

**Rocky Flats Site, Colorado,
Surface Water Configuration
Adaptive Management Plan
Quarterly Report**

Third Quarter Calendar Year 2016

October 2016



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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Abbreviations

AMP	Adaptive Management Plan
CY	calendar year
DOE	U.S. Department of Energy
EA	<i>Rocky Flats Surface Water Configuration Environmental Assessment</i>
POC	Point of Compliance
RFLMA	<i>Rocky Flats Legacy Management Agreement</i>
Site	Rocky Flats Site

1.0 Introduction

The Proposed Action assessed in the *Rocky Flats Surface Water Configuration Environmental Assessment* (EA) is to breach the remaining retention pond dams at the Rocky Flats Site, Colorado (the Site), to allow surface water flow to return to the approximate conditions that prevailed before the retention ponds were constructed. As stated in the EA, based on extensive water quality monitoring data and a thorough environmental review, 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 prior to implementing the final steps of the Proposed Action to help reduce uncertainty as to whether completion of the Proposed Action will adversely impact the quality of water flowing from the Site into downstream communities. In response to the requests, DOE initiated a cooperative effort with neighboring community representatives and other interested stakeholders to develop and implement an Adaptive Management Plan (AMP) 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 that the AMP describes.

The AMP provides for a monitoring and data evaluation program to assist DOE in deciding whether to implement the final steps of the Proposed Action by 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, this AMP identifies certain performance indicators that DOE will consider in deciding whether to adjust the time frame for completing the Proposed Action.

This AMP Quarterly Report for the third quarter of calendar year (CY) 2016 is provided in accordance with Section 5.0, "Reporting," in the AMP. Section 3.0 of this report provides the third quarter data summary tables, which include all validated analytical data for the AMP monitoring objectives available as of September 30, 2016. Subsequent AMP reports will include data that were not tabulated in previous AMP reports.

AMP monitoring objectives, locations, and sampling criteria are itemized in Table 2 of the AMP. Additional field implementation for the AMP monitoring objectives can be found in the *Rocky Flats Site Operations Guide*, Appendix I, "Rocky Flats Site, Colorado, Additional Field Implementation Detail for Selected Monitoring Objectives."

This report routinely includes analytical data for the following AMP monitoring objectives:

- Pre-discharge sampling (Item 1, AMP Table 2)
- Targeted groundwater monitoring (Item 2, AMP Table 2)
- Monitoring to evaluate flow-through operations at terminal Ponds A-4, B-5, and C-2 (Item 4, AMP Table 2)
- Storm-event monitoring (Item 5, AMP Table 2)

- Continuous flow-paced composite sampling to evaluate uranium transport (Item 6, AMP Table 2)
- Grab sampling for uranium in North and South Walnut Creeks (Item 7, AMP Table 2)
- Grab sampling for nitrate + nitrite as N in Walnut Creek (Item 8, AMP Table 2)

2.0 AMP Highlights: Third Quarter CY 2016

- Two informal emails were transmitted to AMP participants providing notification that recent analytical data from the downstream-most Points of Compliance (POCs) had been validated and would soon be available through the Geospatial Environmental Mapping System (GEMS).
- Two informal emails were transmitted to AMP participants providing notification of individual analytical results from POCs and Points of Evaluation that were above the applicable *Rocky Flats Legacy Management Agreement* (RFLMA) surface water standard (RFLMA Attachment 2, Table 1).
- During the quarter, 14 samples were collected in support of AMP monitoring objectives.

3.0 Analytical Data: Third Quarter CY 2016

Table 1, “Analytical Results for Water Samples,” is available at the end of this report.

Table 2, “Water Sampling Events: Third Quarter CY 2016,” is available at the end of this report.

Table 1. 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	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
00997	WL	6/7/2016	16067859	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		JQF	G	STD
00997	WL	6/7/2016	16067859	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000079-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		QF	G	STD
00997	WL	6/7/2016	16067859	000075-34-3	1,1-Dichloroethane	N001	0.22	ug/L	U	F	0.22		QF	G	STD
00997	WL	6/7/2016	16067859	000075-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		JQF	G	STD
00997	WL	6/7/2016	16067859	000563-58-6	1,1-Dichloropropene	N001	0.19	ug/L	U	F	0.19		QF	G	STD
00997	WL	6/7/2016	16067859	000087-61-6	1,2,3-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000096-18-4	1,2,3-Trichloropropane	N001	0.33	ug/L	U	F	0.33		QF	G	STD
00997	WL	6/7/2016	16067859	000120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000095-63-6	1,2,4-Trimethylbenzene	N001	0.15	ug/L	U	F	0.15		QF	G	STD
00997	WL	6/7/2016	16067859	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		QF	G	STD
00997	WL	6/7/2016	16067859	000106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		QF	G	STD
00997	WL	6/7/2016	16067859	000095-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		QF	G	STD
00997	WL	6/7/2016	16067859	000107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		QF	G	STD
00997	WL	6/7/2016	16067859	000078-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		QF	G	STD
00997	WL	6/7/2016	16067859	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		QF	G	STD
00997	WL	6/7/2016	16067859	000142-28-9	1,3-Dichloropropane	N001	0.22	ug/L	U	F	0.22		QF	G	STD
00997	WL	6/7/2016	16067859	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000594-20-7	2,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		QF	G	STD
00997	WL	6/7/2016	16067859	000078-93-3	2-Butanone	N001	2	ug/L	U	F	2		QF	G	STD
00997	WL	6/7/2016	16067859	000095-49-8	2-Chlorotoluene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000591-78-6	2-Hexanone	N001	1.7	ug/L	U	F	1.7		QF	G	STD
00997	WL	6/7/2016	16067859	000106-43-4	4-Chlorotoluene	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000108-10-1	4-Methyl-2-Pentanone	N001	0.98	ug/L	U	F	0.98		QF	G	STD
00997	WL	6/7/2016	16067859	000067-64-1	Acetone	N001	1.9	ug/L	U	F	1.9		QF	G	STD
00997	WL	6/7/2016	16067859	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000108-86-1	Bromobenzene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000074-97-5	Bromochloromethane	N001	0.1	ug/L	U	F	0.1		QF	G	STD
00997	WL	6/7/2016	16067859	000075-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000075-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		QF	G	STD
00997	WL	6/7/2016	16067859	000074-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		QF	G	STD
00997	WL	6/7/2016	16067859	000075-15-0	Carbon Disulfide	N001	0.45	ug/L	U	F	0.45		QF	G	STD
00997	WL	6/7/2016	16067859	000056-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		JQF	G	STD
00997	WL	6/7/2016	16067859	000108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000075-00-3	Chloroethane	N001	0.41	ug/L	U	F	0.41		QF	G	STD
00997	WL	6/7/2016	16067859	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000074-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		QF	G	STD
00997	WL	6/7/2016	16067859	000156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		QF	G	STD
00997	WL	6/7/2016	16067859	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000074-95-3	Dibromomethane	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000075-71-8	Dichlorodifluoromethane	N001	0.31	ug/L	U	F	0.31		QF	G	STD
00997	WL	6/7/2016	16067859	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000087-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		QF	G	STD
00997	WL	6/7/2016	16067859	000098-82-8	Isopropylbenzene	N001	0.19	ug/L	U	F	0.19		QF	G	STD
00997	WL	6/7/2016	16067859	000075-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		QF	G	STD
00997	WL	6/7/2016	16067859	000091-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		QF	G	STD
00997	WL	6/7/2016	16067859	000104-51-8	n-Butylbenzene	N001	0.32	ug/L	U	F	0.32		QF	G	STD
00997	WL	6/7/2016	16067859	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.39	mg/L	(blank)	F	0.019		QF	G	STD
00997	WL	6/7/2016	16067859	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000099-87-6	p-Isopropyltoluene	N001	0.2	ug/L	U	F	0.2		QF	G	STD
00997	WL	6/7/2016	16067859	000135-98-8	sec-Butylbenzene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		JQF	G	STD
00997	WL	6/7/2016	16067859	000108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		QF	G	STD
00997	WL	6/7/2016	16067859	001330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		QF	G	STD
00997	WL	6/7/2016	16067859	000156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		QF	G	STD
00997	WL	6/7/2016	16067859	010061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		QF	G	STD
00997	WL	6/7/2016	16067859	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	STD
00997	WL	6/7/2016	16067859	000075-69-4	Trichlorofluoromethane	N001	0.29	ug/L	U	F	0.29		QF	G	STD
00997	WL	6/7/2016	16067859	07440-61-1	Uranium	0001	33	ug/L	(blank)	F	0.05		QF	G	STD

Table 1. 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	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
00997	WL	6/7/2016	16067859	000075-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		QF	G	STD
42505	WL	5/5/2016	16047790	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		QF	G	GEN
42505	WL	5/5/2016	16047790	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
42505	WL	5/5/2016	16047790	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
42505	WL	5/5/2016	16047790	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
42505	WL	5/5/2016	16047790	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
42505	WL	5/5/2016	16047790	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
42505	WL	5/5/2016	16047790	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000156-59-2	cis-1,2-Dichloroethene	N001	1.4	ug/L	(blank)	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
42505	WL	5/5/2016	16047790	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000630-20-6	1,1,1,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000071-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN

Table 1. 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	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
89104	WL	5/19/2016	16057815	000079-34-5	1,1,2,2-Tetrachloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000079-00-5	1,1,2-Trichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-34-3	1,1-Dichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-35-4	1,1-Dichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000563-58-6	1,1-Dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000087-61-6	1,2,3-Trichlorobenzene	N001	0.2	ug/L	U	F	0.2		QF	G	GEN
89104	WL	5/19/2016	16057815	000096-18-4	1,2,3-Trichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000120-82-1	1,2,4-Trichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000095-63-6	1,2,4-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000096-12-8	1,2-Dibromo-3-chloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000106-93-4	1,2-Dibromoethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000095-50-1	1,2-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000107-06-2	1,2-Dichloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000078-87-5	1,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000108-67-8	1,3,5-Trimethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000142-28-9	1,3-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000594-20-7	2,2-Dichloropropane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000078-93-3	2-Butanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
89104	WL	5/19/2016	16057815	000095-49-8	2-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000591-78-6	2-Hexanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
89104	WL	5/19/2016	16057815	000106-43-4	4-Chlorotoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000108-10-1	4-Methyl-2-Pentanone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
89104	WL	5/19/2016	16057815	000067-64-1	Acetone	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
89104	WL	5/19/2016	16057815	000071-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000108-86-1	Bromobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000074-97-5	Bromochloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-27-4	Bromodichloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-25-2	Bromoform	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000074-83-9	Bromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-15-0	Carbon Disulfide	N001	0.5	ug/L	U	F	0.5		QF	G	GEN
89104	WL	5/19/2016	16057815	000056-23-5	Carbon tetrachloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000108-90-7	Chlorobenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000124-48-1	Chlorodibromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-00-3	Chloroethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000067-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000074-87-3	Chloromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000156-59-2	cis-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	010061-01-5	cis-1,3-Dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000074-95-3	Dibromomethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-71-8	Dichlorodifluoromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000087-68-3	Hexachlorobutadiene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000098-82-8	Isopropylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-09-2	Methylene chloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000091-20-3	Naphthalene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000104-51-8	n-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000103-65-1	n-Propylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000099-87-6	p-Isopropyltoluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000135-98-8	sec-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000100-42-5	Styrene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000098-06-6	tert-Butylbenzene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000127-18-4	Tetrachloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000108-88-3	Toluene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	001330-20-7	Total Xylenes	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000156-60-5	trans-1,2-Dichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	010061-02-6	trans-1,3-dichloropropene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000079-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-69-4	Trichlorofluoromethane	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
89104	WL	5/19/2016	16057815	000075-01-4	Vinyl chloride	N001	0.16	ug/L	U	F	0.16		QF	G	GEN
A1EFF	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	39	mg/L	(blank)	F	0.19		valid	G	STD
A1EFF	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	14	ug/L	(blank)	F	0.05		valid	G	STD
A1EFF	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.7	mg/L	(blank)	F	0.019		valid	G	STD
A1EFF	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	19	ug/L	(blank)	F	0.05		valid	G	STD
A2EFF	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	27	mg/L	(blank)	F	0.095		valid	G	STD

Table 1. 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	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
A2EFF	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	17	ug/L	(blank)	F	0.05		valid	G	STD
A2EFF	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	10	mg/L	(blank)	F	0.038		valid	G	STD
A2EFF	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	26	ug/L	(blank)	F	0.05		valid	G	STD
A2EFF	SL	6/29/2016	16077928	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.095	mg/L	U	F	0.095		valid	G	STD
A2EFF	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	29	ug/L	(blank)	F	0.05		valid	G	STD
A3EFF	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	20	mg/L	(blank)	F	0.095		valid	G	STD
A3EFF	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	18	ug/L	(blank)	F	0.05		valid	G	STD
A3EFF	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.18	mg/L	JB	F	0.095		U	G	STD
A3EFF	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	0.019	mg/L	U	D	0.019		valid	G	STD
A3EFF	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	18	ug/L	(blank)	F	0.05		valid	G	STD
A3EFF	SL	6/16/2016	16067886	07440-61-1	Uranium	N002	17	ug/L	(blank)	D	0.05		valid	G	STD
B3OUTFLOW	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	10	ug/L	(blank)	F	0.05		valid	G	STD
B3OUTFLOW	SL	6/15/2016	16067886	07440-61-1	Uranium	N001	6.8	ug/L	(blank)	F	0.05		valid	G	STD
B3OUTFLOW	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	4.9	ug/L	(blank)	F	0.05		valid	G	STD
B5INFLOW	SL	2/24/2016	16027661	07440-61-1	Uranium	N001	13	ug/L	(blank)	F	0.05		valid	G	STD
B5INFLOW	SL	5/16/2016	16067889	07440-61-1	Uranium	N001	10.2	ug/L	(blank)	F	0.067		valid	C	GEN
B5INFLOW	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	9.1	ug/L	(blank)	F	0.05		valid	G	STD
B5INFLOW	SL	6/15/2016	16067886	07440-61-1	Uranium	N001	6.6	ug/L	(blank)	F	0.05		valid	G	STD
B5INFLOW	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	4.7	ug/L	(blank)	F	0.05		valid	G	STD
GS08	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	9.6	ug/L	(blank)	F	0.05		valid	G	STD
GS08	SL	6/15/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
GS08	SL	6/15/2016	16067886	07440-61-1	Uranium	N001	8.9	ug/L	(blank)	F	0.05		valid	G	STD
GS08	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	7.8	ug/L	(blank)	F	0.05		valid	G	STD
GS10	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	10	ug/L	(blank)	F	0.05		valid	G	STD
GS10	SL	6/15/2016	16067886	07440-61-1	Uranium	N001	10	ug/L	(blank)	F	0.05		valid	G	STD
GS10	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	7.2	ug/L	(blank)	F	0.05		valid	G	STD
GS10	SL	7/14/2016	16077938	07440-61-1	Uranium	N001	9.2	ug/L	(blank)	F	0.05		valid	G	STD
GS10	SL	7/28/2016	16087957	07440-61-1	Uranium	N001	12	ug/L	(blank)	F	0.05		J	G	STD
GS11	SL	5/5/2016	16067849	AM-241	Americium-241	N001	0.0026	pCi/L	U	F	0.0195	0.00625	valid	C	GEN
GS11	SL	5/5/2016	16067849	PU-239,240	Plutonium-239, 240	N001	0	pCi/L	U	F	0.0235	0.00828	valid	C	GEN
GS11	SL	5/5/2016	16067849	07440-61-1	Uranium	N001	12.2	ug/L	(blank)	F	0.067		valid	C	GEN
GS11	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	630	mg/L	(blank)	F	1.9		R	G	STD
GS11	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	13	ug/L	(blank)	F	0.05		valid	G	STD
GS11	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.2	mg/L	(blank)	F	0.095		valid	G	STD
GS11	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	14	ug/L	(blank)	F	0.05		valid	G	STD
GS12	SL	5/18/2016	16067889	07440-61-1	Uranium	N001	16.8	ug/L	(blank)	F	0.067		valid	C	GEN
GS13	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	50	mg/L	(blank)	F	0.19		valid	G	STD
GS13	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	16	ug/L	(blank)	F	0.05		valid	G	STD
GS13	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	40	mg/L	(blank)	F	0.095		valid	G	STD
GS13	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	16	ug/L	(blank)	F	0.05		valid	G	STD
GS13	SL	6/29/2016	16077928	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	23	mg/L	(blank)	F	0.095		J	G	STD
GS13	SL	6/29/2016	16077928	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	43	mg/L	(blank)	D	0.095		J	G	STD
GS13	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	16	ug/L	(blank)	F	0.05		valid	G	STD
GS13	SL	6/29/2016	16077928	07440-61-1	Uranium	N002	16	ug/L	(blank)	D	0.05		valid	G	STD
GS13	SL	7/14/2016	16077938	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	32	mg/L	(blank)	F	0.19		valid	G	STD
GS13	SL	7/14/2016	16077938	07440-61-1	Uranium	N001	22	ug/L	(blank)	F	0.05		valid	G	STD
SW093	SL	5/31/2016	16067852	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	28	mg/L	(blank)	F	0.095		valid	G	STD
SW093	SL	5/31/2016	16067852	07440-61-1	Uranium	N001	13	ug/L	(blank)	F	0.05		valid	G	STD
SW093	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	11	mg/L	(blank)	F	0.038		valid	G	STD
SW093	SL	6/16/2016	16067886	07440-61-1	Uranium	N001	9	ug/L	(blank)	F	0.05		valid	G	STD
SW093	SL	6/29/2016	16077928	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	12	mg/L	(blank)	F	0.038		valid	G	STD
SW093	SL	6/29/2016	16077928	07440-61-1	Uranium	N001	6.6	ug/L	(blank)	F	0.05		valid	G	STD
SW093	SL	7/14/2016	16077938	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.67	mg/L	(blank)	F	0.019		valid	G	STD
SW093	SL	7/14/2016	16077938	07440-61-1	Uranium	N001	11	ug/L	(blank)	F	0.05		valid	G	STD
SW093	SL	7/28/2016	16087957	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	3.3	mg/L	(blank)	F	0.019		valid	G	STD
SW093	SL	7/28/2016	16087957	07440-61-1	Uranium	N001	11	ug/L	(blank)	F	0.05		valid	G	STD
WALPOC	SL	2/24/2016	16027661	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.2	mg/L	(blank)	F	0.019		valid	G	STD
WALPOC	SL	5/5/2016	16067850	AM-241	Americium-241	N001	0.0118	pCi/L	U	F	0.0197	0.01	valid	C	GEN
WALPOC	SL	5/5/2016	16067850	PU-239,240	Plutonium-239, 240	N001	0.00716	pCi/L	U	F	0.0162	0.0105	valid	C	GEN
WALPOC	SL	5/5/2016	16067850	07440-61-1	Uranium	N001	10.8	ug/L	(blank)	F	0.067		valid	C	GEN
WALPOC	SL	5/26/2016	16067888	AM-241	Americium-241	N001	0.0161	pCi/L	U	F	0.0212	0.0151	valid	C	GEN
WALPOC	SL	5/26/2016	16067850	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	3.7	mg/L	(blank)	F	0.085		valid	G	GEN
WALPOC	SL	5/26/2016	16067888	PU-239,240	Plutonium-239, 240	N001	0.00706	pCi/L	U	F	0.0188	0.01	valid	C	GEN
WALPOC	SL	5/26/2016	16067888	07440-61-1	Uranium	N001	11.8	ug/L	(blank)	F	0.067		valid	C	GEN
WALPOC	SL	6/16/2016	16067886	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
WOMPOC	SL	5/5/2016	16067850	AM-241	Americium-241	N001	0.00107	pCi/L	U	F	0.0161	0.00815	valid	C	GEN

Table 1. 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	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
WOMPOC	SL	5/5/2016	16067850	PU-239,240	Plutonium-239, 240	N001	0.00619	pCi/L	U	F	0.014	0.00702	valid	C	GEN
WOMPOC	SL	5/5/2016	16067850	07440-61-1	Uranium	N001	2.21	ug/L	(blank)	F	0.067		valid	C	GEN
WOMPOC	SL	5/26/2016	16067888	AM-241	Americium-241	N001	0.00569	pCi/L	U	F	0.0261	0.0158	valid	C	GEN
WOMPOC	SL	5/26/2016	16067888	PU-239,240	Plutonium-239, 240	N001	0.00667	pCi/L	U	F	0.0178	0.00787	valid	C	GEN
WOMPOC	SL	5/26/2016	16067888	07440-61-1	Uranium	N001	2.78	ug/L	(blank)	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 Low flow sampling method used.
G Possible grout contamination, pH > 9.
J Estimated value.
L Less than 3 bore volumes purged prior to sampling.
Q Qualitative result due to sampling technique
R Unusable result.
U Parameter analyzed for but was not detected.
X Location is undefined.
999 Validation not complete

LAB_QUALIFIERS

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

LOCATION_TYPE

SL SURFACE LOCATION GEN Gel Laboratories
TS TREATMENT SYSTEM STD Test America
WL WELL

LAB_CODE

COLLECTION_METHOD

G Grab
C Composite

Table 2. Water Sampling Events: Third Quarter CY 2016

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
GS08	5/16/2016 12:27	8/15/2016 14:15	composite	F	No		X		X		OJS 798	16087989
B5INFLOW	6/16/2016 10:20	8/11/2016 11:46	composite	D	No		X				OJS 803	16087989
B5INFLOW	6/16/2016 10:20	8/11/2016 11:46	composite	F	No		X				OJS 799	16087989
SW093	7/14/2016 11:13	7/14/2016 11:13	grab	F	No		X	X			OIQ 164	16077938
GS13	7/14/2016 11:27	7/14/2016 11:27	grab	F	No		X	X			OIQ 162	16077938
GS10	7/14/2016 13:40	7/14/2016 13:40	grab	F	No		X				OIQ 166	16077938
GS10	7/28/2016 10:18	7/28/2016 10:18	grab	F	No		X				OJS 208	16087957
SW093	7/28/2016 10:50	7/28/2016 10:50	grab	F	No		X	X			OJS 209	16087957
SW093	8/10/2016 9:12	8/10/2016 9:12	grab	F	No		X	X			OJS 802	16087990
GS10	8/11/2016 12:32	8/11/2016 12:32	grab	F	No		X				OJS 801	16087990
11104	8/17/2016 11:05	8/17/2016 11:05	grab	F	No	X					OJS 765	16087983
4087	8/19/2016 11:52	8/19/2016 11:52	grab	F	No	X					OJS 766	16087983
B206989	8/19/2016 12:20	8/19/2016 12:20	grab	F	No	X					OJS 768	16087983
GS10	8/30/2016 13:07	8/30/2016 13:07	grab	F	No		X				OKU 495	16098008
GS10	8/30/2016 13:07	8/30/2016 13:07	grab	D	No		X				OKU 499	16098008
SW093	8/30/2016 13:42	8/30/2016 13:42	grab	F	No		X	X			OKU 496	16098008
SW093	9/15/2016 12:20	9/15/2016 12:20	grab	F	No		X	X			OKU 642	16098020
GS10	9/15/2016 13:48	9/15/2016 13:48	grab	F	No		X				OKU 643	16098020
SPOUT	9/19/2016 12:42	9/19/2016 12:42	grab	F	No		X	X			OKU 641	16098020

EXPLANATION

Sample Info: Type

F = Field Sample
D = Duplicate

Analytes

VOC = volatile organic compounds
U = uranium
Nitrate = nitrate + nitrite as N
Pu/Am = plutonium-239,240 and americium-241
SVOC = semi-volatile organic compounds
TSS = 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