

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

**First Quarter Calendar Year 2018**

**April 2018**



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

# Contents

Abbreviations.....	ii
1.0 Introduction.....	1
2.0 AMP Highlights: First Quarter CY 2018.....	2
3.0 Analytical Data: First Quarter CY 2018.....	2

## Tables

- Table 1. Analytical Results for Water Samples
- Table 2. Water Sampling Events: First Quarter CY 2018

## Abbreviations

AMP	Adaptive Management Plan
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
EA	<i>Rocky Flats Surface Water Configuration Environmental Assessment</i>
POC	point of compliance
POE	point of evaluation
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, 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 Quarterly Report for the first quarter of calendar year (CY) 2018 is provided in accordance with Section 5.0, "Reporting," in the AMP. Section 3.0 of this report provides the first quarter data summary tables, which include all validated analytical data for the AMP monitoring objectives available as of March 31, 2018. 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 *Additional Field Implementation Detail for Selected Monitoring Objectives at the Rocky Flats Site, Colorado*.

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 nitrogen in Walnut Creek (Item 8, AMP Table 2)

## **2.0 AMP Highlights: First Quarter CY 2018**

- Eight informal emails were transmitted to AMP participants providing notification that composite samples had been retrieved from the Points of Compliance (POCs) (WOMPOC—Woman Creek at the Central Operable Unit (COU) boundary and WALPOC—Walnut Creek at COU boundary).
- Three informal emails were transmitted to AMP participants providing notification that recent analytical data from the POCs had been validated and would soon be available through the Geospatial Environmental Mapping System (GEMS).
- Four informal emails were transmitted to AMP participants providing notification of individual analytical results from POCs and points of evaluation (POEs) that were above the applicable *Rocky Flats Legacy Management Agreement* (RFLMA) surface water standard (RFLMA Attachment 2, Table 1).
- During the quarter, 85 samples were collected in support of AMP monitoring objectives.

## **3.0 Analytical Data: First Quarter CY 2018**

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

Table 2, “Water Sampling Events: First Quarter CY 2018,” is available at the end of this report.

Table 1. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
A1EFF	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.9	mg/L		F	0.019			G	STD
A1EFF	SL	12/29/2017	17128822	07440-61-1	Uranium	N	35	ug/L		F	0.05			G	STD
A1EFF	SL	1/18/2018	RFS01-02.1801003-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	7.3	mg/L		F	0.019			G	STD
A1EFF	SL	1/18/2018	RFS01-02.1801003-009	7440-61-1	Uranium	N	32	ug/L		F	0.05			G	STD
A2EFF	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.5	mg/L		F	0.019			G	STD
A2EFF	SL	12/29/2017	17128822	07440-61-1	Uranium	N	41	ug/L		F	0.05			G	STD
A2EFF	SL	1/18/2018	RFS01-02.1801003-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.3	mg/L		F	0.019			G	STD
A2EFF	SL	1/18/2018	RFS01-02.1801003-010	7440-61-1	Uranium	N	46	ug/L		F	0.05			G	STD
A3EFF	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A3EFF	SL	12/29/2017	17128822	07440-61-1	Uranium	N	38	ug/L		F	0.05			G	STD
A3EFF	SL	1/18/2018	RFS01-02.1801003-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.05	mg/L		F	0.019			G	STD
A3EFF	SL	1/18/2018	RFS01-02.1801003-011	7440-61-1	Uranium	N	36	ug/L		F	0.05			G	STD
B3OUTFLOW	SL	12/29/2017	17128822	07440-61-1	Uranium	N	26	ug/L		F	0.05			G	STD
B3OUTFLOW	SL	1/18/2018	RFS01-02.1801003-002	7440-61-1	Uranium	N	26	ug/L		F	0.05			G	STD
B5INFLOW	SL	12/29/2017	17128822	07440-61-1	Uranium	N	22	ug/L		F	0.05			G	STD
GS08	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS08	SL	12/29/2017	17128822	07440-61-1	Uranium	N	16	ug/L	W	F	0.05			G	STD
GS08	SL	1/18/2018	RFS01-02.1801003-012	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
GS10	SL	12/29/2017	17128822	07440-61-1	Uranium	N	24	ug/L		F	0.05			G	STD
GS10	SL	1/18/2018	RFS01-02.1801003-001	7440-61-1	Uranium	N	23	ug/L		F	0.05			G	STD
GS12	SL	6/28/2017	RFS01-05.1802001-002	7440-61-1	Uranium	N	35.4	ug/L		F	0.067			C	GEN
GS13	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	8.7	mg/L		F	0.038			G	STD
GS13	SL	12/29/2017	17128822	07440-61-1	Uranium	N	28	ug/L		F	0.05			G	STD
GS13	SL	1/18/2018	RFS01-02.1801003-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	9.6	mg/L		F	0.019			G	STD
GS13	SL	1/18/2018	RFS01-02.1801003-007	7440-61-1	Uranium	N	28	ug/L		F	0.05			G	STD
GS31	SL	1/5/2018	RFS01-05.1802003-002	14596-10-2	Americium-241	N	-0.0051	pCi/L	U	F		0.0122		C	GEN
GS31	SL	1/5/2018	RFS01-05.1802003-002	PU-239,240	Plutonium-239, 240	N	0.00723	pCi/L	U	F		0.0157		C	GEN
GS31	SL	1/5/2018	RFS01-05.1802003-002	7440-61-1	Uranium	N	12.7	ug/L		F	0.067			C	GEN
SPOUT	TS	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.026	mg/L	J	F	0.019			G	STD
SPOUT	TS	12/29/2017	17128822	07440-61-1	Uranium	N	76	ug/L		F	0.05			G	STD
SPOUT	TS	1/18/2018	RFS01-02.1801003-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3	mg/L		F	0.038			G	STD
SPOUT	TS	1/18/2018	RFS01-02.1801003-006	7440-61-1	Uranium	N	68	ug/L		F	0.05			G	STD
SW093	SL	12/29/2017	17128822	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.28	mg/L		F	0.019			G	STD
SW093	SL	12/29/2017	17128822	07440-61-1	Uranium	N	5.8	ug/L		F	0.05			G	STD
SW093	SL	1/18/2018	RFS01-02.1801003-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.3	mg/L		F	0.019			G	STD
SW093	SL	1/18/2018	RFS01-02.1801003-004	7440-61-1	Uranium	N	6.8	ug/L		F	0.05			G	STD
WALPOC	SL	1/11/2018	RFS01-02.1801003-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.32	mg/L		F	0.019			G	STD
WALPOC	SL	1/12/2018	RFS01-01.1801002-001	14596-10-2	Americium-241	N	0.00607	pCi/L	U	F		0.0119		C	GEN
WALPOC	SL	1/12/2018	RFS01-01.1801002-001	PU-239,240	Plutonium-239, 240	N	-2.32E-09	pCi/L	U	F		0.017		C	GEN
WALPOC	SL	1/12/2018	RFS01-01.1801002-001	7440-61-1	Uranium	N	23.5	ug/L		F	0.067			C	GEN
WALPOC	SL	1/29/2018	RFS01-05.1802002-001	14596-10-2	Americium-241	N	0.0101	pCi/L	U	F		0.0211		C	GEN
WALPOC	SL	1/29/2018	RFS01-05.1802002-001	PU-239,240	Plutonium-239, 240	N	-0.00323	pCi/L	U	F		0.0161		C	GEN
WALPOC	SL	1/29/2018	RFS01-05.1802002-001	7440-61-1	Uranium	N	18	ug/L		F	0.067			C	GEN
WALPOC	SL	1/29/2018	RFS01-01.1801002-002	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.0434	mg/L	J	F	0.017		J	G	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802002-002	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.0386	mg/L	Q	F	0.017		J	G	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-003	14596-10-2	Americium-241	N	0.004	pCi/L	U	D		0.0124		C	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-001	14596-10-2	Americium-241	N	0.00317	pCi/L	U	F		0.0224		C	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-003	PU-239,240	Plutonium-239, 240	N	0.00298	pCi/L	U	D		0.0109		C	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-001	PU-239,240	Plutonium-239, 240	N	-0.00251	pCi/L	U	F		0.0147		C	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-001	7440-61-1	Uranium	N	24	ug/L		F	0.067			C	GEN
WALPOC	SL	2/9/2018	RFS01-05.1802003-003	7440-61-1	Uranium	N	21	ug/L		D	0.067			C	GEN
WALPOC	SL	2/16/2018	RFS01-05.1802003-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.017	mg/L	QU	F	0.017		J	G	GEN
WALPOC	SL	2/16/2018	RFS01-13.1803001-001	14596-10-2	Americium-241	N	0.00481	pCi/L	U	F		0.0267		C	GEN
WALPOC	SL	2/16/2018	RFS01-13.1803001-001	PU-239,240	Plutonium-239, 240	N	-0.00145	pCi/L	U	F		0.0137		C	GEN
WALPOC	SL	2/16/2018	RFS01-13.1803001-001	7440-61-1	Uranium	N	20.8	ug/L		F	0.067			C	GEN
WALPOC	SL	3/2/2018	RFS01-13.1803001-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.017	mg/L	QU	F	0.017		J	G	GEN
WOMPOC	SL	11/2/2017	18018829	AM-241	Americium-241	N	0.0128	pCi/L	U	F		0.0152		C	GEN
WOMPOC	SL	11/2/2017	18018829	PU-239,240	Plutonium-239, 240	N	0.00278	pCi/L	U	F		0.0077		C	GEN
WOMPOC	SL	11/2/2017	18018829	07440-61-1	Uranium	N	4.41	ug/L		F	0.067			C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-001	14596-10-2	Americium-241	N	0.00206	pCi/L	U	F		0.00988		C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-003	14596-10-2	Americium-241	N	0.00655	pCi/L	U	D		0.00959		C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-001	PU-239,240	Plutonium-239, 240	N	0.00375	pCi/L	U	F		0.00813		C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-003	PU-239,240	Plutonium-239, 240	N	-0.00135	pCi/L	U	D		0.00794		C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-001	7440-61-1	Uranium	N	4.53	ug/L		F	0.067			C	GEN
WOMPOC	SL	1/4/2018	RFS01-05.1802001-003	7440-61-1	Uranium	N	4.63	ug/L		D	0.067			C	GEN

Table 1. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
WOMPOC	SL	2/5/2018	RFS01-13.1803001-002	14596-10-2	Americium-241	N	0.00303	pCi/L	U	F		0.0168		C	GEN
WOMPOC	SL	2/5/2018	RFS01-13.1803001-002	PU-239,240	Plutonium-239, 240	N	0.00338	pCi/L	U	F		0.00912		C	GEN
WOMPOC	SL	2/5/2018	RFS01-13.1803001-002	7440-61-1	Uranium	N	5.06	ug/L		F	0.067			C	GEN

**EXPLANATION**

**FILTRATION STATUS**

N = Sample was not filtered.  
Y = Sample was filtered.

**UNITS**

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: First Quarter CY 2018

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info
	Start	End	Collection Method	Type	Filtered	VOC	D	Nitrate	Pu/Am	TSS	Sample ID
WOMPOC	11/2/2017 16:02	1/4/2018 15:28	composite	F	No		X		X		18018829 QCT 747
WALPOC	1/11/2018 14:02	1/11/2018 14:02	grab	F	No			X			RFS01-02.1801003-013
SW093	1/18/2018 11:00	1/18/2018 11:00	grab	F	No		X	X			RFS01-02.1801003-004
SPOUT	1/18/2018 11:40	1/18/2018 11:40	grab	F	No		X	X			RFS01-02.1801003-006
GS13	1/18/2018 11:57	1/18/2018 11:57	grab	F	No		X	X			RFS01-02.1801003-007
A2EFF	1/18/2018 12:16	1/18/2018 12:16	grab	F	No		X	X			RFS01-02.1801003-010
A1EFF	1/18/2018 12:25	1/18/2018 12:25	grab	F	No		X	X			RFS01-02.1801003-009
A3EFF	1/18/2018 12:35	1/18/2018 12:35	grab	F	No		X	X			RFS01-02.1801003-011
GS08	1/18/2018 12:46	1/18/2018 12:46	grab	F	No		X				RFS01-02.1801003-012
GS10	1/18/2018 13:21	1/18/2018 13:21	grab	F	No		X				RFS01-02.1801003-001
B3OUTFLOW	1/18/2018 13:45	1/18/2018 13:45	grab	F	No		X				RFS01-02.1801003-002
WALPOC	1/12/2018 14:19	1/29/2018 12:29	composite	F	No		X		X		RFS01-01.1801002-001
WALPOC	1/29/2018 12:40	1/29/2018 12:40	grab	F	No			X			RFS01-01.1801002-002
SW093	1/31/2018 9:48	1/31/2018 9:48	grab	F	No		X	X			RFS01-06.1801002-008
GS13	1/31/2018 9:55	1/31/2018 9:55	grab	F	No		X	X			RFS01-06.1801002-005
A2EFF	1/31/2018 10:05	1/31/2018 10:05	grab	F	No		X	X			RFS01-06.1801002-011
A1EFF	1/31/2018 10:11	1/31/2018 10:11	grab	F	No		X	X			RFS01-06.1801002-001
B5INFLOW	1/31/2018 10:40	1/31/2018 10:40	grab	F	No		X				RFS01-06.1801002-003
A3EFF	1/31/2018 10:53	1/31/2018 10:53	grab	F	No		X	X			RFS01-06.1801002-012
GS08	1/31/2018 11:07	1/31/2018 11:07	grab	F	No		X				RFS01-06.1801002-013
WALPOC	1/31/2018 11:23	1/31/2018 11:23	grab	F	No			X			RFS01-06.1801002-014
SPOUT	1/31/2018 11:55	1/31/2018 11:55	grab	F	No		X	X			RFS01-06.1801002-007
GS10	1/31/2018 12:17	1/31/2018 12:17	grab	F	No		X				RFS01-06.1801002-004
B3OUTFLOW	1/31/2018 12:30	1/31/2018 12:30	grab	F	No		X				RFS01-06.1801002-002
WOMPOC	1/4/2018 15:27	2/5/2018 10:38	composite	F	No		X		X		RFS01-05.1802001-001
WOMPOC	1/4/2018 15:27	2/5/2018 10:38	composite	D	No		X		X		RFS01-05.1802001-003
GS12	6/28/2017 11:44	2/5/2018 11:53	composite	F	No		X				RFS01-05.1802001-002
WALPOC	2/9/2018 11:20	2/9/2018 11:20	grab	F	No			X			RFS01-05.1802002-002
WALPOC	1/29/2018 12:29	2/9/2018 11:27	composite	F	No		X		X		RFS01-05.1802002-001
SPOUT	2/14/2018 9:50	2/14/2018 9:50	grab	F	No		X	X			RFS01-02.1802004-006
SW093	2/14/2018 9:55	2/14/2018 9:55	grab	F	No		X	X			RFS01-02.1802004-004
GS13	2/14/2018 10:22	2/14/2018 10:22	grab	F	No		X	X			RFS01-02.1802004-007
A2EFF	2/14/2018 10:39	2/14/2018 10:39	grab	F	No		X	X			RFS01-02.1802004-010
A1EFF	2/14/2018 10:45	2/14/2018 10:45	grab	F	No		X	X			RFS01-02.1802004-009
A3EFF	2/14/2018 11:07	2/14/2018 11:07	grab	F	No		X	X			RFS01-02.1802004-011
GS08	2/14/2018 11:25	2/14/2018 11:25	grab	F	No		X				RFS01-02.1802004-012
B5INFLOW	2/14/2018 11:45	2/14/2018 11:45	grab	F	No		X				RFS01-02.1802004-003
GS10	2/14/2018 12:21	2/14/2018 12:21	grab	F	No		X				RFS01-02.1802004-001
B3OUTFLOW	2/14/2018 12:35	2/14/2018 12:35	grab	F	No		X				RFS01-02.1802004-002
GS31	1/5/2018 11:45	2/16/2018 11:04	composite	F	No		X		X		RFS01-05.1802003-002
WALPOC	2/16/2018 11:49	2/16/2018 11:49	grab	F	No			X			RFS01-05.1802003-004
WALPOC	2/9/2018 11:27	2/16/2018 12:19	composite	F	No		X		X		RFS01-05.1802003-001
WALPOC	2/9/2018 11:27	2/16/2018 12:19	composite	D	No		X		X		RFS01-05.1802003-003
SPOUT	2/26/2018 10:55	2/26/2018 10:55	grab	F	No		X	X			RFS01-06.1802003-007
SW093	2/26/2018 11:16	2/26/2018 11:16	grab	F	No		X	X			RFS01-06.1802003-008
GS13	2/26/2018 11:25	2/26/2018 11:25	grab	F	No		X	X			RFS01-06.1802003-005
A1EFF	2/26/2018 11:45	2/26/2018 11:45	grab	F	No		X	X			RFS01-06.1802003-001
A2EFF	2/26/2018 11:55	2/26/2018 11:55	grab	F	No		X	X			RFS01-06.1802003-011
A3EFF	2/28/2018 11:29	2/28/2018 11:29	grab	F	No		X	X			RFS01-06.1802003-012
GS08	2/28/2018 11:54	2/28/2018 11:54	grab	F	No		X				RFS01-06.1802003-013
WALPOC	2/28/2018 12:11	2/28/2018 12:11	grab	F	No			X			RFS01-06.1802003-014
B5INFLOW	2/28/2018 12:44	2/28/2018 12:44	grab	F	No		X				RFS01-06.1802003-003
GS10	2/28/2018 13:11	2/28/2018 13:11	grab	F	No		X				RFS01-06.1802003-004
B3OUTFLOW	2/28/2018 13:46	2/28/2018 13:46	grab	F	No		X				RFS01-06.1802003-002
WOMPOC	2/5/2018 10:38	3/2/2018 10:47	composite	F	No		X		X		RFS01-13.1803001-002
WALPOC	3/2/2018 11:51	3/2/2018 11:51	grab	F	No			X			RFS01-13.1803001-006
WALPOC	2/16/2018 12:19	3/2/2018 11:55	composite	F	No		X		X		RFS01-13.1803001-001
SPOUT	3/12/2018 11:00	3/12/2018 11:00	grab	F	No		X	X			RFS01-02.1803005-006
SW093	3/12/2018 11:05	3/12/2018 11:05	grab	F	No		X	X			RFS01-02.1803005-004
GS13	3/12/2018 11:17	3/12/2018 11:17	grab	F	No		X	X			RFS01-02.1803005-007
GS13	3/12/2018 11:17	3/12/2018 11:17	grab	D	No		X	X			RFS01-02.1803005-014
A1EFF	3/12/2018 11:35	3/12/2018 11:35	grab	F	No		X	X			RFS01-02.1803005-009
A2EFF	3/12/2018 11:42	3/12/2018 11:42	grab	F	No		X	X			RFS01-02.1803005-010
A3EFF	3/12/2018 12:00	3/12/2018 12:00	grab	F	No		X	X			RFS01-02.1803005-011
GS08	3/12/2018 12:25	3/12/2018 12:25	grab	F	No		X				RFS01-02.1803005-012
B5INFLOW	3/12/2018 12:40	3/12/2018 12:40	grab	F	No		X				RFS01-02.1803005-003
GS10	3/12/2018 13:00	3/12/2018 13:00	grab	F	No		X				RFS01-02.1803005-001
B3OUTFLOW	3/12/2018 13:05	3/12/2018 13:05	grab	F	No		X				RFS01-02.1803005-002
GS31	2/16/2018 11:04	3/14/2018 11:19	composite	F	No		X		X		RFS01-13.1803002-002
GS31	2/16/2018 11:04	3/14/2018 11:19	composite	D	No		X		X		RFS01-13.1803002-003
WOMPOC	3/2/2018 10:47	3/20/2018 12:52	composite	F	No		X		X		RFS01-05.1803004-001



Table 2. Water Sampling Events: First Quarter CY 2018

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info
	Start	End	Collection Method	Type	Filtered	VOC	D	Nitrate	Pu/Am	TSS	Sample ID
GS11	3/20/2018 13:56	3/20/2018 13:56	grab	F	No			X			RFS01-05.1803004-002
SPOUT	3/26/2018 11:50	3/26/2018 11:50	grab	F	No		X	X			RFS01-06.1803004-007
SPOUT	3/26/2018 11:50	3/26/2018 11:50	grab	D	No		X	X			RFS01-06.1803004-017
SW093	3/26/2018 11:55	3/26/2018 11:55	grab	F	No		X	X			RFS01-06.1803004-008
SW093	3/26/2018 11:55	3/26/2018 11:55	grab	D	No		X	X			RFS01-06.1803004-015
GS13	3/26/2018 12:18	3/26/2018 12:18	grab	F	No		X	X			RFS01-06.1803004-005
A1EFF	3/26/2018 12:30	3/26/2018 12:30	grab	F	No		X	X			RFS01-06.1803004-001
A2EFF	3/26/2018 12:35	3/26/2018 12:35	grab	F	No		X	X			RFS01-06.1803004-011
A3EFF	3/26/2018 12:55	3/26/2018 12:55	grab	F	No		X	X			RFS01-06.1803004-012
GS11	3/26/2018 13:05	3/26/2018 13:05	grab	F	No		X	X			RFS01-06.1803004-016
WALPOC	3/26/2018 13:16	3/26/2018 13:16	grab	F	No			X			RFS01-06.1803004-014
GS08	3/26/2018 13:26	3/26/2018 13:26	grab	F	No		X				RFS01-06.1803004-013
B5INFLOW	3/26/2018 13:48	3/26/2018 13:48	grab	F	No		X				RFS01-06.1803004-003
B3OUTFLOW	3/26/2018 14:11	3/26/2018 14:11	grab	F	No		X				RFS01-06.1803004-002
WALPOC	3/28/2018 10:20	3/28/2018 10:20	grab	F	No			X			RFS01-13.1803003-007
WALPOC	3/2/2018 11:55	3/28/2018 10:31	composite	F	No		X		X		RFS01-13.1803003-005
GS08	6/15/2017 12:42	3/28/2018 10:55	composite	F	No		X		X		RFS01-13.1803003-002
GS12	2/5/2018 11:53	3/28/2018 11:28	composite	F	No		X				RFS01-13.1803003-003
GS12	2/5/2018 11:53	3/28/2018 11:28	composite	D	No		X				RFS01-13.1803003-004
WOMPOC	3/20/2018 12:52	3/29/2018 11:25	composite	F	No		X		X		RFS01-05.1804006-001
GS31	3/14/2018 11:19	3/29/2018 11:40	composite	F	No		X		X		RFS01-05.1804006-003