LMS/RFS/S12696

Rocky Flats, Colorado, Site Surface Water Configuration Adaptive Management Plan Annual Report Calendar Year 2014

February 2015

U.S. DEPARTMENT OF ENERGY | Legacy Management

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Abbreviations

Am	americium
AMP	Adaptive Management Plan
AOC	area of concern
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
FONSI	Finding of No Significant Impact
GEMS	Geospatial Environmental Mapping System
µg/L	micrograms per liter (sometimes expressed as ug/L)
N	nitrogen
NO2	nitrite
NO3	nitrate
pCi/L	picocuries per liter
POC	point of compliance
POE	point of evaluation
Pu	plutonium
RFLMA	*Rocky Flats Legacy Management Agreement*
RFSOG	Rocky Flats Site Operations Guide
Site	Rocky Flats Site
SPIN	SPPTS influent sampling location
SPOUT	SPPTS effluent sampling location
SPPTS	Solar Ponds Plume Treatment System

1.0 Introduction

The proposed action assessed in the *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment* (DOE 2011) and the resulting Finding of No Significant Impact (FONSI) is to breach the remaining retention pond dams at the Rocky Flats, Colorado, Site (Site) to allow surface water flow to return to approximately the same conditions that were present before construction of the retention ponds. Based on extensive water quality monitoring data and a thorough environmental review, and as stated in the FONSI, the U.S. Department of Energy (DOE) Office of Legacy Management has determined that the proposed action does not present a significant impact on the environment under the National Environmental Policy Act evaluation criteria.

Some members of the public have commented that additional information must be collected before DOE implements the final steps of the proposed action. The additional information will help to reduce uncertainty as to whether completion of the proposed action will adversely impact the quality of water flowing from the Site and into downstream communities. In response to the requests, DOE worked with neighboring community representatives and other interested stakeholders to develop and implement an Adaptive Management Plan (AMP) (DOE 2013a) to provide additional information. The AMP group is composed of these representatives and stakeholders. The resulting AMP reflects DOE's long-term commitment to implementing the activities this plan describes.

The AMP provides for a monitoring and data evaluation program to assist in deciding whether to implement the final steps of the proposed action (which include breaching the terminal dams during the planned time frame of 2018–2020), or to delay the completion of the proposed action to gather additional information for evaluation. The terminal dams will be operated in a flow-through condition during the period leading up to the completion of the proposed action, which will provide data similar to what can be expected post-breach. In addition to the AMP monitoring program, the AMP identifies certain performance indicators that DOE will consider in deciding whether to adjust the time frame for completing the proposed action.

This AMP annual report for calendar year (CY) 2014 is provided in accordance with the reporting requirements described in Section 5.0 of the AMP. Table 11, located at the end of this report, includes all validated analytical data available as of December 31, 2014, including any validated data that had not been tabulated in previous AMP reports.

In addition, to make data exchange as timely as possible, the monitoring summary sections below include all analytical data available as of February 6, 2015, including unvalidated analytical data (which is preliminary and subject to revision). Therefore, the evaluations in the monitoring summary sections that follow are not limited to the validated 2014 data tabulated in Table 11. Instead, the evaluations also consider any available unvalidated data, if appropriate. The following monitoring objectives are addressed in this report:

- Pre-Discharge
- Targeted Groundwater Monitoring
- Monitoring to Evaluate Flow-Through Operations at Terminal Ponds A-4, B-5, and C-2
- Storm-Event Monitoring

- Continuous Flow-Paced Composite Sampling to Evaluate Uranium Transport
- Grab Sampling for Uranium in North and South Walnut Creeks
- Grab Sampling for Nitrate + Nitrite as Nitrogen in Walnut Creek

2.0 AMP Highlights: Fourth Quarter CY 2014

- During the quarter, 85 samples were collected in support of AMP monitoring objectives.
- Four informal emails were transmitted to AMP participants that provided notification that composite samples had been retrieved from the downstream-most points of compliance (POCs); i.e., from WOMPOC on Woman Creek at the Central Operable Unit (COU) boundary, and from WALPOC on Walnut Creek at the COU boundary.
- Four informal emails were transmitted to AMP participants that provided notification of GEMS (Geospatial Environmental Mapping System) postings of validated analytical results for the downstream-most POCs.
- One informal email was transmitted to AMP participants that provided notification of individual analytical results from POCs and/or points of evaluation (POEs) that were above the applicable *Rocky Flats Legacy Management Agreement* (RFLMA) (DOE 2007) surface-water standard (Attachment 2, Table 1). Those results did not trigger a RFLMA Reportable Condition and so they were provided as information only.

3.0 Water Quality Monitoring

AMP monitoring objectives, locations, and sampling criteria are itemized in Table 2 of the AMP. Additional field implementation protocols for the AMP monitoring objectives can be found in Appendix I of the Rocky Flats Site Operations Guide (RFSOG) (DOE 2013b).

3.1 Pre-Discharge Monitoring

This monitoring objective is intended to evaluate whether pond water from Ponds A-4, B-5, or C-2 is expected to meet water-quality standards at downstream AMP monitoring locations prior to opening a valve to initiate flow-through discharge. Pre-discharge samples are collected at A4 POND on North Walnut Creek, B5 POND on South Walnut Creek, and C2 POND on Woman Creek. These locations are shown in Figure 1.

Since Ponds A-4, B-5, and C-2 were operated in flow-through mode for all of CY 2014 (i.e., valves open all year), no pre-discharge samples were collected.

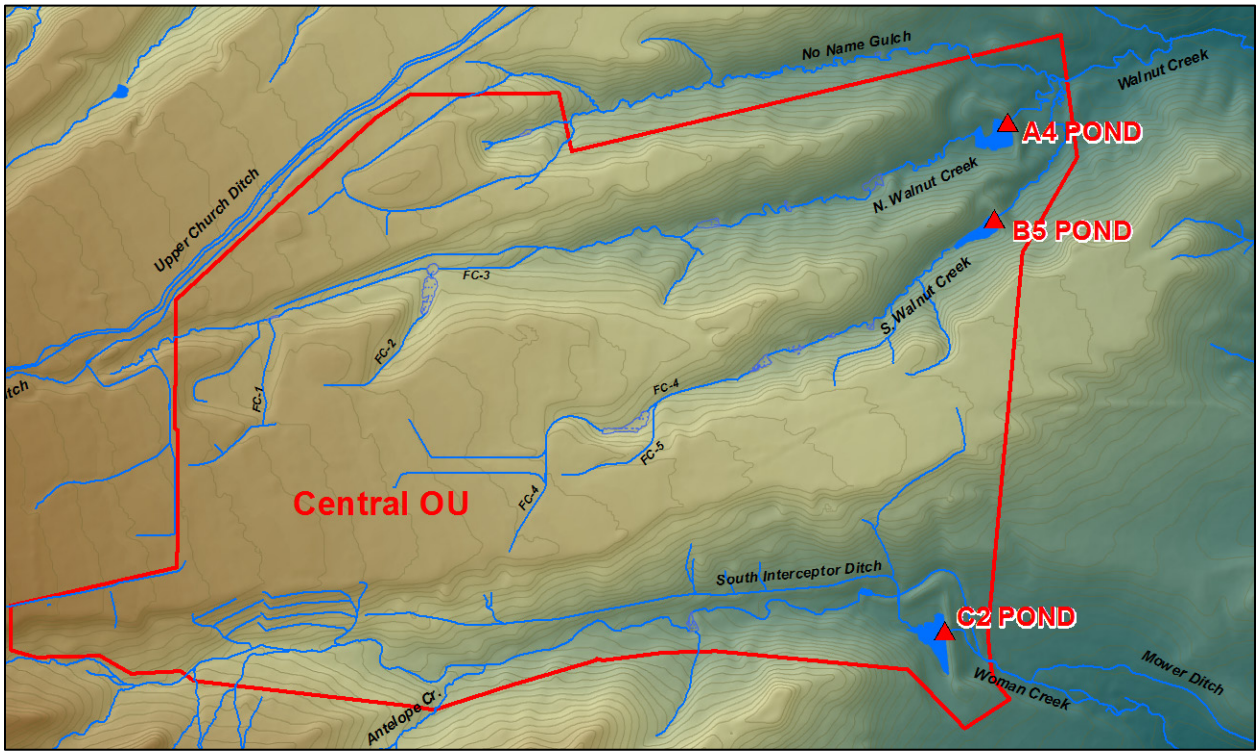


Figure 1. Pre-Discharge Monitoring Locations

3.2 Targeted Groundwater Monitoring

The AMP targeted groundwater monitoring wells (Figure 2) are the same as the RFLMA Area of Concern (AOC) wells and are located within a drainage and downgradient of a contaminant plume or group of contaminant plumes. Water quality data are collected to determine whether plumes are discharging to surface water. These AOC wells are sampled semiannually in the second and fourth calendar quarters.

Data from these wells are evaluated in the RFLMA annual report according to the Figure 7 flowchart in Attachment 2 to the RFLMA. Analytical data undergo preliminary evaluation as data become available; this is necessary because of the strict timeline attached to "reportable conditions" for AOC wells. In accordance with and as defined in the RFLMA, if the data are confirmed to be valid and meet the requirements of a reportable condition, the reporting process under RFLMA is initiated. No reportable conditions were triggered in 2014. The RFLMA annual report for 2014 will include results of data evaluations and discussions of groundwater quality in these wells.

These wells were sampled for their routine RFLMA analytes between April 17 and June 6, 2014 (to meet the second-quarter CY 2014 requirements), and between October 16 and December 10, 2014 (to meet the fourth-quarter CY 2014 requirements).

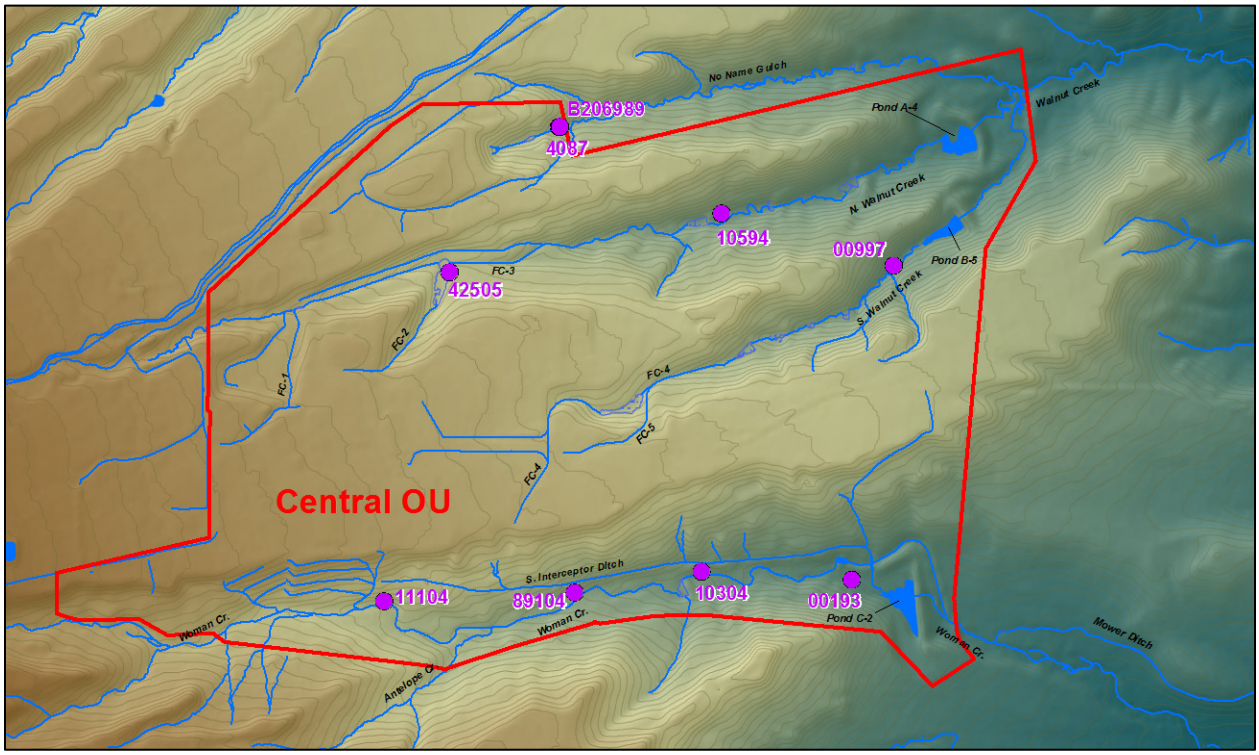


Figure 2. Targeted Groundwater Monitoring Locations

3.3 Monitoring to Evaluate Flow-Through Operations at Terminal Ponds A-4, B-5, and C-2

This objective involves collecting water quality data during flow-through operations to simulate post-breach conditions to determine if water leaving the COU will meet water quality standards after the terminal dams are breached. The specific locations are shown in Figure 3.

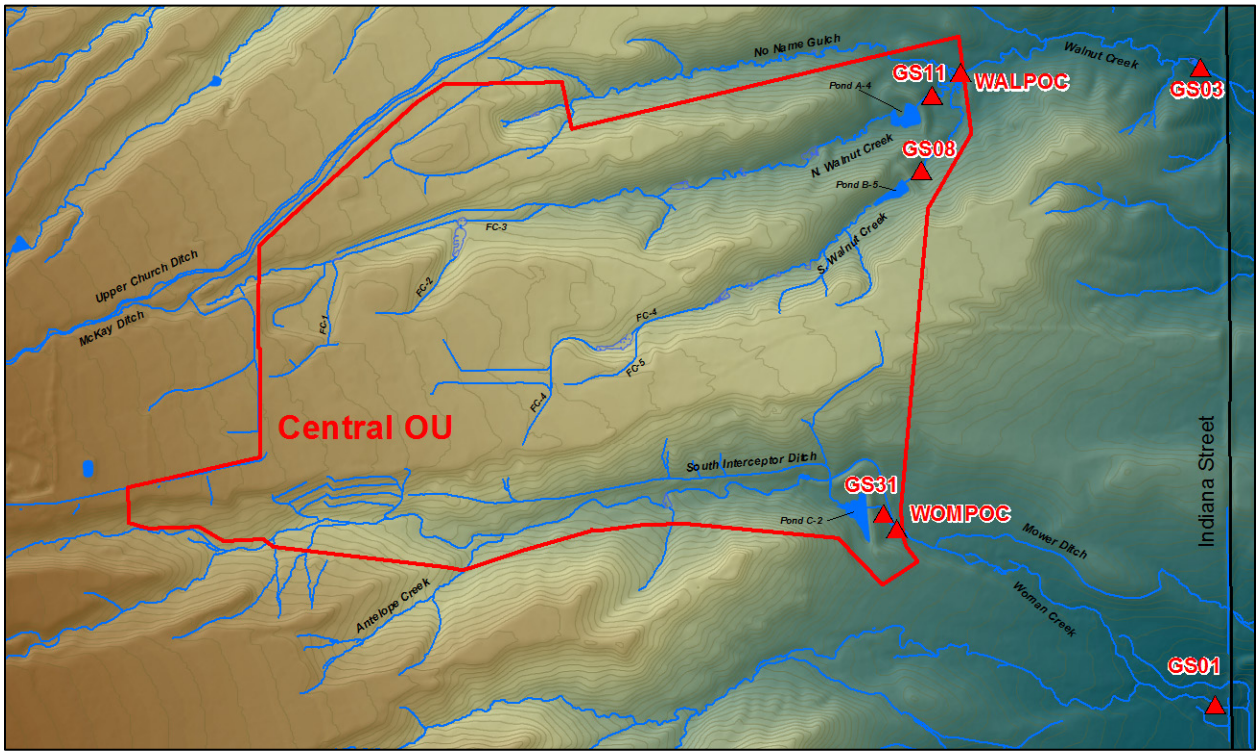


Figure 3. Flow-Through Operations Monitoring Locations

The two POCs at the COU boundary, WALPOC and WOMPOC, became operational on September 9, 2011, and September 28, 2011, respectively. Flow-through operation of Ponds A-4 and B-5 began on September 12, 2011; this was also the first day of flow at WALPOC. Flow-through operation of Pond C-2 began on November 7, 2011. WOMPOC first began measuring flow from Woman Creek on October 14, 2011.

During CY 2014, Ponds A-4 (GS11) and B-5 (GS08) discharged continuously until June 18, 2014. Most of this discharge was sustained baseflow caused by the unusually large groundwater recharge resulting from the September 2013 flood event. Water levels remained below the elevated outlet works (which are positioned at levels corresponding to approximately 10 percent of volume at both ponds) until a significant runoff event on July 30, 2014. Discharge from both ponds had again stopped by August 14, 2014. Discharge from Pond B-5 was intermittent in September, eventually becoming sustained in mid-October through the end of the year. Pond A-4 resumed discharging in mid-November through the end of the year.

Pond C-2 (GS31) discharged continuously until April 2014. Discharge was intermittent though mid-June, depending on whether the pool level reached the outlet (i.e., a position that corresponds to approximately 2 percent of volume at the pond) due to groundwater seepage entering the pond. There was no discharge for the period June 14 through July 29, 2014. The same July runoff event noted above resulted in 7 days of flow from C-2, but no flow from the South Interceptor Ditch entered C-2 during this period. There was again no discharge from C-2 until the end of September 2014; discharge has been continuous since that time.

Table 1 summarizes the flow and sampling conditions for each location as of the end of January 2015.

Table 1. Flow and Sampling Detail for Flow-Through Monitoring Locations

Location	Latest Flow[a]	Latest Available Composite Sample Results	Current Composite Sample In Progress
GS08	Currently flowing	10/15–12/11/14	12/11/14–
GS11	Currently flowing	5/20–8/18/14	8/18/14–
WALPOC	Currently flowing	10/23/14–1/6/15	1/6/15–
GS03	Currently flowing	7/10–8/12/14	8/12/14–
GS31	Currently flowing	10/13–11/24/14	1/6/15–
WOMPOC	Currently flowing	12/10/14–1/6/15	1/6/15–
GS01	Currently flowing	10/23–12/10/14	1/8/15–

Notes:
[a] As of February 6, 2015.
Analytical data for GS03 is available to August 12, 2014. However, since there was no flow at GS03 from August 12, 2014 through January 5, 2015, 12-month and 30-day averages can still be calculated through January 5, 2015.
Similarly, analytical data for GS11 is available to August 18, 2014. However, since there was no flow at GS11 from August 14 through November 16, 2014, 12-month and 30-day averages can still be calculated through November 16, 2014.

Table 2 presents long-term volume-weighted averages in Walnut Creek for the post-closure batch release period (October 2005 to September 2011) and the period since flow-through pond operations began (September 2011 to the present). Figure 4 through Figure 11 present the 30-day and 12-month rolling averages for each location, analyte, and time period.[1, 2]

The plots show that plutonium (Pu) and americium (Am) activities are comparable for the periods before and after initiation of flow-through operations. Some increased variability is noted, but activities remain well below the 0.15 picocurie per liter (pCi/L) water-quality standard.

However, both uranium and nitrate show increases in Walnut Creek due to the dry period from the spring of 2012 to the spring of 2013. At the locations listed above, normally more than half the annual flow is measured during the March through May period. Runoff during this period reduces the proportion of groundwater in creek flows. Since uranium and nitrate at the Site are generally associated with groundwater seepage to the creeks, the normal spring runoff also reduces uranium and nitrate concentrations.

[1] The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location-specific (i.e., POCs, POEs) and is not part of this AMP report. Evaluation of sampling results as required by RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements.
[2] Due to the interruptions in automated sampling and the corresponding lack of analytical data for some periods during the September 2013 flood, for comparison purposes the start of the high runoff (generally late on September 11, 2013) through September 13, 2013, is not included in the evaluation in this section. Additionally, some data are estimated for the comparison herein; under normal RFLMA data evaluation protocols, these data would not be included.

Increases are also noted for several months following the September 2013 flood event. This extreme event resulted in the infiltration of unusually large volumes of highly oxygenated water. This water subsequently increased the volumes of groundwater reaching the creeks from seepage, thereby sustaining high baseflow for an extended period. In addition, this oxygenated water enhanced the transport of uranium and nitrate. An extensive geochemistry study is being completed that examines the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report is in final review.

During batch operations, water is accumulated in the ponds for several months, effectively mixing water with differing concentrations into a homogeneous volume. Therefore, flow-through 12-month rolling averages are expected to show month-to-month variability comparable to that of batch operations. Conversely, flow-through 30-day averages are expected to show increased day-to-day variability since water is no longer being batched prior to discharge.

Table 2. Volume-Weighted Averages for Walnut Creek Flow-Through Monitoring Locations

Walnut Creek: October 2005 - September 2011 (Batch Release)

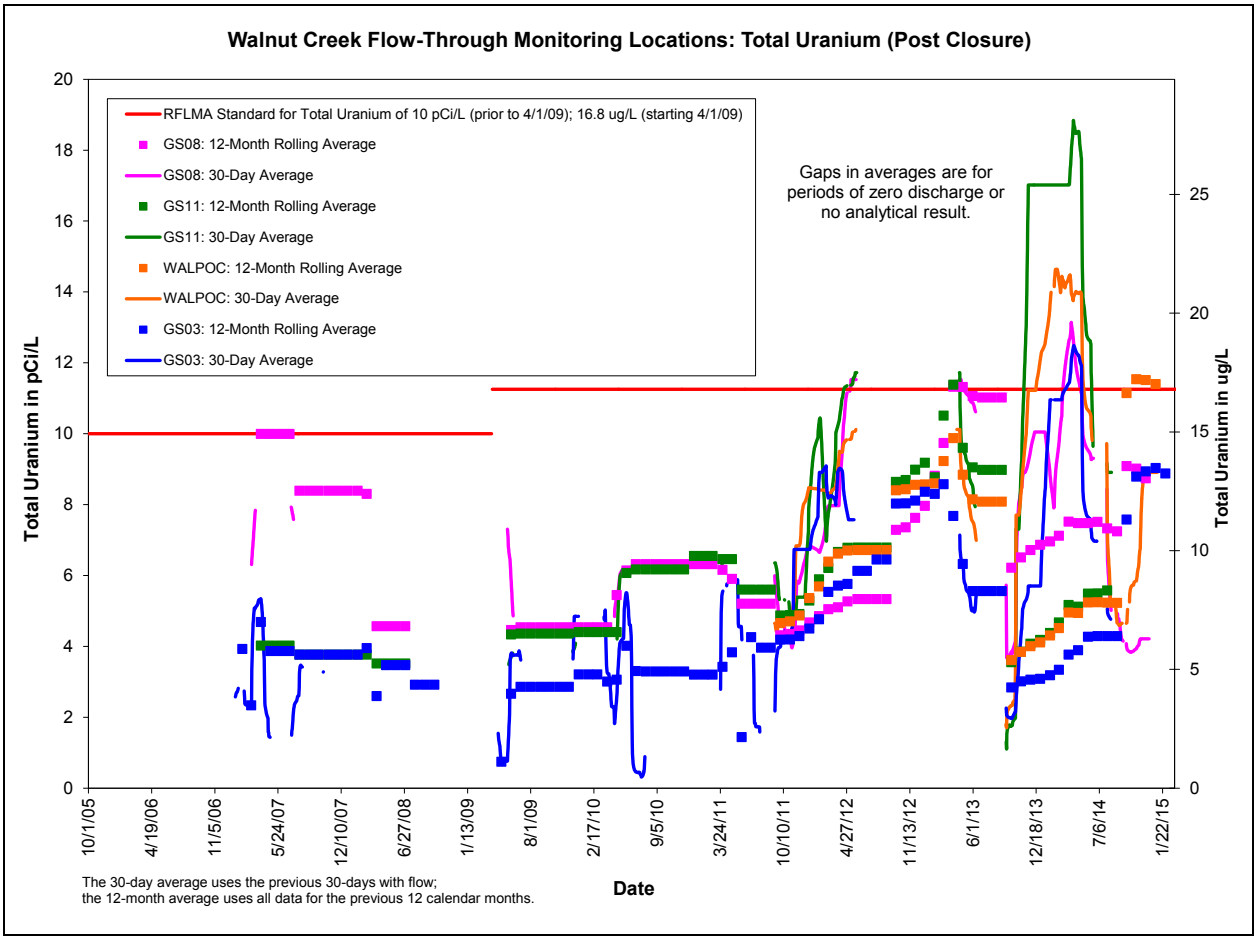
		Uranium (ug/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)		NO2+NO3 as N (mg/L)	
	Location Code	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS08 / GS11	8.8 / 7.6	33 / 36	0.004 / 0.004	33 / 36	0.003 / 0.003	33 / 36	2.79 [GS11 only]	36
Downstream	GS03	4.9	68	0.006	68	0.004	68	0.94	43

Walnut Creek: September 2011 - Present (Flow-Through)

		Uranium (ug/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)		NO2+NO3 as N (mg/L)	
	Location Code	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS08 / GS11	11.4 / 9.7	24 / 18	0.012 / 0.012	24 / 18	0.012 / 0.01	24 / 18	4.59 [GS11 only]	18
⬇	WALPOC	10.8	32	0.013	32	0.009	32	2.65	32
Downstream	GS03	7.4	29	0.012	29	0.009	29	2.04	27

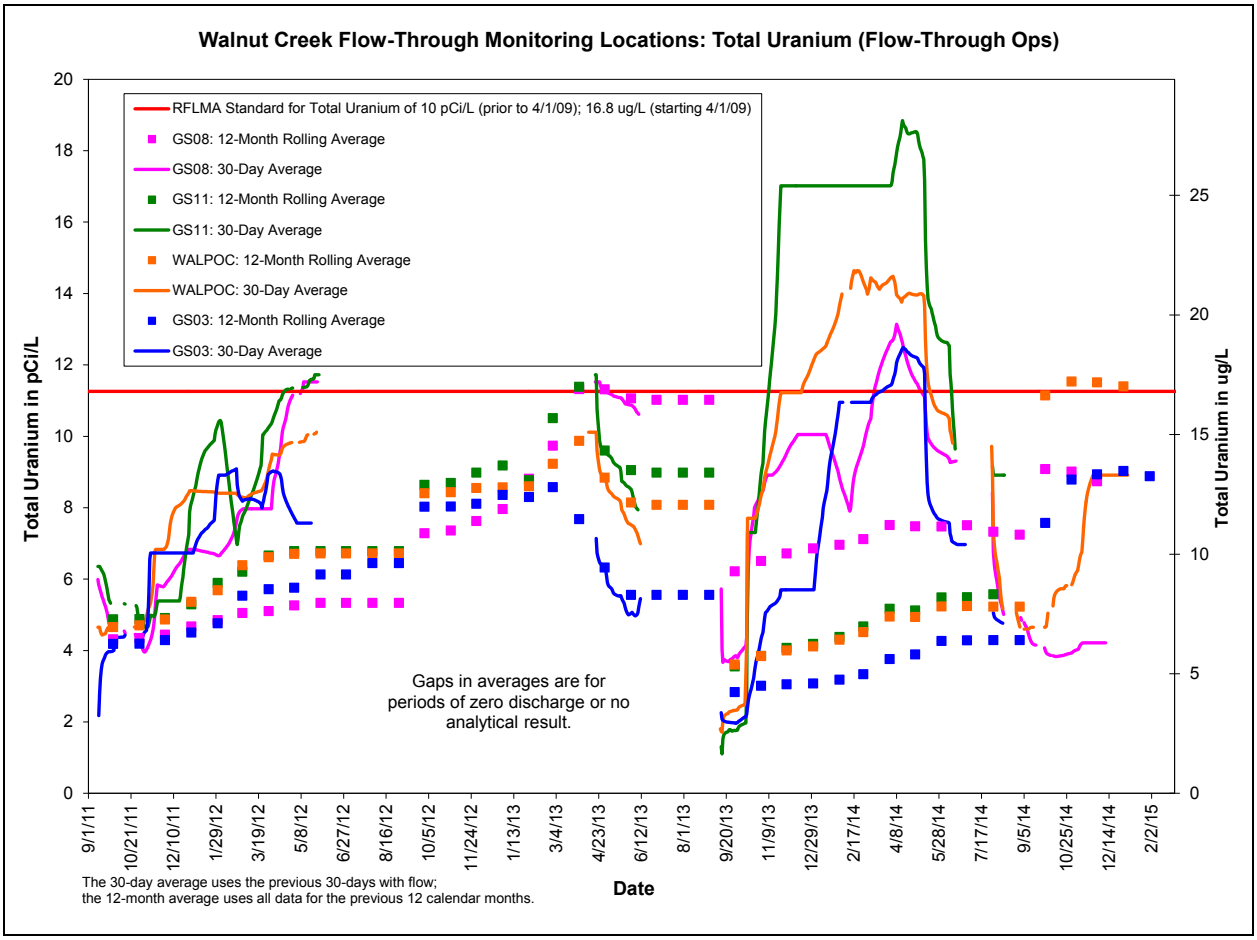
Notes:
Sample counts vary because composite sampling periods vary with water availability.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).
No Name Gulch is a tributary to Walnut Creek, just upstream of WALPOC; any water that flows in No Name Gulch and reaches Walnut Creek could affect water quality at WALPOC.

Abbreviations:
ug/L = µg/L = micrograms per liter
mg/L = milligrams per liter
N = nitrogen
NO2 = nitrite
NO3 = nitrate



Abbreviations:
ug/L = µg/L = micrograms per liter
pCi/L = picocurie per liter; after April 1, 2009, the ug/L results are shown as pCi/L using the conversion
1 ug/L = 0.67 pCi/L

Figure 4. Running Uranium Averages at Walnut Creek Flow-Through Locations: Post-Closure Period



Abbreviations:
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pCi/L = picocurie per liter; after April 1, 2009, the ug/L results are shown as pCi/L using the conversion
1 ug/L = 0.67 pCi/L

Figure 5. Running Uranium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period

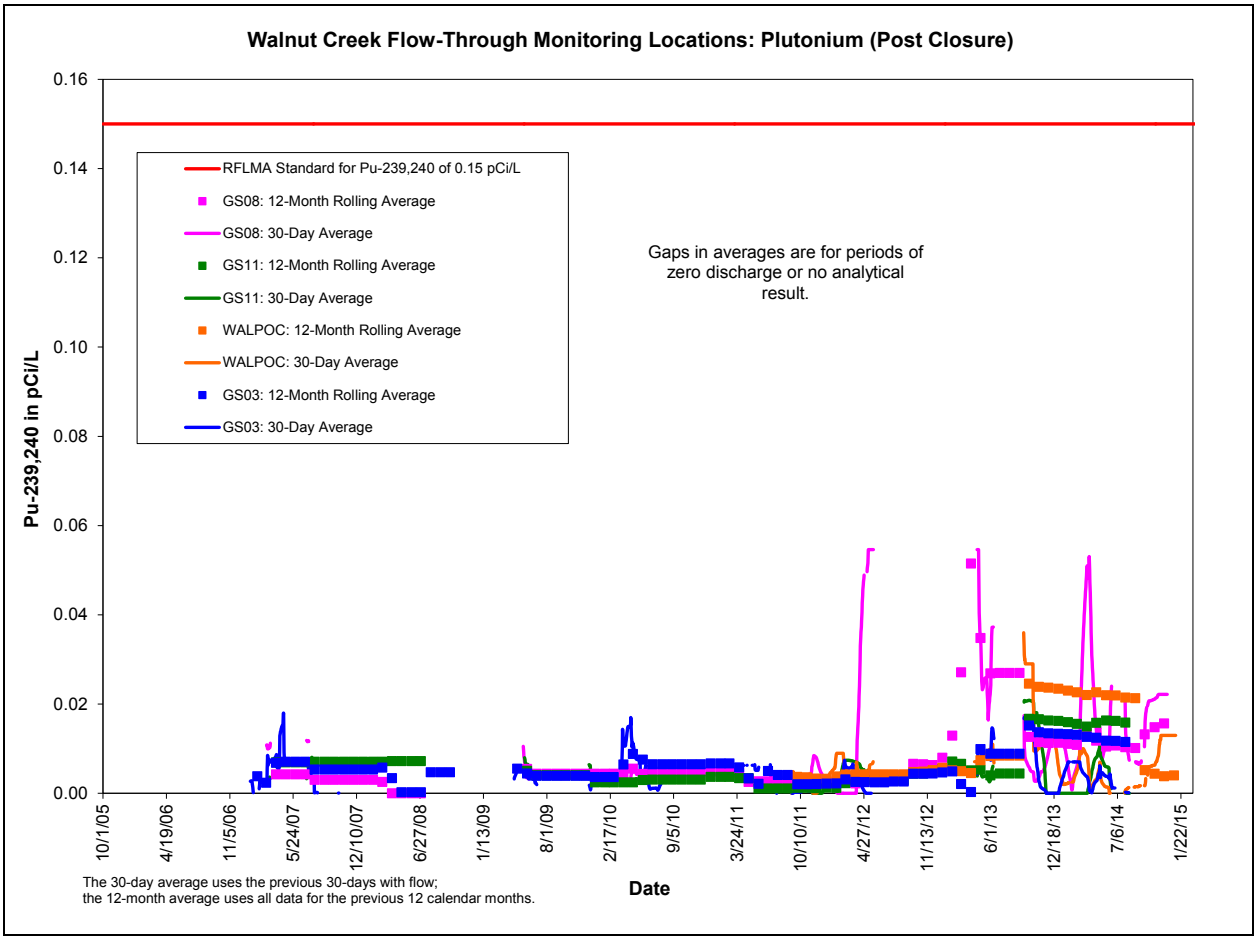


Figure 6. Running Plutonium Averages at Walnut Creek Flow-Through Locations: Post-Closure Period

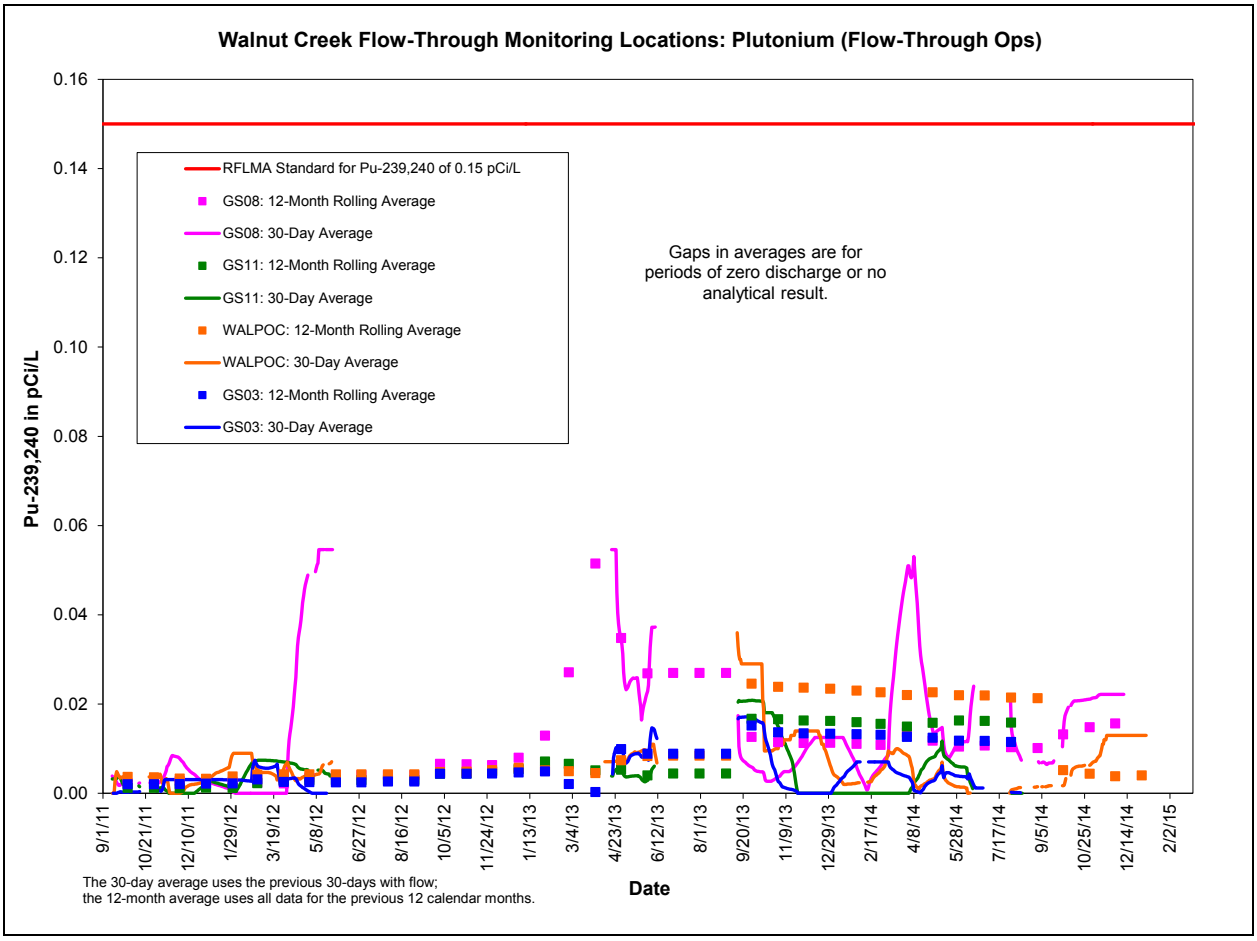


Figure 7. Running Plutonium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period

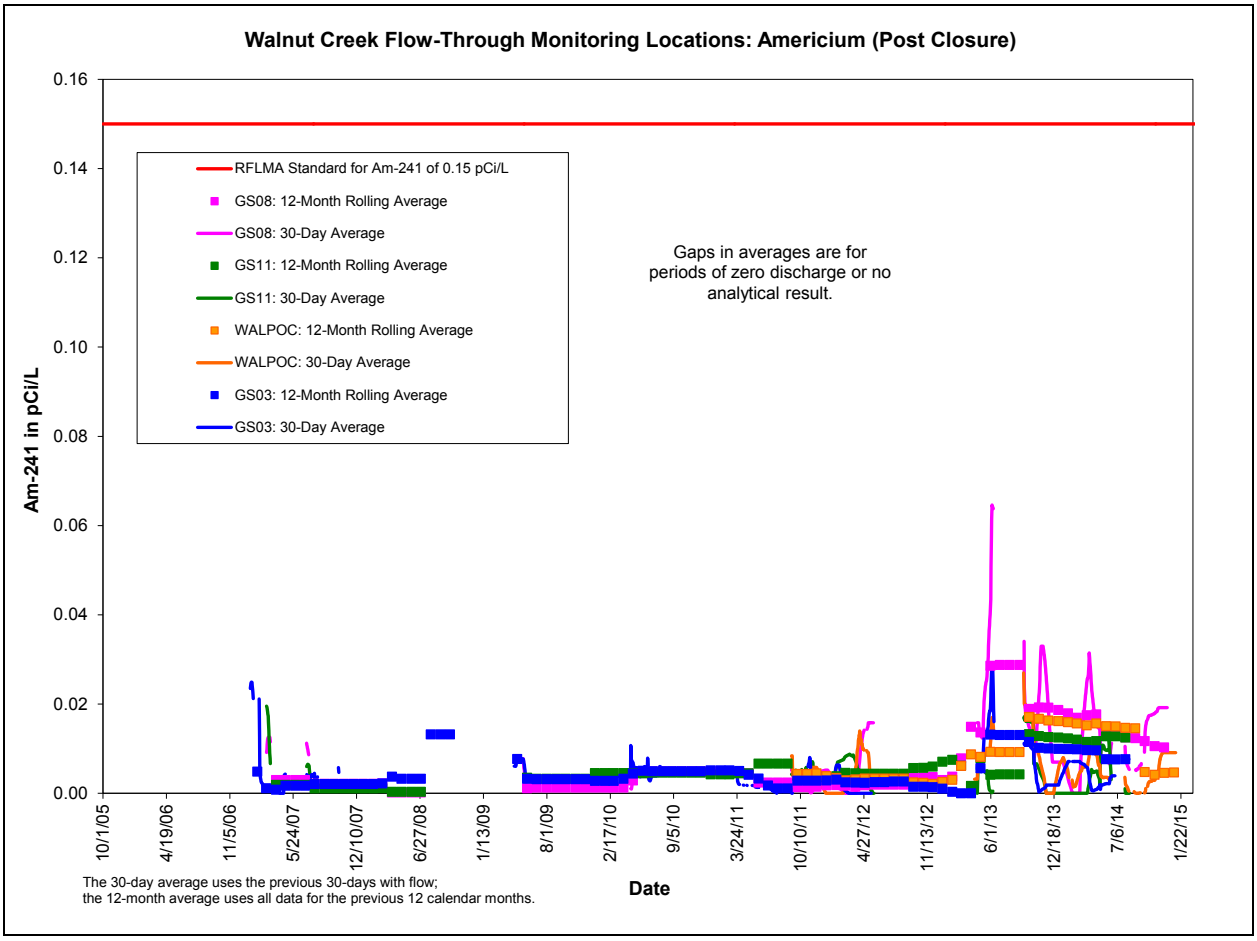


Figure 8. Running Americium Averages at Walnut Creek Flow-Through Locations: Post-Closure Period

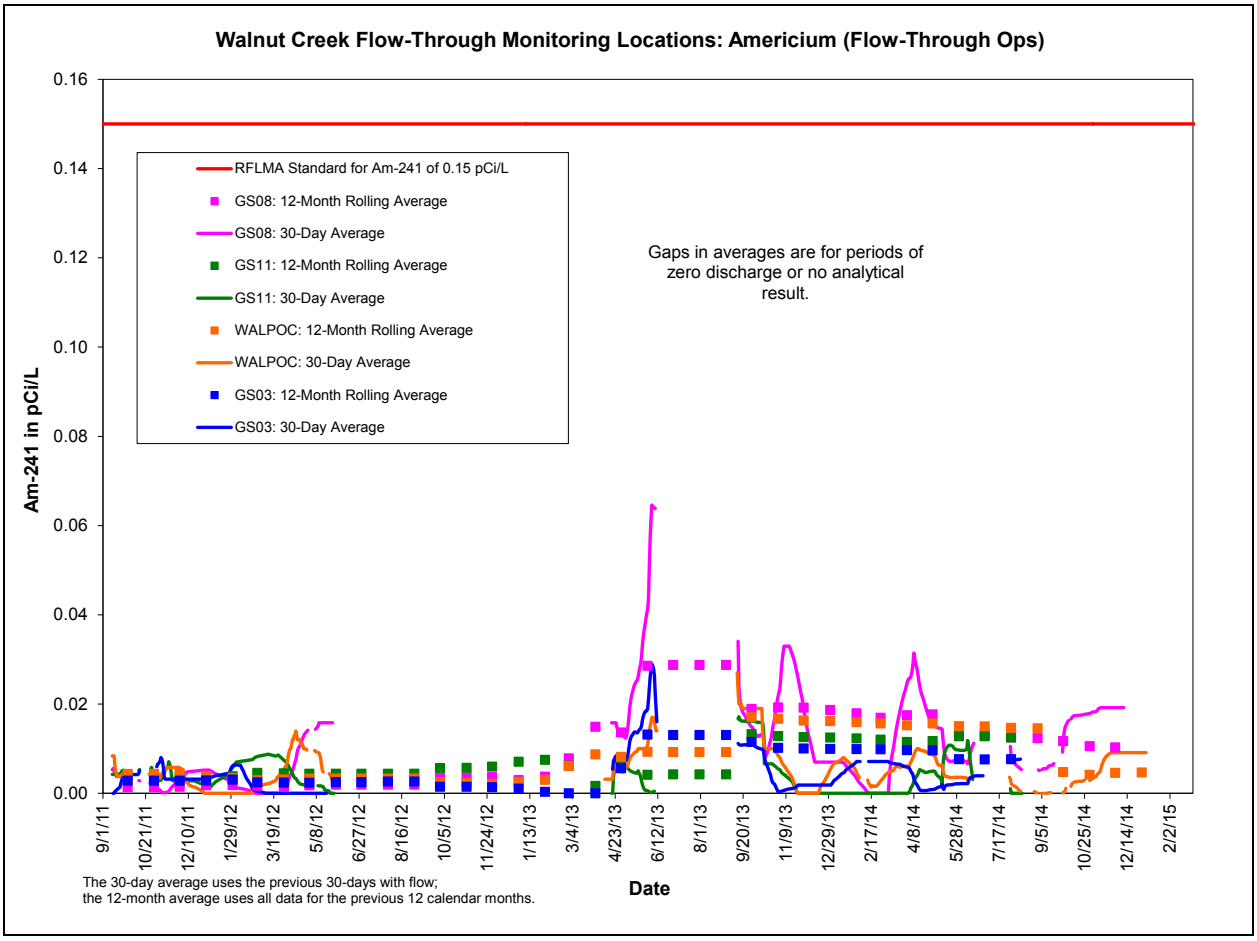
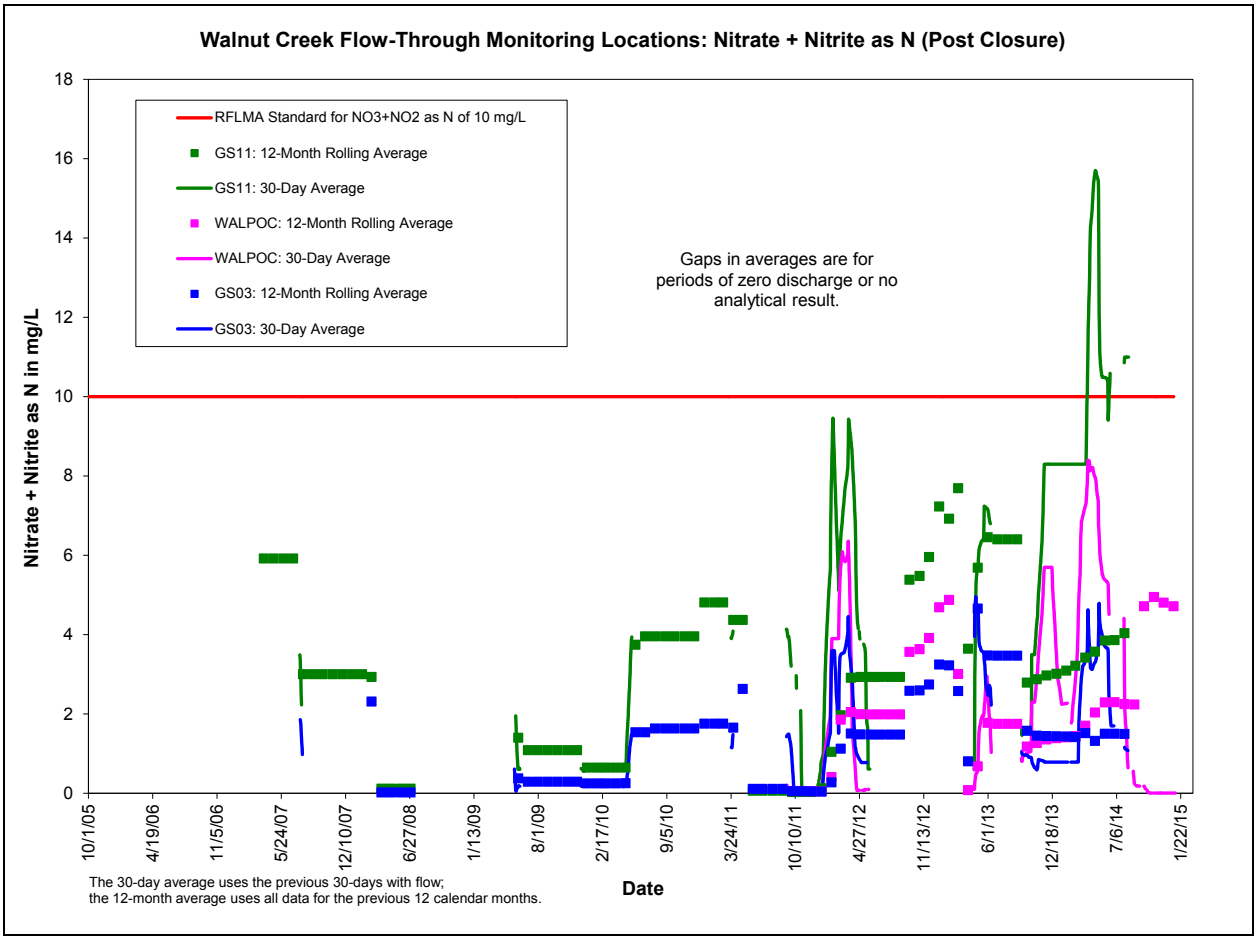
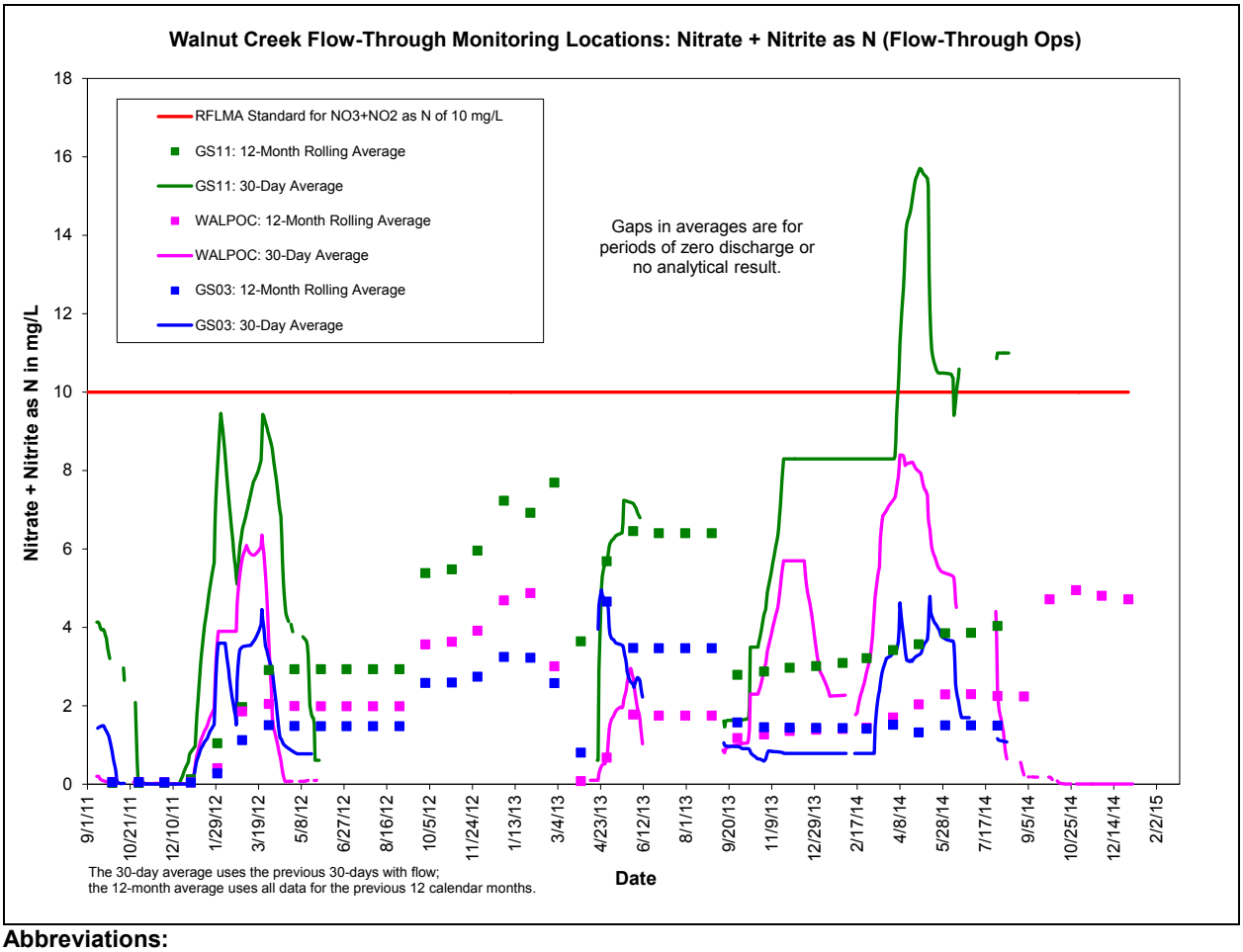


Figure 9. Running Americium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period



Abbreviations:
mg/L = milligrams per liter

Figure 10. Running Nitrate + Nitrite as Nitrogen Averages at Walnut Creek Flow-Through Locations: Post-Closure Period



Abbreviations:
mg/L = milligrams per liter

Figure 11. Running Nitrate + Nitrite as Nitrogen Averages at Walnut Creek Flow-Through Locations: Flow-Through Period

Table 3 presents long-term volume-weighted averages in Woman Creek for the post-closure batch release period (October 2005 to November 2011) and the period since flow-through pond operations began (November 2011 to the present). Figure 12 through Figure 17 present the 30-day and 12-month rolling averages for each location, analyte, and time period.[3]

The plots clearly show that water quality is comparable and remains below applicable standards for batch and flow-through conditions. As discussed for Walnut Creek, flow-through 12-month rolling averages are expected to show month-to-month variability comparable to that of batch operations. Conversely, flow-through 30-day averages are expected to show increased day-to-day variability since water is no longer being batched and mixed prior to discharge.

[3] The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location-specific (i.e., POCs, POEs) and is not part of this AMP report. Evaluation of sampling results as required by RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements.

Table 3. Volume-Weighted Averages for Woman Creek Flow-Through Monitoring Locations

Woman Creek: October 2005 - November 2011 (Batch Release)

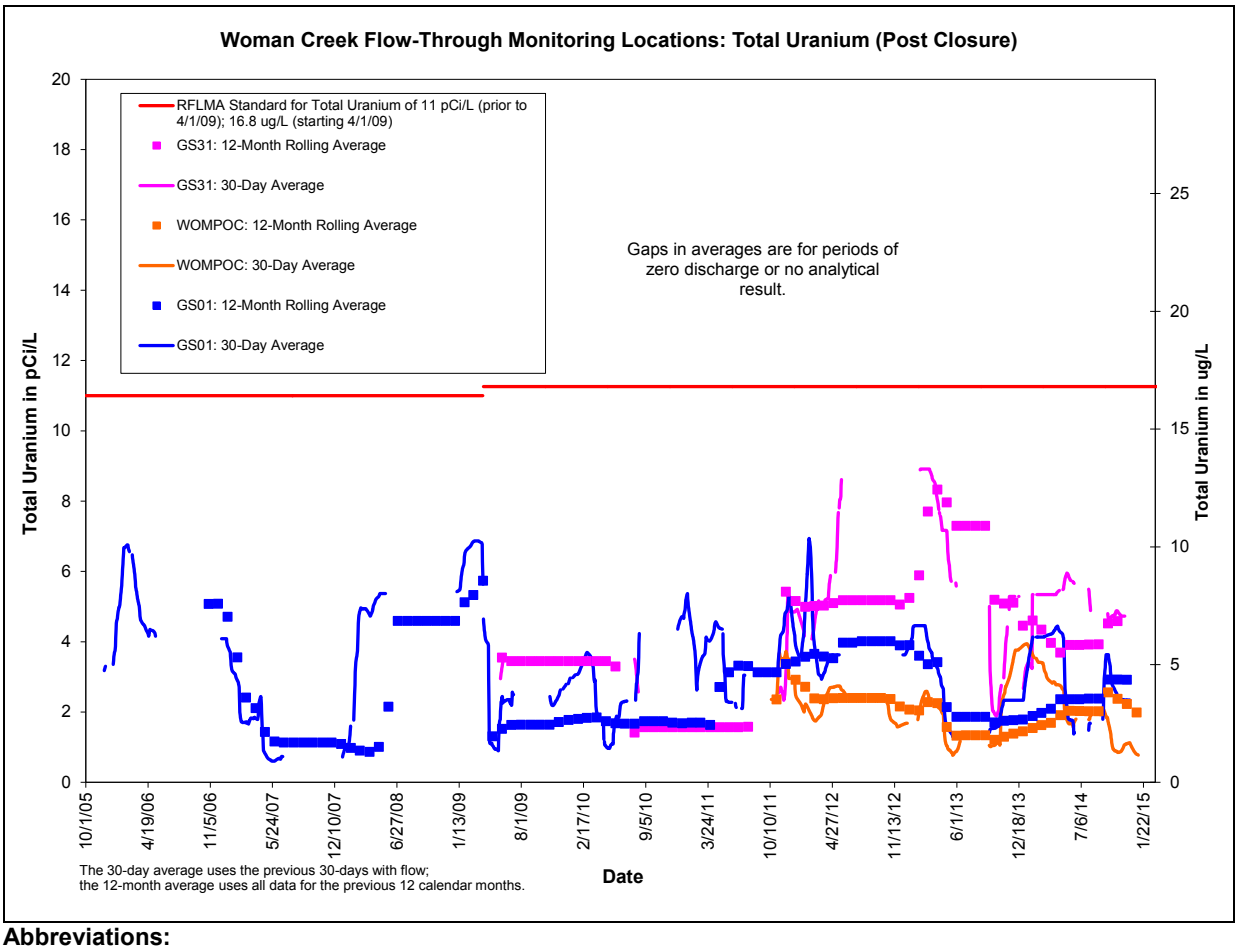
		Uranium (ug/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)	
	Location Code	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS31	4.1	12	0.007	12	0.004	12
Downstream	GS01	2.3	95	0.007	95	0.004	95

Woman Creek: November 2011 - Present (Flow-Through)

		Uranium (ug/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)	
	Location Code	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS31	7.7	15	0.014	15	0.005	15
⬇	WOMPOC	2.8	48	0.006	48	0.004	48
Downstream	GS01	3.9	30	0.007	30	0.003	30

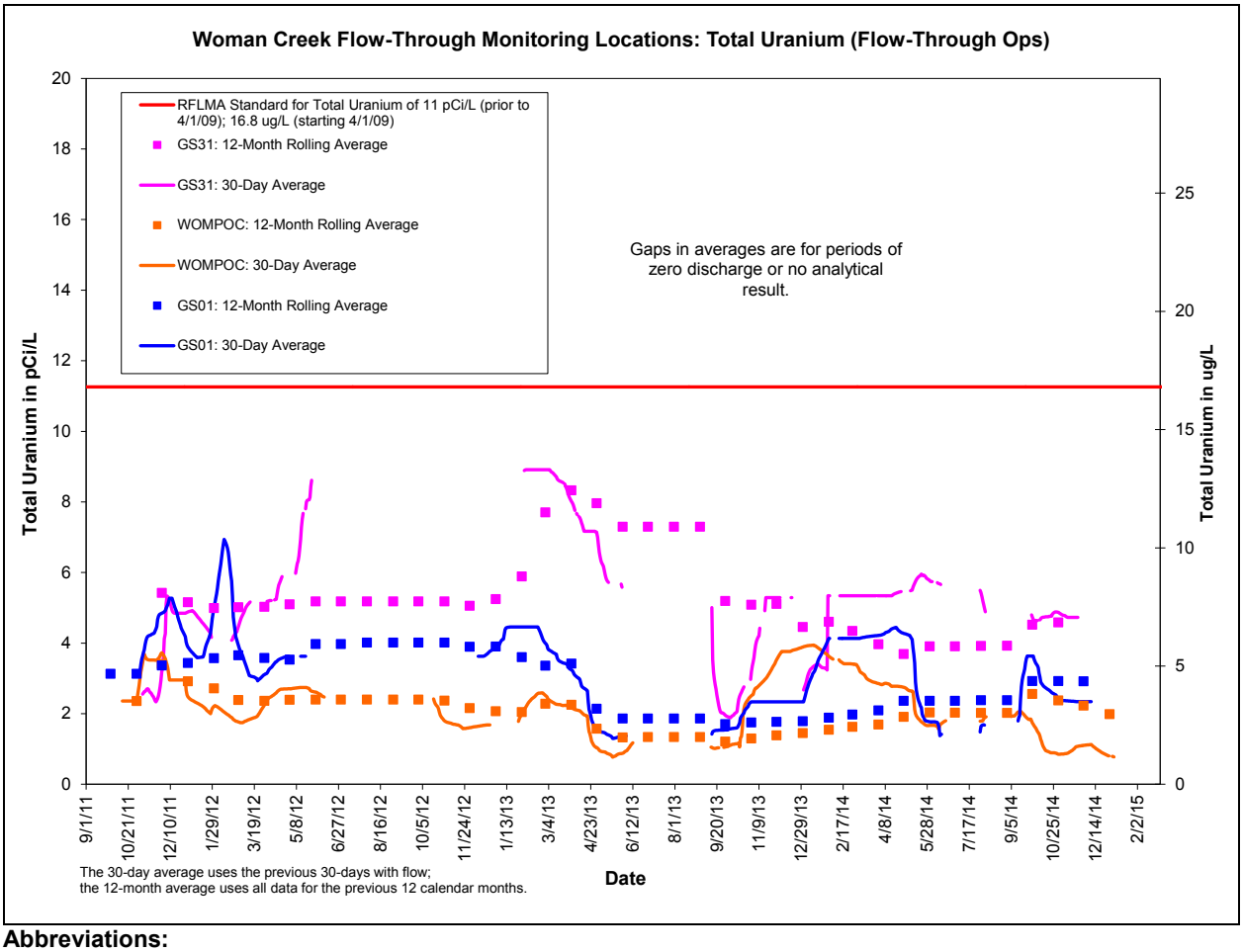
Notes:
Sample counts vary because composite sampling periods vary with water availability.

Abbreviations:
ug/L = µg/L = micrograms per liter



Abbreviations:
ug/L = µg/L = micrograms per liter
pCi/L = picocurie per liter; after April 1, 2009, the ug/L results are shown as pCi/L using the conversion
1 ug/L = 0.67 pCi/L

Figure 12. Running Uranium Averages at Woman Creek Flow-Through Locations: Post-Closure Period



Abbreviations:
ug/L = µg/L = micrograms per liter
pCi/L = picocurie per liter; after April 1, 2009, the ug/L results are shown as pCi/L using the conversion
1 ug/L = 0.67 pCi/L

Figure 13. Running Uranium Averages at Woman Creek Flow-Through Locations: Flow-Through Period

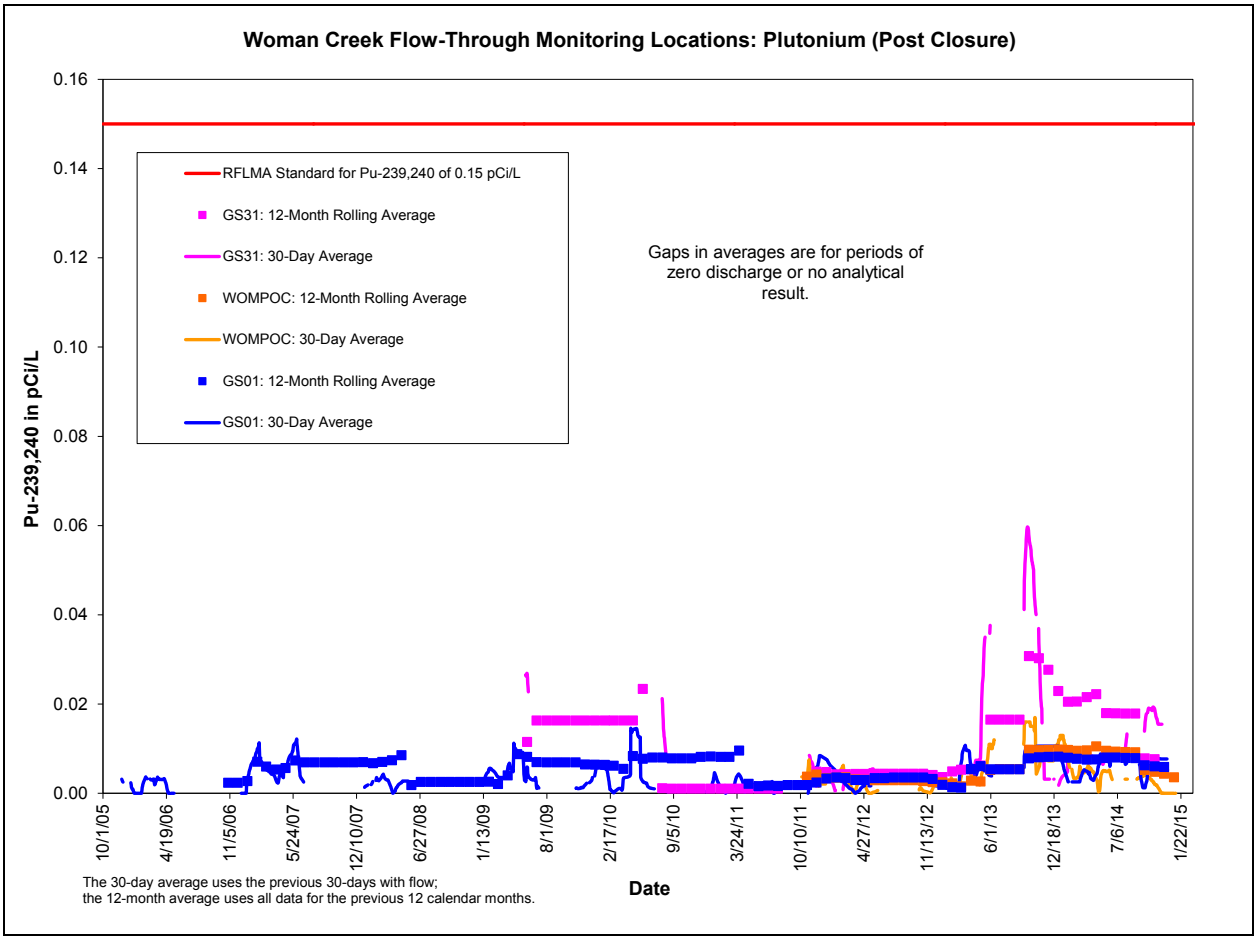


Figure 14. Running Plutonium Averages at Woman Creek Flow-Through Locations: Post-Closure Period

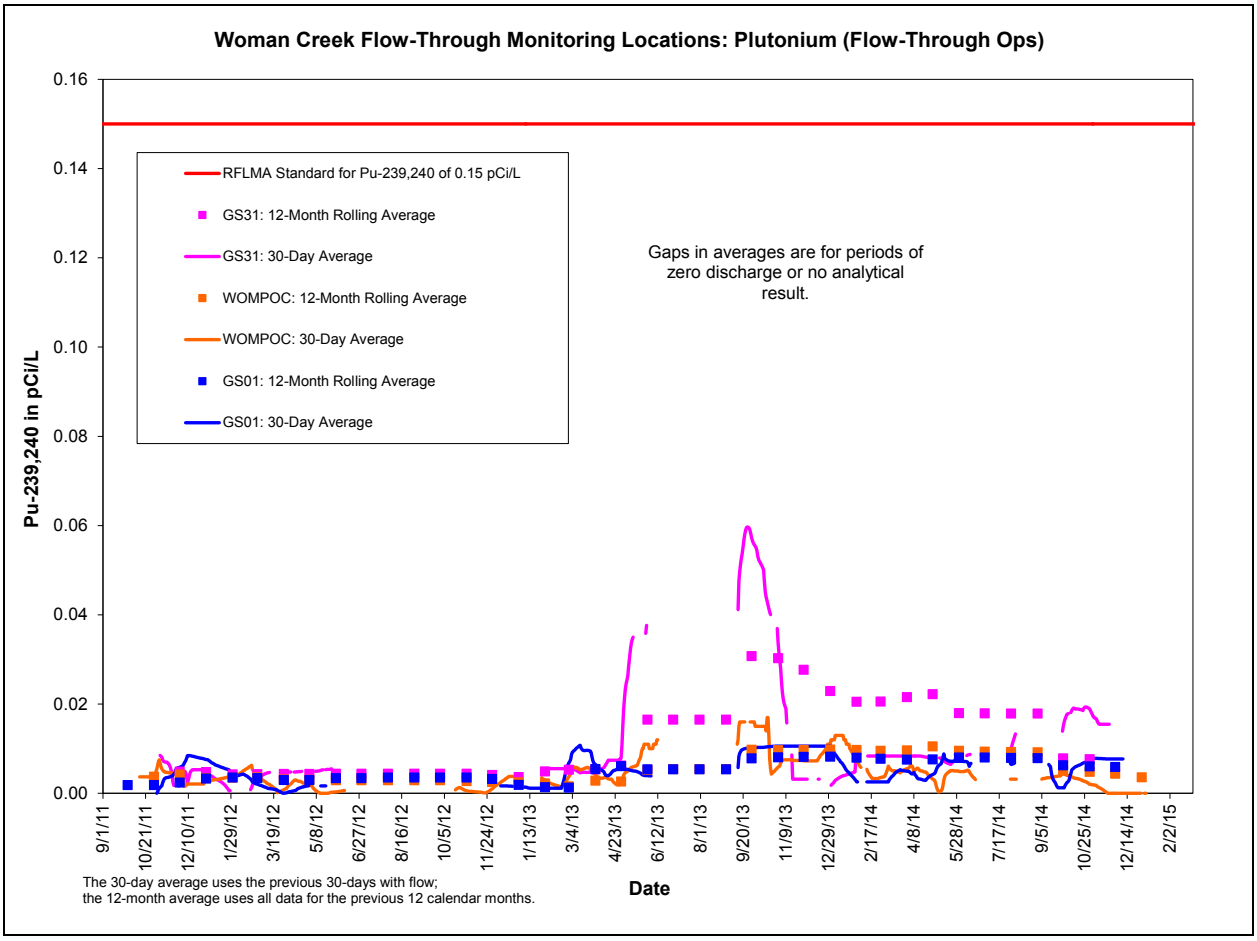


Figure 15. Running Plutonium Averages at Woman Creek Flow-Through Locations: Flow-Through Period

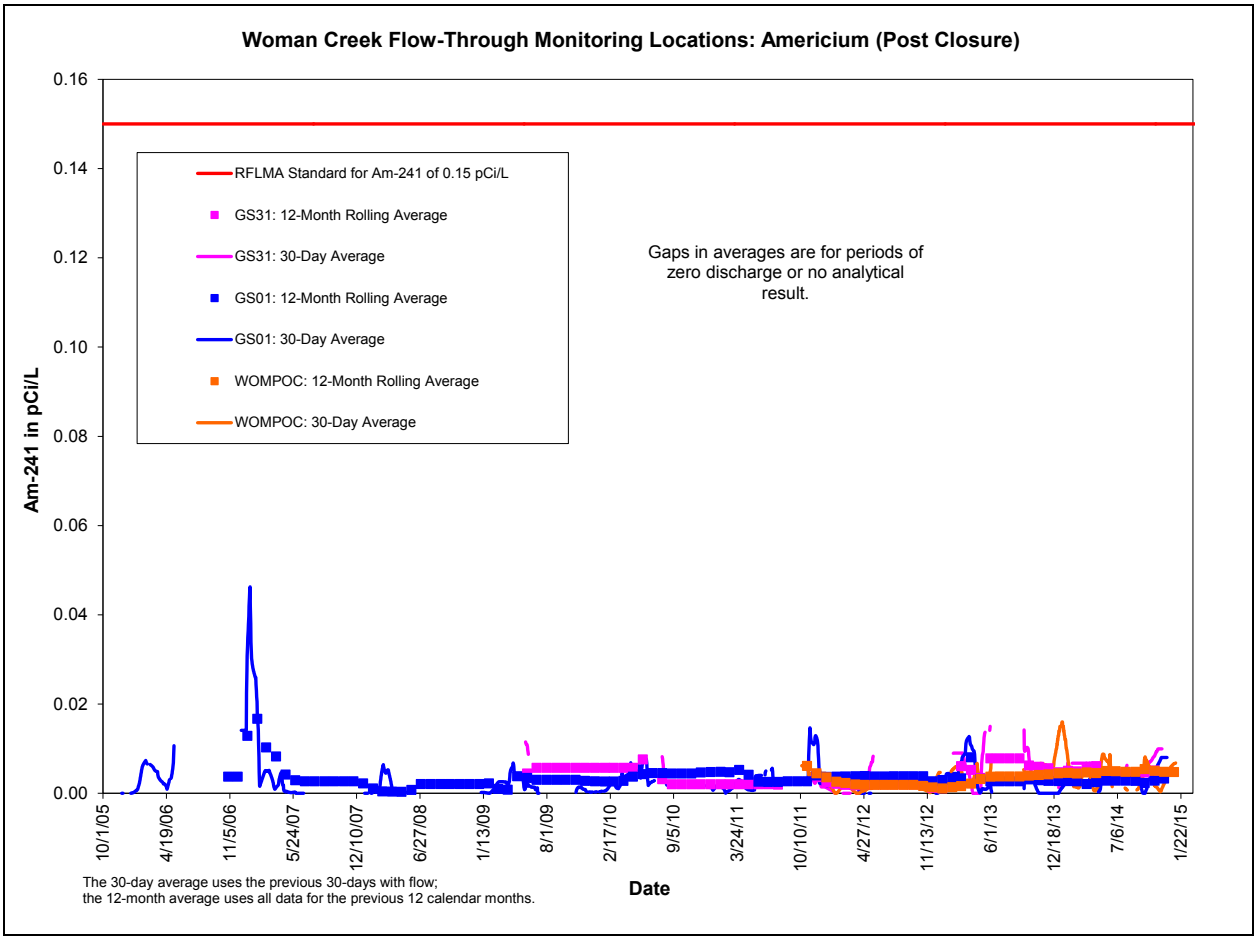


Figure 16. Running Americium Averages at Woman Creek Flow-Through Locations: Post-Closure Period

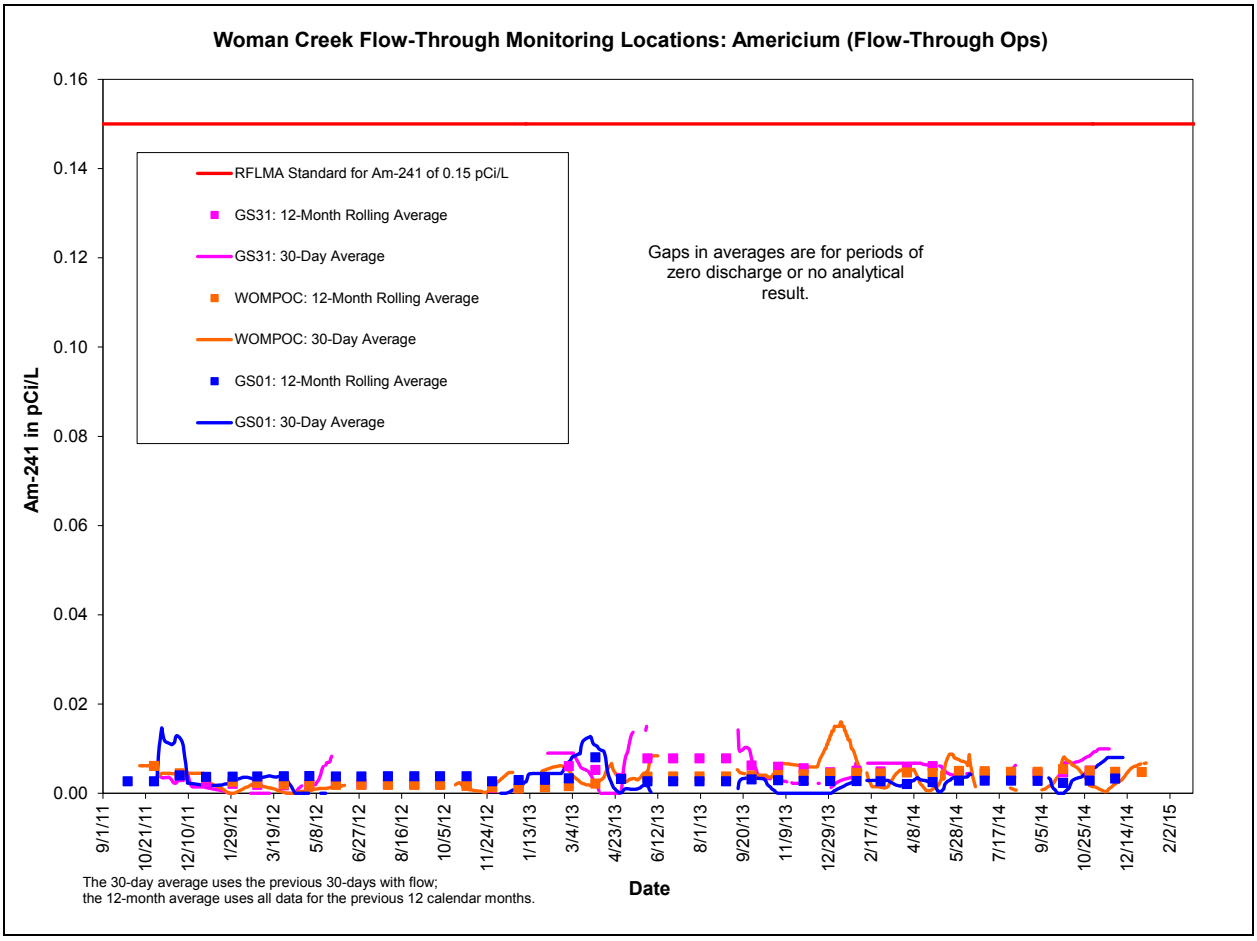


Figure 17. Running Americium Averages at Woman Creek Flow-Through Locations: Flow-Through Period

3.4 Storm-Event Monitoring

This objective involves collecting water quality data during runoff periods to assess actinide and solids transport. The intent is to develop correlations between flow rate and actinide concentrations and to further describe short-term, event-driven variability. In addition, these data can be used to assess the effectiveness of ongoing revegetation and erosion control practices. The specific location is shown in Figure 18 and Figure 19.

Storm-event monitoring equipment at GS31 at the Pond C-2 outlet was installed in spring 2012 to specifically evaluate water quality when runoff passes through Pond C-2 while being operated in a flow-through configuration. Details regarding sample collection methods can be found in Appendix I of the RFSOG (DOE 2013b).

During 2014, there were no significant runoff events at GS31 when SW027 was contributing flow to Pond C-2, and no storm-event samples were collected.

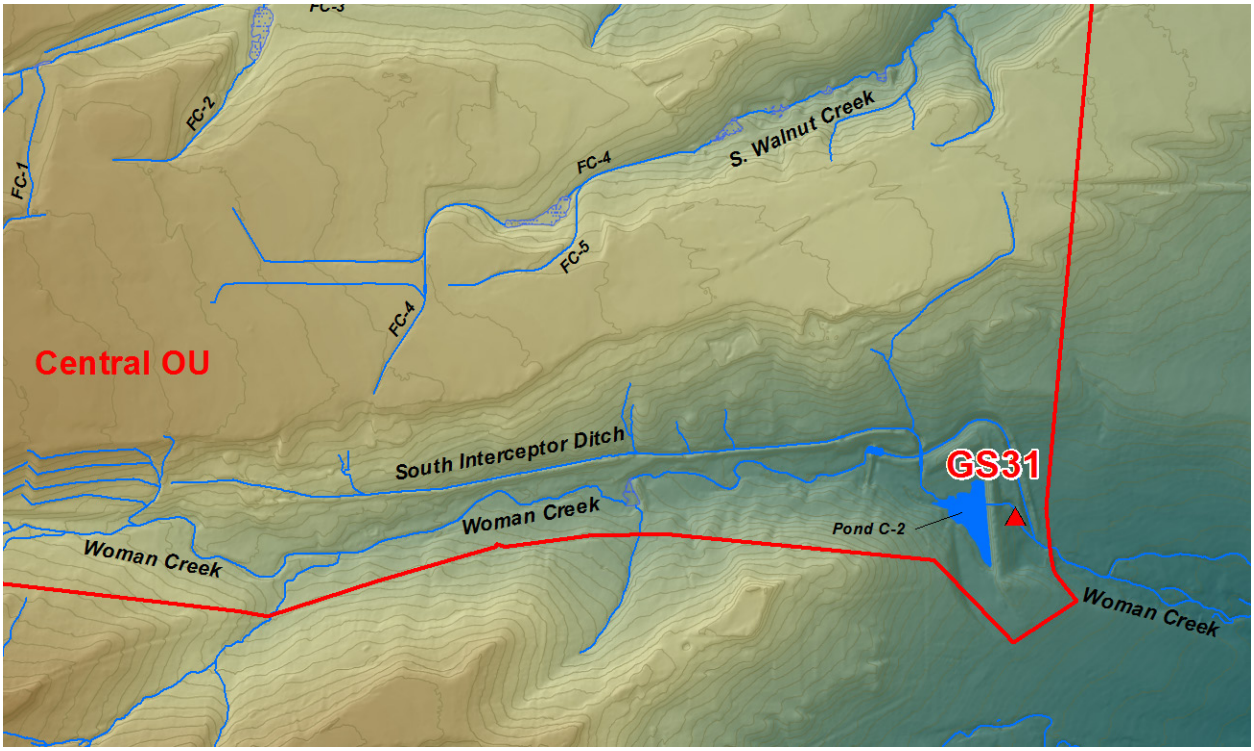


Figure 18. Storm-Event Monitoring Location GS31

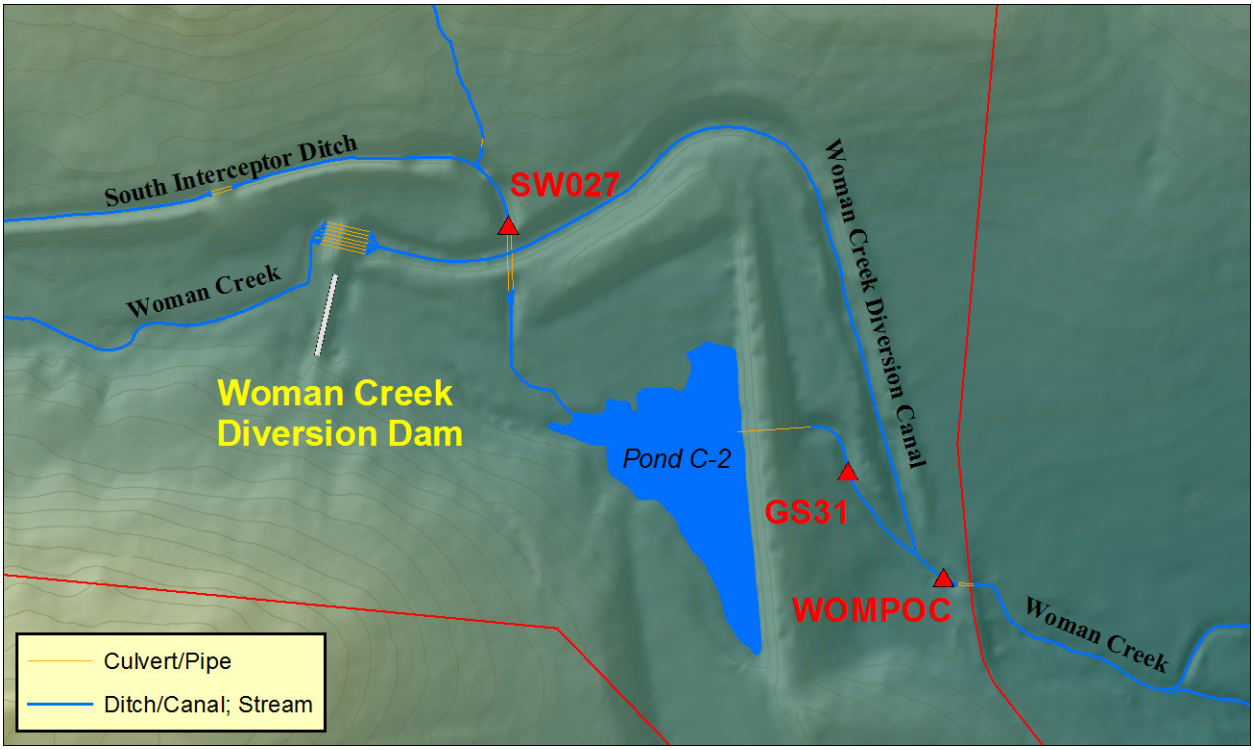
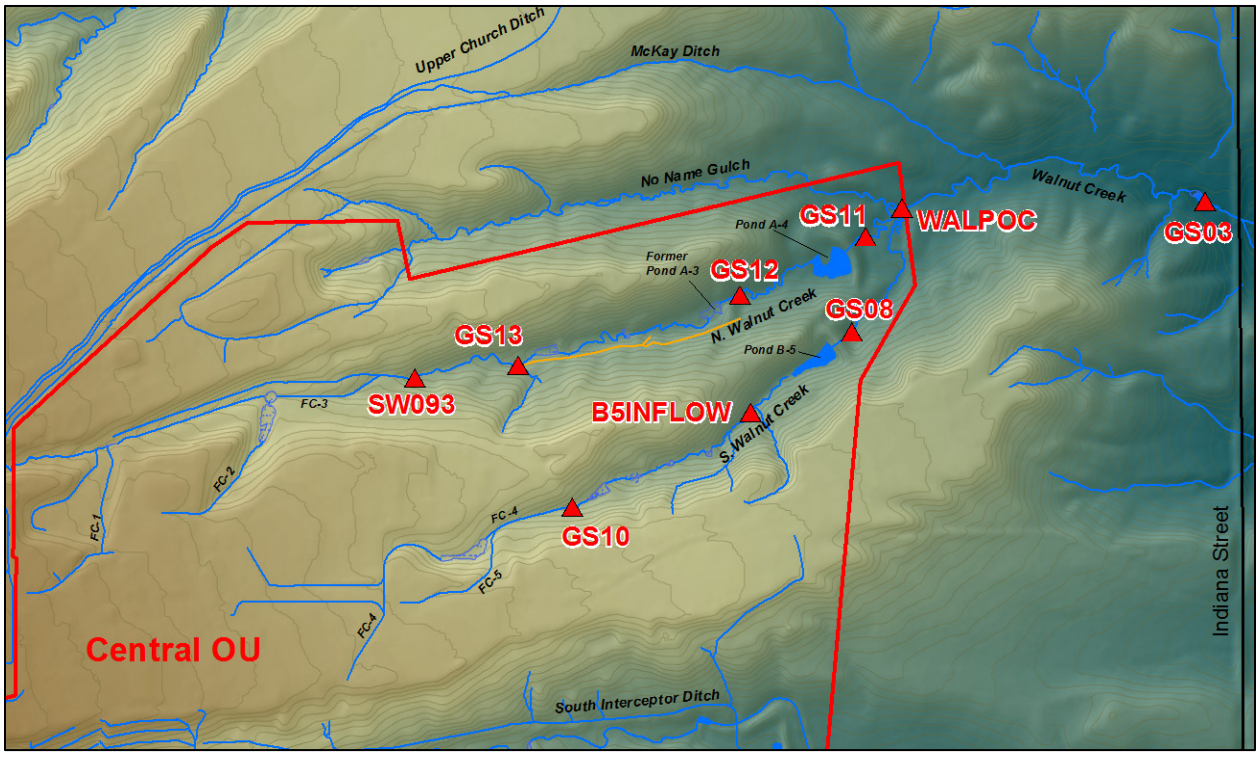


Figure 19. Detail Map for Storm-Event Monitoring Location GS31

3.5 Continuous Flow-Paced Composite Sampling to Evaluate Uranium Transport

This monitoring objective is intended to evaluate the in-stream transport of uranium, specifically for Ponds A-4 and B-5, by assessing correlations, patterns, variability, and loading. The monitoring locations currently supporting this objective are shown in Figure 20. Samples are collected as continuous flow-paced composites during all flow conditions. Sampling for this monitoring objective began on March 10, 2010, in North Walnut Creek and on June 16, 2010, in South Walnut Creek. Monitoring location WALPOC began operation on September 9, 2011. Therefore, this evaluation uses various periods starting on March 10, 2010; June 16, 2010; and September 9, 2011.



Notes:
The orange line shows the location of the A-Series Bypass Pipeline. See text for additional information.

Figure 20. Continuous Flow-Paced Composite Sampling Locations in Walnut Creek

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to support the Dam A-3 breach construction. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near GS12) until March 21, 2012. During this period, it is assumed that the quality and quantity of water when it entered the pipeline were the same as when it exited the pipeline.[4] Therefore, data collected at both GS13 and GS12 during this period have been combined to effectively summarize water quality *entering* Pond A-4, and not water quality *exiting* Pond A-3.

[4] This assumption has been confirmed by grab samples taken at GS13 and A4INFLOW during use of the pipeline; A4INFLOW is located just upstream of Pond A-4.

Table 4 through Table 6 show summary statistics for the three ongoing periods starting March 10, 2010; June 16, 2010; and September 9, 2011. The data show concentrations below the standard (16.8 micrograms per liter [µg/L]) at all locations other than GS10. In addition, all locations show concentrations below the 30 µg/L maximum concentration limit for uranium. Figure 21 uses proportional symbols to map the uranium concentrations since September 9, 2011 (see Table 6 for values).[5]

Table 4. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: Starting March 10, 2010

South Walnut Creek

	Location Code	Volume-Weighted Average	Sample Count
Upstream	GS10*	17.2	84
Downstream	GS08	9.7	41

North Walnut Creek

Volume-Weighted Average	Sample Count	Location Code	
6.6	74	SW093*	Upstream
11.7	61	GS13*	⬇
14.5	61	GS12 (A-4 inflow)	⬇
9.5	34	GS11	Downstream

Walnut Creek

Location Code	Volume-Weighted Average	Sample Count
GS03*	6.2	59

Notes:
* Data for GS10, SW093, and GS13 are currently acquired through the routine RFLMA-required monitoring at these locations.
Sample counts vary because composite sampling periods vary with water availability.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

Table 5. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: Starting June 16, 2010

South Walnut Creek

	Location Code	Volume-Weighted Average	Sample Count
Upstream	GS10*	18.4	75
⬇	B5INFLOW	12.3	45
Downstream	GS08	9.9	31

North Walnut Creek

Volume-Weighted Average	Sample Count	Location Code	
6.4	61	SW093*	Upstream
13.0	50	GS13*	⬇
15.8	48	GS12 (A-4 inflow)	⬇
9.3	25	GS11	Downstream

Walnut Creek

Location Code	Volume-Weighted Average	Sample Count
GS03*	6.3	43

Notes:
* Data for GS10, SW093, and GS13 are currently acquired through the routine RFLMA-required monitoring at these locations.
Sample counts vary because composite sampling periods vary with water availability.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

[5] Due to the interruptions in automated sampling and the corresponding lack of analytical data for some periods during the September 2013 flood, for comparison purposes the start of the high runoff (generally late on September 11, 2013) through September 13, 2013, is not included in the evaluation in this section. Additionally, some data are estimated for the comparison herein; under normal RFLMA data evaluation protocols, these data would not be included.

Table 6. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: Starting September 9, 2011

South Walnut Creek

	Location Code	Volume-Weighted Average	Sample Count
Upstream	GS10*	18.8	56
⬇	B5INFLOW	13.5	29
Downstream	GS08	10.2	28

North Walnut Creek

Volume-Weighted Average	Sample Count	Location Code	
6.8	45	SW093*	Upstream
12.6	31	GS13*	⬇
16.0	31	GS12 (A-4 inflow)	⬇
9.4	22	GS11	Downstream

Walnut Creek

	Location Code	Volume-Weighted Average	Sample Count
Upstream	WALPOC*	10.3	36
Downstream	GS03*	7.3	33

Notes:

* Data for GS10, SW093, GS13, and WALPOC are currently acquired through the routine RFLMA-required monitoring at these locations.

Sample counts vary because composite sampling periods vary with water availability.

Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

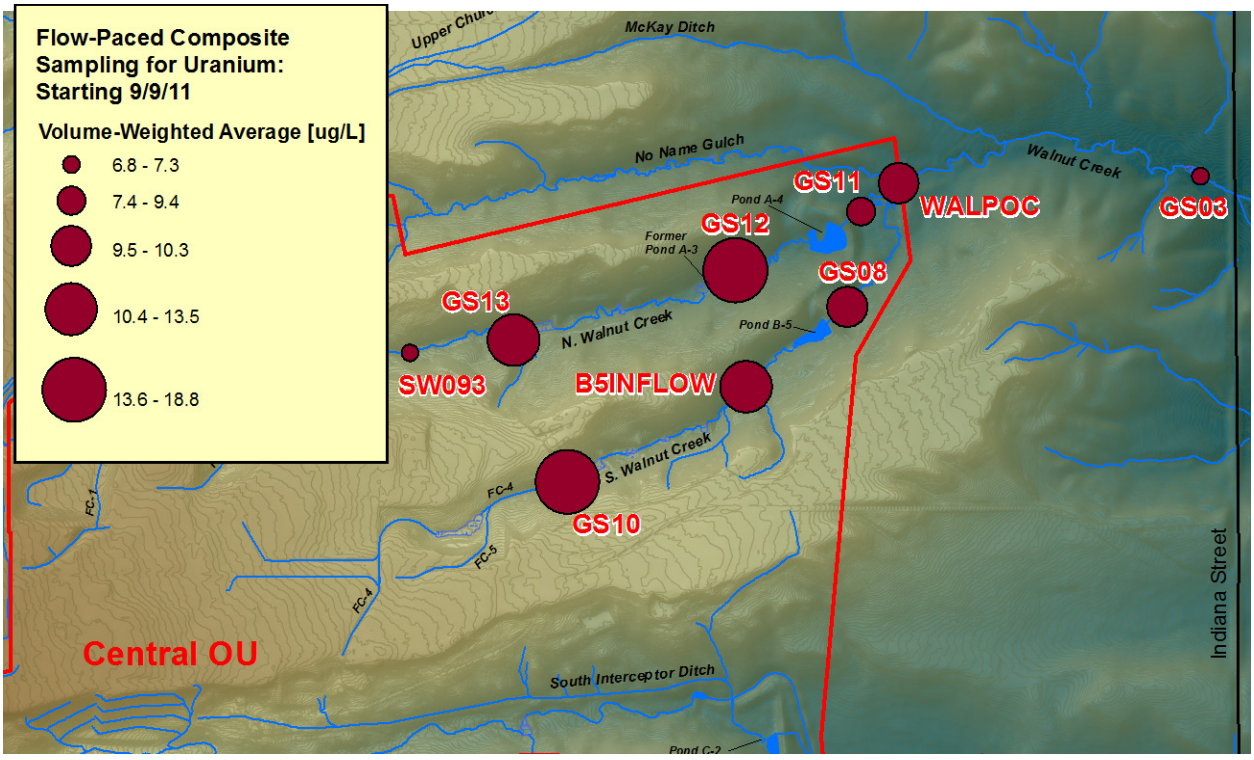


Figure 21. Map Showing Volume-Weighted Average Uranium Concentrations for Samples Collected Since September 9, 2011

Figure 22 through Figure 39 show plots of composite sample results and the 365-day volume-weighted rolling averages at each location.[6] The 365-day rolling average differs from the 12-month rolling average used for RFLMA evaluation in that the 365-day rolling average is calculated for every day, while the 12-month rolling average is calculated only on the last day of each month. The plots also show the mean daily flow hydrograph at each location. The plots clearly show the significant variability in sample results. In general, the higher concentrations are during periods of baseflow with very little runoff (i.e., winter) and immediately following dry periods when there was no flow.

As mentioned earlier, an extensive geochemistry study is being completed that examines the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report is in final review.

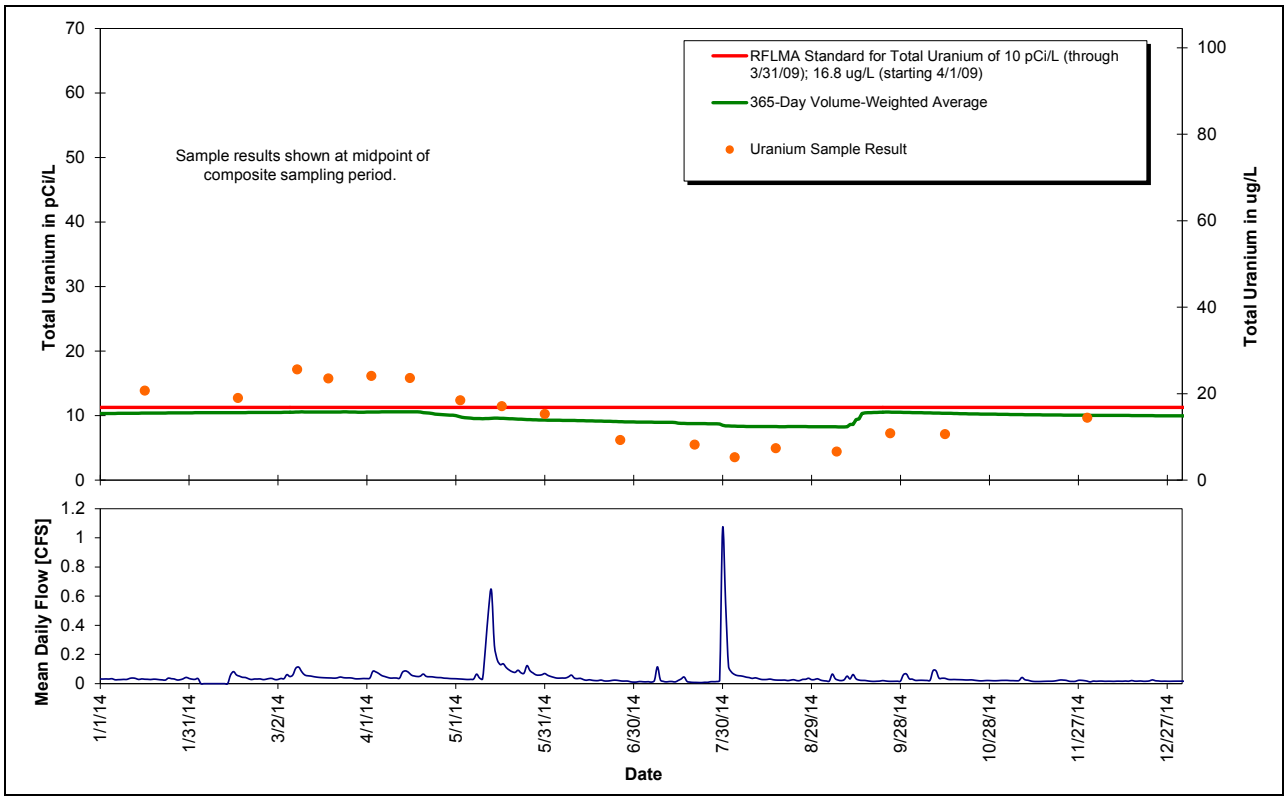


Figure 22. Composite Sample Uranium Results and Rolling 365-Day Averages at GS10: CY 2014

[6] The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location-specific (i.e., POCs, POEs) and is not part of this AMP report. Evaluation of sampling results as required by RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements.

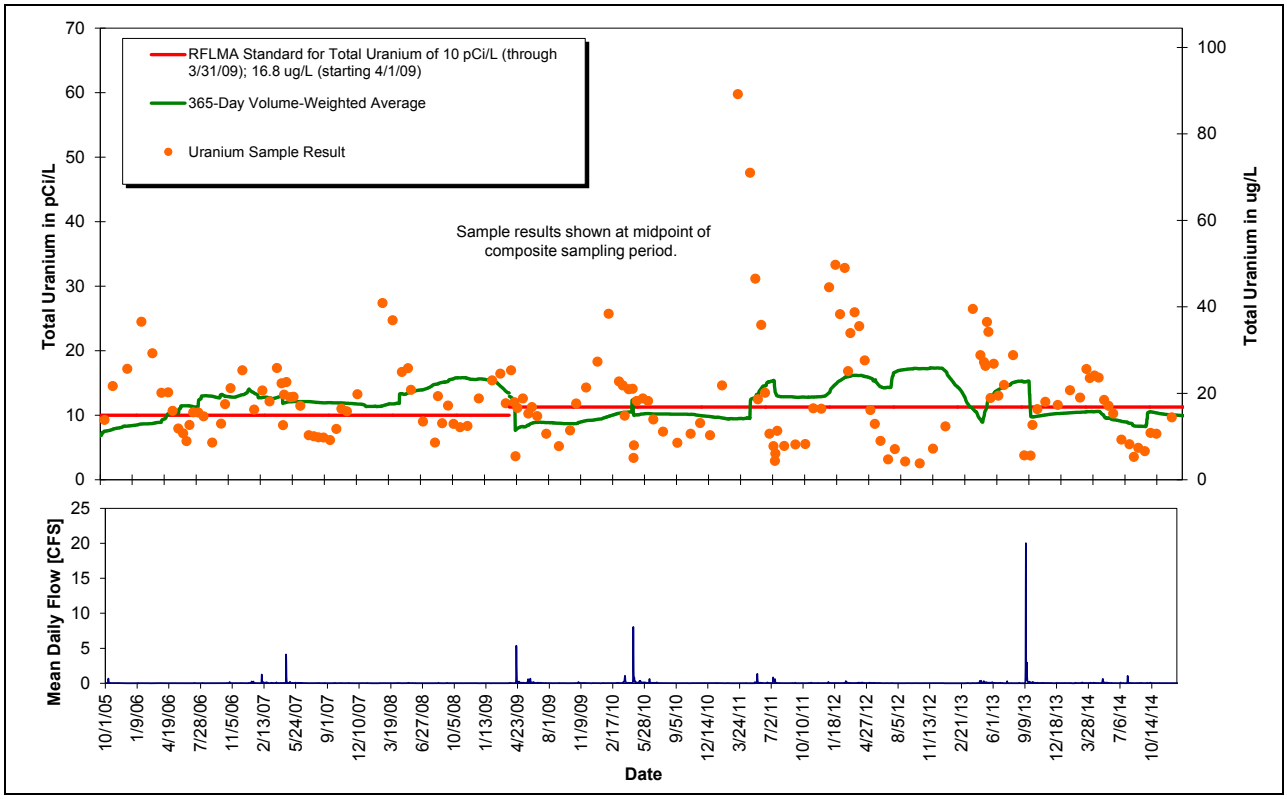


Figure 23. Composite Sample Uranium Results and Rolling 365-Day Averages at GS10: Post-Closure

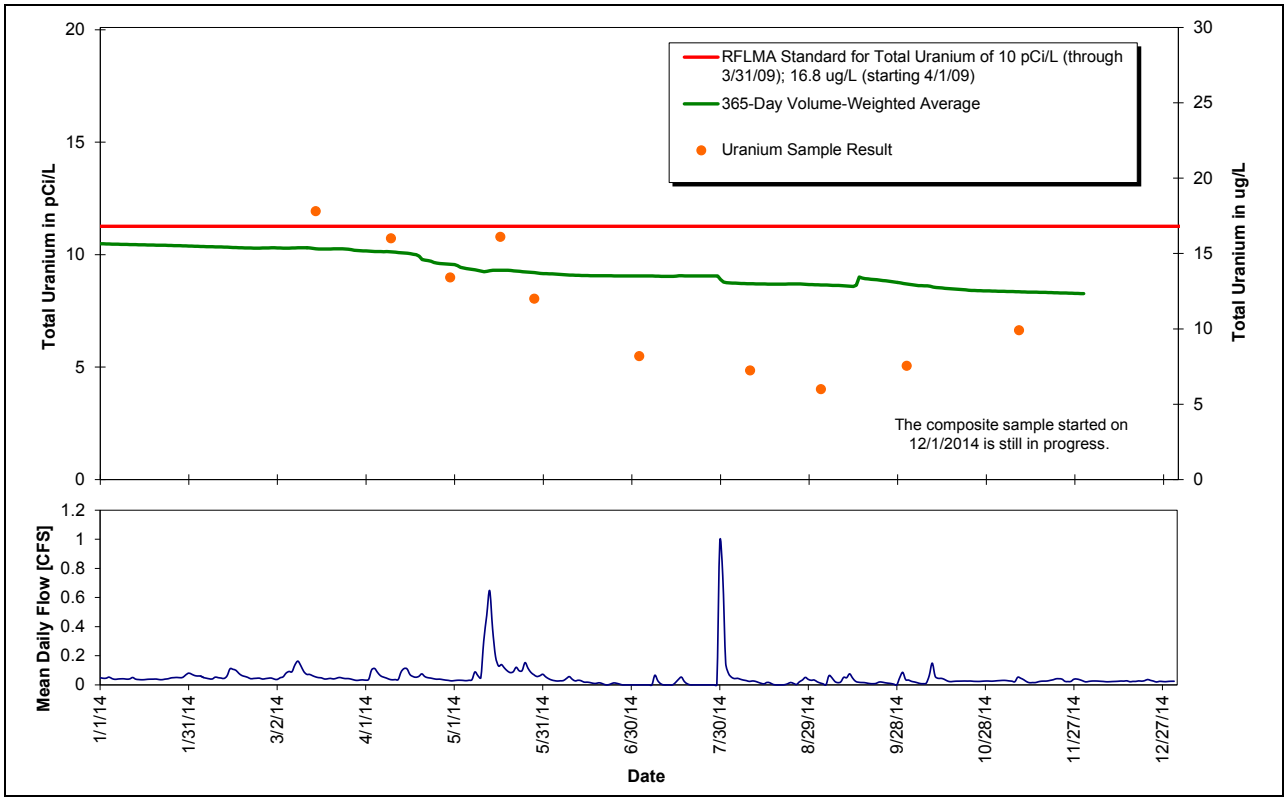


Figure 24. Composite Sample Uranium Results and Rolling 365-Day Averages at B5INFLOW: CY 2014

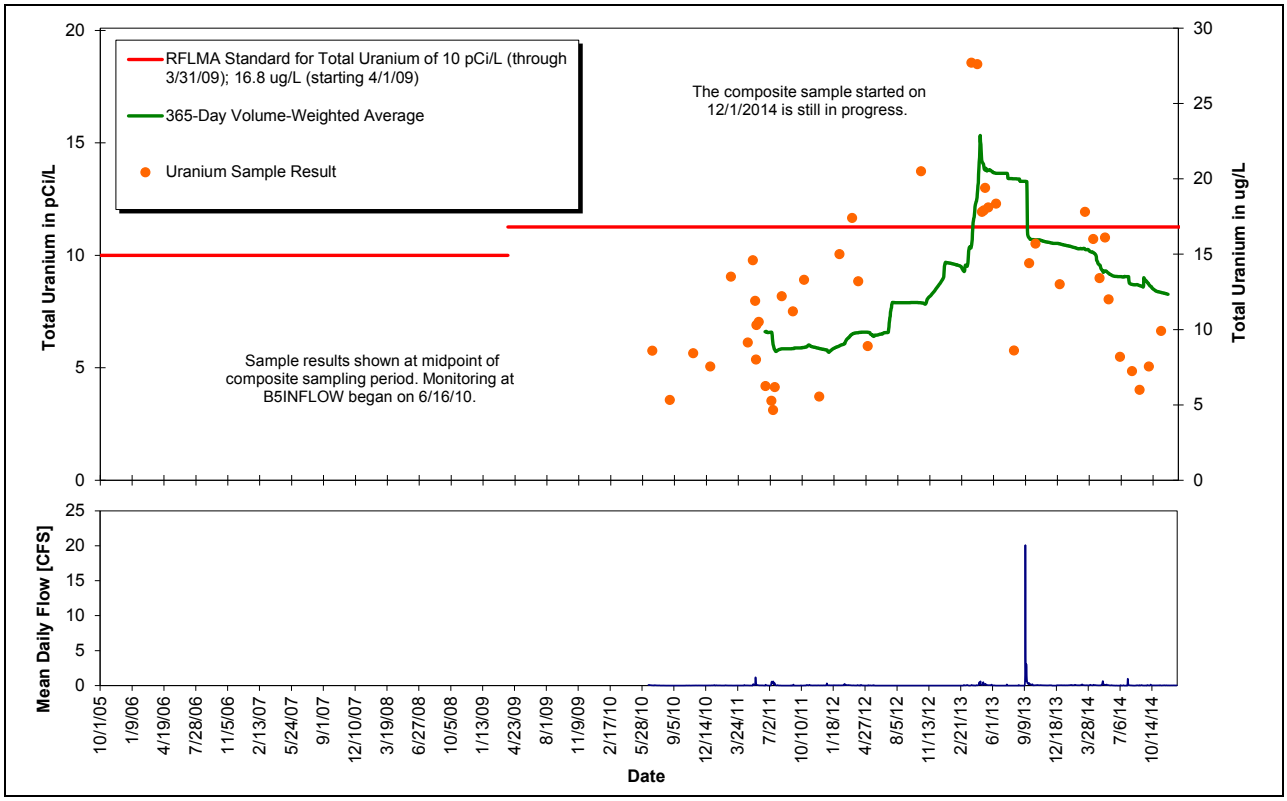


Figure 25. Composite Sample Uranium Results and Rolling 365-Day Averages at B5INFLOW: Post-Closure

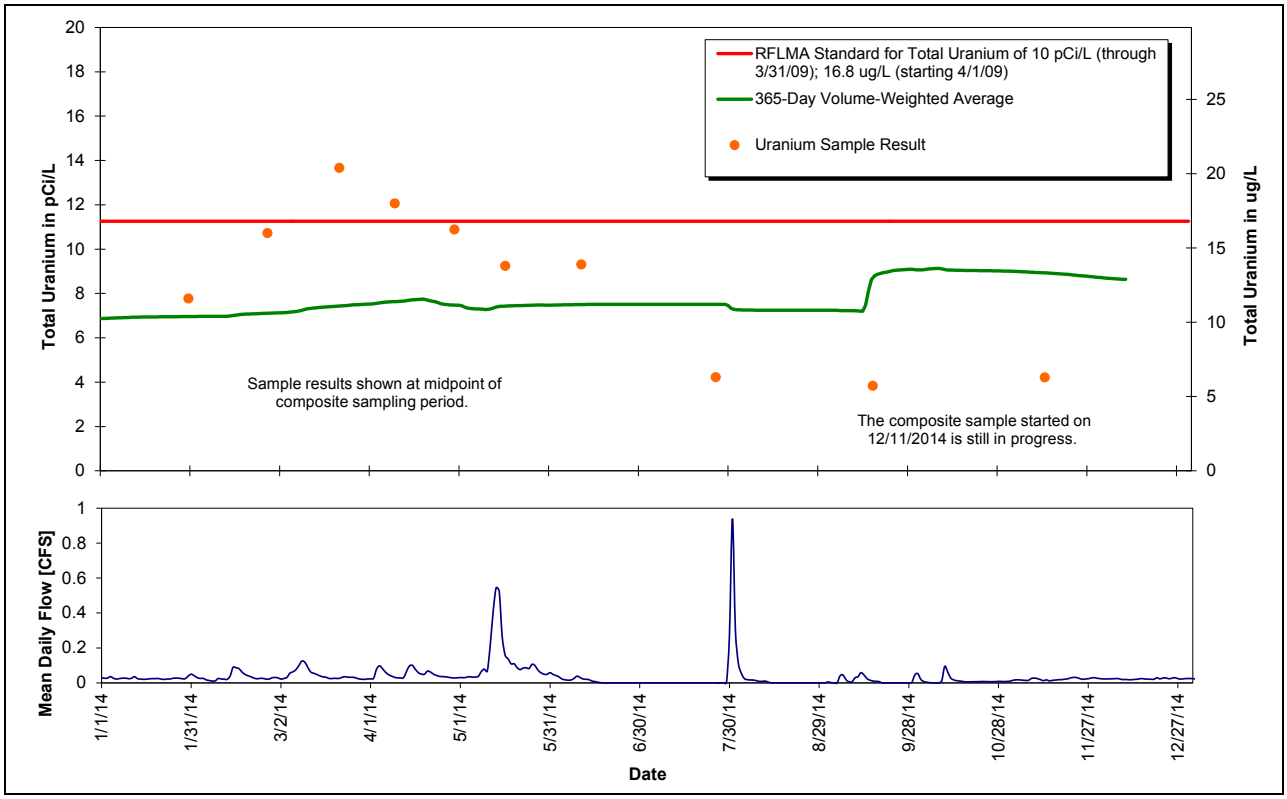


Figure 26. Composite Sample Uranium Results and Rolling 365-Day Averages at GS08: CY 2014

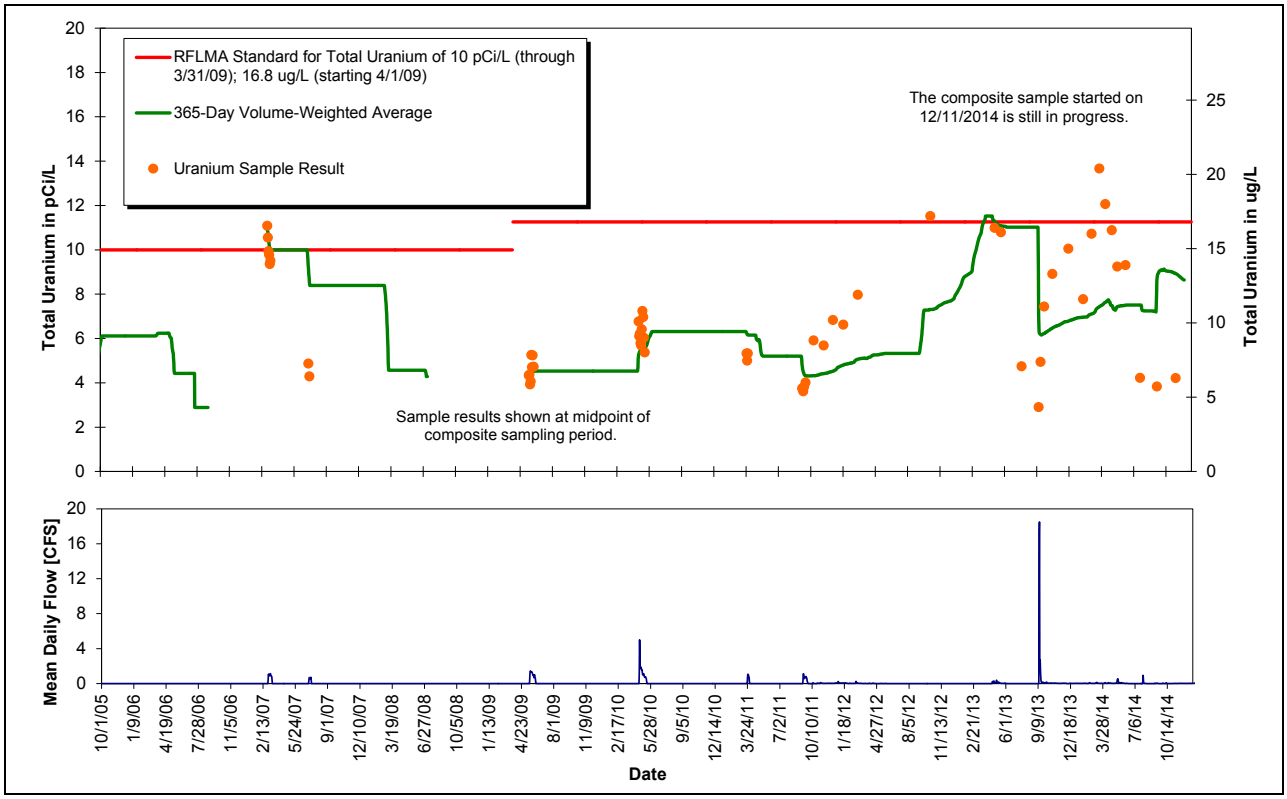


Figure 27. Composite Sample Uranium Results and Rolling 365-Day Averages at GS08: Post-Closure

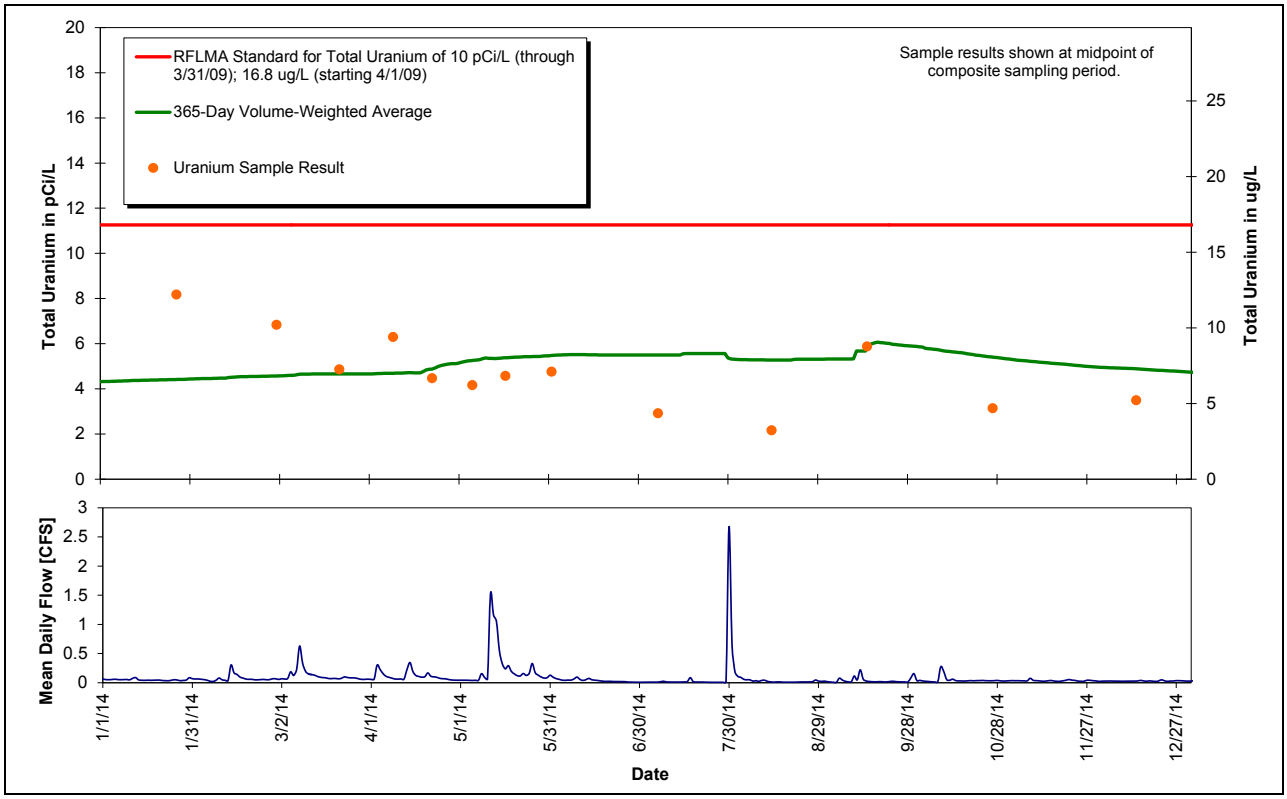


Figure 28. Composite Sample Uranium Results and Rolling 365-Day Averages at SW093: CY 2014

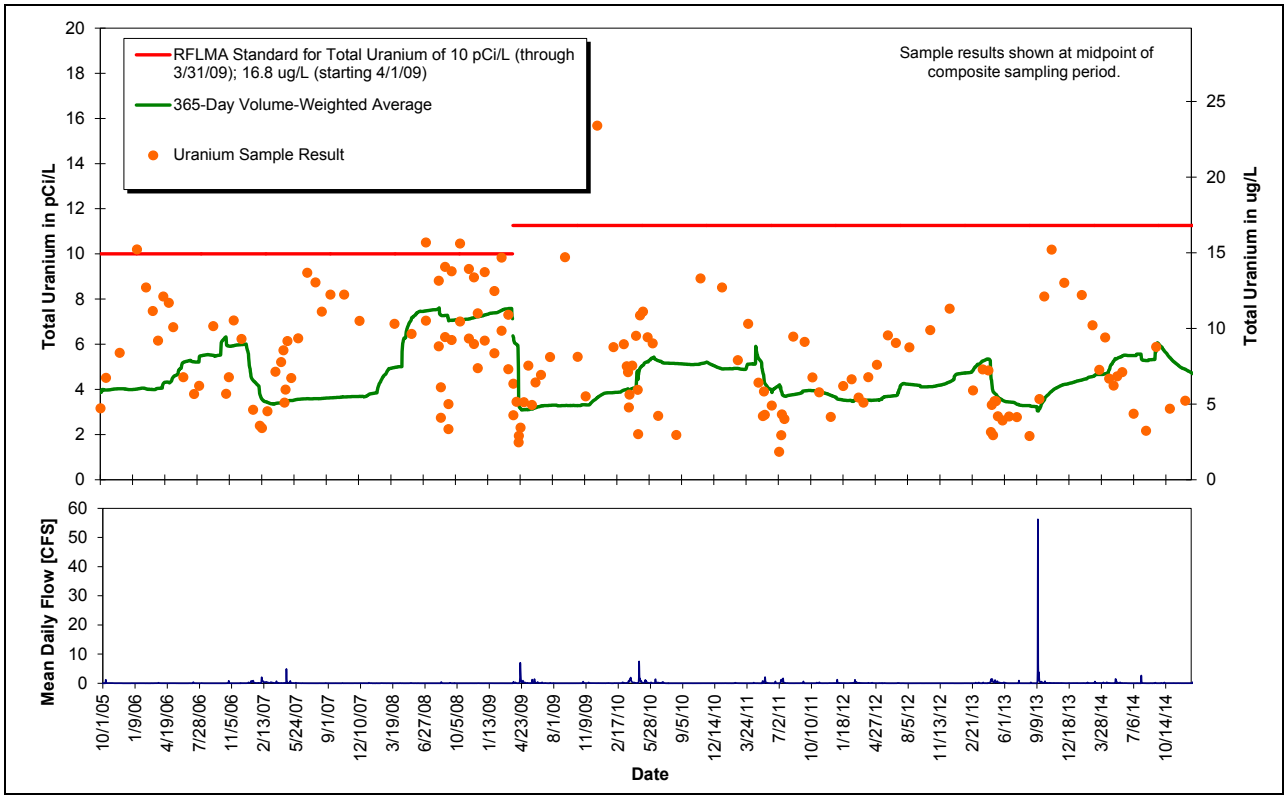


Figure 29. Composite Sample Uranium Results and Rolling 365-Day Averages at SW093: Post-Closure

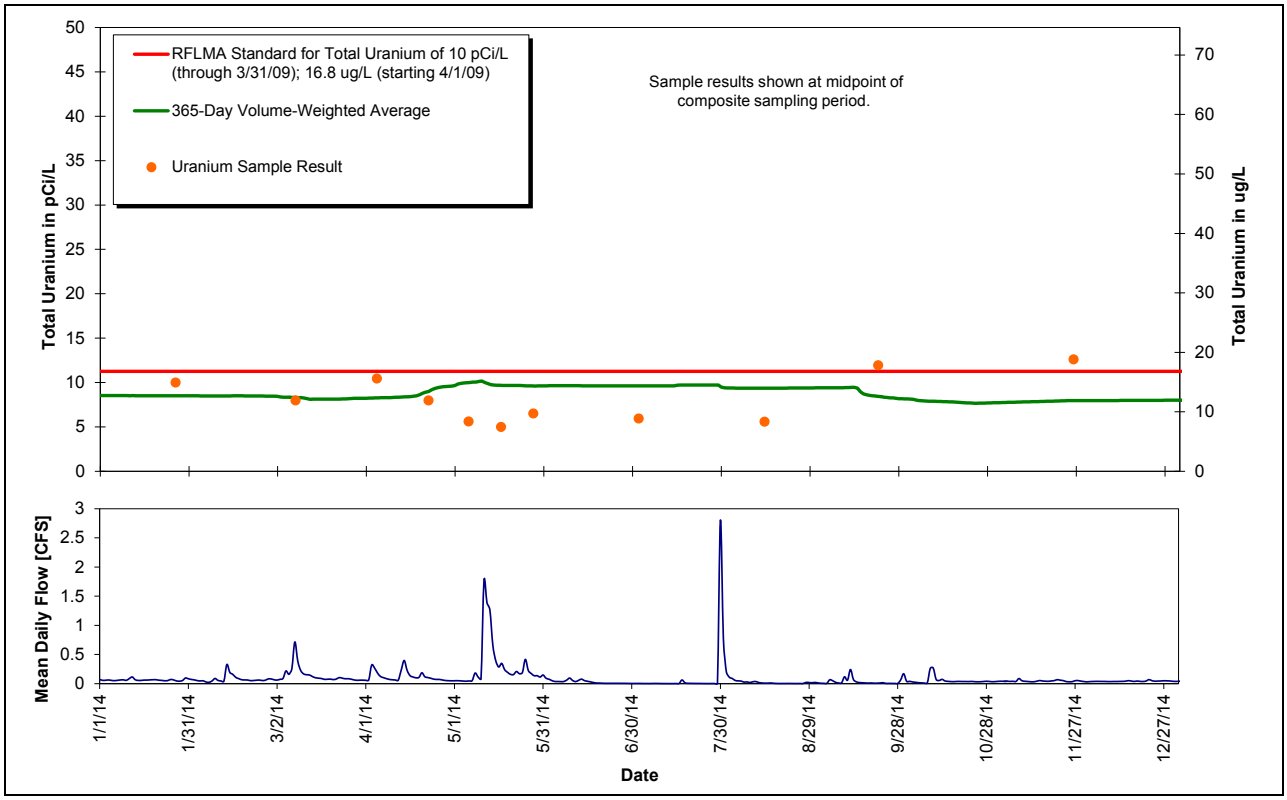


Figure 30. Composite Sample Uranium Results and Rolling 365-Day Averages at GS13: CY 2014

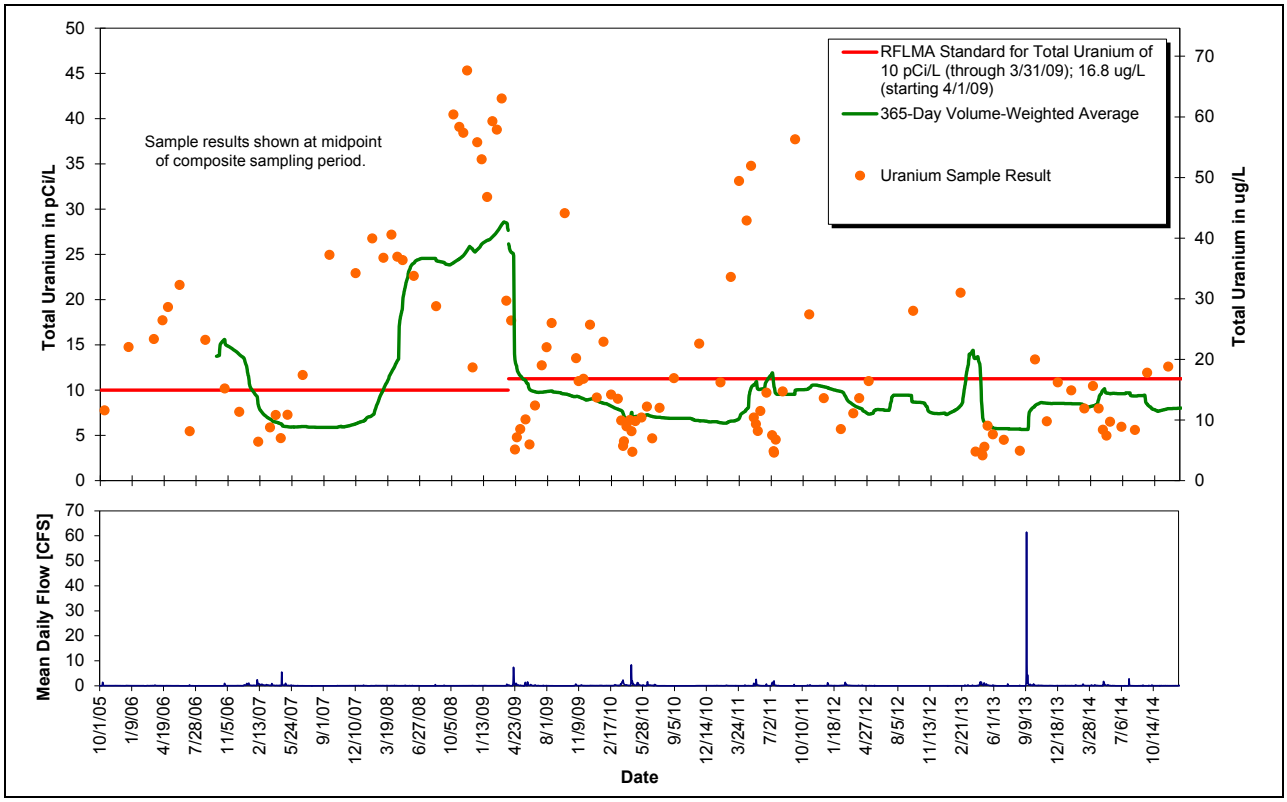


Figure 31. Composite Sample Uranium Results and Rolling 365-Day Averages at GS13: Post-Closure

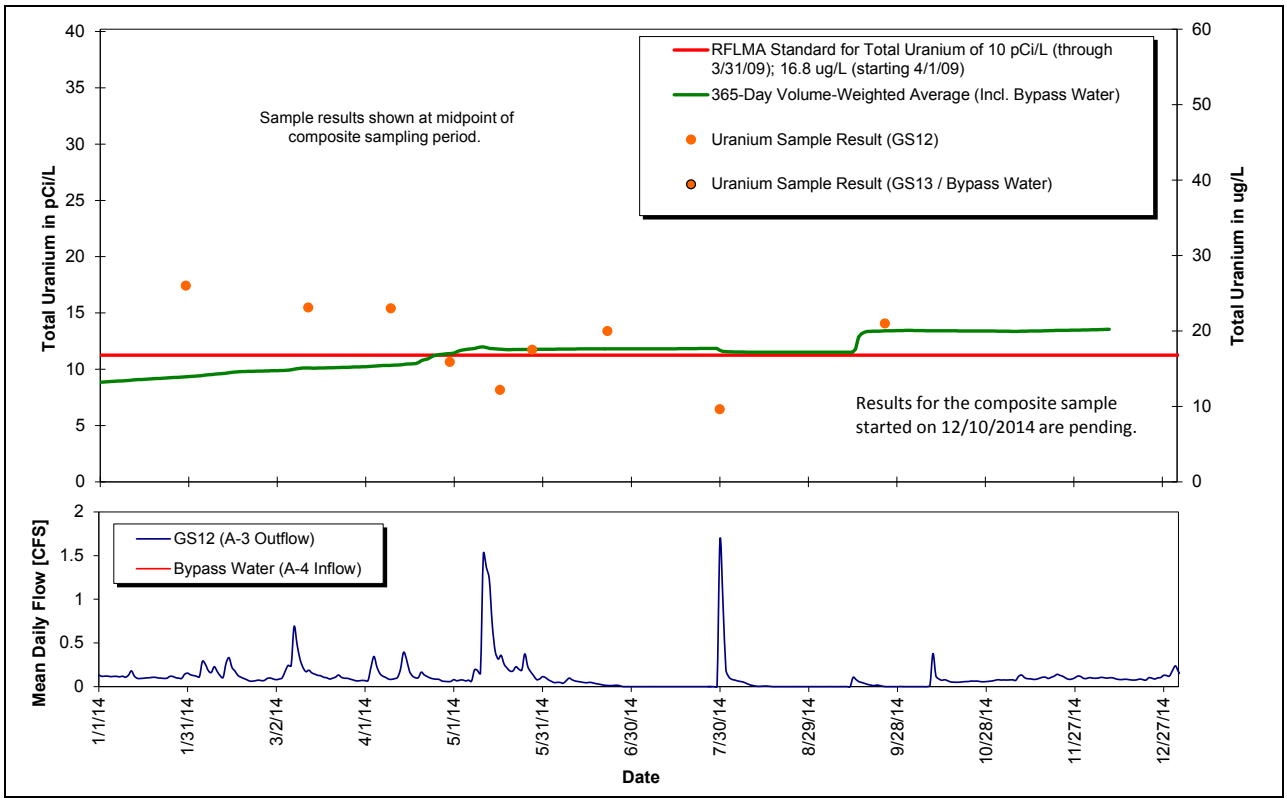


Figure 32. Composite Sample Uranium Results and Rolling 365-Day Averages at GS12 (A-4 Inflow): CY 2014

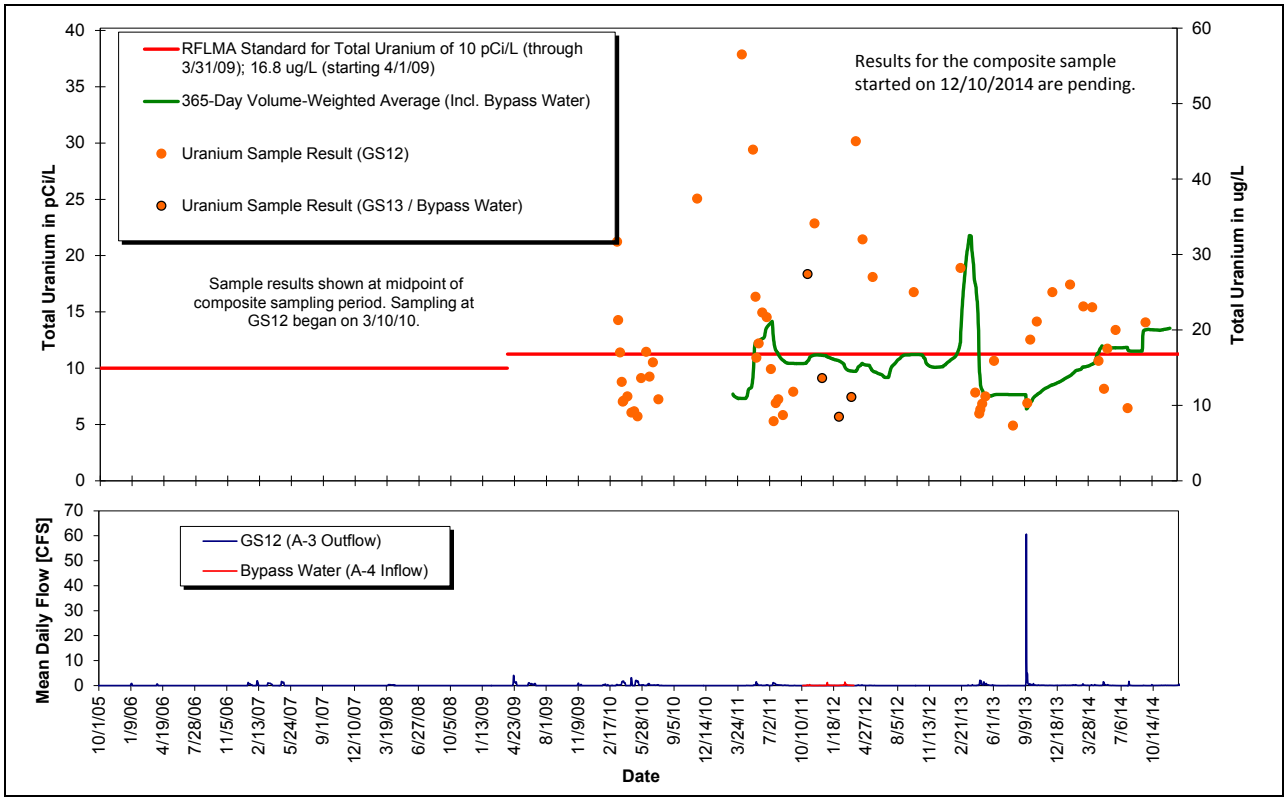


Figure 33. Composite Sample Uranium Results and Rolling 365-Day Averages at GS12 (A-4 Inflow): Post-Closure

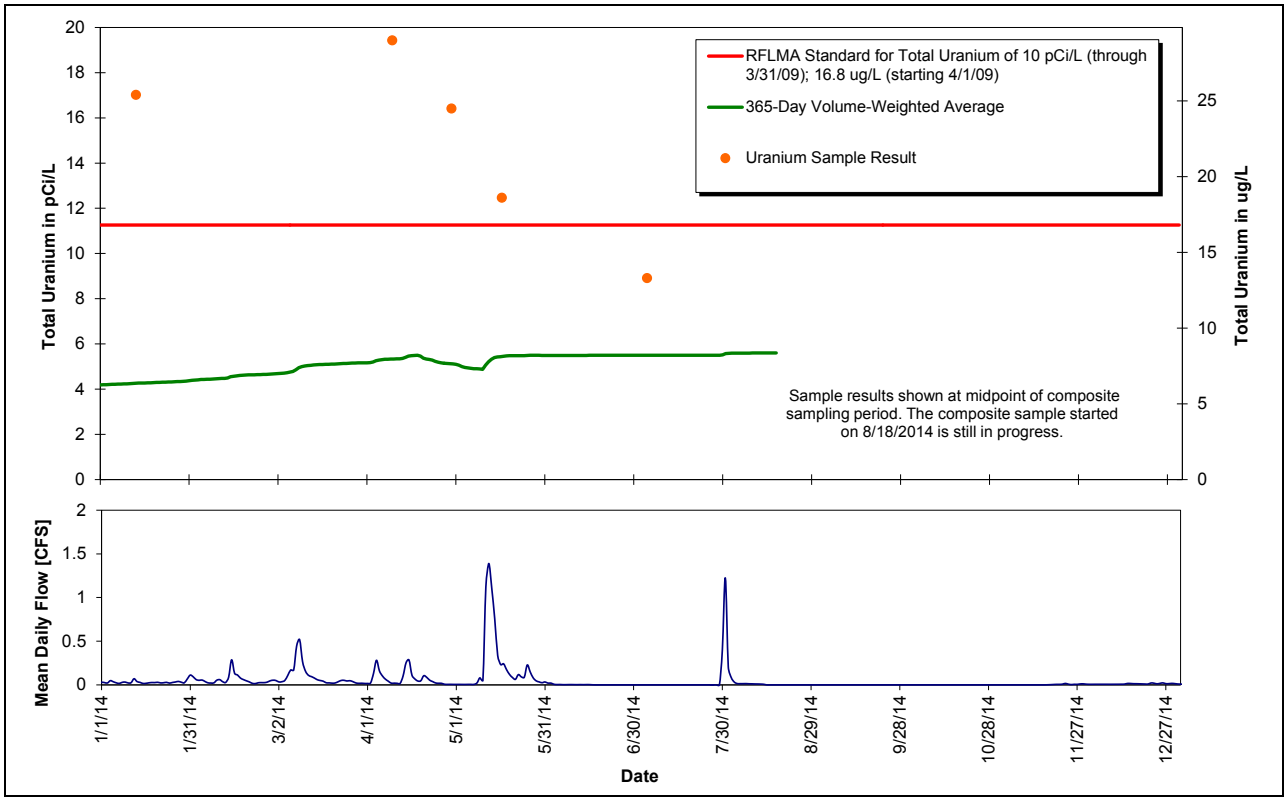


Figure 34. Composite Sample Uranium Results and Rolling 365-Day Averages at GS11: CY 2014

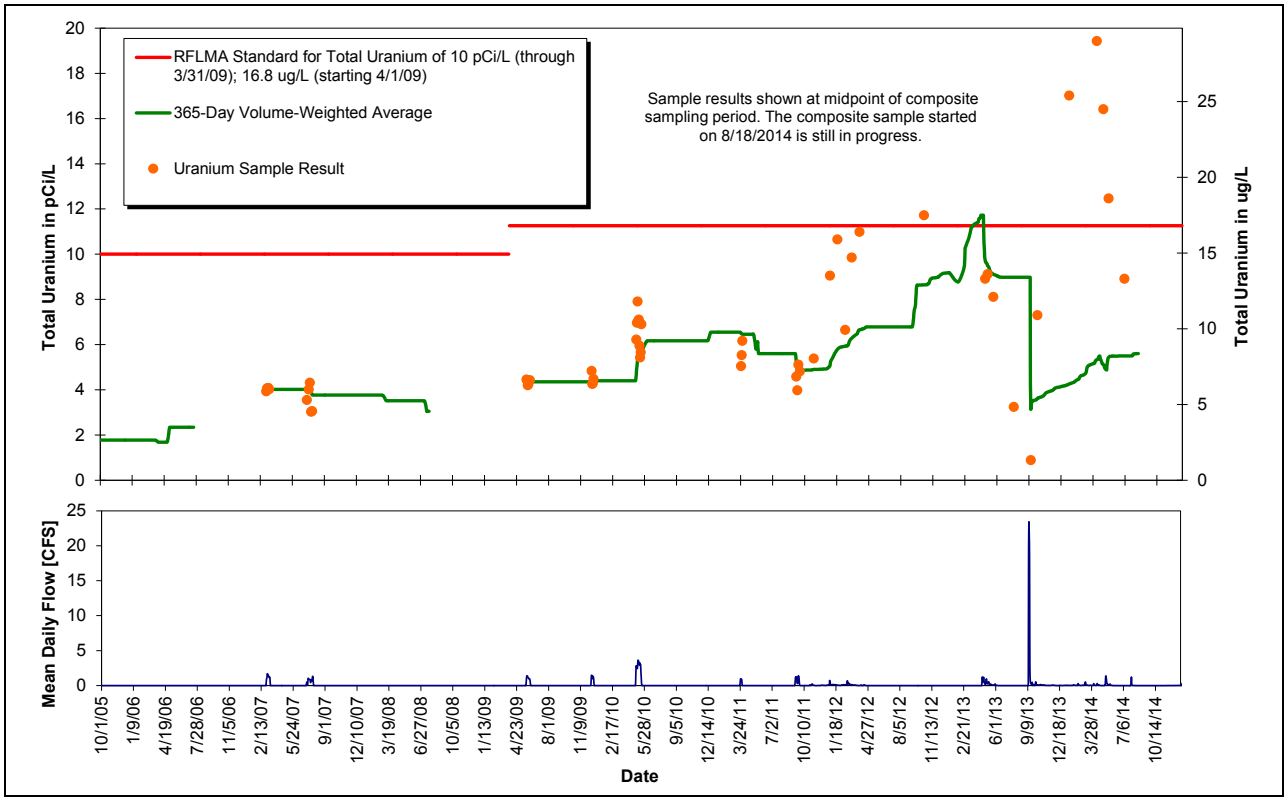


Figure 35. Composite Sample Uranium Results and Rolling 365-Day Averages at GS11: Post-Closure

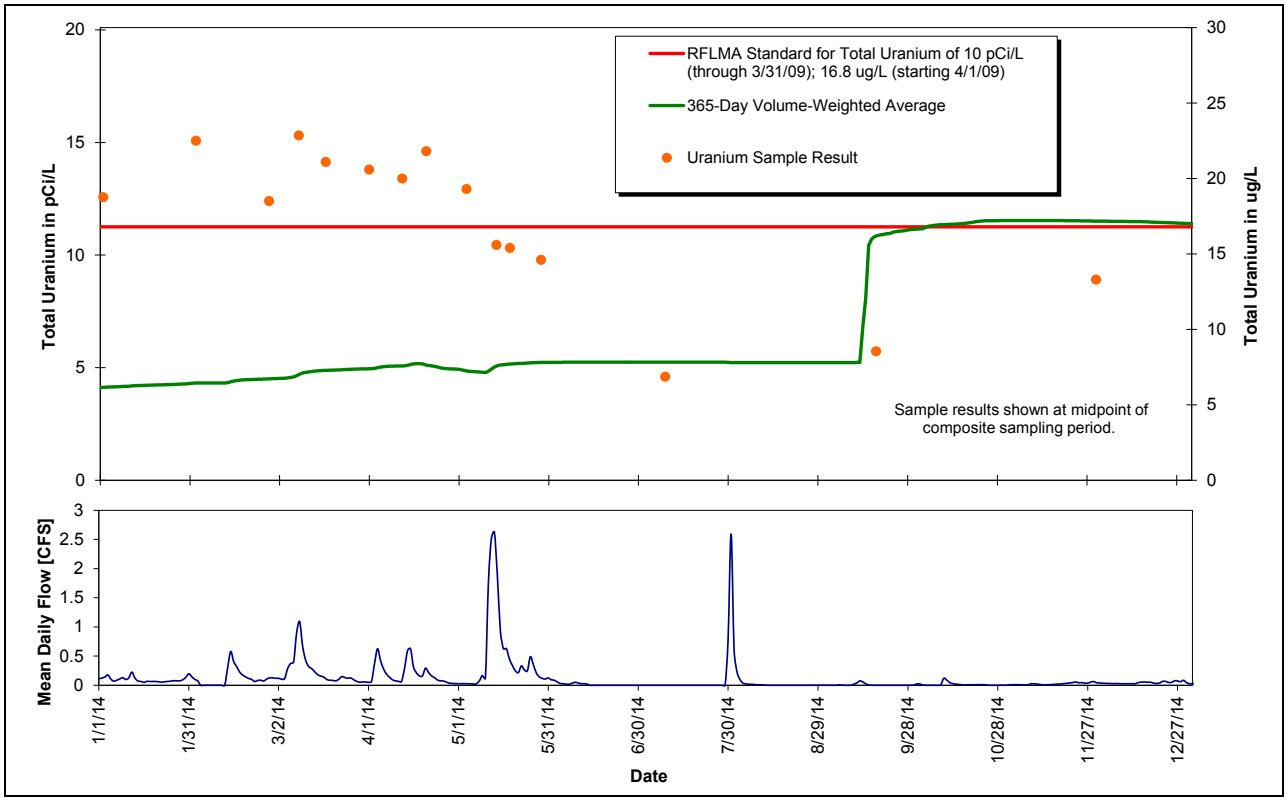


Figure 36. Composite Sample Uranium Results and Rolling 365-Day Averages at WALPOC: CY 2014

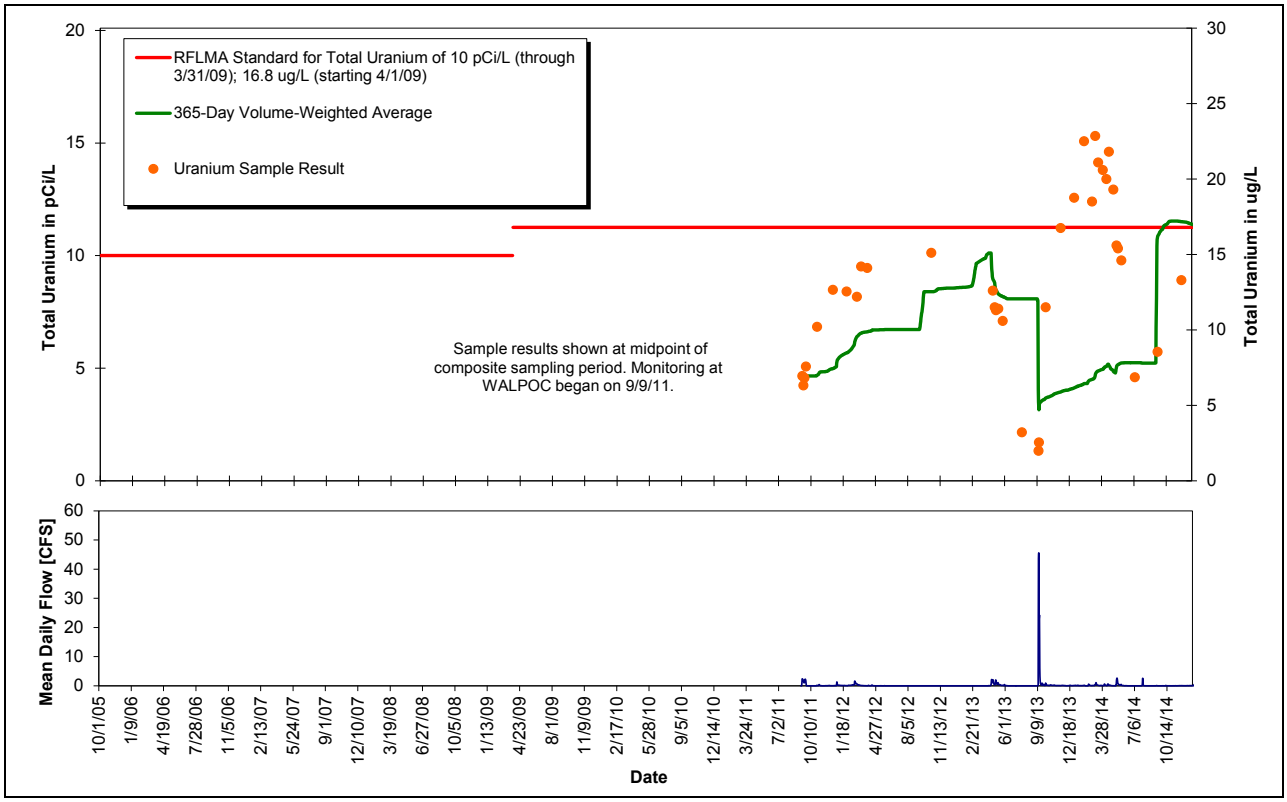


Figure 37. Composite Sample Uranium Results and Rolling 365-Day Averages at WALPOC: Post-Closure

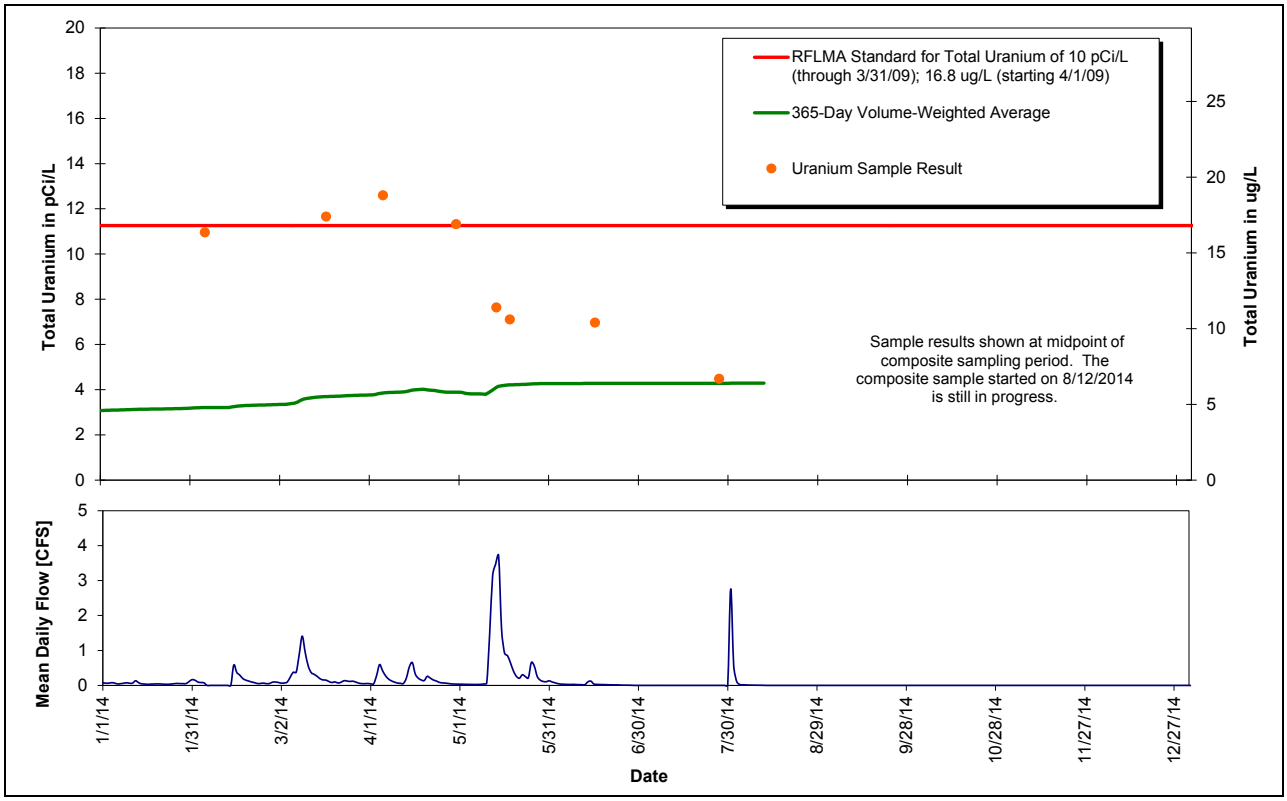


Figure 38. Composite Sample Uranium Results and Rolling 365-Day Averages at GS03: CY 2014

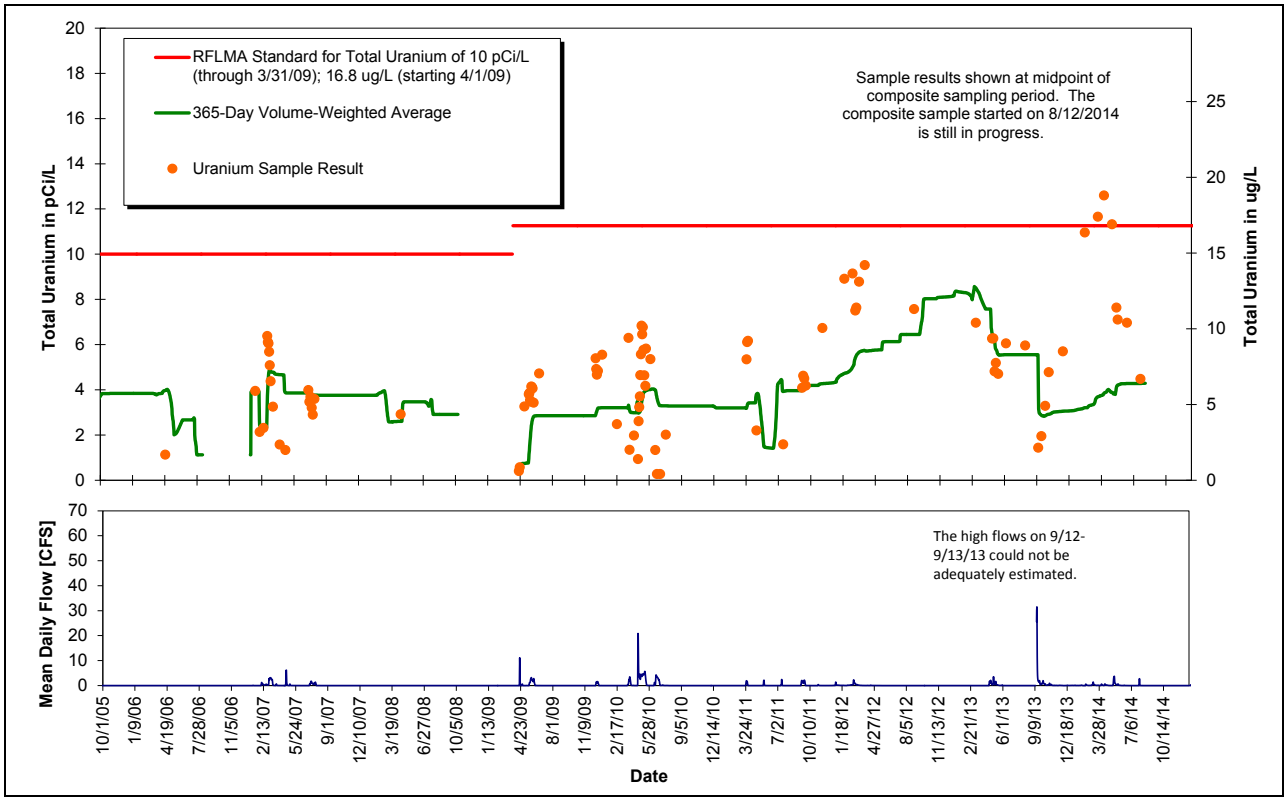
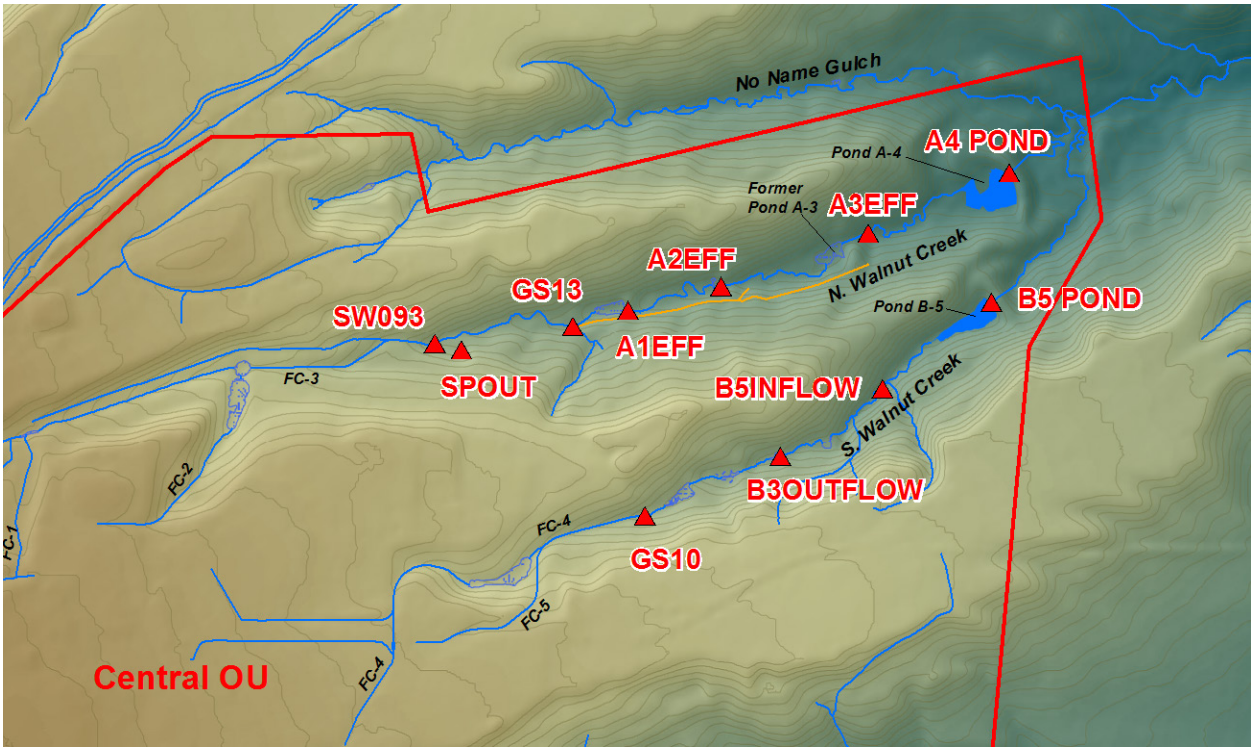


Figure 39. Composite Sample Uranium Results and Rolling 365-Day Averages at GS03: Post-Closure

3.6 Grab Sampling for Uranium in North and South Walnut Creeks

This monitoring objective is primarily intended to evaluate the transport of uranium in North and South Walnut Creeks by assessing correlations, patterns, variability, and loading. This objective is also intended to help define the relative impacts of the Solar Ponds Plume Treatment System (SPPTS) contributions on surface water in North Walnut Creek. Samples are currently collected biweekly as grabs. Figure 40 presents the uranium grab sampling locations in North and South Walnut Creeks. Sampling for this monitoring objective at most locations began on January 27, 2010.



Notes:
The orange line shows the location of the A-Series Bypass Pipeline.
A3EFF is co-located with GS12 (A3EFF is the grab sampling location, while GS12 is the automated composite sampling location).

Figure 40. Uranium Grab Sampling Locations in North and South Walnut Creeks

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to support the Dam A-3 breach construction. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near A3EFF) until March 21, 2012. During this period, it is assumed that the quality and quantity of water when it entered the pipeline were the same as when it exited the pipeline.[7] Therefore, data collected at both GS13 and A3EFF during this period have been combined to effectively summarize water quality *entering* Pond A-4, and not water quality *exiting* Pond A-3.

Table 7 shows summary statistics for the uranium grab sampling in North and South Walnut Creeks. The grab sample results show even more variability than the flow-paced composite results, as expected. Grab samples are generally collected during fair-weather, baseflow periods when uranium is more likely to be present at higher concentrations. Continuous flow-paced composite sample results are a better representation of actual longer-term uranium concentrations; by design, automated composite sampling collects samples during all flow conditions, including intense, high-volume runoff periods when uranium concentrations are generally lower.

[7] This assumption has been confirmed by grab samples taken at GS13 and A4INFLOW; A4INFLOW is located just upstream of Pond A-4.

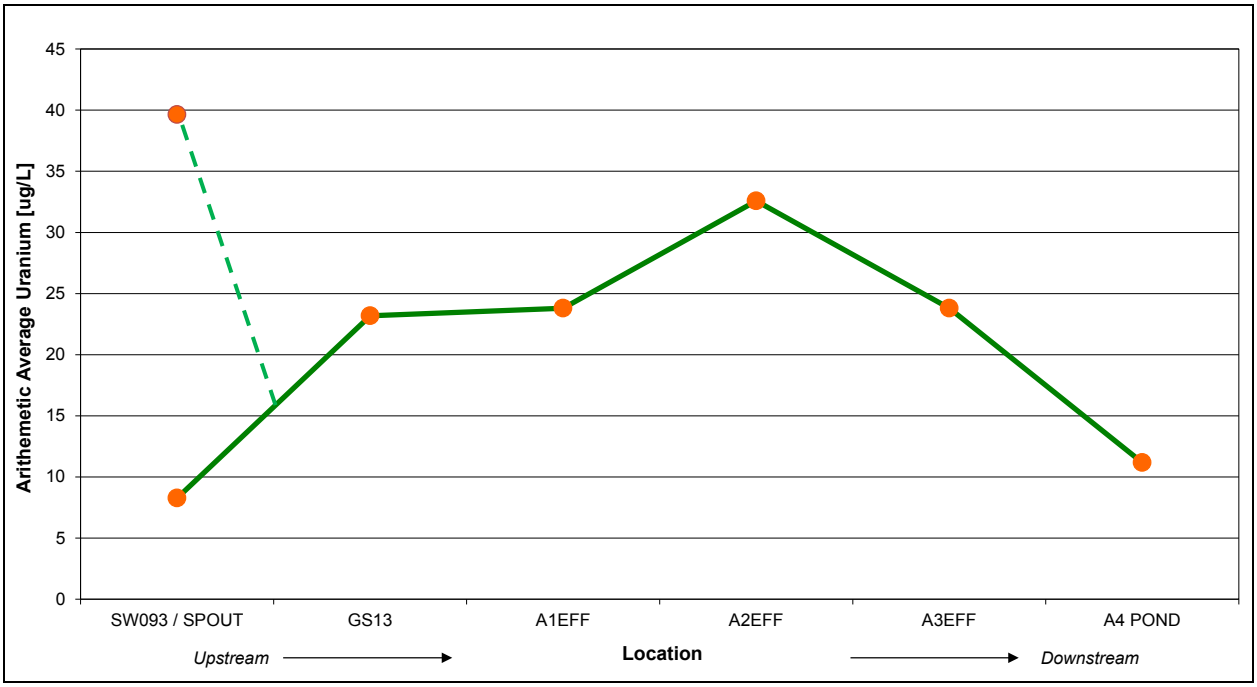
Table 7. Summary Statistics for Uranium Grab Sampling in North and South Walnut Creeks for the Period Starting January 27, 2010

North Walnut Creek		Uranium (ug/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	SW093	8.27	122	12.0	8.00
⬇	SPOUT*	39.6	131	53.0	39.0
⬇	GS13	23.2	104	42.0	19.0
⬇	A1EFF	23.8	80	41.9	17.5
⬇	A2EFF	32.6	75	59.9	26.0
⬇	A3EFF (A-4 inflow)	23.0	74	33.0	23.0
Downstream	A4 POND	11.2	127	16.1	9.60

South Walnut Creek		Uranium (ug/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	GS10	14.8	129	22.0	15.0
⬇	B3OUTFLOW	15.3	97	22.0	16.0
⬇	B5INFLOW	13.5	90	18.0	14.0
Downstream	B5 POND	8.56	128	12.0	7.30

Notes:
* SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.
Sample counts vary because some locations are periodically dry.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

Grab samples do, however, give a good portrayal of spatial water quality variation (i.e., upstream to downstream). Figure 41 and Figure 42 show the spatial variation (upstream to downstream) of average uranium concentrations in North and South Walnut Creeks. Both plots show noticeable variation. As mentioned earlier, an extensive geochemistry study is being completed that examines the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report is in final review.



Notes:
SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Figure 41. Arithmetic Average Uranium Concentration at North Walnut Creek Grab Locations

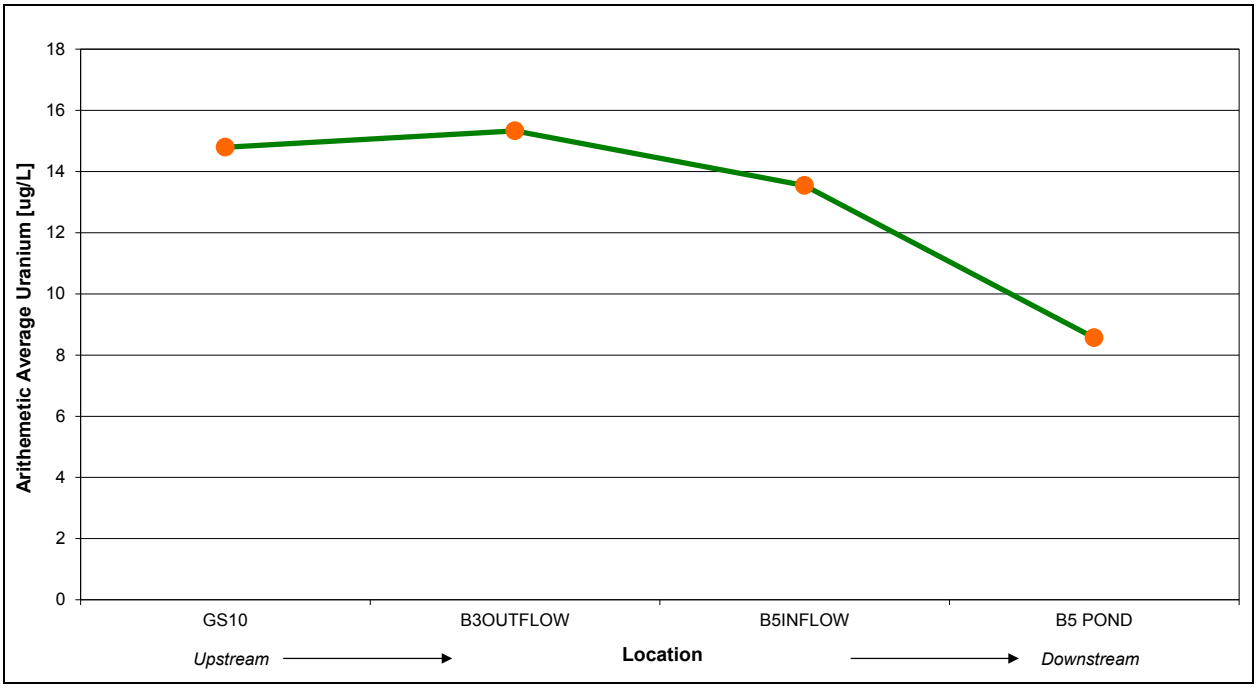
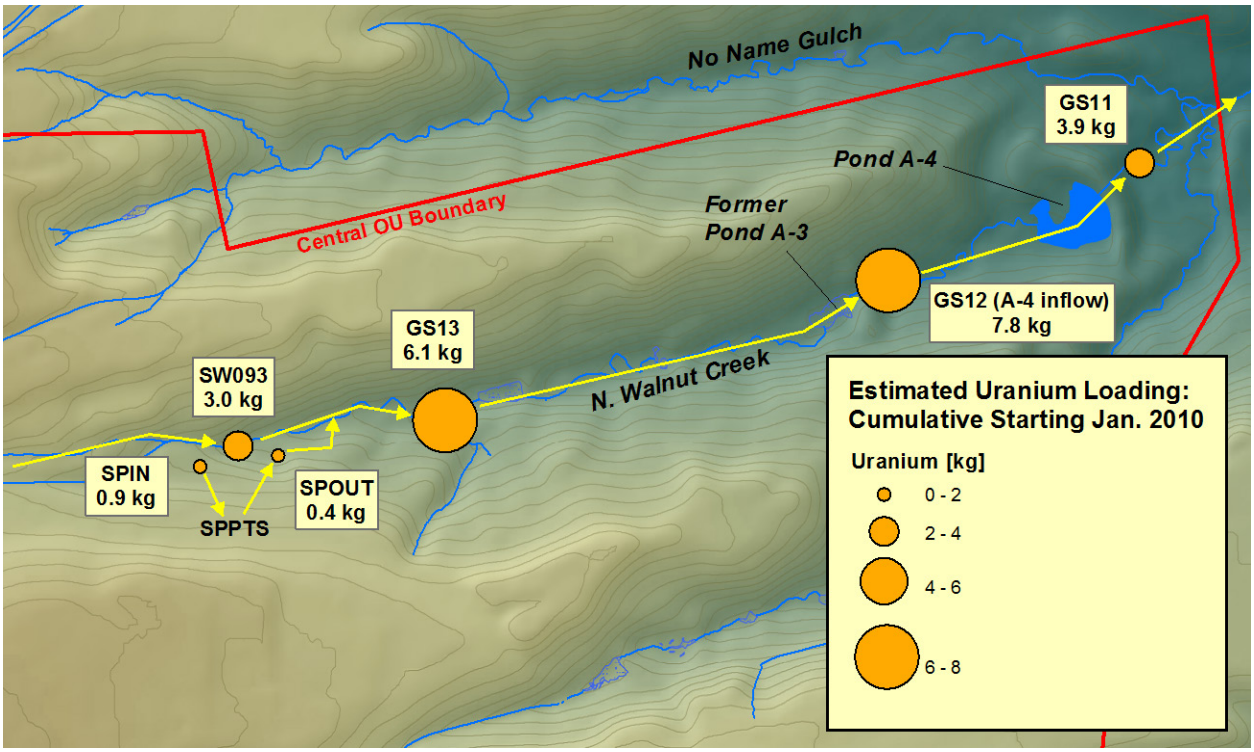


Figure 42. Arithmetic Average Uranium Concentration at South Walnut Creek Grab Locations

The map in Figure 43 shows the estimated total uranium loads in North Walnut Creek since January 2010 (using all available sample results as of February 6, 2015).[8] While the SPPTS has removed approximately 50 percent of the uranium load in the water it collects, the loads at both the system influent (SPIN) and effluent (SPOUT) are small compared to the loads in North Walnut Creek. Even though the SPPTS concentrations are higher than the creek concentrations, the much larger creek flow volumes yield significantly larger loads. In fact, the load at SPOUT is estimated to be 5 to 10 percent of the load at GS13.



Notes:
SPIN represents influent to the SPPTS, while SPOUT represents effluent.
Loads at SW093, GS13, GS12, and GS11 are calculated using results from flow-paced composites (see Section 3.5).
Loads at SPIN and SPOUT are calculated using results from grab sampling related to this AMP objective and other treatment system optimization efforts.
Arrows indicate general flow routing.

Abbreviations:
kg = kilograms

Figure 43. Map Showing Estimated Uranium Loads in North Walnut Creek: Since January 2010

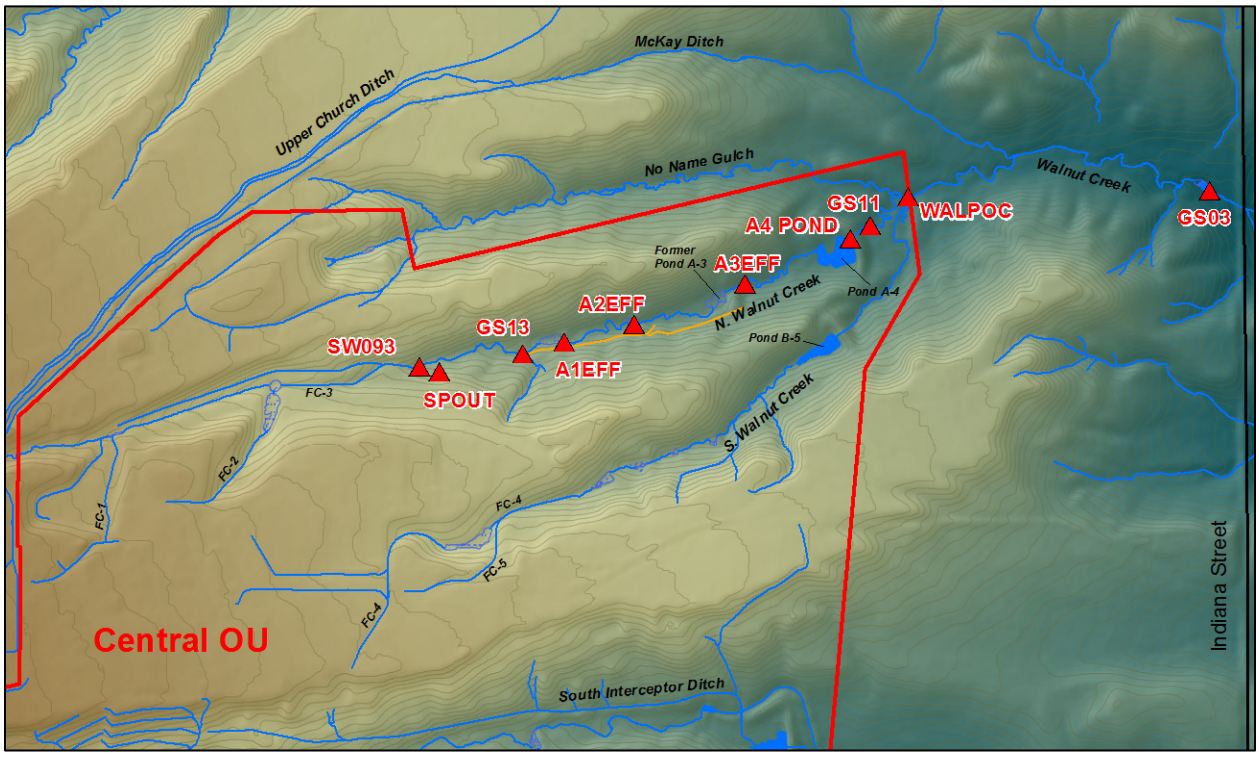
3.7 Grab Sampling for Nitrate + Nitrite as Nitrogen in Walnut Creek

This monitoring objective is primarily intended to evaluate the transport of nitrate in North Walnut and Walnut Creeks by assessing correlations, patterns, variability, and loading. This objective is also intended to help define the relative impacts of the SPPTS contributions on surface water in North Walnut Creek. Samples are currently collected biweekly as grabs

[8] Loads are only calculated for locations with flow volume measurement.

(Figure 44). Sampling for this monitoring objective at most locations began on January 27, 2010. WALPOC started operation on September 9, 2011.

This evaluation is performed for two different time periods in recognition of the operational start date of September 9, 2011, for WALPOC.



Notes:
The orange line shows the location of the A-Series Bypass Pipeline.
A3EFF is co-located with GS12 (A3EFF is the grab sampling location, while GS12 is the automated composite sampling location).

Figure 44. Nitrate + Nitrite as Nitrogen Grab Sampling Locations in North Walnut and Walnut Creeks

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to drain Pond A-3 in preparation for the Dam A-3 breach. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near A3EFF). During this period, it is assumed that the quality and quantity of water when it entered the pipeline were the same as when it exited the pipeline.[9] Therefore, data collected at both GS13 and A3EFF during this period have been combined to effectively summarize water quality *entering* Pond A-4, and not water quality *exiting* Pond A-3.

Table 8 shows summary statistics for the nitrate + nitrite as N grab sampling in North Walnut and Walnut Creeks since January 27, 2010 (using all available sample results as of February 6, 2015). These grab samples are collected during fair-weather, baseflow periods when

[9] This assumption has been confirmed by grab samples taken at GS13 and A4INFLOW; A4INFLOW is located just upstream of Pond A-4.

nitrate is more likely to be present at higher concentrations (due to the source being groundwater). These grab samples also give a good portrayal of spatial nitrate variation (i.e., upstream to downstream). Figure 45 shows the spatial variation (upstream to downstream) of average nitrate concentrations in North Walnut Creek. The plot shows a measurable increase between SW093 (upstream of Solar Ponds influence) and GS13 (downstream of Solar Ponds influence). However, farther downstream the natural reduction of nitrate is apparent.[10]

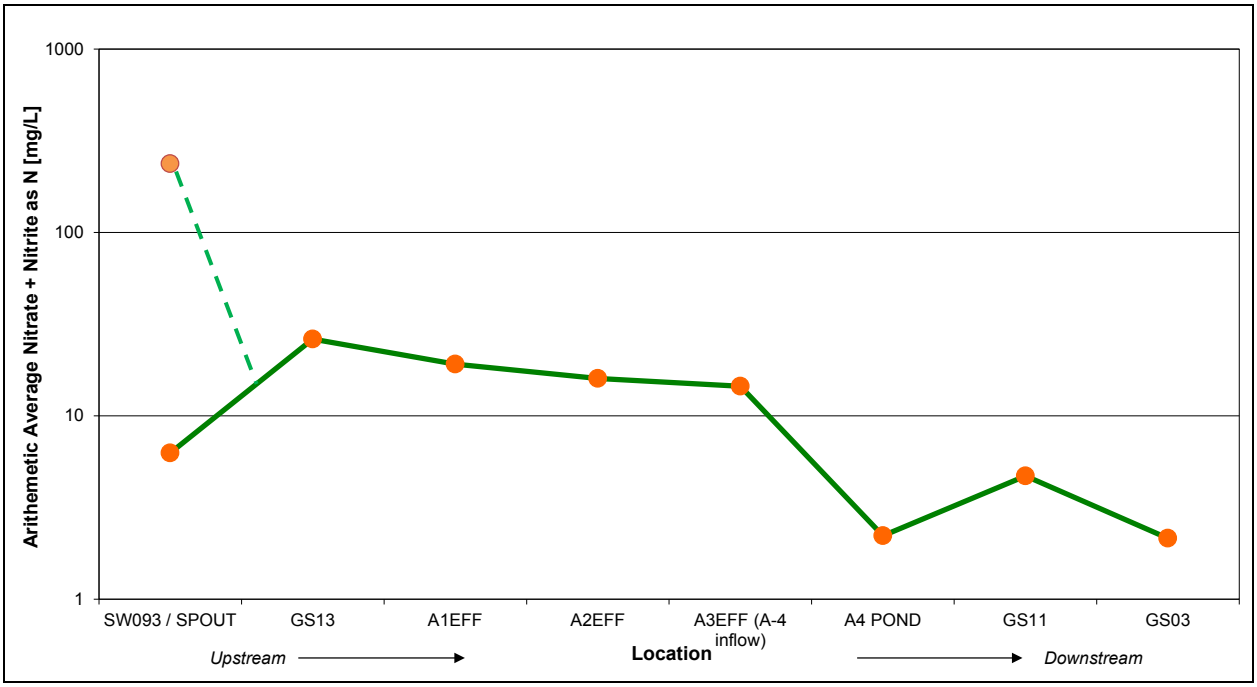
Table 8. Summary Statistics for Nitrate + Nitrite as N Grab Sampling in North Walnut and Walnut Creeks for the Period Starting January 27, 2010

North Walnut Creek		NO3+NO2 as N (mg/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	SW093	6.28	119	8.00	3.40
⬇	SPOUT*	237	128	430	215
⬇	GS13	26.2	109	46.2	24.0
⬇	A1EFF	19.1	78	34.5	16.0
⬇	A2EFF	16.0	74	40.0	11.5
⬇	A3EFF (A-4 inflow)	14.5	74	32.7	12.0
⬇	A4 POND	2.22	125	5.14	0.08
⬇	GS11	4.71	35	8.93	3.60
Downstream	GS03	2.15	46	4.20	1.65

Notes:
* SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.
Sample counts vary because some locations are periodically dry.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

Abbreviations:
mg/L = milligrams per liter

[10] The discrepancy between A4 POND and GS11 is likely a result of sampling location. Samples for A4 POND are collected along the shoreline where water is both shallower and warmer, enhancing natural biological denitrification. GS11 on the other hand, samples water that leaves Pond A-4 through and elevated outlet works in a deeper, cooler location in the pond.



Notes:
Concentrations shown on logarithmic scale.
SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Abbreviations:
mg/L = milligrams per liter

Figure 45. Arithmetic Average Nitrate + Nitrite as N Concentration at North Walnut and Walnut Creek Grab Locations

Table 9 shows summary statistics for the nitrate + nitrite as N grab sampling in North Walnut and Walnut Creeks since September 1, 2011, so that WALPOC—which began operation in September 2011—could be included (using all available sample results as of February 6, 2015). These grab samples are also collected during fair-weather, baseflow periods when nitrate is more likely to be present at higher concentrations (due to the source being groundwater). These grab samples also give a good portrayal of spatial nitrate variation (i.e., upstream to downstream). Figure 46 shows the spatial variation (upstream to downstream) of average nitrate concentrations in North Walnut Creek. The plot shows a measurable increase between SW093 (upstream of Solar Ponds influence) and GS13 (downstream of Solar Ponds influence). However, farther downstream the natural reduction of nitrate is generally apparent.[11]

[11] The discrepancy between A4 POND and GS11 is likely a result of sampling location. Samples for A4 POND are collected along the shoreline where water is both shallower and warmer, enhancing natural biological denitrification. GS11 on the other hand, samples water that leaves Pond A-4 through and elevated outlet works in a deeper, cooler location in the pond.

Table 9. Summary Statistics for Nitrate + Nitrite as N Grab Sampling in North Walnut and Walnut Creeks for the Period Starting September 1, 2011

North Walnut Creek		NO3+NO2 as N (mg/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	SW093	6.05	77	7.86	2.70
⬇	SPOUT*	303	82	449	299
⬇	GS13	29.3	72	51.4	24.0
⬇	A1EFF	24.6	41	46.0	20.0
⬇	A2EFF	19.9	45	41.4	15.0
⬇	A3EFF (A-4 inflow)	18.4	50	33.7	16.5
⬇	A4 POND	2.99	79	7.63	1.10
⬇	GS11	5.23	23	9.87	4.70
⬇	WALPOC	2.93	36	6.18	2.27
Downstream	GS03	2.34	31	4.85	1.70

Notes:

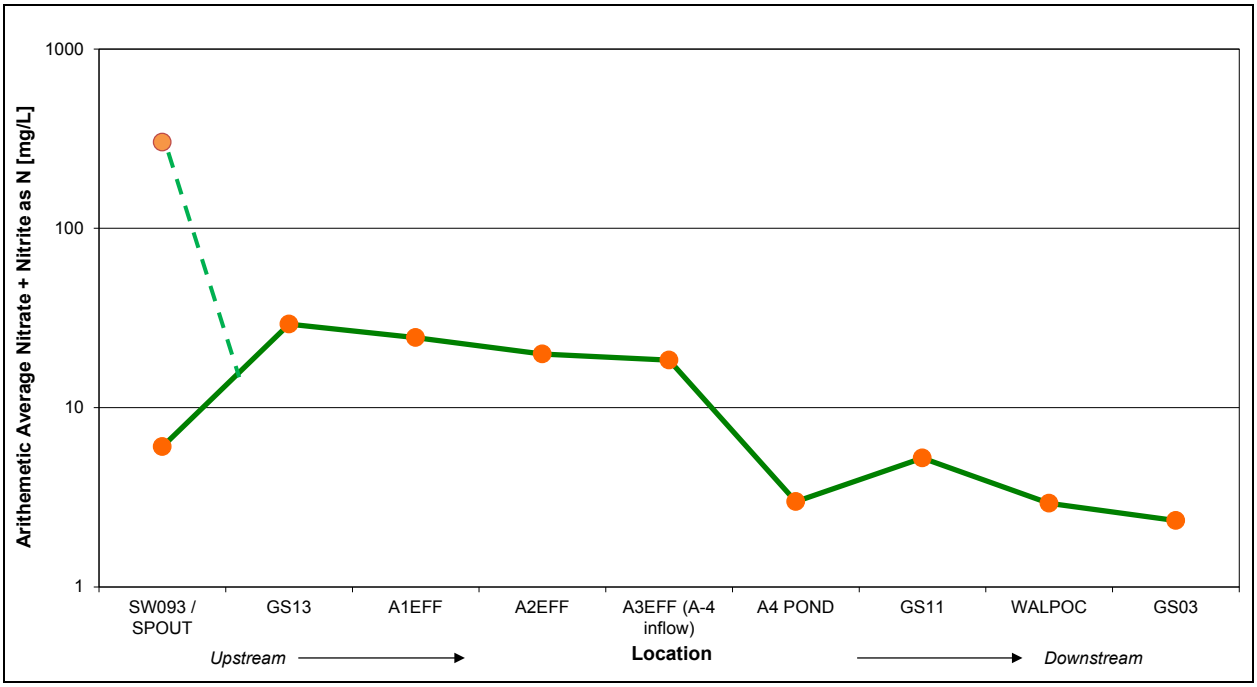
* SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Sample counts vary because some locations are periodically dry.

Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

Abbreviations:

mg/L = milligrams per liter



Notes:
Concentrations shown on logarithmic scale.
SPOUT (SPPTS effluent) is not located in North Walnut Creek but flows into a below-ground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.
Summary includes all data available as of February 6, 2015; some recent data are not validated (i.e., are preliminary and subject to revision).

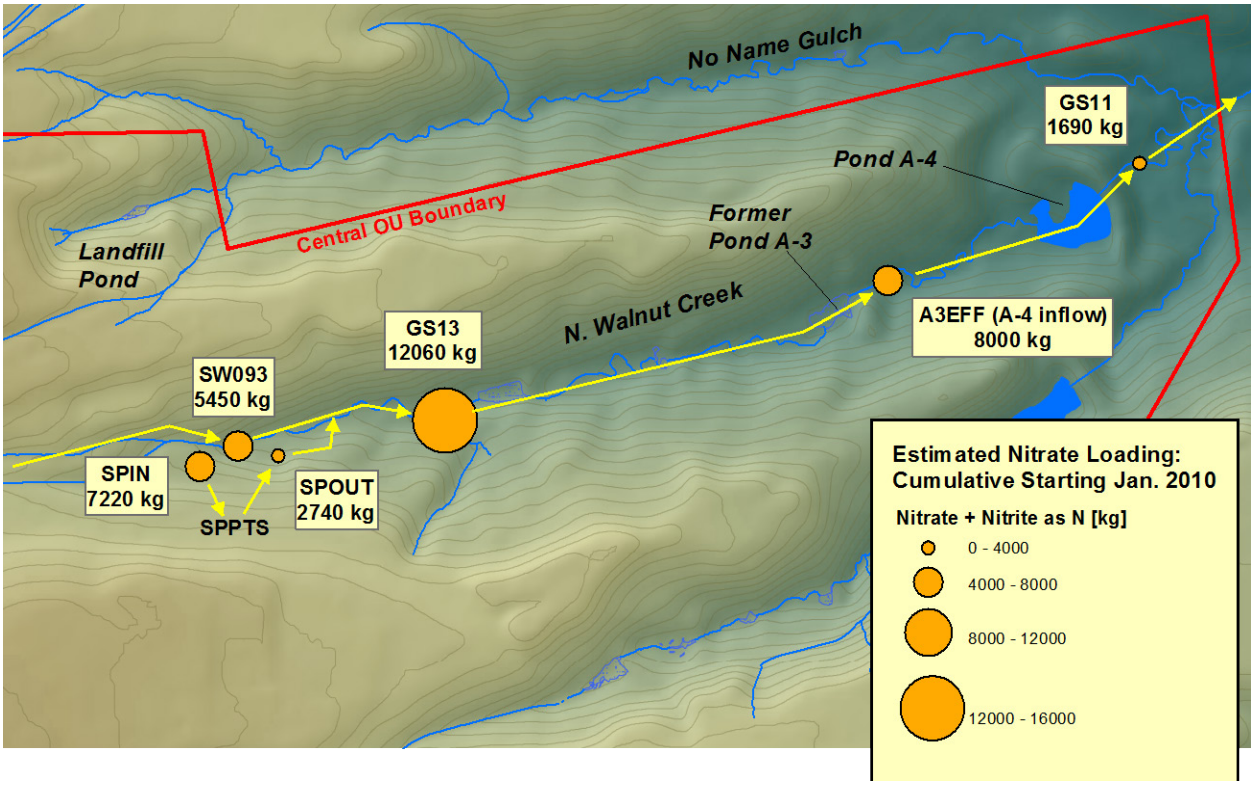
Abbreviations:
mg/L = milligrams per liter

Figure 46. Arithmetic Average Nitrate + Nitrite as N Concentration at North Walnut and Walnut Creek Grab Locations

The map in Figure 47 shows the estimated total nitrate + nitrite as N loads in North Walnut Creek since January 2010 (using all available sample results as of February 6, 2015).[12] While the SPPTS has removed approximately 60 percent of the nitrate load in the water it collects, the loads at both the system influent (SPIN) and effluent (SPOUT) are only a portion of the loads in North Walnut Creek. As with uranium, the SPPTS nitrate concentrations are higher than the creek concentrations, but the much larger creek flow volumes yield significantly larger loads. In fact, the nitrate load at SPOUT is estimated to be only about 20–25 percent of the load at GS13.

However, it should be noted that the grab samples collected in the creek are likely biased toward higher concentrations since they are generally collected during baseflow periods. In other words, high-volume runoff events with relatively lower concentrations are underrepresented in the average creek concentrations calculated from grab sample results. Therefore, the amount of nitrate + nitrite as N at creek locations could be overestimated. Assuming this is the case, the relative contribution from the SPPTS to North Walnut Creek would be larger than currently estimated.

[12] Loads are only calculated for locations with flow volume measurement.



Notes:
SPIN represents influent to the SPPTS, while SPOUT represents effluent.
Loads at SW093, GS13, GS12, and GS11 are calculated using results from flow-paced composites (Section 3.5).
Loads at SPIN and SPOUT are calculated using results from grab sampling related to this AMP objective and other treatment system optimization efforts.
Arrows indicate general flow routing.

Abbreviations:
kg = kilograms

Figure 47. Map Showing Estimated Nitrate + Nitrite as N Loads in North Walnut Creek: January 2010 to Present

4.0 Analytical Data: Fourth Quarter CY 2014

Table 10, "Analytical Results for Water Samples," is available at the end of this report.

Table 11, "Water Sampling Events: Fourth Quarter CY 2014," is available at the end of this report.

5.0 References

DOE (U.S. Department of Energy), 2007. *Rocky Flats Legacy Management Agreement*, Rocky Flats Environmental Technology Site, Golden, Colorado, March 14.

DOE (U.S. Department of Energy), 2011. *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment*, DOE/EA-1747, LMS/RFS/S06335, Office of Legacy Management, May.

DOE (U.S. Department of Energy), 2013a. *Surface Water Configuration Adaptive Management Plan for the Rocky Flats, Colorado, Site*, Revision 1.0, LMS/RFS/S07698, Office of Legacy Management, May.

DOE (U.S. Department of Energy), 2013b. *Rocky Flats , Colorado, Site Site Operations Guide*, Revision 6.0, LMS/RFS/S03037, Office of Legacy Management, Westminster, Colorado, July.

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	COLLECTION METHOD	LAB CODE
00193	WL	10/21/2014	14106549	07440-61-1	Uranium	0001	79.4	ug/L		F	0.067		FQ	G	GEN
00193	WL	10/21/2014	14106549	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		FQ	G	GEN
00193	WL	10/21/2014	14106549	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
00193	WL	10/21/2014	14106549	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
00193	WL	10/21/2014	14106549	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
00193	WL	10/21/2014	14106549	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
00193	WL	10/21/2014	14106549	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
00193	WL	10/21/2014	14106549	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		JFQ	G	GEN
00193	WL	10/21/2014	14106549	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		JFQ	G	GEN
00193	WL	10/21/2014	14106549	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000156-59-2	cis-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
00193	WL	10/21/2014	14106549	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
10304	WL	10/21/2014	14106549	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.017	mg/L	U	F	0.017		JF	G	GEN

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	COLLECTION METHOD	LAB CODE
10304	WL	10/21/2014	14106549	07440-61-1	Uranium	0001	10.7	ug/L		F	0.067		F	G	GEN
10304	WL	10/21/2014	14106549	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		F	G	GEN
10304	WL	10/21/2014	14106549	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
10304	WL	10/21/2014	14106549	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
10304	WL	10/21/2014	14106549	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
10304	WL	10/21/2014	14106549	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
10304	WL	10/21/2014	14106549	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		F	G	GEN
10304	WL	10/21/2014	14106549	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000079-01-6	Trichloroethene	N001	0.72	ug/L	J	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000156-59-2	cis-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
10304	WL	10/21/2014	14106549	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
11104	WL	11/5/2014	14116592	07440-61-1	Uranium	0001	22	ug/L		F	0.05		FQ	G	STD
11104	WL	11/5/2014	14116592	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD

Table 10. Analytical Results for Water Samples

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	COLLECTION METHOD	LAB CODE
11104	WL	11/5/2014	14116592	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000079-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-34-3	1,1-Dichloroethane	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
11104	WL	11/5/2014	14116592	000563-58-6	1,1-Dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
11104	WL	11/5/2014	14116592	000087-61-6	1,2,3-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000096-18-4	1,2,3-Trichloropropane	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
11104	WL	11/5/2014	14116592	000120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000095-63-6	1,2,4-Trimethylbenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
11104	WL	11/5/2014	14116592	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
11104	WL	11/5/2014	14116592	000106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
11104	WL	11/5/2014	14116592	000095-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
11104	WL	11/5/2014	14116592	000107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
11104	WL	11/5/2014	14116592	000078-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
11104	WL	11/5/2014	14116592	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
11104	WL	11/5/2014	14116592	000142-28-9	1,3-Dichloropropane	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
11104	WL	11/5/2014	14116592	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000594-20-7	2,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
11104	WL	11/5/2014	14116592	000078-93-3	2-Butanone	N001	2	ug/L	U	F	2		FQ	G	STD
11104	WL	11/5/2014	14116592	000095-49-8	2-Chlorotoluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000591-78-6	2-Hexanone	N001	1.7	ug/L	U	F	1.7		FQ	G	STD
11104	WL	11/5/2014	14116592	000106-43-4	4-Chlorotoluene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000108-10-1	4-Methyl-2-Pentanone	N001	0.98	ug/L	U	F	0.98		FQ	G	STD
11104	WL	11/5/2014	14116592	000067-64-1	Acetone	N001	2.6	ug/L	J	F	1.9		UFQ	G	STD
11104	WL	11/5/2014	14116592	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000108-86-1	Bromobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000074-97-5	Bromochloromethane	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
11104	WL	11/5/2014	14116592	000074-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-15-0	Carbon Disulfide	N001	0.45	ug/L	U	F	0.45		FQ	G	STD
11104	WL	11/5/2014	14116592	000056-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
11104	WL	11/5/2014	14116592	000108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-00-3	Chloroethane	N001	0.41	ug/L	U	F	0.41		FQ	G	STD
11104	WL	11/5/2014	14116592	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000074-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
11104	WL	11/5/2014	14116592	000074-95-3	Dibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-71-8	Dichlorodifluoromethane	N001	0.31	ug/L	U	F	0.31		FQ	G	STD
11104	WL	11/5/2014	14116592	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000087-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
11104	WL	11/5/2014	14116592	000098-82-8	Isopropylbenzene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
11104	WL	11/5/2014	14116592	000091-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
11104	WL	11/5/2014	14116592	000100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
11104	WL	11/5/2014	14116592	000108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	001330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
11104	WL	11/5/2014	14116592	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-69-4	Trichlorofluoromethane	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
11104	WL	11/5/2014	14116592	000075-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
11104	WL	11/5/2014	14116592	000156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
11104	WL	11/5/2014	14116592	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000104-51-8	n-Butylbenzene	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
11104	WL	11/5/2014	14116592	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000099-87-6	p-Isopropyltoluene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
11104	WL	11/5/2014	14116592	000135-98-8	sec-Butylbenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
11104	WL	11/5/2014	14116592	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
11104	WL	11/5/2014	14116592	000156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
11104	WL	11/5/2014	14116592	010061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	11/24/2014	14116624	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.063	mg/L		F	0.019		F	G	STD
4087	WL	11/24/2014	14116624	07440-61-1	Uranium	0001	20	ug/L		F	0.05		F	G	STD
4087	WL	11/24/2014	14116624	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000079-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F	G	STD

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	COLLECTION METHOD	LAB CODE
4087	WL	11/24/2014	14116624	000075-34-3	1,1-Dichloroethane	N001	0.22	ug/L	U	F	0.22		F	G	STD
4087	WL	11/24/2014	14116624	000075-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		F	G	STD
4087	WL	11/24/2014	14116624	000563-58-6	1,1-Dichloropropene	N001	0.19	ug/L	U	F	0.19		F	G	STD
4087	WL	11/24/2014	14116624	000087-61-6	1,2,3-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000096-18-4	1,2,3-Trichloropropane	N001	0.33	ug/L	U	F	0.33		F	G	STD
4087	WL	11/24/2014	14116624	000120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000095-63-6	1,2,4-Trimethylbenzene	N001	0.15	ug/L	U	F	0.15		F	G	STD
4087	WL	11/24/2014	14116624	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F	G	STD
4087	WL	11/24/2014	14116624	000106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F	G	STD
4087	WL	11/24/2014	14116624	000095-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F	G	STD
4087	WL	11/24/2014	14116624	000107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F	G	STD
4087	WL	11/24/2014	14116624	000078-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F	G	STD
4087	WL	11/24/2014	14116624	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F	G	STD
4087	WL	11/24/2014	14116624	000142-28-9	1,3-Dichloropropane	N001	0.22	ug/L	U	F	0.22		F	G	STD
4087	WL	11/24/2014	14116624	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000594-20-7	2,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F	G	STD
4087	WL	11/24/2014	14116624	000078-93-3	2-Butanone	N001	2	ug/L	U	F	2		F	G	STD
4087	WL	11/24/2014	14116624	000095-49-8	2-Chlorotoluene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000591-78-6	2-Hexanone	N001	1.7	ug/L	U	F	1.7		F	G	STD
4087	WL	11/24/2014	14116624	000106-43-4	4-Chlorotoluene	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000108-10-1	4-Methyl-2-Pentanone	N001	0.98	ug/L	U	F	0.98		F	G	STD
4087	WL	11/24/2014	14116624	000067-64-1	Acetone	N001	5.8	ug/L	J	F	1.9		F	G	STD
4087	WL	11/24/2014	14116624	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000108-86-1	Bromobenzene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000074-97-5	Bromochloromethane	N001	0.1	ug/L	U	F	0.1		F	G	STD
4087	WL	11/24/2014	14116624	000075-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000075-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F	G	STD
4087	WL	11/24/2014	14116624	000074-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F	G	STD
4087	WL	11/24/2014	14116624	000075-15-0	Carbon Disulfide	N001	0.45	ug/L	U	F	0.45		F	G	STD
4087	WL	11/24/2014	14116624	000056-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F	G	STD
4087	WL	11/24/2014	14116624	000108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000075-00-3	Chloroethane	N001	0.41	ug/L	U	F	0.41		F	G	STD
4087	WL	11/24/2014	14116624	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000074-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F	G	STD
4087	WL	11/24/2014	14116624	000074-95-3	Dibromomethane	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000075-71-8	Dichlorodifluoromethane	N001	0.31	ug/L	U	F	0.31		F	G	STD
4087	WL	11/24/2014	14116624	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000087-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F	G	STD
4087	WL	11/24/2014	14116624	000098-82-8	Isopropylbenzene	N001	0.19	ug/L	U	F	0.19		F	G	STD
4087	WL	11/24/2014	14116624	000075-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F	G	STD
4087	WL	11/24/2014	14116624	000091-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F	G	STD
4087	WL	11/24/2014	14116624	000100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		F	G	STD
4087	WL	11/24/2014	14116624	000108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	001330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F	G	STD
4087	WL	11/24/2014	14116624	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000075-69-4	Trichlorofluoromethane	N001	0.29	ug/L	U	F	0.29		F	G	STD
4087	WL	11/24/2014	14116624	000075-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F	G	STD
4087	WL	11/24/2014	14116624	000156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F	G	STD
4087	WL	11/24/2014	14116624	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000104-51-8	n-Butylbenzene	N001	0.32	ug/L	U	F	0.32		F	G	STD
4087	WL	11/24/2014	14116624	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000099-87-6	p-Isopropyltoluene	N001	0.2	ug/L	U	F	0.2		F	G	STD
4087	WL	11/24/2014	14116624	000135-98-8	sec-Butylbenzene	N001	0.17	ug/L	U	F	0.17		F	G	STD
4087	WL	11/24/2014	14116624	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
4087	WL	11/24/2014	14116624	000156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F	G	STD
4087	WL	11/24/2014	14116624	010061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F	G	STD
42505	WL	10/15/2014	14106541	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		FQ	G	GEN

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	COLLECTION METHOD	LAB CODE
42505	WL	10/15/2014	14106541	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
42505	WL	10/15/2014	14106541	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
42505	WL	10/15/2014	14106541	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
42505	WL	10/15/2014	14106541	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
42505	WL	10/15/2014	14106541	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		FQ	G	GEN
42505	WL	10/15/2014	14106541	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000156-59-2	cis-1,2-Dichloroethene	N001	0.45	ug/L	J	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
42505	WL	10/15/2014	14106541	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	GEN
89104	WL	10/23/2014	14106549	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		F	G	GEN
89104	WL	10/23/2014	14106549	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN

Table 10. Analytical Results for Water Samples

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	COLLECTION METHOD	LAB CODE
89104	WL	10/23/2014	14106549	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
89104	WL	10/23/2014	14106549	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
89104	WL	10/23/2014	14106549	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
89104	WL	10/23/2014	14106549	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		F	G	GEN
89104	WL	10/23/2014	14106549	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		F	G	GEN
89104	WL	10/23/2014	14106549	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000156-59-2	cis-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
89104	WL	10/23/2014	14106549	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		F	G	GEN
A1EFF	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	7.1	mg/L		F	0.19		valid	G	STD
A1EFF	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	13	ug/L		F	0.05		valid	G	STD
A1EFF	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	4.9	mg/L		F	0.019		J	G	STD
A1EFF	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	15	ug/L		F	0.05		valid	G	STD
A1EFF	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.2	mg/L		F	0.019		valid	G	STD
A1EFF	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	13	ug/L		F	0.05		valid	G	STD
A1EFF	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	19	mg/L		F	0.038		valid	G	STD
A1EFF	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	19	ug/L		F	0.05		valid	G	STD
A1EFF	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	30	mg/L		F	0.19		valid	G	STD
A1EFF	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	19	ug/L		F	0.05		valid	G	STD
A2EFF	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1	mg/L		F	0.019		valid	G	STD
A2EFF	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	22	ug/L		F	0.05		valid	G	STD
A2EFF	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.2	mg/L		F	0.019		J	G	STD
A2EFF	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	28	ug/L		F	0.05		valid	G	STD
A2EFF	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	4.9	mg/L		F	0.019		valid	G	STD
A2EFF	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	21	ug/L		F	0.05		valid	G	STD

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	COLLECTION METHOD	LAB CODE
A2EFF	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	6.9	mg/L		F	0.038		valid	G	STD
A2EFF	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	30	ug/L		F	0.05		valid	G	STD
A2EFF	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	22	mg/L		F	0.095		valid	G	STD
A2EFF	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	26	ug/L		F	0.05		valid	G	STD
A3EFF	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.53	mg/L		F	0.019		valid	G	STD
A3EFF	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	16	ug/L		F	0.05		valid	G	STD
A3EFF	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.31	mg/L		F	0.019		J	G	STD
A3EFF	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	20	ug/L		F	0.05		valid	G	STD
A3EFF	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.8	mg/L		F	0.019		valid	G	STD
A3EFF	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	21	ug/L		F	0.05		valid	G	STD
A3EFF	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
A3EFF	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	25	ug/L		F	0.05		valid	G	STD
A3EFF	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	3.9	mg/L		F	0.019		valid	G	STD
A3EFF	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	25	ug/L		F	0.05		valid	G	STD
A4 POND	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.8	mg/L		F	0.019		valid	G	STD
A4 POND	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	9.2	ug/L		F	0.05		valid	G	STD
A4 POND	SL	8/19/2014	14086426	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		J	G	STD
A4 POND	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	9.3	ug/L		F	0.05		valid	G	STD
A4 POND	SL	9/4/2014	14096472	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
A4 POND	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	7.6	ug/L		F	0.05		valid	G	STD
A4 POND	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		J	G	STD
A4 POND	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	7.5	ug/L		F	0.05		valid	G	STD
A4 POND	SL	9/29/2014	14106530	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
A4 POND	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	7	ug/L		F	0.05		valid	G	STD
A4 POND	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
A4 POND	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	7.4	ug/L		F	0.05		valid	G	STD
A4 POND	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
A4 POND	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	8	ug/L		F	0.05		valid	G	STD
A4 POND	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.4	mg/L		F	0.019		valid	G	STD
A4 POND	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	8.8	ug/L		F	0.05		valid	G	STD
B206989	WL	11/24/2014	14116624	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.5	mg/L		F	0.019		FQ	G	STD
B206989	WL	11/24/2014	14116624	07440-61-1	Uranium	0001	100	ug/L		F	0.05		FQ	G	STD
B206989	WL	11/24/2014	14116624	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000079-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-34-3	1,1-Dichloroethane	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
B206989	WL	11/24/2014	14116624	000563-58-6	1,1-Dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	11/24/2014	14116624	000087-61-6	1,2,3-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000096-18-4	1,2,3-Trichloropropane	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
B206989	WL	11/24/2014	14116624	000120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000095-63-6	1,2,4-Trimethylbenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	11/24/2014	14116624	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
B206989	WL	11/24/2014	14116624	000106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
B206989	WL	11/24/2014	14116624	000095-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	11/24/2014	14116624	000107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
B206989	WL	11/24/2014	14116624	000078-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
B206989	WL	11/24/2014	14116624	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
B206989	WL	11/24/2014	14116624	000142-28-9	1,3-Dichloropropane	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
B206989	WL	11/24/2014	14116624	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000594-20-7	2,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
B206989	WL	11/24/2014	14116624	000078-93-3	2-Butanone	N001	2	ug/L	U	F	2		FQ	G	STD
B206989	WL	11/24/2014	14116624	000095-49-8	2-Chlorotoluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000591-78-6	2-Hexanone	N001	1.7	ug/L	U	F	1.7		FQ	G	STD
B206989	WL	11/24/2014	14116624	000106-43-4	4-Chlorotoluene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000108-10-1	4-Methyl-2-Pentanone	N001	0.98	ug/L	U	F	0.98		FQ	G	STD
B206989	WL	11/24/2014	14116624	000067-64-1	Acetone	N001	2.7	ug/L	J	F	1.9		FQ	G	STD
B206989	WL	11/24/2014	14116624	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000108-86-1	Bromobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000074-97-5	Bromochloromethane	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	11/24/2014	14116624	000074-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-15-0	Carbon Disulfide	N001	0.45	ug/L	U	F	0.45		FQ	G	STD
B206989	WL	11/24/2014	14116624	000056-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD

Table 10. Analytical Results for Water Samples

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	COLLECTION METHOD	LAB CODE
B206989	WL	11/24/2014	14116624	000108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-00-3	Chloroethane	N001	0.41	ug/L	U	F	0.41		FQ	G	STD
B206989	WL	11/24/2014	14116624	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000074-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
B206989	WL	11/24/2014	14116624	000074-95-3	Dibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-71-8	Dichlorodifluoromethane	N001	0.31	ug/L	U	F	0.31		FQ	G	STD
B206989	WL	11/24/2014	14116624	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000087-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
B206989	WL	11/24/2014	14116624	000098-82-8	Isopropylbenzene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
B206989	WL	11/24/2014	14116624	000091-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
B206989	WL	11/24/2014	14116624	000100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
B206989	WL	11/24/2014	14116624	000108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	001330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	11/24/2014	14116624	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-69-4	Trichlorofluoromethane	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
B206989	WL	11/24/2014	14116624	000075-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
B206989	WL	11/24/2014	14116624	000156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	11/24/2014	14116624	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000104-51-8	n-Butylbenzene	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
B206989	WL	11/24/2014	14116624	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000099-87-6	p-Isopropyltoluene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
B206989	WL	11/24/2014	14116624	000135-98-8	sec-Butylbenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	11/24/2014	14116624	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	11/24/2014	14116624	000156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	11/24/2014	14116624	010061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
B3OUTFLOW	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	7.2	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	8/6/2014	14086400	07440-61-1	Uranium	N002	7.1	ug/L		D	0.05		valid	G	STD
B3OUTFLOW	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	5.3	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	4.9	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	5.4	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	3.8	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	6.7	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	7.8	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	11	ug/L		F	0.05		valid	G	STD
B5 POND	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	5.4	ug/L		F	0.05		valid	G	STD
B5 POND	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	4.5	ug/L		F	0.05		valid	G	STD
B5 POND	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	3.9	ug/L		F	0.05		valid	G	STD
B5 POND	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	4.4	ug/L		F	0.05		valid	G	STD
B5 POND	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	3.9	ug/L		F	0.05		valid	G	STD
B5 POND	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	4.2	ug/L		F	0.05		valid	G	STD
B5 POND	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	4.6	ug/L		F	0.05		valid	G	STD
B5 POND	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	4	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	7/30/2014	14086427	07440-61-1	Uranium	N001	7.24	ug/L		F	0.067		valid	C	GEN
B5INFLOW	SL	8/6/2014	14086406	07440-61-1	Uranium	N001	7.8	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	8/18/2014	14096496	07440-61-1	Uranium	N001	6	ug/L		F	0.05		valid	C	STD
B5INFLOW	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	8	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	7.3	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	6.1	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	8.1	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	9.2	ug/L		F	0.05		valid	G	STD
GS01	SL	6/3/2014	14106550	AM-241	Americium-241	N001	-0.00182	pCi/L	U	F	0.0183	0.00799	valid	C	GEN
GS01	SL	6/3/2014	14106550	PU-239,240	Plutonium-239, 240	N001	0.00127	pCi/L	U	F	0.0131	0.0134	valid	C	GEN
GS01	SL	6/3/2014	14106550	07440-61-1	Uranium	N001	5.42	ug/L		F	0.067		valid	C	GEN
GS01	SL	10/2/2014	14106577	AM-241	Americium-241	N001	0.00467	pCi/L	U	F	0.0185	0.00725	valid	C	GEN
GS01	SL	10/2/2014	14106577	PU-239,240	Plutonium-239, 240	N001	0.00796	pCi/L	U	F	0.0171	0.00742	valid	C	GEN
GS01	SL	10/2/2014	14106577	07440-61-1	Uranium	N001	3.56	ug/L		F	0.067		valid	C	GEN
GS03	SL	7/10/2014	14086419	AM-241	Americium-241	N001	0.00817	pCi/L	U	F	0.0128	0.01	valid	C	GEN
GS03	SL	7/10/2014	14086419	PU-239,240	Plutonium-239, 240	N001	-0.00207	pCi/L	U	F	0.0165	0.00908	valid	C	GEN
GS03	SL	7/10/2014	14086419	07440-61-1	Uranium	N001	6.68	ug/L		F	0.067		valid	C	GEN
GS03	SL	7/31/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1	mg/L		F	0.019		valid	G	STD
GS08	SL	7/2/2014	14086427	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0234	0.00638	valid	C	GEN
GS08	SL	7/2/2014	14086427	AM-241	Americium-241	N002	0.00826	pCi/L	U	D	0.014	0.00856	valid	C	GEN
GS08	SL	7/2/2014	14086427	PU-239,240	Plutonium-239, 240	N001	0.00284	pCi/L	U	F	0.0185	0.00788	valid	C	GEN
GS08	SL	7/2/2014	14086427	PU-239,240	Plutonium-239, 240	N002	0.00535	pCi/L	U	D	0.0174	0.00644	valid	C	GEN

Table 10. Analytical Results for Water Samples

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	COLLECTION METHOD	LAB CODE
GS08	SL	7/2/2014	14086427	07440-61-1	Uranium	N001	6.35	ug/L		F	0.067		valid	C	GEN
GS08	SL	7/2/2014	14086427	07440-61-1	Uranium	N002	6.26	ug/L		D	0.067		valid	C	GEN
GS08	SL	8/18/2014	14106551	AM-241	Americium-241	N001	0.0174	pCi/L		F	0.0159	0.0143	valid	C	GEN
GS08	SL	8/18/2014	14106551	PU-239,240	Plutonium-239, 240	N001	0.0207	pCi/L		F	0.0165	0.0137	valid	C	GEN
GS08	SL	8/18/2014	14106551	07440-61-1	Uranium	N001	5.72	ug/L		F	0.067		valid	C	GEN
GS10	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	7.6	ug/L		F	0.05		valid	G	STD
GS10	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	6.7	ug/L		F	0.05		valid	G	STD
GS10	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	6	ug/L		F	0.05		valid	G	STD
GS10	SL	9/4/2014	14096472	07440-61-1	Uranium	N002	5.9	ug/L		D	0.05		valid	G	STD
GS10	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	7.5	ug/L		F	0.05		valid	G	STD
GS10	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	6.4	ug/L		F	0.05		valid	G	STD
GS10	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	8	ug/L		F	0.05		valid	G	STD
GS10	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	9.5	ug/L		F	0.05		valid	G	STD
GS10	SL	11/17/2014	14116617	07440-61-1	Uranium	N002	12	ug/L		F	0.05		valid	G	STD
GS11	SL	5/20/2014	14086427	AM-241	Americium-241	N003	-0.00503	pCi/L	U	F	0.017	0.00987	valid	C	GEN
GS11	SL	5/20/2014	14086427	PU-239,240	Plutonium-239, 240	N003	-0.00288	pCi/L	U	F	0.0187	0.0069	valid	C	GEN
GS11	SL	5/20/2014	14086427	07440-61-1	Uranium	N003	13.3	ug/L		F	0.067		valid	C	GEN
GS12	SL	7/10/2014	14086427	07440-61-1	Uranium	N001	9.62	ug/L		F	0.067		valid	C	GEN
GS12	SL	8/18/2014	14116594	07440-61-1	Uranium	N001	21	ug/L		F	0.05		valid	C	STD
GS13	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	15	mg/L		F	0.19		valid	G	STD
GS13	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	12	ug/L		F	0.05		valid	G	STD
GS13	SL	8/19/2014	14086426	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	3.8	mg/L		F	0.19		J	G	STD
GS13	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	25	ug/L		F	0.05		valid	G	STD
GS13	SL	9/4/2014	14096472	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	4.3	mg/L		F	0.019		valid	G	STD
GS13	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	26	ug/L		F	0.05		valid	G	STD
GS13	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	8.1	mg/L		F	0.038		J	G	STD
GS13	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	27	ug/L		F	0.05		valid	G	STD
GS13	SL	9/29/2014	14106530	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.8	mg/L		F	0.019		valid	G	STD
GS13	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	30	ug/L		F	0.05		valid	G	STD
GS13	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	21	mg/L		F	0.095		valid	G	STD
GS13	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	14	ug/L		F	0.05		valid	G	STD
GS13	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	32	mg/L		F	0.095		valid	G	STD
GS13	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	19	ug/L		F	0.05		valid	G	STD
GS13	SL	11/17/2014	14116599	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	34	mg/L		F	0.095		valid	G	STD
GS13	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	32	mg/L		F	0.19		valid	G	STD
GS13	SL	11/17/2014	14116617	07440-61-1	Uranium	N002	14	ug/L		F	0.05		valid	G	STD
GS31	SL	8/6/2014	14106550	AM-241	Americium-241	N001	0.00608	pCi/L	U	F	0.0122	0.00924	valid	C	GEN
GS31	SL	8/6/2014	14106550	PU-239,240	Plutonium-239, 240	N001	0.0238	pCi/L		F	0.013	0.0129	valid	C	GEN
GS31	SL	8/6/2014	14106550	07440-61-1	Uranium	N001	7.57	ug/L		F	0.067		valid	C	GEN
SPOUT	TS	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	69	mg/L		F	0.38		valid	G	STD
SPOUT	TS	8/6/2014	14086400	07440-61-1	Uranium	N001	65	ug/L		F	0.05		valid	G	STD
SPOUT	TS	8/19/2014	14086426	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	120	mg/L		F	0.38		J	G	STD
SPOUT	TS	8/19/2014	14086426	07440-61-1	Uranium	N001	57	ug/L		F	0.05		valid	G	STD
SPOUT	TS	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	34	mg/L		F	0.19		J	G	STD
SPOUT	TS	9/17/2014	14096501	07440-61-1	Uranium	N001	46	ug/L		F	0.05		valid	G	STD
SPOUT	TS	9/29/2014	14106530	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	30	mg/L		F	0.19		valid	G	STD
SPOUT	TS	9/29/2014	14106530	07440-61-1	Uranium	N001	37	ug/L		F	0.05		valid	G	STD
SPOUT	TS	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	120	mg/L		F	0.38		valid	G	STD
SPOUT	TS	10/14/2014	14106544	07440-61-1	Uranium	N001	35	ug/L		F	0.05		valid	G	STD
SPOUT	TS	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	16	mg/L		F	0.038		valid	G	STD
SPOUT	TS	10/30/2014	14116586	07440-61-1	Uranium	N001	41	ug/L		F	0.05		valid	G	STD
SPOUT	TS	11/17/2014	14116599	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.022	mg/L	J	F	0.019		valid	G	STD
SPOUT	TS	11/17/2014	14116599	07440-61-1	Uranium	N001	34	ug/L		F	0.05		valid	G	STD
SPOUT	TS	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	0.066	mg/L		F	0.019		valid	G	STD
SPOUT	TS	11/17/2014	14116617	07440-61-1	Uranium	N002	30	ug/L		F	0.05		valid	G	STD
SW093	SL	8/6/2014	14086400	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.58	mg/L		F	0.019		valid	G	STD
SW093	SL	8/6/2014	14086400	07440-61-1	Uranium	N001	2.9	ug/L		F	0.05		valid	G	STD
SW093	SL	8/19/2014	14086426	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.2	mg/L	H	F	0.019		J	G	STD
SW093	SL	8/19/2014	14086426	07440-61-1	Uranium	N001	68	ug/L		F	0.05		R	G	STD
SW093	SL	9/4/2014	14096472	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.8	mg/L		F	0.019		valid	G	STD
SW093	SL	9/4/2014	14096472	07440-61-1	Uranium	N001	4.8	ug/L		F	0.05		valid	G	STD
SW093	SL	9/17/2014	14096501	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.4	mg/L		F	0.019		J	G	STD
SW093	SL	9/17/2014	14096501	07440-61-1	Uranium	N001	4.7	ug/L		F	0.05		valid	G	STD
SW093	SL	9/29/2014	14106530	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.8	mg/L		F	0.019		valid	G	STD
SW093	SL	9/29/2014	14106530	07440-61-1	Uranium	N001	4.8	ug/L		F	0.05		valid	G	STD
SW093	SL	10/14/2014	14106544	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.5	mg/L		F	0.019		valid	G	STD
SW093	SL	10/14/2014	14106544	07440-61-1	Uranium	N001	3.3	ug/L		F	0.05		valid	G	STD

Table 10. Analytical Results for Water Samples

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	COLLECTION METHOD	LAB CODE
SW093	SL	10/30/2014	14116586	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.6	mg/L		F	0.019		valid	G	STD
SW093	SL	10/30/2014	14116586	07440-61-1	Uranium	N001	4.5	ug/L		F	0.05		valid	G	STD
SW093	SL	11/17/2014	14116617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.98	mg/L		F	0.019		valid	G	STD
SW093	SL	11/17/2014	14116617	07440-61-1	Uranium	N001	3.7	ug/L		F	0.05		valid	G	STD
WALPOC	SL	8/12/2014	14106578	AM-241	Americium-241	N001	0.0027	pCi/L	U	F	0.0136	0.00649	valid	C	GEN
WALPOC	SL	8/12/2014	14106578	PU-239,240	Plutonium-239, 240	N001	0.00605	pCi/L	U	F	0.0157	0.0084	valid	C	GEN
WALPOC	SL	8/12/2014	14106578	07440-61-1	Uranium	N001	8.55	ug/L		F	0.067		valid	C	GEN
WALPOC	SL	9/10/2014	14096491	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
WALPOC	SL	10/23/2014	14106578	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.017	mg/L	U	F	0.017		J	G	GEN
WOMPOC	SL	8/6/2014	14096495	AM-241	Americium-241	N001	0.00377	pCi/L	U	F	0.0191	0.0105	valid	C	GEN
WOMPOC	SL	8/6/2014	14096495	PU-239,240	Plutonium-239, 240	N001	0.0039	pCi/L	U	F	0.0169	0.0146	valid	C	GEN
WOMPOC	SL	8/6/2014	14096495	07440-61-1	Uranium	N001	3.67	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	9/17/2014	14106552	AM-241	Americium-241	N001	0.0116	pCi/L	U	F	0.0145	0.0106	valid	C	GEN
WOMPOC	SL	9/17/2014	14106552	PU-239,240	Plutonium-239, 240	N001	0.00467	pCi/L	U	F	0.0121	0.00649	valid	C	GEN
WOMPOC	SL	9/17/2014	14106552	07440-61-1	Uranium	N001	1.69	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	10/2/2014	14106552	AM-241	Americium-241	N001	0.0022	pCi/L	U	F	0.011	0.00682	valid	C	GEN
WOMPOC	SL	10/2/2014	14106552	PU-239,240	Plutonium-239, 240	N001	0.00245	pCi/L	U	F	0.0127	0.00589	valid	C	GEN
WOMPOC	SL	10/2/2014	14106552	07440-61-1	Uranium	N001	1.3	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	10/13/2014	14106578	AM-241	Americium-241	N001	0.00174	pCi/L	U	F	0.0174	0.0102	valid	C	GEN
WOMPOC	SL	10/13/2014	14106578	PU-239,240	Plutonium-239, 240	N001	0.00235	pCi/L	U	F	0.0122	0.00799	valid	C	GEN
WOMPOC	SL	10/13/2014	14106578	07440-61-1	Uranium	N001	1.11	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	10/23/2014	14116637	AM-241	Americium-241	N001	-1.43E-09	pCi/L	U	F	0.034	0.0134	valid	C	GEN
WOMPOC	SL	10/23/2014	14116637	PU-239,240	Plutonium-239, 240	N001	-0.0013	pCi/L	U	F	0.0195	0.00843	valid	C	GEN
WOMPOC	SL	10/23/2014	14116637	07440-61-1	Uranium	N001	1.57	ug/L		F	0.067		valid	C	GEN

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	
G	
J	
L	
Q	
R	
U	
X	
999	idation not complete

LAB_QUALIFIERS

*	
+	
>	
A	
B	yte also found in method blank.
C	
D	
E	ılyte exceeded calibration range of the GC-MS.
H	
I	
J	
M	
N	ıic: Tentatively identified compund (TIC).
P	columns.
S	
U	
W	alytical spike absorbance.
X	
Y	
Z	

LOCATION_TYPE

SL	
TS	
WL	

COLLECTION_METHOD

G	Grab
C	Composite

LAB_CODE

GEN	Gel Laboratories
STD	Test America

Table 11. Water Sampling Events: Fourth Quarter CY 2014

	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
Location Code	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
GS11	5/20/2014 10:08	8/18/2014 11:58	composite	F	No		X		X		MJS 804	14086427
GS01	6/3/2014 12:47	10/2/2014 14:07	composite	F	No		X		X		MLW 352	14106550
GS08	7/2/2014 9:50	8/18/2014 11:39	composite	F	No		X		X		MJS 801	14086427
GS08	7/2/2014 9:50	8/18/2014 11:39	composite	D	No		X		X		MJS 803	14086427
GS12	7/10/2014 11:14	8/18/2014 11:10	composite	F	No		X				MJS 802	14086427
GS03	7/10/2014 11:57	8/12/2014 12:36	composite	F	No		X		X		MJS 660	14086419
B5INFLOW	7/30/2014 15:29	8/18/2014 12:16	composite	F	No		X				MJS 805	14086427
GS03	7/31/2014 14:50	7/31/2014 14:50	grab	F	No			X			MJS 274	14086400
B3OUTFLOW	8/6/2014 10:52	8/6/2014 10:52	grab	D	No		X				MJS 280	14086400
B3OUTFLOW	8/6/2014 10:52	8/6/2014 10:52	grab	F	No		X				MJS 268	14086400
GS10	8/6/2014 11:00	8/6/2014 11:00	grab	F	No		X				MJS 267	14086400
GS13	8/6/2014 12:02	8/6/2014 12:02	grab	F	No		X	X			MJS 273	14086400
SPOUT	8/6/2014 12:16	8/6/2014 12:16	grab	F	No		X	X			MJS 272	14086400
SW093	8/6/2014 12:20	8/6/2014 12:20	grab	F	No		X	X			MJS 270	14086400
A2EFF	8/6/2014 12:43	8/6/2014 12:43	grab	F	No		X	X			MJS 276	14086400
A1EFF	8/6/2014 12:49	8/6/2014 12:49	grab	F	No		X	X			MJS 275	14086400
B5INFLOW	8/6/2014 12:59	8/6/2014 12:59	grab	F	No		X				MJS 371	14086406
B5 POND	8/6/2014 13:10	8/6/2014 13:10	grab	F	No		X				MJS 271	14086400
A4 POND	8/6/2014 13:20	8/6/2014 13:20	grab	F	No		X	X			MJS 278	14086400
A3EFF	8/6/2014 13:55	8/6/2014 13:55	grab	F	No		X	X			MJS 277	14086400
WOMPOC	8/6/2014 14:58	9/17/2014 13:50	composite	F	No		X		X		MKT 742	14096495
GS31	8/6/2014 15:24	10/13/2014 12:00	composite	F	No		X		X		MLW 353	14106550
WALPOC	8/12/2014 11:06	10/23/2014 12:31	composite	F	No		X		X		MLX 812	14106578
GS12	8/18/2014 11:08	10/30/2014 12:47	composite	F	No		X				MMR 725	14116594
GS08	8/18/2014 11:39	10/15/2014 10:19	composite	F	No		X		X		MLW 354	14106551
B5INFLOW	8/18/2014 12:16	9/16/2014 14:10	composite	F	No		X				MKT 744	14096496
GS10	8/19/2014 10:24	8/19/2014 10:24	grab	F	No		X				MJS 786	14086426
B3OUTFLOW	8/19/2014 10:53	8/19/2014 10:53	grab	F	No		X				MJS 787	14086426
SPOUT	8/19/2014 11:50	8/19/2014 11:50	grab	F	No		X	X			MJS 791	14086426
SW093	8/19/2014 11:53	8/19/2014 11:53	grab	F	No		X	X			MJS 789	14086426
GS13	8/19/2014 12:00	8/19/2014 12:00	grab	F	No		X	X			MJS 792	14086426
A4 POND	8/19/2014 12:40	8/19/2014 12:40	grab	F	No		X	X			MJS 797	14086426
B5 POND	8/19/2014 12:45	8/19/2014 12:45	grab	F	No		X				MJS 790	14086426
SW093	9/4/2014 11:06	9/4/2014 11:06	grab	F	No		X	X			MKT 478	14096472
GS13	9/4/2014 11:24	9/4/2014 11:24	grab	F	No		X	X			MKT 481	14096472
A4 POND	9/4/2014 12:08	9/4/2014 12:08	grab	F	No		X	X			MKT 484	14096472
B5 POND	9/4/2014 12:12	9/4/2014 12:12	grab	F	No		X				MKT 479	14096472
GS10	9/4/2014 13:01	9/4/2014 13:01	grab	D	No		X				MKT 480	14096472
GS10	9/4/2014 13:01	9/4/2014 13:01	grab	F	No		X				MKT 485	14096472
B3OUTFLOW	9/4/2014 13:17	9/4/2014 13:17	grab	F	No		X				MKT 483	14096472
WALPOC	9/10/2014 13:15	9/10/2014 13:15	grab	F	No			X			MKT 628	14096491
SPOUT	9/17/2014 10:23	9/17/2014 10:23	grab	F	No		X	X			MKT 785	14096501
SW093	9/17/2014 10:43	9/17/2014 10:43	grab	F	No		X	X			MKT 783	14096501
GS13	9/17/2014 11:12	9/17/2014 11:12	grab	F	No		X	X			MKT 786	14096501

Table 11. Water Sampling Events: Fourth Quarter CY 2014

	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
Location Code	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
A1EFF	9/17/2014 11:20	9/17/2014 11:20	grab	F	No		X	X			MKT 788	14096501
A2EFF	9/17/2014 11:25	9/17/2014 11:25	grab	F	No		X	X			MKT 789	14096501
A3EFF	9/17/2014 11:47	9/17/2014 11:47	grab	F	No		X	X			MKT 790	14096501
A4 POND	9/17/2014 11:56	9/17/2014 11:56	grab	F	No		X	X			MKT 791	14096501
B5 POND	9/17/2014 12:01	9/17/2014 12:01	grab	F	No		X				MKT 784	14096501
B5INFLOW	9/17/2014 12:10	9/17/2014 12:10	grab	F	No		X				MKT 793	14096501
GS10	9/17/2014 12:50	9/17/2014 12:50	grab	F	No		X				MKT 781	14096501
B3OUTFLOW	9/17/2014 13:28	9/17/2014 13:28	grab	F	No		X				MKT 782	14096501
WOMPOC	9/17/2014 13:50	10/2/2014 13:43	composite	F	No		X		X		MLW 358	14106552
SPOUT	9/29/2014 11:00	9/29/2014 11:00	grab	F	No		X	X			MLU 579	14106530
SW093	9/29/2014 11:11	9/29/2014 11:11	grab	F	No		X	X			MLU 578	14106530
GS13	9/29/2014 11:30	9/29/2014 11:30	grab	F	No		X	X			MLU 580	14106530
A4 POND	9/29/2014 12:06	9/29/2014 12:06	grab	F	No		X	X			MLU 586	14106530
B5 POND	9/29/2014 12:15	9/29/2014 12:15	grab	F	No		X				MLU 592	14106530
B5INFLOW	9/29/2014 12:21	9/29/2014 12:21	grab	F	No		X				MLU 581	14106530
GS10	9/29/2014 13:00	9/29/2014 13:00	grab	F	No		X				MLU 588	14106530
B3OUTFLOW	9/29/2014 13:21	9/29/2014 13:21	grab	F	No		X				MLU 583	14106530
WOMPOC	10/2/2014 13:43	10/13/2014 11:49	composite	F	No		X		X		MLW 356	14106552
GS01	10/2/2014 14:07	10/23/2014 13:52	composite	F	No		X		X		MLX 811	14106577
WOMPOC	10/13/2014 11:49	10/23/2014 13:32	composite	F	No		X		X		MLX 814	14106578
SPOUT	10/14/2014 10:48	10/14/2014 10:48	grab	F	No		X	X			MLV 921	14106544
SW093	10/14/2014 10:52	10/14/2014 10:52	grab	F	No		X	X			MLV 919	14106544
GS13	10/14/2014 11:04	10/14/2014 11:04	grab	F	No		X	X			MLV 922	14106544
A1EFF	10/14/2014 11:18	10/14/2014 11:18	grab	F	No		X	X			MLV 924	14106544
A2EFF	10/14/2014 11:23	10/14/2014 11:23	grab	F	No		X	X			MLV 925	14106544
A3EFF	10/14/2014 12:10	10/14/2014 12:10	grab	F	No		X	X			MLV 926	14106544
A4 POND	10/14/2014 12:22	10/14/2014 12:22	grab	F	No		X	X			MLV 927	14106544
B5 POND	10/14/2014 12:26	10/14/2014 12:26	grab	F	No		X				MLV 920	14106544
B5INFLOW	10/14/2014 12:34	10/14/2014 12:34	grab	F	No		X				MLV 929	14106544
GS10	10/14/2014 13:05	10/14/2014 13:05	grab	F	No		X				MLV 917	14106544
B3OUTFLOW	10/14/2014 13:30	10/14/2014 13:30	grab	F	No		X				MLV 918	14106544
42505	10/15/2014 11:45	10/15/2014 11:45	grab	F	No	X					MLV 112	14106541
00193	10/21/2014 11:15	10/21/2014 11:15	grab	F	No	X					MLW 286	14106549
00193	10/21/2014 11:15	10/21/2014 11:15	grab	F	Yes		X				MLW 286	14106549
10304	10/21/2014 12:55	10/21/2014 12:55	grab	F	No	X		X			MLW 290	14106549
10304	10/21/2014 12:55	10/21/2014 12:55	grab	F	Yes		X				MLW 290	14106549
89104	10/23/2014 10:25	10/23/2014 10:25	grab	F	No	X					MLW 287	14106549
WALPOC	10/23/2014 11:34	10/23/2014 11:34	grab	F	No			X			MLX 815	14106578
WOMPOC	10/23/2014 13:32	11/19/2014 12:15	composite	F	No		X		X		MMS 538	14116637
SPOUT	10/30/2014 11:08	10/30/2014 11:08	grab	F	No		X	X			MMR 643	14116586
SW093	10/30/2014 11:15	10/30/2014 11:15	grab	F	No		X	X			MMR 641	14116586
GS13	10/30/2014 11:42	10/30/2014 11:42	grab	F	No		X	X			MMR 644	14116586
A1EFF	10/30/2014 12:08	10/30/2014 12:08	grab	F	No		X	X			MMR 646	14116586
A2EFF	10/30/2014 12:18	10/30/2014 12:18	grab	F	No		X	X			MMR 647	14116586
A3EFF	10/30/2014 12:38	10/30/2014 12:38	grab	F	No		X	X			MMR 648	14116586
A4 POND	10/30/2014 12:55	10/30/2014 12:55	grab	F	No		X	X			MMR 649	14116586
B5 POND	10/30/2014 12:59	10/30/2014 12:59	grab	F	No		X				MMR 642	14116586
B5INFLOW	10/30/2014 13:05	10/30/2014 13:05	grab	F	No		X				MMR 651	14116586
GS10	10/30/2014 13:48	10/30/2014 13:48	grab	F	No		X				MMR 639	14116586

Table 11. Water Sampling Events: Fourth Quarter CY 2014

	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
Location Code	**Start**	**End**	**Collection Method**	**Type**	**Filtered**	**VOC**	**U**	**Nitrate**	**Pu/Am**	**TSS**	**Ticket**	**RIN #**
B3OUTFLOW	10/30/2014 14:04	10/30/2014 14:04	grab	F	No		X				MMR 640	14116586
11104	11/5/2014 13:55	11/5/2014 13:55	grab	F	No	X					MMR 678	14116592
11104	11/5/2014 13:55	11/5/2014 13:55	grab	F	Yes		X				MMR 678	14116592
SPOUT	11/17/2014 10:45	11/17/2014 10:45	grab	F	No		X	X			MMS 328	14116617
SPOUT	11/17/2014 11:00	11/17/2014 11:00	grab	F	No		X	X			MMR 780	14116599
SW093	11/17/2014 11:30	11/17/2014 11:30	grab	F	No		X	X			MMS 326	14116617
GS13	11/17/2014 11:55	11/17/2014 11:55	grab	F	No		X	X			MMS 329	14116617
A1EFF	11/17/2014 12:10	11/17/2014 12:10	grab	F	No		X	X			MMS 331	14116617
A2EFF	11/17/2014 12:15	11/17/2014 12:15	grab	F	No		X	X			MMS 332	14116617
GS13	11/17/2014 12:25	11/17/2014 12:25	grab	F	No			X			MMR 787	14116599
A3EFF	11/17/2014 12:45	11/17/2014 12:45	grab	F	No		X	X			MMS 333	14116617
A4 POND	11/17/2014 13:05	11/17/2014 13:05	grab	F	No		X	X			MMS 334	14116617
B5 POND	11/17/2014 13:40	11/17/2014 13:40	grab	F	No		X				MMS 327	14116617
B5INFLOW	11/17/2014 13:46	11/17/2014 13:46	grab	F	No		X				MMS 336	14116617
B3OUTFLOW	11/17/2014 14:08	11/17/2014 14:08	grab	F	No		X				MMS 325	14116617
GS10	11/17/2014 14:12	11/17/2014 14:12	grab	F	No		X				MMS 324	14116617
4087	11/24/2014 14:35	11/24/2014 14:35	grab	F	No	X		X			MMS 408	14116624
4087	11/24/2014 14:35	11/24/2014 14:35	grab	F	Yes		X				MMS 408	14116624
B206989	11/24/2014 15:20	11/24/2014 15:20	grab	F	No	X		X			MMS 409	14116624
B206989	11/24/2014 15:20	11/24/2014 15:20	grab	F	Yes		X				MMS 409	14116624

XPLANATION

ample Info: Type
F = Field Sample
D = Duplicate

Analytes
olatile organic compounds
U = uranium
e = nitrate + nitrite as N
ium-239,240 and americium-241
ni-volatile organic compounds
= total suspended solids

Sample Tracking Info: Ticket
- tracking identifier

Sample Tracking Info: RIN#
- lab requisition number

Sample Tracking Info: COC Date
- Chain of Custody date

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