2013	13095621	7440-42-8	Boron	N003	23.5	ug/L	B	F	15		
GS59	SL	7/1/2013	13075471	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
GS59	SL	7/1/2013	13075471	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
GS59	SL	7/1/2013	13075471	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
GS59	SL	7/1/2013	13095621	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		
GS59	SL	7/1/2013	13075471	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
GS59	SL	7/1/2013	13075471	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
GS59	SL	7/1/2013	13075471	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
GS59	SL	7/1/2013	13075471	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13075471	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
GS59	SL	7/1/2013	13095621	7440-47-3	Chromium	N003	2.29	ug/L	B	F	1		
GS59	SL	7/1/2013	13095621	7440-50-8	Copper	0001	4.77	ug/L	B	F	3		
GS59	SL	7/1/2013	13075471	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13075471	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
GS59	SL	7/1/2013	13095621	7439-92-1	Lead	0001	3.3	ug/L	U	F	3.3		
GS59	SL	7/1/2013	13075471	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		
GS59	SL	7/1/2013	13095621	7439-97-6	Mercury	N003	0.067	ug/L	U	F	0.067		J
GS59	SL	7/1/2013	13075471	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
GS59	SL	7/1/2013	13075471	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
GS59	SL	7/1/2013	13095621	7440-02-0	Nickel	0001	1.5	ug/L	U	F	1.5		
GS59	SL	7/1/2013	13095621	7782-49-2	Selenium	N003	6	ug/L	U	F	6		
GS59	SL	7/1/2013	13095621	7440-22-4	Silver	0001	1	ug/L	U	F	1		
GS59	SL	7/1/2013	13075471	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
GS59	SL	7/1/2013	13075471	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		
GS59	SL	7/1/2013	13075471	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
GS59	SL	7/1/2013	13075471	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		
GS59	SL	7/1/2013	13075471	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		
GS59	SL	7/1/2013	13095621	7440-61-1	Uranium	N002	1.4	ug/L		F	0.067		
GS59	SL	7/1/2013	13075471	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
GS59	SL	7/1/2013	13095621	7440-66-6	Zinc	0001	15.8	ug/L	B	F	3.3		
GS59	SL	7/1/2013	13075471	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
GS59	SL	7/1/2013	13075471	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
GS59	SL	7/1/2013	13075471	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
MOUND R1-0	TS	8/26/2013	13085538	71-55-6	1,1,1-Trichloroethane	N001	7.1	ug/L		F	0.16		R
MOUND R1-0	TS	8/26/2013	13085538	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		R
MOUND R1-0	TS	8/26/2013	13085538	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		R
MOUND R1-0	TS	8/26/2013	13085538	75-35-4	1,1-Dichloroethene	N001	1.4	ug/L		F	0.23		R
MOUND R1-0	TS	8/26/2013	13085538	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		R
MOUND R1-0	TS	8/26/2013	13085538	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		R
MOUND R1-0	TS	8/26/2013	13085538	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		R
MOUND R1-0	TS	8/26/2013	13085538	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		R
MOUND R1-0	TS	8/26/2013	13085538	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		R
MOUND R1-0	TS	8/26/2013	13085538	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		R
MOUND R1-0	TS	8/26/2013	13085538	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		R
MOUND R1-0	TS	8/26/2013	13085538	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		R
MOUND R1-0	TS	8/26/2013	13085538	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		R
MOUND R1-0	TS	8/26/2013	13085538	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		R
MOUND R1-0	TS	8/26/2013	13085538	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		R
MOUND R1-0	TS	8/26/2013	13085538	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		R
MOUND R1-0	TS	8/26/2013	13085538	56-23-5	Carbon tetrachloride	N001	3.6	ug/L		F	0.19		R

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MOUND R1-0	TS	8/26/2013	13085538	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		R
MOUND R1-0	TS	8/26/2013	13085538	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		R
MOUND R1-0	TS	8/26/2013	13085538	67-66-3	Chloroform	N001	1.4	ug/L		F	0.16		R
MOUND R1-0	TS	8/26/2013	13085538	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		R
MOUND R1-0	TS	8/26/2013	13085538	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		R
MOUND R1-0	TS	8/26/2013	13085538	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		R
MOUND R1-0	TS	8/26/2013	13085538	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		R
MOUND R1-0	TS	8/26/2013	13085538	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		R
MOUND R1-0	TS	8/26/2013	13085538	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		R
MOUND R1-0	TS	8/26/2013	13085538	127-18-4	Tetrachloroethene	N001	24	ug/L		F	0.2		R
MOUND R1-0	TS	8/26/2013	13085538	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		R
MOUND R1-0	TS	8/26/2013	13085538	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		R
MOUND R1-0	TS	8/26/2013	13085538	79-01-6	Trichloroethene	N001	68	ug/L		F	0.64		R
MOUND R1-0	TS	8/26/2013	13085538	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		R
MOUND R1-0	TS	8/26/2013	13085538	156-59-2	cis-1,2-Dichloroethene	N001	49	ug/L		F	0.15		R
MOUND R1-0	TS	8/26/2013	13085538	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		R
MOUND R1-0	TS	8/26/2013	13085538	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		R
MOUND R2-E	TS	8/26/2013	13085538	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
MOUND R2-E	TS	8/26/2013	13085538	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
MOUND R2-E	TS	8/26/2013	13085538	75-35-4	1,1-Dichloroethene	N001	0.24	ug/L	J	F	0.23		
MOUND R2-E	TS	8/26/2013	13085538	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
MOUND R2-E	TS	8/26/2013	13085538	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
MOUND R2-E	TS	8/26/2013	13085538	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
MOUND R2-E	TS	8/26/2013	13085538	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
MOUND R2-E	TS	8/26/2013	13085538	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
MOUND R2-E	TS	8/26/2013	13085538	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
MOUND R2-E	TS	8/26/2013	13085538	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
MOUND R2-E	TS	8/26/2013	13085538	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
MOUND R2-E	TS	8/26/2013	13085538	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
MOUND R2-E	TS	8/26/2013	13085538	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
MOUND R2-E	TS	8/26/2013	13085538	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
MOUND R2-E	TS	8/26/2013	13085538	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
MOUND R2-E	TS	8/26/2013	13085538	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
MOUND R2-E	TS	8/26/2013	13085538	67-66-3	Chloroform	N001	0.46	ug/L	J	F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
MOUND R2-E	TS	8/26/2013	13085538	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
MOUND R2-E	TS	8/26/2013	13085538	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
MOUND R2-E	TS	8/26/2013	13085538	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
MOUND R2-E	TS	8/26/2013	13085538	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
MOUND R2-E	TS	8/26/2013	13085538	127-18-4	Tetrachloroethene	N001	1.8	ug/L		F	0.2		
MOUND R2-E	TS	8/26/2013	13085538	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
MOUND R2-E	TS	8/26/2013	13085538	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		
MOUND R2-E	TS	8/26/2013	13085538	79-01-6	Trichloroethene	N001	2.2	ug/L		F	0.16		
MOUND R2-E	TS	8/26/2013	13085538	75-01-4	Vinyl chloride	N001	2.8	ug/L		F	0.1		
MOUND R2-E	TS	8/26/2013	13085538	156-59-2	cis-1,2-Dichloroethene	N001	50	ug/L		F	0.15		
MOUND R2-E	TS	8/26/2013	13085538	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
MOUND R2-E	TS	8/26/2013	13085538	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
P416589	WL	9/4/2013	13085563	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ
P416589	WL	9/4/2013	13085563	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ
P416589	WL	9/4/2013	13085563	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ

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P416589	WL	9/4/2013	13085563	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ
P416589	WL	9/4/2013	13085563	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ
P416589	WL	9/4/2013	13085563	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ
P416589	WL	9/4/2013	13085563	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ
P416589	WL	9/4/2013	13085563	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ
P416589	WL	9/4/2013	13085563	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ
P416589	WL	9/4/2013	13085563	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ
P416589	WL	9/4/2013	13085563	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ
P416589	WL	9/4/2013	13085563	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ
P416589	WL	9/4/2013	13085563	105-67-9	2, 4-Dimethylphenol	N001	0.58	ug/L	U	F	0.58		FQ
P416589	WL	9/4/2013	13085563	95-95-4	2,4,5-Trichlorophenol	N001	0.45	ug/L	U	F	0.45		FQ
P416589	WL	9/4/2013	13085563	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		FQ
P416589	WL	9/4/2013	13085563	120-83-2	2,4-Dichlorophenol	N001	0.64	ug/L	U	F	0.64		FQ
P416589	WL	9/4/2013	13085563	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		FQ
P416589	WL	9/4/2013	13085563	121-14-2	2,4-Dinitrotoluene	N001	1.7	ug/L	U	F	1.7		FQ
P416589	WL	9/4/2013	13085563	606-20-2	2,6-Dinitrotoluene	N001	1.9	ug/L	U	F	1.9		FQ
P416589	WL	9/4/2013	13085563	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		FQ
P416589	WL	9/4/2013	13085563	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		FQ
P416589	WL	9/4/2013	13085563	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		FQ
P416589	WL	9/4/2013	13085563	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4	ug/L	U	F	4		FQ
P416589	WL	9/4/2013	13085563	59-50-7	4-Chloro-3-methylphenol	N001	2.4	ug/L	U	F	2.4		FQ
P416589	WL	9/4/2013	13085563	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ
P416589	WL	9/4/2013	13085563	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		FQ
P416589	WL	9/4/2013	13085563	120-12-7	Anthracene	N001	0.42	ug/L	U	F	0.42		FQ
P416589	WL	9/4/2013	13085563	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ
P416589	WL	9/4/2013	13085563	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		FQ
P416589	WL	9/4/2013	13085563	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ
P416589	WL	9/4/2013	13085563	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		FQ
P416589	WL	9/4/2013	13085563	205-99-2	Benzo(b)fluoranthene	N001	0.53	ug/L	U	F	0.53		FQ
P416589	WL	9/4/2013	13085563	191-24-2	Benzo(g,h,i)Perylene	N001	0.5	ug/L	U	F	0.5		FQ
P416589	WL	9/4/2013	13085563	207-08-9	Benzo(k)fluoranthene	N001	0.46	ug/L	U	F	0.46		FQ
P416589	WL	9/4/2013	13085563	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ
P416589	WL	9/4/2013	13085563	111-44-4	Bis(2-chloroethyl) ether	N001	0.41	ug/L	U	F	0.41		FQ
P416589	WL	9/4/2013	13085563	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		FQ
P416589	WL	9/4/2013	13085563	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.56	ug/L	U	F	0.56		FQ
P416589	WL	9/4/2013	13085563	7440-42-8	Boron	0001	11	ug/L	J	F	4.4		FQ
P416589	WL	9/4/2013	13085563	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ
P416589	WL	9/4/2013	13085563	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ
P416589	WL	9/4/2013	13085563	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ
P416589	WL	9/4/2013	13085563	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		FQ
P416589	WL	9/4/2013	13085563	7440-43-9	Cadmium	0001	0.58	ug/L	J*	F	0.45		FQ
P416589	WL	9/4/2013	13085563	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ
P416589	WL	9/4/2013	13085563	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ
P416589	WL	9/4/2013	13085563	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ
P416589	WL	9/4/2013	13085563	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ
P416589	WL	9/4/2013	13085563	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ
P416589	WL	9/4/2013	13085563	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ
P416589	WL	9/4/2013	13085563	218-01-9	Chrysene	N001	0.54	ug/L	U	F	0.54		FQ
P416589	WL	9/4/2013	13085563	7440-50-8	Copper	0001	3.4	ug/L	J	F	1.4		UFQ
P416589	WL	9/4/2013	13085563	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		FQ
P416589	WL	9/4/2013	13085563	53-70-3	Dibenz(a,h)anthracene	N001	0.51	ug/L	U	F	0.51		FQ
P416589	WL	9/4/2013	13085563	84-66-2	Diethyl phthalate	N001	1	ug/L	J	F	0.38		FQ
P416589	WL	9/4/2013	13085563	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		FQ
P416589	WL	9/4/2013	13085563	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ

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P416589	WL	9/4/2013	13085563	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		FQ
P416589	WL	9/4/2013	13085563	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		FQ
P416589	WL	9/4/2013	13085563	118-74-1	Hexachlorobenzene	N001	0.66	ug/L	U	F	0.66		FQ
P416589	WL	9/4/2013	13085563	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ
P416589	WL	9/4/2013	13085563	77-47-4	Hexachlorocyclopentadiene	N001	10	ug/L	U	F	10		FQ
P416589	WL	9/4/2013	13085563	67-72-1	Hexachloroethane	N001	2.1	ug/L	U	F	2.1		FQ
P416589	WL	9/4/2013	13085563	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.65	ug/L	U	F	0.65		FQ
P416589	WL	9/4/2013	13085563	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		FQ
P416589	WL	9/4/2013	13085563	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		FQ
P416589	WL	9/4/2013	13085563	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ
P416589	WL	9/4/2013	13085563	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ
P416589	WL	9/4/2013	13085563	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		FQ
P416589	WL	9/4/2013	13085563	86-30-6	N-Nitrosodiphenylamine	N001	0.44	ug/L	U	F	0.44		FQ
P416589	WL	9/4/2013	13085563	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ
P416589	WL	9/4/2013	13085563	7440-02-0	Nickel	0001	3.9	ug/L	J	F	1.3		FQ
P416589	WL	9/4/2013	13085563	98-95-3	Nitrobenzene	N001	0.81	ug/L	U	F	0.81		FQ
P416589	WL	9/4/2013	13085563	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		FQ
P416589	WL	9/4/2013	13085563	108-95-2	Phenol	N001	2	ug/L	U	F	2		FQ
P416589	WL	9/4/2013	13085563	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		FQ
P416589	WL	9/4/2013	13085563	7782-49-2	Selenium	0001	4.9	ug/L	U	F	4.9		FQ
P416589	WL	9/4/2013	13085563	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ
P416589	WL	9/4/2013	13085563	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ
P416589	WL	9/4/2013	13085563	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ
P416589	WL	9/4/2013	13085563	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ
P416589	WL	9/4/2013	13085563	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ
P416589	WL	9/4/2013	13085563	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ
P416589	WL	9/4/2013	13085563	7440-61-1	Uranium	0001	2.5	ug/L		F	0.05		FQ
P416589	WL	9/4/2013	13085563	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ
P416589	WL	9/4/2013	13085563	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ
P416589	WL	9/4/2013	13085563	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
P416589	WL	9/4/2013	13085563	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ
P416589	WL	9/4/2013	13085563	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ
PLFSEEPINF	TS	8/15/2013	13085550	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
PLFSEEPINF	TS	8/15/2013	13085550	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
PLFSEEPINF	TS	8/15/2013	13085550	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
PLFSEEPINF	TS	8/15/2013	13085550	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
PLFSEEPINF	TS	8/15/2013	13085550	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
PLFSEEPINF	TS	8/15/2013	13085550	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
PLFSEEPINF	TS	8/15/2013	13085550	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
PLFSEEPINF	TS	8/15/2013	13085550	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
PLFSEEPINF	TS	8/15/2013	13085550	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
PLFSEEPINF	TS	8/15/2013	13085550	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
PLFSEEPINF	TS	8/15/2013	13085550	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	7440-38-2	Arsenic	N001	5	ug/L	J	F	4.4		
PLFSEEPINF	TS	8/15/2013	13085550	71-43-2	Benzene	N001	1.9	ug/L		F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	7440-41-7	Beryllium	N001	0.47	ug/L	U	F	0.47		
PLFSEEPINF	TS	8/15/2013	13085550	7440-42-8	Boron	N001	1300	ug/L		F	4.4		
PLFSEEPINF	TS	8/15/2013	13085550	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
PLFSEEPINF	TS	8/15/2013	13085550	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
PLFSEEPINF	TS	8/15/2013	13085550	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
PLFSEEPINF	TS	8/15/2013	13085550	7440-43-9	Cadmium	0001	0.52	ug/L	J	F	0.45		
PLFSEEPINF	TS	8/15/2013	13085550	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
PLFSEEPINF	TS	8/15/2013	13085550	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		

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PLFSEEPINF	TS	8/15/2013	13085550	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
PLFSEEPINF	TS	8/15/2013	13085550	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
PLFSEEPINF	TS	8/15/2013	13085550	7440-47-3	Chromium	N001	0.94	ug/L	J	F	0.66		
PLFSEEPINF	TS	8/15/2013	13085550	7440-50-8	Copper	0001	3.4	ug/L	JB	F	1.4		U
PLFSEEPINF	TS	8/15/2013	13085550	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
PLFSEEPINF	TS	8/15/2013	13085550	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		
PLFSEEPINF	TS	8/15/2013	13085550	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		
PLFSEEPINF	TS	8/15/2013	13085550	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
PLFSEEPINF	TS	8/15/2013	13085550	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
PLFSEEPINF	TS	8/15/2013	13085550	7440-02-0	Nickel	0001	5	ug/L	J	F	1.3		
PLFSEEPINF	TS	8/15/2013	13085550	7782-49-2	Selenium	N001	4.9	ug/L	U	F	4.9		
PLFSEEPINF	TS	8/15/2013	13085550	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		
PLFSEEPINF	TS	8/15/2013	13085550	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
PLFSEEPINF	TS	8/15/2013	13085550	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		
PLFSEEPINF	TS	8/15/2013	13085550	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
PLFSEEPINF	TS	8/15/2013	13085550	1330-20-7	Total Xylenes	N001	1.8	ug/L		F	0.19		U
PLFSEEPINF	TS	8/15/2013	13085550	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	8/15/2013	13085550	7440-61-1	Uranium	N001	0.05	ug/L	U	F	0.05		
PLFSEEPINF	TS	8/15/2013	13085550	7440-61-1	Uranium	N002	0.05	ug/L	U	F	0.05		
PLFSEEPINF	TS	8/15/2013	13085550	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
PLFSEEPINF	TS	8/15/2013	13085550	7440-66-6	Zinc	0001	51	ug/L	B	F	4.5		
PLFSEEPINF	TS	8/15/2013	13085550	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
PLFSEEPINF	TS	8/15/2013	13085550	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
PLFSEEPINF	TS	8/15/2013	13085550	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
PLFSYSEFF	TS	8/15/2013	13085550	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	8/15/2013	13085550	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		
PLFSYSEFF	TS	8/15/2013	13085550	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		
PLFSYSEFF	TS	8/15/2013	13085550	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	8/15/2013	13085550	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		
PLFSYSEFF	TS	8/15/2013	13085550	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		
PLFSYSEFF	TS	8/15/2013	13085550	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	8/15/2013	13085550	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		
PLFSYSEFF	TS	8/15/2013	13085550	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		
PLFSYSEFF	TS	8/15/2013	13085550	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		
PLFSYSEFF	TS	8/15/2013	13085550	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	105-67-9	2, 4-Dimethylphenol	N001	0.57	ug/L	U	F	0.57		
PLFSYSEFF	TS	8/15/2013	13085550	95-95-4	2,4,5-Trichlorophenol	N001	0.44	ug/L	U	F	0.44		
PLFSYSEFF	TS	8/15/2013	13085550	88-06-2	2,4,6-Trichlorophenol	N001	0.28	ug/L	U	F	0.28		
PLFSYSEFF	TS	8/15/2013	13085550	120-83-2	2,4-Dichlorophenol	N001	0.63	ug/L	U	F	0.63		
PLFSYSEFF	TS	8/15/2013	13085550	51-28-5	2,4-Dinitrophenol	N001	9.8	ug/L	U	F	9.8		
PLFSYSEFF	TS	8/15/2013	13085550	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		
PLFSYSEFF	TS	8/15/2013	13085550	606-20-2	2,6-Dinitrotoluene	N001	1.9	ug/L	U	F	1.9		
PLFSYSEFF	TS	8/15/2013	13085550	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		
PLFSYSEFF	TS	8/15/2013	13085550	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		
PLFSYSEFF	TS	8/15/2013	13085550	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		
PLFSYSEFF	TS	8/15/2013	13085550	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.9	ug/L	U	F	3.9		
PLFSYSEFF	TS	8/15/2013	13085550	59-50-7	4-Chloro-3-methylphenol	N001	2.4	ug/L	U	F	2.4		
PLFSYSEFF	TS	8/15/2013	13085550	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		
PLFSYSEFF	TS	8/15/2013	13085550	83-32-9	Acenaphthene	N001	1.5	ug/L	J	F	0.27		
PLFSYSEFF	TS	8/15/2013	13085550	120-12-7	Anthracene	N001	0.41	ug/L	U	F	0.41		
PLFSYSEFF	TS	8/15/2013	13085550	7440-38-2	Arsenic	N001	11	ug/L	J	F	4.4		

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
PLFSYSEFF	TS	8/15/2013	13085550	56-55-3	Benz(a)anthracene	N001	0.34	ug/L	U	F	0.34		
PLFSYSEFF	TS	8/15/2013	13085550	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	50-32-8	Benzo(a)pyrene	N001	0.3	ug/L	U	F	0.3		
PLFSYSEFF	TS	8/15/2013	13085550	205-99-2	Benzo(b)fluoranthene	N001	0.52	ug/L	U	F	0.52		
PLFSYSEFF	TS	8/15/2013	13085550	191-24-2	Benzo(g,h,i)Perylene	N001	0.49	ug/L	U	F	0.49		
PLFSYSEFF	TS	8/15/2013	13085550	207-08-9	Benzo(k)fluoranthene	N001	0.45	ug/L	U	F	0.45		
PLFSYSEFF	TS	8/15/2013	13085550	7440-41-7	Beryllium	N001	0.47	ug/L	U	F	0.47		
PLFSYSEFF	TS	8/15/2013	13085550	111-44-4	Bis(2-chloroethyl) ether	N001	0.4	ug/L	U	F	0.4		
PLFSYSEFF	TS	8/15/2013	13085550	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		
PLFSYSEFF	TS	8/15/2013	13085550	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.55	ug/L	U	F	0.55		
PLFSYSEFF	TS	8/15/2013	13085550	7440-42-8	Boron	N001	980	ug/L		F	4.4		
PLFSYSEFF	TS	8/15/2013	13085550	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	8/15/2013	13085550	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		
PLFSYSEFF	TS	8/15/2013	13085550	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	8/15/2013	13085550	85-68-7	Butyl benzyl phthalate	N001	0.98	ug/L	U	F	0.98		
PLFSYSEFF	TS	8/15/2013	13085550	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		
PLFSYSEFF	TS	8/15/2013	13085550	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		
PLFSYSEFF	TS	8/15/2013	13085550	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	8/15/2013	13085550	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	8/15/2013	13085550	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		
PLFSYSEFF	TS	8/15/2013	13085550	7440-47-3	Chromium	N001	1.3	ug/L	J	F	0.66		
PLFSYSEFF	TS	8/15/2013	13085550	218-01-9	Chrysene	N001	0.53	ug/L	U	F	0.53		
PLFSYSEFF	TS	8/15/2013	13085550	7440-50-8	Copper	0001	11	ug/L	JB	F	1.4		U
PLFSYSEFF	TS	8/15/2013	13085550	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		
PLFSYSEFF	TS	8/15/2013	13085550	53-70-3	Dibenz(a,h)anthracene	N001	0.5	ug/L	U	F	0.5		
PLFSYSEFF	TS	8/15/2013	13085550	84-66-2	Diethyl phthalate	N001	0.37	ug/L	U	F	0.37		
PLFSYSEFF	TS	8/15/2013	13085550	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	8/15/2013	13085550	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	206-44-0	Fluoranthene	N001	0.3	ug/L	J	F	0.2		
PLFSYSEFF	TS	8/15/2013	13085550	86-73-7	Fluorene	N001	1.2	ug/L	J	F	0.3		
PLFSYSEFF	TS	8/15/2013	13085550	118-74-1	Hexachlorobenzene	N001	0.65	ug/L	U	F	0.65		
PLFSYSEFF	TS	8/15/2013	13085550	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		
PLFSYSEFF	TS	8/15/2013	13085550	77-47-4	Hexachlorocyclopentadiene	N001	9.8	ug/L	U	F	9.8		
PLFSYSEFF	TS	8/15/2013	13085550	67-72-1	Hexachloroethane	N001	2.1	ug/L	U	F	2.1		
PLFSYSEFF	TS	8/15/2013	13085550	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.64	ug/L	U	F	0.64		
PLFSYSEFF	TS	8/15/2013	13085550	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	8/15/2013	13085550	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		
PLFSYSEFF	TS	8/15/2013	13085550	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		
PLFSYSEFF	TS	8/15/2013	13085550	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		
PLFSYSEFF	TS	8/15/2013	13085550	621-64-7	N-Nitrosodi-n-propylamine	N001	0.34	ug/L	U	F	0.34		
PLFSYSEFF	TS	8/15/2013	13085550	86-30-6	N-Nitrosodiphenylamine	N001	0.43	ug/L	U	F	0.43		
PLFSYSEFF	TS	8/15/2013	13085550	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		
PLFSYSEFF	TS	8/15/2013	13085550	7440-02-0	Nickel	0001	7.2	ug/L	J	F	1.3		
PLFSYSEFF	TS	8/15/2013	13085550	98-95-3	Nitrobenzene	N001	0.79	ug/L	U	F	0.79		
PLFSYSEFF	TS	8/15/2013	13085550	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		
PLFSYSEFF	TS	8/15/2013	13085550	108-95-2	Phenol	N001	2	ug/L	U	F	2		
PLFSYSEFF	TS	8/15/2013	13085550	129-00-0	Pyrene	N001	0.36	ug/L	U	F	0.36		
PLFSYSEFF	TS	8/15/2013	13085550	7782-49-2	Selenium	N001	4.9	ug/L	U	F	4.9		
PLFSYSEFF	TS	8/15/2013	13085550	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		
PLFSYSEFF	TS	8/15/2013	13085550	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	8/15/2013	13085550	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		
PLFSYSEFF	TS	8/15/2013	13085550	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	8/15/2013	13085550	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		

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PLFSYSEFF	TS	8/15/2013	13085550	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	8/15/2013	13085550	7440-61-1	Uranium	N001	0.75	ug/L	J	F	0.05		
PLFSYSEFF	TS	8/15/2013	13085550	7440-61-1	Uranium	N002	2.8	ug/L		F	0.05		
PLFSYSEFF	TS	8/15/2013	13085550	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		
PLFSYSEFF	TS	8/15/2013	13085550	7440-66-6	Zinc	0001	93	ug/L	B	F	4.5		
PLFSYSEFF	TS	8/15/2013	13085550	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	8/15/2013	13085550	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	8/15/2013	13085550	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		
SEEP995	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.0232	pCi/L		F	0.0128	0.0134	J
SEEP995	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.0402	pCi/L		F	0.0182	0.0166	J
SEEP995	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	11.7	ug/L		F	0.067		
SEEP995A	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.0329	pCi/L		F	0.0151	0.0171	J
SEEP995A	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.0693	pCi/L		F	0.018	0.0211	
SEEP995A	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	10.2	ug/L		F	0.067		
SEEP995B	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.0132	pCi/L		F	0.0121	0.0119	U
SEEP995B	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.0454	pCi/L		F	0.0168	0.0164	J
SEEP995B	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	12	ug/L		F	0.067		
SEEP995C	SL	9/19/2013	13095637	AM-241	Americium-241	N001	0.00497	pCi/L	U	F	0.0137	0.00727	
SEEP995C	SL	9/19/2013	13095637	PU-239,240	Plutonium-239, 240	N001	0.0218	pCi/L		F	0.0177	0.0126	J
SEEP995C	SL	9/19/2013	13095637	7440-61-1	Uranium	N001	22.3	ug/L		F	0.067		
SPOUT	TS	7/3/2013	13075472	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	490	mg/L		F	1.9		
SPOUT	TS	7/23/2013	13075507	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	260	mg/L	B	F	0.95		
SPOUT	TS	8/9/2013	13085544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1700	mg/L		F	9.5		
SPOUT	TS	8/23/2013	13085570	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	270	mg/L		F	1.9		
SPOUT	TS	9/3/2013	13095595	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	350	mg/L		F	9.5		
SPOUT	TS	9/19/2013	13095625	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.5	mg/L		F	0.019		
SPOUT	TS	9/3/2013	13095595	7440-61-1	Uranium	N001	51	ug/L		F	0.05		
SPOUT	TS	9/19/2013	13095625	7440-61-1	Uranium	N001	47	ug/L		F	0.05		
SPOUT	TS	8/23/2013	13085570	7440-61-1	Uranium	N001	50	ug/L		F	0.05		
SPOUT	TS	8/9/2013	13085544	7440-61-1	Uranium	N001	58	ug/L		F	0.05		
SPOUT	TS	7/23/2013	13075507	7440-61-1	Uranium	N001	63	ug/L		F	0.05		
SPOUT	TS	7/3/2013	13075472	7440-61-1	Uranium	N001	48	ug/L		F	0.05		
SW093	SL	9/15/2013	13095627	AM-241	Americium-241	N001	0.0176	pCi/L	U	F	0.0184	0.0128	
SW093	SL	7/23/2013	13095609	AM-241	Americium-241	N002	0.0309	pCi/L		F	0.021	0.0162	
SW093	SL	9/15/2013	13095627	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
SW093	SL	7/23/2013	13095609	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		
SW093	SL	7/23/2013	13095609	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
SW093	SL	9/15/2013	13095627	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
SW093	SL	9/15/2013	13095627	7440-47-3	Chromium	N001	1	ug/L	U	F	1		
SW093	SL	7/23/2013	13095609	7440-47-3	Chromium	N002	1	ug/L	U	F	1		
SW093	SL	9/15/2013	13095627	HARDNESS	Hardness	N001	157	mg/L		F	2		
SW093	SL	7/23/2013	13095609	HARDNESS	Hardness	N002	156	mg/L		F	2		
SW093	SL	9/15/2013	13095627	PU-239,240	Plutonium-239, 240	N001	-0.00153	pCi/L	U	F	0.0166	0.0108	
SW093	SL	7/23/2013	13095609	PU-239,240	Plutonium-239, 240	N002	0.0109	pCi/L	U	F	0.0147	0.00999	
SW093	SL	9/15/2013	13095627	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
SW093	SL	7/23/2013	13095609	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
SW093	SL	9/15/2013	13095627	7440-61-1	Uranium	N001	5.33	ug/L		F	0.067		
SW093	SL	7/23/2013	13095609	7440-61-1	Uranium	N002	2.88	ug/L		F	0.067		
WALPOC	SL	9/13/2013	13095608	AM-241	Americium-241	N001	0.0283	pCi/L		F	0.0183	0.0134	
WALPOC	SL	9/14/2013	13095621	AM-241	Americium-241	N001	0.0134	pCi/L	U	F	0.0261	0.0125	
WALPOC	SL	9/16/2013	13095613	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.3	mg/L		F	0.019		
WALPOC	SL	9/13/2013	13095612	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	0.9	mg/L	B	D	0.019		
WALPOC	SL	9/14/2013	13095612	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	0.76	mg/L		F	0.019		
WALPOC	SL	9/13/2013	13095612	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N004	0.9	mg/L	B	F	0.019		

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WALPOC	SL	9/14/2013	13095621	PU-239,240	Plutonium-239, 240	N001	0.0251	pCi/L		F	0.0151	0.013	
WALPOC	SL	9/13/2013	13095608	PU-239,240	Plutonium-239, 240	N001	0.0394	pCi/L		F	0.0133	0.0152	
WALPOC	SL	9/13/2013	13095608	7440-61-1	Uranium	N001	1.99	ug/L		F	0.067		
WALPOC	SL	9/14/2013	13095621	7440-61-1	Uranium	N001	2.55	ug/L		F	0.067		
WOMPOC	SL	9/13/2013	13095608	AM-241	Americium-241	N001	0.00464	pCi/L	U	F	0.0211	0.0117	
WOMPOC	SL	9/14/2013	13095627	AM-241	Americium-241	N001	0.00388	pCi/L	U	F	0.0264	0.0108	
WOMPOC	SL	9/13/2013	13095608	PU-239,240	Plutonium-239, 240	N001	0.00916	pCi/L	U	F	0.0124	0.0101	
WOMPOC	SL	9/14/2013	13095627	PU-239,240	Plutonium-239, 240	N001	0.0228	pCi/L		F	0.0145	0.0122	
WOMPOC	SL	9/14/2013	13095627	7440-61-1	Uranium	N001	1.44	ug/L		F	0.067		
WOMPOC	SL	9/13/2013	13095608	7440-61-1	Uranium	N001	1.14	ug/L		F	0.067		
B5INFLOW	SL	5/23/2013	13095607	AM-241	Americium-241	N002	-0.00141	pCi/L	U	F	0.0192	0.00916	
B5INFLOW	SL	5/23/2013	13095607	PU-239,240	Plutonium-239, 240	N002	-0.00213	pCi/L	U	F	0.0115	0.0059	
B5INFLOW	SL	5/23/2013	13095607	7440-61-1	Uranium	N002	18.3	ug/L		F	0.067		
GS08	SL	6/4/2013	13095610	AM-241	Americium-241	N001	0.0305	pCi/L		F	0.0207	0.0171	J
GS08	SL	6/4/2013	13095610	PU-239,240	Plutonium-239, 240	N001	0.0388	pCi/L		F	0.015	0.0187	J
GS08	SL	6/4/2013	13095610	7440-61-1	Uranium	N001	7.08	ug/L		F	0.067		
GS03	SL	6/25/2013	13095608	AM-241	Americium-241	N001	0.0155	pCi/L	U	F	0.0702	0.0304	
GS03	SL	6/25/2013	13095608	PU-239,240	Plutonium-239, 240	N001	0.0361	pCi/L		F	0.0151	0.0152	
GS03	SL	6/25/2013	13095608	7440-61-1	Uranium	N001	8.9	ug/L		F	0.067		
WALPOC	SL	6/4/2013	13095608	AM-241	Americium-241	N002	0.0148	pCi/L	U	D	0.0201	0.013	
WALPOC	SL	6/4/2013	13095608	AM-241	Americium-241	N003	-0.0014	pCi/L	U	F	0.0191	0.0113	
WALPOC	SL	6/4/2013	13095608	PU-239,240	Plutonium-239, 240	N002	0.031	pCi/L		D	0.0129	0.0126	
WALPOC	SL	6/4/2013	13095608	PU-239,240	Plutonium-239, 240	N003	0.0207	pCi/L		F	0.015	0.0152	
WALPOC	SL	6/4/2013	13095608	7440-61-1	Uranium	N002	3.21	ug/L		D	0.067		
WALPOC	SL	6/4/2013	13095608	7440-61-1	Uranium	N003	3.21	ug/L		F	0.067		
WOMPOC	SL	6/6/2013	13095608	AM-241	Americium-241	N001	0.00283	pCi/L	U	F	0.0193	0.00785	
WOMPOC	SL	6/6/2013	13095608	AM-241	Americium-241	N002	0.0113	pCi/L	U	D	0.0385	0.0157	
WOMPOC	SL	6/6/2013	13095608	PU-239,240	Plutonium-239, 240	N001	0.019	pCi/L	U	F	0.0206	0.0167	
WOMPOC	SL	6/6/2013	13095608	PU-239,240	Plutonium-239, 240	N002	0.0563	pCi/L		D	0.0191	0.0229	
WOMPOC	SL	6/6/2013	13095608	7440-61-1	Uranium	N001	6.78	ug/L		F	0.067		
WOMPOC	SL	6/6/2013	13095608	7440-61-1	Uranium	N002	7.43	ug/L		D	0.067		
SW027	SL	2/4/2013	13095609	AM-241	Americium-241	N001	0.0202	pCi/L	H	F	0.0172	0.0112	
SW027	SL	2/4/2013	13095609	AM-241	Americium-241	N002	0.0323	pCi/L	H	D	0.02	0.0149	
SW027	SL	2/4/2013	13095609	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
SW027	SL	2/4/2013	13095609	7440-41-7	Beryllium	N002	1	ug/L	U	D	1		
SW027	SL	2/4/2013	13095609	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
SW027	SL	2/4/2013	13095609	7440-43-9	Cadmium	0002	0.11	ug/L	U	D	0.11		
SW027	SL	2/4/2013	13095609	7440-47-3	Chromium	N001	1	ug/L	U	F	1		
SW027	SL	2/4/2013	13095609	7440-47-3	Chromium	N002	1	ug/L	U	D	1		
SW027	SL	2/4/2013	13095609	HARDNESS	Hardness	N001	170	mg/L	H	F	2		J
SW027	SL	2/4/2013	13095609	HARDNESS	Hardness	N002	166	mg/L	H	D	2		J
SW027	SL	2/4/2013	13095609	PU-239,240	Plutonium-239, 240	N001	0.111	pCi/L	H	F	0.0116	0.0241	
SW027	SL	2/4/2013	13095609	PU-239,240	Plutonium-239, 240	N002	0.104	pCi/L	H	D	0.0117	0.0227	
SW027	SL	2/4/2013	13095609	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
SW027	SL	2/4/2013	13095609	7440-22-4	Silver	0002	0.2	ug/L	U	D	0.2		
SW027	SL	2/4/2013	13095609	7440-61-1	Uranium	N001	1.86	ug/L		F	0.067		
SW027	SL	2/4/2013	13095609	7440-61-1	Uranium	N002	1.96	ug/L		D	0.067		
B5INFLOW	SL	6/26/2013	13095622	7440-61-1	Uranium	N001	8.61	ug/L		F	0.067		
B5INFLOW	SL	9/16/2013	13095642	7440-61-1	Uranium	N001	14.4	ug/L		F	0.067		
GS08	SL	9/17/2013	13095642	AM-241	Americium-241	N001	0.00848	pCi/L	U	F	0.014	0.00883	
GS08	SL	9/17/2013	13095642	PU-239,240	Plutonium-239, 240	N001	0.0038	pCi/L	U	F	0.0232	0.00913	
GS08	SL	9/17/2013	13095642	7440-61-1	Uranium	N001	7.38	ug/L		F	0.067		
GS03	SL	9/14/2013	13105653	AM-241	Americium-241	N002	0.011	pCi/L	U	F	0.013	0.00927	
GS03	SL	9/14/2013	13105653	PU-239,240	Plutonium-239, 240	N002	0.0172	pCi/L	U	F	0.0233	0.0146	

RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
GS03	SL	9/14/2013	13105653	7440-61-1	Uranium	N002	2.91	ug/L		F	0.067		
SEEP995	SL	9/24/2013	13105653	AM-241	Americium-241	N001	0.012	pCi/L	U	F	0.0166	0.0125	
SEEP995	SL	9/24/2013	13105653	PU-239,240	Plutonium-239, 240	N001	0.0147	pCi/L	U	F	0.0224	0.0125	
SEEP995	SL	9/24/2013	13105653	7440-61-1	Uranium	N001	14.8	ug/L		F	0.067		
SEEP995A	SL	9/24/2013	13105653	AM-241	Americium-241	N001	0.0101	pCi/L	U	F	0.0278	0.0174	
SEEP995A	SL	9/24/2013	13105653	PU-239,240	Plutonium-239, 240	N001	0.0149	pCi/L	U	F	0.0259	0.0139	
SEEP995A	SL	9/24/2013	13105653	7440-61-1	Uranium	N001	14.4	ug/L		F	0.067		
SEEP995B	SL	9/24/2013	13105653	AM-241	Americium-241	N001	0.0166	pCi/L	U	F	0.0196	0.014	
SEEP995B	SL	9/24/2013	13105653	PU-239,240	Plutonium-239, 240	N001	0.0222	pCi/L	U	F	0.03	0.0175	
SEEP995B	SL	9/24/2013	13105653	7440-61-1	Uranium	N001	14.9	ug/L		F	0.067		
SEEP995C	SL	9/24/2013	13105653	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0185	0.00619	
SEEP995C	SL	9/24/2013	13105653	PU-239,240	Plutonium-239, 240	N001	-0.0017	pCi/L	U	F	0.0207	0.012	
SEEP995C	SL	9/24/2013	13105653	7440-61-1	Uranium	N001	26.5	ug/L		F	0.067		
FC4988	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.00342	pCi/L	U	F	0.0141	0.0067	
FC4988	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	-0.00208	pCi/L	U	F	0.0253	0.0195	
FC4988	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	15.5	ug/L		F	0.067		
FC4995	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.0251	pCi/L		F	0.016	0.0158	J
FC4995	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0.00388	pCi/L	U	F	0.0236	0.00932	
FC4995	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	16.1	ug/L		F	0.067		
FC4997	SL	9/30/2013	13105660	AM-241	Americium-241	N001	-0.00223	pCi/L	U	F	0.0184	0.00756	
FC4997	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0	pCi/L	U	F	0.0147	0.01	
FC4997	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	15.3	ug/L		F	0.067		
FC4EFF	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.008	pCi/L	U	F	0.0166	0.0111	
FC4EFF	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	-0.0116	pCi/L	U	F	0.0202	0.0142	
FC4EFF	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	15.5	ug/L		F	0.067		
SEEP995	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.0691	pCi/L		F	0.0168	0.0253	
SEEP995	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0.19	pCi/L		F	0.0255	0.0439	
SEEP995	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	16.6	ug/L		F	0.067		
SEEP995A	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.0826	pCi/L		F	0.0149	0.0264	
SEEP995A	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0.245	pCi/L		F	0.023	0.0484	
SEEP995A	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	19.1	ug/L		F	0.067		
SEEP995B	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.0454	pCi/L		F	0.0157	0.02	J
SEEP995B	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0.101	pCi/L		F	0.0224	0.0291	
SEEP995B	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	16	ug/L		F	0.067		
SEEP995C	SL	9/30/2013	13105660	AM-241	Americium-241	N001	0.0771	pCi/L		F	0.0206	0.029	
SEEP995C	SL	9/30/2013	13105660	PU-239,240	Plutonium-239, 240	N001	0.108	pCi/L		F	0.02	0.0282	
SEEP995C	SL	9/30/2013	13105660	7440-61-1	Uranium	N001	19.2	ug/L		F	0.067		
GS10	SL	9/16/2013	13105665	AM-241	Americium-241	N001	0.018	pCi/L	U	F	0.0186	0.0166	
GS10	SL	9/16/2013	13105665	AM-241	Americium-241	N002	0.00727	pCi/L	U	D	0.0151	0.0101	
GS10	SL	9/16/2013	13105665	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
GS10	SL	9/16/2013	13105665	7440-41-7	Beryllium	N002	1	ug/L	U	D	1		
GS10	SL	9/16/2013	13105665	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
GS10	SL	9/16/2013	13105665	7440-43-9	Cadmium	0002	0.11	ug/L	U	D	0.11		
GS10	SL	9/16/2013	13105665	7440-47-3	Chromium	N001	1	ug/L	U	F	1		
GS10	SL	9/16/2013	13105665	7440-47-3	Chromium	N002	1	ug/L	U	D	1		
GS10	SL	9/16/2013	13105665	HARDNESS	Hardness	N001	307	mg/L		F	2		
GS10	SL	9/16/2013	13105665	HARDNESS	Hardness	N002	305	mg/L		D	2		
GS10	SL	9/16/2013	13105665	PU-239,240	Plutonium-239, 240	N001	0.0196	pCi/L		F	0.0184	0.0137	
GS10	SL	9/16/2013	13105665	PU-239,240	Plutonium-239, 240	N002	-0.00158	pCi/L	U	D	0.0193	0.0082	
GS10	SL	9/16/2013	13105665	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
GS10	SL	9/16/2013	13105665	7440-22-4	Silver	0002	0.2	ug/L	U	D	0.2		
GS10	SL	9/16/2013	13105665	7440-61-1	Uranium	N001	12.8	ug/L		F	0.067		
GS10	SL	9/16/2013	13105665	7440-61-1	Uranium	N002	12.5	ug/L		D	0.067		
WOMPOC	SL	9/19/2013	13105665	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0129	0.00432	

RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
WOMPOC	SL	9/28/2013	13105665	AM-241	Americium-241	N001	0.00149	pCi/L	U	F	0.0123	0.00653	
WOMPOC	SL	9/19/2013	13105665	PU-239,240	Plutonium-239, 240	N001	0.00155	pCi/L	U	F	0.0189	0.00678	
WOMPOC	SL	9/28/2013	13105665	PU-239,240	Plutonium-239, 240	N001	0.0015	pCi/L	U	F	0.0183	0.00881	
WOMPOC	SL	9/19/2013	13105665	7440-61-1	Uranium	N001	2.35	ug/L		F	0.067		
WOMPOC	SL	9/28/2013	13105665	7440-61-1	Uranium	N001	2.89	ug/L		F	0.067		
GS59	SL	9/16/2013	13105666	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		
GS59	SL	9/16/2013	13105666	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
GS59	SL	9/16/2013	13105666	7440-42-8	Boron	N001	27.8	ug/L	B	F	15		
GS59	SL	9/16/2013	13105666	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		
GS59	SL	9/16/2013	13105666	7440-47-3	Chromium	N001	1	ug/L	U	F	1		
GS59	SL	9/16/2013	13105666	7440-50-8	Copper	0001	3	ug/L	U	F	3		
GS59	SL	9/16/2013	13105666	7439-92-1	Lead	0001	3.3	ug/L	U	F	3.3		
GS59	SL	9/16/2013	13105666	7439-97-6	Mercury	N001	0.067	ug/L	U	F	0.067		
GS59	SL	9/16/2013	13105666	7440-02-0	Nickel	0001	2.34	ug/L	B	F	1.5		
GS59	SL	9/16/2013	13105666	7782-49-2	Selenium	N001	6	ug/L	U	F	6		
GS59	SL	9/16/2013	13105666	7440-22-4	Silver	0001	1	ug/L	U	F	1		
GS59	SL	9/16/2013	13105666	7440-61-1	Uranium	N002	1.36	ug/L		F	0.067		
GS59	SL	9/16/2013	13105666	7440-66-6	Zinc	0001	3.3	ug/L	U	F	3.3		
SW027	SL	9/13/2013	13105666	AM-241	Americium-241	N001	0.0138	pCi/L		F	0.0127	0.01	U
SW027	SL	9/13/2013	13105666	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
SW027	SL	9/13/2013	13105666	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
SW027	SL	9/13/2013	13105666	7440-47-3	Chromium	N001	1.45	ug/L	B	F	1		
SW027	SL	9/13/2013	13105666	HARDNESS	Hardness	N001	126	mg/L		F	2		
SW027	SL	9/13/2013	13105666	PU-239,240	Plutonium-239, 240	N001	0.126	pCi/L		F	0.0202	0.0311	
SW027	SL	9/13/2013	13105666	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
SW027	SL	9/13/2013	13105666	7440-61-1	Uranium	N001	1.98	ug/L		F	0.067		
B5INFLOW	SL	6/26/2013	13115748	AM-241	Americium-241	N001	0.00619	pCi/L	U	F	0.0291	0.0149	
B5INFLOW	SL	6/26/2013	13115748	PU-239,240	Plutonium-239, 240	N001	0.00787	pCi/L	U	F	0.0265	0.0109	
GS08	SL	9/24/2013	13105670	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0141	0.00666	
GS08	SL	9/24/2013	13105670	PU-239,240	Plutonium-239, 240	N001	0.00134	pCi/L	U	F	0.0164	0.00873	
GS08	SL	9/24/2013	13105670	7440-61-1	Uranium	N001	11.1	ug/L		F	0.067		
GS10	SL	9/24/2013	13105691	AM-241	Americium-241	N001	0.0093	pCi/L	U	F	0.0192	0.0112	
GS10	SL	9/24/2013	13105691	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		
GS10	SL	9/24/2013	13105691	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
GS10	SL	9/24/2013	13105691	7440-47-3	Chromium	N001	1	ug/L	U	F	1		J
GS10	SL	9/24/2013	13105691	HARDNESS	Hardness	N001	424	mg/L		F	2		
GS10	SL	9/24/2013	13105691	PU-239,240	Plutonium-239, 240	N001	0.00164	pCi/L	U	F	0.02	0.00557	
GS10	SL	9/24/2013	13105691	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
GS10	SL	9/24/2013	13105691	7440-61-1	Uranium	N001	16.3	ug/L		F	0.067		
SW093	SL	9/19/2013	13105691	AM-241	Americium-241	N002	0.00252	pCi/L	U	F	0.0208	0.0191	
SW093	SL	9/19/2013	13105691	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		
SW093	SL	9/19/2013	13105691	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		
SW093	SL	9/19/2013	13105691	7440-47-3	Chromium	N002	1	ug/L	U	F	1		J
SW093	SL	9/19/2013	13105691	HARDNESS	Hardness	N002	304	mg/L		F	2		
SW093	SL	9/19/2013	13105691	PU-239,240	Plutonium-239, 240	N002	0.00152	pCi/L	U	F	0.0185	0.00891	
SW093	SL	9/19/2013	13105691	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		
SW093	SL	9/19/2013	13105691	7440-61-1	Uranium	N002	12.1	ug/L		F	0.067		
WALPOC	SL	9/16/2013	13115736	AM-241	Americium-241	N002	0.0104	pCi/L	U	F	0.014	0.0106	
WALPOC	SL	9/16/2013	13115736	PU-239,240	Plutonium-239, 240	N002	0.00955	pCi/L	U	F	0.0184	0.0104	
WALPOC	SL	9/16/2013	13115736	7440-61-1	Uranium	N002	11.5	ug/L		F	0.067		
B5INFLOW	SL	5/23/2013	13075454	7440-61-1	Uranium	N001	18.4	ug/L		F	0.067		

RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS

EXPLANATION

SAMPLE_ID

N00x = Sample was not filtered.
000x = Sample was filtered.

WATER_UNIT_OF_MEASURE

mg/L; ppm = milligrams per liter
pCi/L = picocuries per liter
ug/L = micrograms per liter
C = degrees celsius
mS/cm = milliSiemens per centimeter
NTU = normal turbidity units
s.u. = standard pH units
uS/cm = microSiemens per centimeter
umhos/cm = microSiemens per centimeter

SAMPLE_TYPE

F = Field Sample
D = Duplicate

DATA_VALIDATION_QUALIFIERS

valid	Result is valid.
F	Low flow sampling method used.
G	Possible grout contamination, pH > 9.
J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.
Q	Qualitative result due to sampling technique
R	Unusable result.
U	Parameter analyzed for but was not detected.
X	Location is undefined.
999	Validation not complete

LAB_QUALIFIERS

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

LOCATION_TYPE

SL	SURFACE LOCATION
TS	TREATMENT SYSTEM
WL	WELL

COLLECTION_METHOD

G	Grab
C	Composite

Appendix B2
Information for RFLMA Composite Samples with Unavailable Data

Location	Sample Dates*	Status
GS05	9/18 14:56 - 10/29/13 14:10	Analysis Pending
GS13	9/14 13:14 - 10/25/13 15:51	Analysis Pending
B5INFLOW	9/25 15:07 - 10/25/13 15:01	Analysis Pending

* Analytical results are reported with the start date of the composite sampling period
--> Composite sample end date to be determined
NSQ: non-sufficient quantity for analysis