

TECHNICAL MEMORANDUM

To: Nevada Environmental Response Trust

Cc: Nevada Division of Environmental Protection
United States Environmental Protection Agency

From: Dana Grady

Date: April 26, 2021

Subject: Seep Well Field Area Bioremediation Treatability Study Quarterly Progress Report

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum which summarizes Tetra Tech's progress from January through March 2021 toward successfully implementing the Seep Well Field (SWF) Area Bioremediation Treatability Study.

Task Progress Update: January 2021 – March 2021

Task M11 – Seep Well Field Area Bioremediation Treatability Study (SWFTS)

- Task Leader – Dana Grady
- Current Status
 - As presented in Treatability/Pilot Study Modification No. 6, the ongoing efforts related to the SWF Area Bioremediation Treatability Study focus on refinement of operations and maintenance techniques (O&M) associated with long-term implementation of in situ bioremediation (ISB) in the vicinity of the SWF and Las Vegas Wash. For reference, Figure 1 provides a map of the injection and monitoring well locations. Well construction details and a summary of the groundwater analytical results for perchlorate, chlorate, nitrate, total organic carbon (TOC), and dissolved oxygen through February 2021 are provided in Tables 1 and 2, respectively.
 - O&M of SWF Area Bioremediation Treatability Study:
 - Maintenance Activities – As part of continued evaluation of maintenance activities associated with in-situ bioremediation systems, a small-scale maintenance event was performed from February 16, 2021 to February 19, 2021 prior to the seventh injection event. This field effort included performing maintenance on four injection wells as follows:
 - SWFTS-IW06B – Hydrojetting;
 - SWFTS-IW13B – Hydrojetting with chemical addition;
 - SWFTS-IW15 – Surge and bail; and
 - SWFTS-IW19 – Hydrojetting with chemical addition.

As described further below, injection well performance during the seventh injection event demonstrates that targeted well maintenance of select injection wells can successfully restore or maintain performance of the injection well transect long term. This is a significant finding for long-term operations of ISB at the NERT facility.

- *Injection Activities* – Mobilization and set-up activities associated with the seventh injection event began on February 22, 2021. Injections were performed from February 24 to March 16, 2021. The seventh injection event was conducted via batch mixing in accordance with the NDEP-approved Field Guidance Document for Batch Mixing and Injection. Details of the seventh injection event, including a summary of injection rates, pressures, quantities, and specific gravity information, are included in Tables 3 through 7 as attachments to this quarterly progress report. Additionally, a photo log showing the injection process to document site activities is provided as Attachment 1 to this quarterly progress report. Noteworthy items from the seventh injection event are as follows:
 - All twenty-five injection wells received their complete targeted quantities of injectate solution and follow-up distribution water at injection pressures less than the maximum permissible injection pressure of 35 psi.
 - All four of the injection wells that received well maintenance during the February 2021 event (i.e., SWFTS-IW06B, SWFTS-IW13B, SWFTS-IW15, and SWFTS-IW19) observed lower pressures and/or higher injection rates during the recent seventh injection event compared to the previous sixth injection event, which indicates that recent maintenance activities resulted in improved injectability.
- Performance of the SWF Area Bioremediation Treatability Study
 - To date, this treatability study continues to demonstrate that ISB is an effective technology to degrade perchlorate and chlorate in groundwater within the alluvium. As expected, the interval between carbon donor injections has increased over time. Groundwater perchlorate concentration reductions compared to baseline continue to be observed approximately eight months following injections. Although concentrations are still reduced, the results from the recent sampling events indicate a slight increase in groundwater perchlorate concentrations, which is a signal for the need of a future injection event. Following the recent February/March 2021 injection event, a groundwater sampling event was also performed during the end of this quarter from March 29, 2021 through April 2, 2021. These results will be presented in the next quarterly progress report once data has been received. The effectiveness of the injections will continue to be evaluated throughout the study extension to arrive at an approximate injection frequency required for ISB-related activities in the alluvium at the NERT site. Results of the December 2020 and February 2021 groundwater sampling events (approximately six and eight months after the sixth injection event) are summarized below.
 - Groundwater samples collected from the four monitoring wells located between the injection well transects observed an average decrease in perchlorate concentrations of greater than 75% in the December 2020 and February 2021 sampling events when compared to baseline. Noteworthy findings are described below:
 - Groundwater samples collected from monitoring well SWFTS-MW14 indicated that perchlorate concentrations were not detected above the method detection limit during the sampling event performed following the sixth injection event. Perchlorate concentrations in groundwater samples collected from monitoring well SWFTS-MW14 began slightly increasing in

October 2020 and continued this increasing trend during the December 2020 and February 2021 sampling events, with perchlorate detected at 2,900 and 3,300 $\mu\text{g/L}$, respectively. These results still represent an 86% reduction when compared to baseline concentrations. It is likely that these concentration increases signal the need for the next injection event. Additionally, perchlorate fluctuations and increases in groundwater samples collected from this monitoring well will continue to be evaluated with respect to the variations of O&M components (i.e., changes to the mixing process and/or limited injectate accepted into nearby injection well SWFTS-IW13B during the sixth injection performed in May/June 2020). As previously noted in the O&M discussion herein, routine maintenance was performed in February 2021 nearby injection well SWFTS-IW13B, which resulted in the injection well accepting the full targeted injectate quantity during the seventh injection event.

- As presented in the previous quarterly progress reports, groundwater samples collected from SWFTS-MW15 indicated the lowest perchlorate concentrations to date at this monitoring well following the sixth injection event. Perchlorate concentrations in the groundwater samples collected from SWFTS-MW15 during the December 2020 and February 2021 sampling events continued to indicate concentration decreases of approximately 50% or greater when compared to baseline. However, as mentioned in the discussion for SWFTS-MW14, recent increases likely signal the need for the next injection event.
- Although perchlorate concentration reductions remain greater than 60% at SWFTS-MW02, groundwater samples collected from this monitoring well began showing increases in perchlorate concentrations following the fifth injection event. During 2020 (as noted in previous quarterly progress reports), perchlorate concentrations have significantly increased in groundwater samples collected from monitoring well SWFTS-MW04, which is located generally upgradient of SWFTS-MW02. Even though groundwater perchlorate concentrations have decreased in samples collected from this upgradient monitoring well during this quarter, these trends are likely a result of contaminated groundwater from the western portion of the study area from which groundwater migrates into the study area without passing through the treatment zone.
- Perchlorate concentrations in groundwater samples collected from the 16 downgradient monitoring wells also continue to show an average of 52% reduction in concentrations when comparing the results from the December 2020 and February 2021 sampling events to baseline. Noteworthy findings are described below:
 - Groundwater samples collected from 15 of the 16 downgradient monitoring wells indicated perchlorate concentration reductions when compared to baseline concentrations, with groundwater samples from nine monitoring wells indicating perchlorate concentration reductions ranging from 50% to 100%.
 - Perchlorate concentrations in groundwater samples collected from downgradient monitoring wells PC-91 and SWFTS-MW20 continued to observe strongly decreasing trends, with perchlorate concentrations in

groundwater samples collected from PC-91 below method detection limits and 50 µg/L in the December 2020 and February 2021 sampling events, respectively. Additionally, the perchlorate concentration in groundwater collected from SWFTS-MW20 was 79 µg/L in February 2021, which is the lowest to date since injections began.

- Chlorate concentrations in groundwater follow trends similar to perchlorate, with greater than 70% reduction in chlorate concentrations in groundwater samples collected from 12 monitoring wells (located both between the injection well transects and downgradient) during the December 2020 sampling event and 13 monitoring wells in the February 2021 sampling event when compared to baseline. Chlorate concentrations in groundwater were less than 100 µg/L at nine monitoring wells during the December 2020 and February 2021 sampling events.
 - Nitrate concentrations in groundwater were also evaluated since it is often a competing electron acceptor and carbon substrate consumer. Nitrate concentrations in groundwater were generally greater than 10 milligrams per liter (mg/L) during the baseline sampling event. During the December 2020 and February 2021 sampling events, groundwater samples collected from seven downgradient monitoring wells exhibit nitrate concentrations of less than 5 mg/L, which represents a concentration reduction of at least 50% or greater compared to baseline.
 - As previously noted in recent quarterly reports, groundwater perchlorate concentrations in upgradient well SWFTS-MW12 continue to remain near or below sample detection limits. This well is located approximately 150 feet upgradient of the injection wells and is the well from which most of the distribution water was extracted during the fifth injection event. During the sixth and seventh injection events in May/June 2020 and February/March 2021, respectively, the volume extracted from SWFTS-MW12 was decreased from previous injection events to potentially reduce the effect of groundwater extraction during injections on concentrations at SWFTS-MW12. As a result, it is expected that over time, perchlorate concentrations will gradually return to baseline levels at this upgradient location.
- Schedule and Progress Updates
 - This task remains on schedule.
 - The 2020 Annual Progress Report will be submitted during the second quarter of 2021.
 - The next groundwater sampling event is scheduled for the week of June 1, 2021.
 - The exact timing of the next injection event will be determined using the results from the on-going effectiveness monitoring program. Based on injection frequency to date, the next injection event will likely occur during the fourth quarter of 2021.
 - Health and Safety
 - There were no safety incidents related to Task M11 during the reporting period January through March 2021.

CERTIFICATION

Seep Well Field Area Bioremediation Treatability Study Quarterly Progress Report

**Nevada Environmental Response Trust Site
(Former Tronox LLC Site)
Henderson, Nevada**

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Jay A Steinberg Not Individually, but Solely
as President of the Trustee, not individually,
but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 4/26/21

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared Seep Well Field Area Bioremediation Treatability Study Quarterly Progress Report.



Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

April 26, 2021

Date

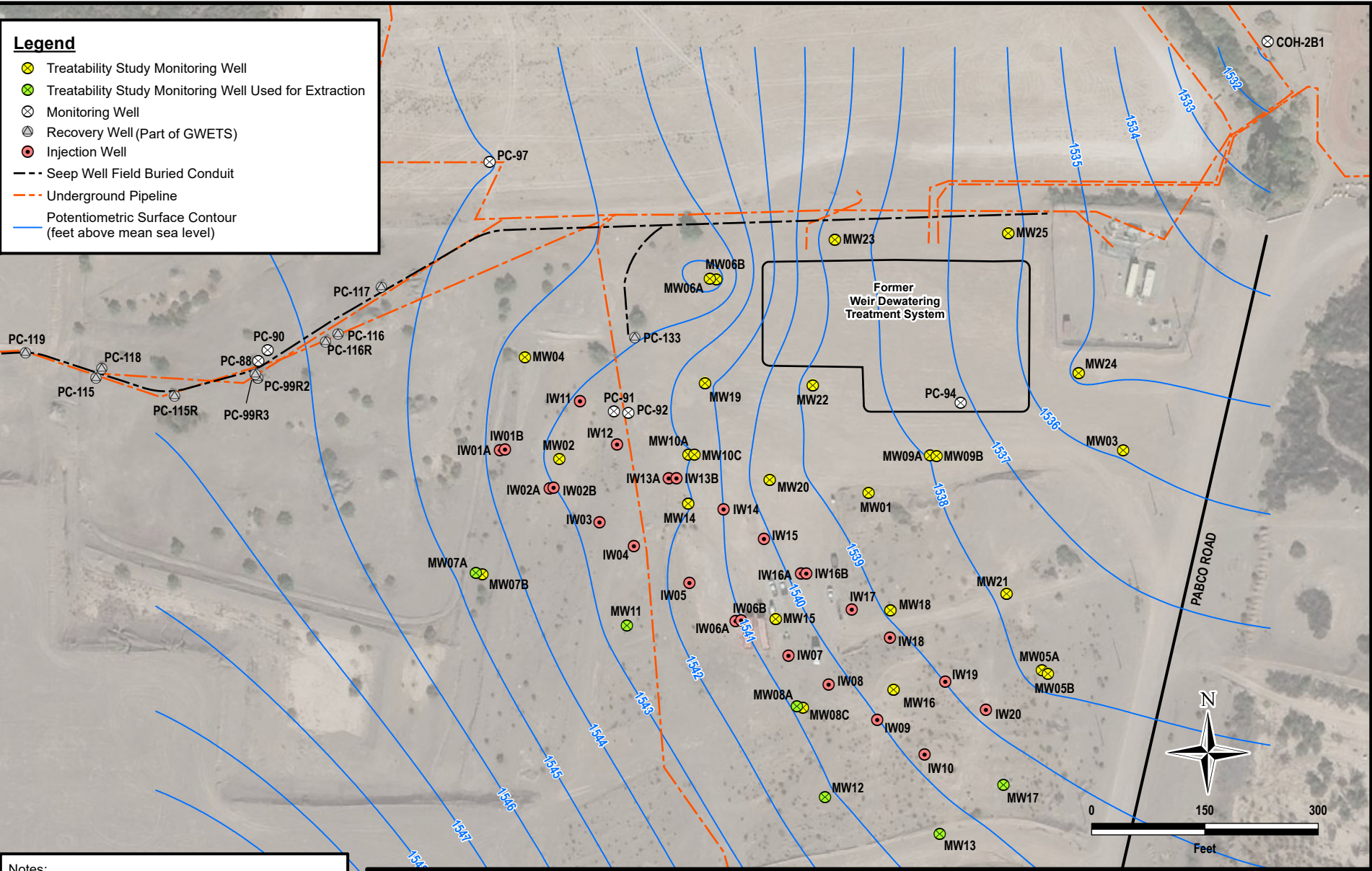
Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2022

Figures

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Legend

- ⊗ Treatability Study Monitoring Well
- ⊗ Treatability Study Monitoring Well Used for Extraction
- ⊗ Monitoring Well
- ⊗ Recovery Well (Part of GWETS)
- ⊗ Injection Well
- - - Seep Well Field Buried Conduit
- - - - - Underground Pipeline
- Potentiometric Surface Contour (feet above mean sea level)



- Notes:**
1. Field Test Area located within Parcel 161-31-101-002.
 2. The prefix 'SWTFS-' not shown for wells labeled as MW or IW. (MW03 = SWTFS-MW03)
 3. Groundwater potentiometric contours presented are based on water levels collected during the groundwater sampling event in December 2019.
 4. Imagery Source: Esri World Map, May 2017.

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NEVADA ENVIRONMENTAL RESPONSE TRUST

SEEP WELL FIELD AREA BIOREMEDIATION TREATABILITY STUDY
QUARTERLY PROGRESS REPORT
HENDERSON, NEVADA

TREATABILITY STUDY LAYOUT

Project No.:	117-7502018
Date:	APRIL 13, 2020
Designed By:	ACC
Figure No.	1

Tables

Table 1
Well Construction Details
 Seep Well Field Area Bioremediation Treatability Study

Monitoring Well/Borehole ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water ¹	Nominal Screen Length	Slot Size	Filter Pack Gradation	Well Diameter	Borehole Diameter	Borehole Total Depth	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl	feet bTOC	feet	inches		inches	inches	feet bgs	feet bgs	feet bgs	feet bgs
Pre-Design Soil Boring and Monitoring Well Installation (February-March 2017)															
SWFTS-BH01	-	26732831.60	831699.18	1556.73	-	-	-	-	-	-	6	43.0	-	-	-
SWFTS-BH02	-	26732742.32	831885.75	1562.47	-	-	-	-	-	-	8	50.0	-	-	-
SWFTS-BH03	-	26732633.19	832210.82	1562.75	-	-	-	-	-	-	6	54.0	-	-	-
SWFTS-BH04	-	26732816.71	832065.23	1554.68	-	-	-	-	-	-	6	45.0	-	-	-
SWFTS-BH05	-	26732859.98	832182.99	1553.48	-	-	-	-	-	-	6	40.0	-	-	-
SWFTS-BH06	-	26732914.77	832076.76	1554.08	-	-	-	-	-	-	6	15.0	-	-	-
SWFTS-BH07	-	26732976.44	831954.58	1551.37	-	-	-	-	-	-	6	45.0	-	-	-
SWFTS-BH08	-	26733066.02	832060.99	1550.79	-	-	-	-	-	-	8	53.0	-	-	-
SWFTS-BH09	-	26733156.54	832268.66	1546.93	-	-	-	-	-	-	6	37.0	-	-	-
SWFTS-BH10	-	26733223.18	832077.72	1548.28	-	-	-	-	-	-	6	52.0	-	-	-
SWFTS-MW01	Alluvium	26733003.73	832067.12	1552.68	1552.39	15.25	15	0.020	#3	2	6	43.0	39.4	38.9	24.2
SWFTS-MW02	Alluvium	26733048.86	831657.82	1553.90	1553.63	13.80	15	0.020	#3	2	6	41.0	33.5	33.1	18.4
SWFTS-MW03	Alluvium	26733059.49	832404.39	1549.26	1549.02	14.15	15	0.020	#3	2	6	60.0	42.2	42.1	27.2
SWFTS-MW04	Alluvium	26733183.35	831612.29	1552.16	1551.82	11.15	15	0.020	#3	2	6	45.0	40.9	40.4	25.8
SWFTS-MW05A	Alluvium	26732768.53	832296.89	1555.41	1554.91	18.35	10	0.020	#3	2	6	30.0	29.4	29.3	19.3
SWFTS-MW05B	Alluvium	26732764.09	832304.67	1555.41	1554.86	18.28	10	0.020	#3	2	6	44.0	42.5	42.0	32.3
SWFTS-MW06A	Alluvium	26733287.15	831857.05	1548.86	1548.41	6.43	10	0.020	#3	2	6	22.5	21.9	21.4	11.8
SWFTS-MW06B	Alluvium	26733286.65	831865.75	1549.03	1548.59	6.70	10	0.020	#3	2	6	40.0	36.0	35.5	25.9
SWFTS-MW07A	Alluvium	26732895.65	831555.99	1555.90	1555.64	14.25	15	0.020	#3	4	8	30.5	30.1	29.5	15.0
SWFTS-MW07B	Alluvium	26732897.49	831547.35	1555.90	1555.53	13.95	5	0.020	#3	2	6	55.0	38.9	38.3	33.8
SWFTS-MW08A	Alluvium	26732720.57	831972.55	1556.50	1556.03	17.26	15	0.020	#3	4	8	36.0	35.3	34.8	20.2
SWFTS-MW08C	UMCf	26732718.60	831980.38	1556.56	1556.18	18.34	20	0.020	#3	2	6	70.2	70.0	69.5	49.9
SWFTS-MW09A	Alluvium	26733052.94	832148.65	1551.61	1551.16	14.50	10	0.020	#3	4	8	30.0	29.4	28.9	19.3
SWFTS-MW09B	Alluvium	26733052.55	832157.19	1551.74	1551.27	14.60	5	0.020	#3	2	6	55.5	39.5	39.0	34.4
SWFTS-MW10A	Alluvium	26733054.00	831828.76	1551.92	1551.61	12.23	15	0.020	#3	4	8	36.0	35.5	35.0	20.4
SWFTS-MW10C	UMCf	26733054.15	831836.75	1551.85	1551.61	9.99	20	0.020	#3	2	6	64.0	63.6	63.1	43.5
Injection and Monitoring Well Network Installation (May-July 2017)															
SWFTS-IW01A	Alluvium	26733059.73	831579.19	1553.61	1553.32	13.00	10	0.020	#3	2	8	27.0	26.0	25.6	15.8
SWFTS-IW01B	Alluvium	26733061.20	831585.84	1553.49	1553.07	13.06	10	0.020	#3	2	8	39.0	37.1	36.7	26.9
SWFTS-IW02A	Alluvium	26733009.17	831645.08	1554.49	1554.08	14.23	10	0.020	#3	2	8	29.0	27.0	26.6	16.8
SWFTS-IW02B	Alluvium	26733010.07	831650.33	1554.42	1554.13	14.27	10	0.020	#3	2	8	37.0	36.5	36.1	26.3
SWFTS-IW03	Alluvium	26732964.70	831711.03	1554.71	1554.46	14.80	20	0.020	#3	2	8	38.0	37.0	36.6	16.8
SWFTS-IW04	Alluvium	26732932.97	831756.77	1554.45	1554.04	14.46	15	0.020	#3	2	8	36.5	35.0	34.6	19.8
SWFTS-IW05	Alluvium	26732883.80	831829.89	1552.17	1551.91	12.68	20	0.020	#3	2	8	35.5	34.8	34.4	14.6
SWFTS-IW06A	Alluvium	26732833.83	831891.31	1553.09	1552.79	14.15	10	0.020	#3	2	8	29.0	27.0	26.6	16.8
SWFTS-IW06B	Alluvium	26732834.30	831898.57	1552.81	1552.47	13.85	5	0.020	#3	2	8	35.0	34.0	33.6	28.8
SWFTS-IW07	Alluvium	26732787.99	831961.16	1554.76	1554.48	16.00	20	0.020	#3	2	8	38.0	37.5	37.1	17.3
SWFTS-IW08	Alluvium	26732749.42	832014.32	1557.84	1557.47	19.60	20	0.020	#3	2	8	39.0	37.7	37.3	17.5
SWFTS-IW09	Alluvium	26732702.88	832078.62	1562.81	1562.59	24.38	20	0.020	#3	2	8	47.4	46.8	46.4	26.6
SWFTS-IW10	Alluvium	26732656.78	832141.67	1562.43	1561.95	23.84	20	0.020	#3	2	8	47.6	47.0	46.6	26.8
SWFTS-IW11	Alluvium	26733124.81	831685.02	1552.61	1552.31	12.45	20	0.020	#3	2	8	39.0	37.5	37.1	17.3
SWFTS-IW12	Alluvium	26733067.66	831734.08	1552.94	1552.70	13.10	25	0.020	#3	2	8	41.0	39.5	39.1	14.3
SWFTS-IW13A	Alluvium	26733022.97	831802.64	1552.73	1552.38	13.03	10	0.020	#3	2	8	28.0	26.0	25.6	15.8
SWFTS-IW13B	Alluvium	26733022.94	831812.84	1552.42	1552.12	12.75	10	0.020	#3	2	8	38.8	38.0	37.6	27.8
SWFTS-IW14	Alluvium	26732981.31	831875.23	1551.69	1551.36	12.65	20	0.020	#3	2	8	37.0	36.5	36.1	16.2
SWFTS-IW15	Alluvium	26732942.89	831928.63	1551.17	1550.76	12.66	20	0.020	#3	2	8	37.0	36.6	36.2	16.4
SWFTS-IW16A	Alluvium	26732896.44	831977.77	1553.06	1552.72	14.77	10	0.020	#3	2	8	29.3	27.5	27.1	17.3
SWFTS-IW16B	Alluvium	26732895.94	831984.74	1552.88	1552.43	14.50	10	0.020	#3	2	8	37.0	36.7	36.3	26.5
SWFTS-IW17	Alluvium	26732849.16	832045.01	1554.57	1554.01	16.22	20	0.020	#3	2	8	38.0	37.5	37.1	17.3
SWFTS-IW18	Alluvium	26732811.24	832095.47	1555.71	1555.47	17.84	20	0.020	#3	2	8	39.0	38.5	38.1	18.1
SWFTS-IW19	Alluvium	26732753.36	832168.69	1560.08	1560.06	22.55	20	0.020	#3	2	8	45.0	44.5	44.1	24.3
SWFTS-IW20	Alluvium	26732716.42	832222.65	1563.11	1562.85	25.30	20	0.020	#3	2	8	52.0	51.0	50.6	30.8

Table 1
Well Construction Details
 Seep Well Field Area Bioremediation Treatability Study

Monitoring Well/Borehole ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water ¹	Nominal Screen Length	Slot Size	Filter Pack Gradation	Well Diameter	Borehole Diameter	Borehole Total Depth	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl	feet bTOC	feet	inches		inches	inches	feet bgs	feet bgs	feet bgs	feet bgs
SWFTS-MW11	Alluvium	26732827.46	831747.30	1558.68	1558.10	18.44	25	0.020	#3	4	10	41.7	40.0	39.6	14.8
SWFTS-MW12	Alluvium	26732600.73	832009.72	1559.00	1558.66	19.65	25	0.020	#3	4	10	44.0	41.0	40.6	15.8
SWFTS-MW13	Alluvium	26732551.81	832161.20	1563.57	1563.20	24.65	30	0.020	#3	4	10	50.0	48.0	47.6	17.8
SWFTS-MW14	Alluvium	26732989.39	831828.48	1552.20	1551.89	12.52	20	0.020	#3	2	8	38.4	37.0	36.6	16.8
SWFTS-MW15	Alluvium	26732836.67	831944.36	1553.64	1553.34	15.00	20	0.020	#3	2	8	36.5	35.0	34.6	14.8
SWFTS-MW16	Alluvium	26732742.78	832100.29	1561.83	1561.45	23.50	20	0.020	#3	2	8	44.3	42.0	41.6	21.8
SWFTS-MW17	Alluvium	26732616.54	832245.85	1565.87	1565.56	27.53	30	0.020	#3	4	10	54.5	53.0	52.6	22.8
SWFTS-MW18	Alluvium	26732847.58	832096.15	1554.59	1554.03	16.55	20	0.020	#3	2	8	38.0	37.0	36.6	16.8
SWFTS-MW19	Alluvium	26733148.90	831850.68	1550.57	1550.37	11.48	20	0.020	#3	2	8	33.0	31.5	31.1	11.3
SWFTS-MW20	Alluvium	26733020.92	831936.43	1551.63	1551.22	13.62	25	0.020	#3	2	8	39.0	38.0	37.6	12.8
SWFTS-MW21	Alluvium	26732869.95	832249.88	1553.56	1553.30	16.60	25	0.020	#3	2	8	41.0	40.0	39.6	14.8
SWFTS-MW22	Alluvium	26733146.27	831993.33	1549.55	1549.15	12.82	20	0.020	#3	2	8	33.0	32.0	31.6	11.8
SWFTS-MW23	Alluvium	26733338.19	832022.56	1547.58	1550.16	13.38	20	0.020	#3	2	8	36.8	34.0	33.6	13.8
SWFTS-MW24	Alluvium	26733161.74	832345.44	1547.78	1547.49	13.86	25	0.020	#3	2	8	39.0	38.0	37.6	12.8
SWFTS-MW25	Alluvium	26733347.67	832252.13	1546.73	1546.37	11.20	30	0.020	#3	2	8	44.0	43.0	42.6	12.8

Notes:

amsl - above mean sea level

bTOC - below top of casing

bgs - below ground surface

UMCf - Upper Muddy Creek Formation

1. Baseline depth to water measurements were collected in July 2017.

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
COH-2B1	8/9/2017	COH-2B1-BL02	N	BL02	1,700	1,800	0.71	970	2.3	1.14
COH-2B1	9/22/2017	SWFTS-COH-2B1-EM01	N	EM01	1,700	1,600	0.53 J	990	2.7	1.19
COH-2B1	10/5/2017	SWFTS-COH-2B1-EM03	N	EM03	1,800	1,400	0.60	940	2.6	0.14
COH-2B1	10/12/2017	SWFTS-COH-2B1-EM04	N	EM04	1,800	1,600	0.58	1,000	2.3	7.92
COH-2B1	10/26/2017	SWFTS-COH-2B1-EM05	N	EM05	1,900	1,400	0.42 J	1,000	2.6	0.40
COH-2B1	12/14/2017	COH-2B1-EM07	N	EM07	1,700	5,000	0.40	950	2.6	-0.06 E
COH-2B1	2/22/2018	COH-2B1-EM08	N	EM08	1,500	1,400	0.57 J	1,100	2.9	0.34
COH-2B1	3/29/2018	COH-2B1-EM09	N	EM09	1,800	1,200	<0.55	940	2.3	0.41
COH-2B1	5/2/2018	COH-2B1-EM10	N	EM10	1,700	1,200	0.45	910	11	0.00
COH-2B1	7/10/2018	COH-2B1-EM11	N	EM11	3,000	2,400	1.4	1,100	1.9	0.47
COH-2B1	8/16/2018	COH-2B1-EM13	N	EM13	1,500	980	0.53 J	940	2.6	0.50
COH-2B1	9/11/2018	COH-2B1-EM14	N	EM14	2,800	3,800	1.5	1,300	1.9	2.18
COH-2B1	10/11/2018	COH-2B1-EM15	N	EM15	1,700	1,000	0.54 J	960	2.7	2.79
COH-2B1	1/3/2019	COH-2B1-EM16	N	EM16	3,200	3,800	2.5	1,300	2.0	0.97
COH-2B1	2/25/2019	COH-2B1-EM17	N	EM17	3,300	4,100	2.1	1,300	2.2	0.00
COH-2B1	4/9/2019	COH-2B1-EM18	N	EM18	1,800	570	0.65 J-	930	2.5	0.56
COH-2B1	5/22/2019	COH-2B1-EM19	N	EM19	1,700	520	0.57	960	2.4	0.12
COH-2B1	7/1/2019	COH-2B1-EM20	N	EM20	1,800	680	0.59	920	2.7	0.37
COH-2B1	8/15/2019	COH-2B1-EM21	N	EM21	1,900	660	0.68	980	2.7	0.43
COH-2B1	11/4/2019	COH-2B1-EM22	N	EM22	2,600	3,200	1.6	1,300	1.9	0.61
COH-2B1	12/18/2019	COH-2B1-EM23	N	EM23	1,800	610 J-	0.45	900	2.2	0.91
COH-2B1	1/28/2020	COH-2B1-EM24	N	EM24	3,200	9,200	4.4	2,100 J+	2.2	5.11
COH-2B1	3/9/2020	COH-2B1-EM25	N	EM25	5,500	11,000	2.4	1,400	2.1 J+	2.35
COH-2B1	4/27/2020	COH-2B1-EM26	N	EM26	2,000	810	0.68	870	2.1	3.28
COH-2B1	7/7/2020	COH-2B1-EM27	N	EM27	2,100	900	0.79	900	3.0	1.01
COH-2B1	10/13/2020	COH-2B1-EM29	N	EM29	3,900	7,100	2.2	1,600	1.9	0.55
LVWPS-MW101A	7/12/2018	LVWPS-MW101A-EM11	N	EM11	6,300	25,000	15	--	0.82 J	2.10
LVWPS-MW104	7/12/2018	LVWPS-MW104-EM11	N	EM11	4,900	35,000	10	--	1.1	1.92
LVWPS-MW104	8/15/2018	LVWPS-MW104-EM13	N	EM13	4,600	36,000	10	2,200	1.5	3.79
LVWPS-MW104	9/13/2018	LVWPS-MW104-EM14	N	EM14	4,200	36,000	11	2,300	1.4	2.84
LVWPS-MW104	10/10/2018	LVWPS-MW104-EM15	N	EM15	4,800	37,000	11	--	1.8	4.3
LVWPS-MW107A	7/12/2018	LVWPS-MW107A-EM11	N	EM11	4,700	9,000	6.1	--	0.90 J	4.00
LVWPS-MW108A	7/12/2018	LVWPS-MW108A-EM11	N	EM11	7,200	17,000	7.2	--	1.3	3.86
LVWPS-MW108A	7/12/2018	LVWPS-MW108A-EM11-FD	FD	EM11	7,300	17,000	7.2	--	1.3	--
LVWPS-MW108A	8/15/2018	LVWPS-MW108A-EM13	N	EM13	5,700	11,000	6.2	1,500	1.9	2.73
LVWPS-MW108A	9/13/2018	LVWPS-MW108A-EM14	N	EM14	4,800	9,200	6.1 J+	1,500	1.6	3.08
LVWPS-MW108A	10/10/2018	LVWPS-MW108A-EM15	N	EM15	5,300	9,800	5.5	--	1.9	2.96
LVWPS-MW109	7/12/2018	LVWPS-MW109-EM11	N	EM11	6,100	25,000	8.9	--	1.2	0.40
LVWPS-MW109	8/15/2018	LVWPS-MW109-EM13	N	EM13	4,800	16,000	7.9	1,900	1.9	2.30
LVWPS-MW109	9/13/2018	LVWPS-MW109-EM14	N	EM14	4,500	9,200	6.7 J+	1,900	1.3	0.59
LVWPS-MW109	10/10/2018	LVWPS-MW109-EM15	N	EM15	4,400	7,300	6.9	--	1.9	2.71
LVWPS-MW111A	7/12/2018	LVWPS-MW111A-EM11	N	EM11	9,100	28,000	7.2	--	1.8	3.34
LVWPS-MW111A	8/15/2018	LVWPS-MW111A-EM13	N	EM13	7,800	30,000	7.9	1,800	2.0	2.23

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
LVWPS-MW111A	9/13/2018	LVWPS-MW111A-EM14	N	EM14	6,500	30,000	8.1 J+	1,900	1.4	0.35
LVWPS-MW111A	10/10/2018	LVWPS-MW111A-EM15	N	EM15	7,100	28,000	8.4	--	1.8	0.95
LVWPS-MW112A	7/12/2018	LVWPS-MW112A-EM11	N	EM11	5,200	28,000	10	--	1.5	0.89
LVWPS-MW112A	10/10/2018	LVWPS-MW112A-EM15	N	EM15	4,700	24,000	10	--	1.7	1.91
PC-58	3/28/2017	PC-58-BL01	N	BL01	2,600	19,000	9.9	1,200	3.4	0.15
PC-58	7/13/2017	PC-58-BL02	N	BL02	2,600	17,000	9.5	1,500	2.8	0.00
PC-58	10/11/2017	SWFTS-PC-58-EM04	N	EM04	1,800	11,000	9.0	1,100	3.2	3.40
PC-58	11/16/2017	SWFTS-PC-58-EM06	N	EM06	2,100	16,000	10	1,100	2.9	0.65
PC-58	12/14/2017	PC-58-EM07	N	EM07	3,100	24,000	12	1,200	2.9	0.29
PC-58	2/21/2018	PC-58-EM08	N	EM08	3,700	35,000	12	1,300	5.4	2.49
PC-58	3/28/2018	PC-58-EM09-EM09	N	EM09	1,400	12,000	9.8	1,300	2.7	4.31
PC-58	5/2/2018	PC58-EM10	N	EM10	1,200	10,000	9.9	1,400	2.7	0.71
PC-58	7/11/2018	PC-58-EM11	N	EM11	1,100	9,800	10	1,500	2.6	1.17
PC-58	8/15/2018	PC-58-EM13	N	EM13	1,300	13,000	10	1,500	3.1	0.38
PC-58	9/13/2018	PC-58-EM14	N	EM14	1,500	22,000	14	1,100	2.5	2.74
PC-58	10/11/2018	PC-58-EM15	N	EM15	1,300	13,000	12	930	3.5	0
PC-58	1/3/2019	PC-58-EM16	N	EM16	980	8,000	10	1,100	3.5	0.83
PC-58	3/1/2019	PC-58-EM17	N	EM17	1,700 J+	13,000	12	1,400	2.8	0.41
PC-58	4/9/2019	PC-58-EM18	N	EM18	1,400	11,000	9.1 J-	1,500	2.6	3.68
PC-58	5/22/2019	PC-58-EM19	N	EM19	1,600	12,000	11	1,400	2.9	1.68
PC-58	7/5/2019	PC-58-EM20	N	EM20	1,600	13,000	11	1,200	3.9	0.43
PC-58	8/15/2019	PC-58-EM21	N	EM21	1,500	10,000	12	1,100	3.7	0.47
PC-58	11/7/2019	PC-58-EM22	N	EM22	1,000	8,700	10	940	3.1	0.64
PC-58	12/20/2019	PC-58-EM23	N	EM23	4,000	30,000	13	980	2.4	1.00
PC-58	1/30/2020	PC-58-EM24	N	EM24	3,200	36,000	14	980	2.7	2.79
PC-58	3/11/2020	PC-58-EM25	N	EM25	2,800	33,000	12	1,000	2.7	1.69
PC-58	5/1/2020	PC-58-EM26	N	EM26	840	8,500	7.7	1,300	2.3	3.13
PC-58	7/9/2020	PC-58-EM27	N	EM27	850	6,400	9.1	1,800	2.5	1.08
PC-58	8/19/2020	PC-58-EM28	N	EM28	830	10,000	8.8	900	3.7	0.64
PC-58	10/16/2020	PC-58-EM29	N	EM29	700	7,400	7.7	670	3.5	1.28
PC-58	12/10/2020	PC-58-EM30	N	EM30	560	5,700	7.6	660	2.6	0.4
PC-58	2/1/2021	PC-58-EM31	N	EM31	730	61,000	7.5	690	2.5	0.6
PC-88	9/22/2017	SWFTS-PC-88-EM01	N	EM01	15,000	6,900	4.8	1,000	2.7	4.15
PC-88	9/28/2017	SWFTS-PC-88-EM02	N	EM02	14,000 J+	6,300	5.8	1,100	2.8	1.13
PC-88	10/4/2017	SWFTS-PC-88-EM03	N	EM03	15,000	6,100	5.1	1,000	2.6	0.21
PC-88	10/11/2017	SWFTS-PC-88-EM04	N	EM04	15,000	6,200	4.6	1,000	2.5	0.37
PC-88	10/11/2017	SWFTS-PC-88-EM04-FD	FD	EM04	15,000	6,000	4.6	1,000	2.6	--
PC-88	10/25/2017	SWFTS-PC-88-EM05	N	EM05	15,000	5,400	5.0	1,000	2.8	0.37
PC-88	11/15/2017	PC-88-EM06	N	EM06	15,000	5,700	4.5	990	2.8	0.46
PC-88	11/15/2017	PC-88-EM06-FD	FD	EM06	16,000	5,700	4.6	1,000	2.9	--
PC-88	12/14/2017	PC-88-EM07	N	EM07	19,000	20,000	9.9	1,200	2.7	0.68
PC-88	2/22/2018	PC-88-EM08	N	EM08	6,700	14,000	12	720	3.0	0.29
PC-88	3/29/2018	PC-88-EM09	N	EM09	9,100	20,000	13	870	2.2	0.45

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Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
PC-88	5/2/2018	PC88-EM10	N	EM10	7,100	11,000	11	710	2.3	0.50
PC-88	5/2/2018	PC88-EM10-FD	FD	EM10	6,600	11,000	12	700	2.5	--
PC-88	7/12/2018	PC-88-EM11	N	EM11	16,000	12,000	7.8	910	2.4	0.89
PC-88	7/12/2018	PC-88-EM11-FD	FD	EM11	16,000	12,000	7.6	910	2.3	--
PC-88	8/16/2018	PC-88-EM13	N	EM13	10,000	6,700	6.0	930	2.9	3.31
PC-88	8/16/2018	PC-88-EM13-FD	FD	EM13	11,000	6,800	6.0	940	2.9	--
PC-88	9/12/2018	PC-88-EM14	N	EM14	19,000	13,000	6.7	1,000	2.6	2.28
PC-88	9/12/2018	PC-88-EM14-FD	FD	EM14	19,000	13,000	6.7	1,000	2.4	--
PC-88	10/11/2018	PC-88-EM15	N	EM15	15,000	15,000	6.3 J-	1,000	2.7	0
PC-88	10/11/2018	PC-88-EM15-FD	FD	EM15	15,000	15,000	7.5	1,000	2.7	--
PC-88	1/3/2019	PC-88-EM16	N	EM16	12,000	9,900	7.5	850	2.7	0.93
PC-88	1/3/2019	PC-88-EM16-FD	FD	EM16	12,000	9,900	7.5	860	2.8	--
PC-88	2/28/2019	PC-88-EM17	N	EM17	9,300	5,700	4.4	770	2.9	0.35
PC-88	2/28/2019	PC-88-EM17-FD	FD	EM17	9,100	5,700	4.4	770	3.1	--
PC-88	4/9/2019	PC-88-EM18	N	EM18	12,000	11,000	5.1 J-	910	2.6	0.54
PC-88	4/9/2019	PC-88-EM18-FD	FD	EM18	13,000	10,000	5.0 J-	900	2.7	--
PC-88	5/22/2019	PC-88-EM19	N	EM19	10,000	6,200	4.9	850	2.6	0.05
PC-88	5/22/2019	PC-88-EM19-FD	FD	EM19	10,000	6,400	5.0	850	2.5	--
PC-88	7/5/2019	PC-88-EM20	N	EM20	8,800	5,100	3.4	710	3.2	0.39
PC-88	7/5/2019	PC-88-EM20-FD	FD	EM20	10,000	5,000	3.4	720	3.2	--
PC-88	8/15/2019	PC-88-EM21	N	EM21	9,700	3,300	2.8	740	3.0	0.39
PC-88	8/15/2019	PC-88-EM21-FD	FD	EM21	9,900	3,300	3.1	730	3.0	--
PC-88	11/7/2019	PC-88-EM22	N	EM22	11,000	14,000	5.6	850	2.5	0.64
PC-88	11/7/2019	PC-88-EM22-FD	FD	EM22	11,000	15,000	5.5	830	2.4	--
PC-88	12/20/2019	PC-88-EM23	N	EM23	11,000	9,200	5.4	860	2.2	0.83
PC-88	12/20/2019	PC-88-EM23-FD	FD	EM23	12,000	9,100	5.1	850	2.2	--
PC-88	1/30/2020	PC-88-EM24	N	EM24	9,900	13,000	7.9	840	2.7	2.65
PC-88	1/30/2020	PC-88-EM24-FD	FD	EM24	9,900	13,000	7.9	820	2.7	--
PC-88	3/12/2020	PC-88-EM25	N	EM25	7,900	7,000	5.3	660	2.5	1.6
PC-88	3/12/2020	PC-88-EM25-FD	FD	EM25	7,700	6,900	5.5	660	2.4	--
PC-88	5/1/2020	PC-88-EM26	N	EM26	15,000	16,000	8.2	820	2.1	0.26
PC-88	5/1/2020	PC-88-EM26-FD	FD	EM26	15,000	16,000	8.7	840	2.1	--
PC-88	7/9/2020	PC-88-EM27	N	EM27	14,000	8,400	7.6	890	2.7 J-	0.74
PC-88	7/9/2020	PC-88-EM27-FD	N	EM27	13,000	8,600	7.3	900	3.0	--
PC-88	8/19/2020	PC-88-EM28	N	EM28	11,000	6,000	4.8	790	2.9	0.63
PC-88	8/19/2020	PC-88-EM28-FD	FD	EM28	12,000	5,800	4.7	770	2.7	--
PC-88	10/15/2020	PC-88-EM29	N	EM29	15,000	12,000	6.6	920	2.3	0.49
PC-88	10/15/2020	PC-88-EM29-FD	FD	EM29	15,000	12,000	6.7	920	2.2	--
PC-88	12/10/2020	PC-88-EM30	N	EM30	7,200	3,800	2.7	680	2.6	0.3
PC-88	12/10/2020	PC-88-EM30-FD	FD	EM30	7,400	3,800	2.7	680	3.3	--
PC-88	2/2/2021	PC-88-EM31	N	EM31	3,700	1,500	1.0	500	2.6 J+	0.51
PC-88	2/2/2021	PC-88-EM31-FD	FD	EM31	3,500	1,500	1.1	510	2.7 J+	--
PC-91	3/29/2017	PC-91-BL01	N	BL01	2,400	1,700	1.4	1,100	2.7	0.25

Table 2
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PC-91	7/12/2017	PC-91-BL02	N	BL02	2,500	1,600	1.2	840	2.4	0.31
PC-91	7/12/2017	PC-91-BL02-FD	FD	BL02	2,400	1,500	1.1	790	2.3	--
PC-91	9/21/2017	SWFTS-PC-91-EM01	N	EM01	1,600	820	0.50 J	730	2.3	0.47
PC-91	9/27/2017	SWFTS-PC-91-EM02	N	EM02	1,700	810	0.57	770	2.8	0.72
PC-91	10/4/2017	SWFTS-PC-91-EM03	N	EM03	1,300	590	0.58	700	2.9	0.19
PC-91	10/12/2017	SWFTS-PC-91-EM04	N	EM04	960	440	0.35	770	2.5	0.38 E
PC-91	10/25/2017	SWFTS-PC-91-EM05	N	EM05	750	370	0.62	740	2.7	0.55
PC-91	11/16/2017	SWFTS-PC-91-EM06	N	EM06	700	610	0.65 J-	670	2.8	0.82
PC-91	12/13/2017	PC-91-EM07	N	EM07	770	520	0.38	650	2.5	0.37
PC-91	2/20/2018	PC-91-EM08	N	EM08	900	1,100	0.88 J	770	2.8	0.82
PC-91	3/26/2018	PC-91-EM09	N	EM09	930	1,200	0.78	700	2.5	1.02
PC-91	5/1/2018	PC-91-EM10	N	EM10	860	260	0.56	650	2.4	0.64
PC-91	7/11/2018	PC-91-EM11	N	EM11	190	<5.0	<0.28	480	2.7	3.08
PC-91	7/27/2018	SWFTS-PC-91-EM12	N	EM12	160	<2.0	--	--	--	0.77
PC-91	8/14/2018	PC-91-EM-13	N	EM13	310	12 J	<0.28	--	3.0	1.08
PC-91	9/12/2018	PC-91-EM14	N	EM14	440	21	<0.28	560	2.6	3.12
PC-91	10/10/2018	PC-91-EM15	N	EM15	460	80	<0.55	570	3.1	0
PC-91	12/20/2018	PC-91-EM16	N	EM16	220	47 J	<0.11	540	3.2	0.68
PC-91	2/26/2019	PC-91-EM17	N	EM17	67	<10	<0.55	520	3.8	0.47
PC-91	4/10/2019	PC-91-EM18	N	EM18	190	38 J	<0.55	480	4.5	1.41
PC-91	5/21/2019	PC-91-EM19	N	EM19	120	56	0.81	500	3.6	0.05
PC-91	7/1/2019	PC-91-EM20	N	EM20	120	52	<0.28	460	3.8	0.42
PC-91	8/12/2019	PC-91-EM21	N	EM21	39 J+	14 J	<0.28	450	3.6	0.44
PC-91	11/6/2019	PC-91-EM22	N	EM22	1.5 J	<10	<0.55	460	5.9	0.56
PC-91	12/17/2019	PC-91-EM23	N	EM23	6.9	<10	<0.55	440	4.3	8.61
PC-91	1/28/2020	PC-91-EM24	N	EM24	230	100	<0.28	490 J+	4.2	5.81
PC-91	3/12/2020	PC-91-EM25	N	EM25	310	170	<0.28	560	3.6	1.49
PC-91	4/30/2020	PC-91-EM26	N	EM26	460	500	<0.28	610	3.9	0.37
PC-91	7/7/2020	PC-91-EM27	N	EM27	<0.95	<10	<0.28	280	12	0.65
PC-91	8/17/2020	PC-91-EM28	N	EM28	<0.95	750	<0.55	500	8.2	0.52
PC-91	10/14/2020	PC-91-EM29	N	EM29	<1.9	36 J	<0.28	510	5.6	0.43
PC-91	12/9/2020	PC-91-EM30	N	EM30	<0.31	<10	<0.014	580	4.4	1.68
PC-91	2/1/2021	PC-91-EM31	N	EM31	50	14 J	<0.014	650	5.1	0.83
PC-92	3/29/2017	PC-92-BL01	N	BL01	9,600	17,000	4.2	1,200	2.8	0.35
PC-92	7/12/2017	PC-92-BL02	N	BL02	4,400	10,000	2.6	1,100	2.8	0.31
PC-92	9/21/2017	SWFTS-PC-92-EM01	N	EM01	3,100	7,700	1.7	960	2.6	0.41
PC-92	9/27/2017	SWFTS-PC-92-EM02	N	EM02	3,500	6,800	1.7	950	2.8	0.45
PC-92	10/4/2017	SWFTS-PC-92-EM03	N	EM03	3,700	7,100	2.6	950	2.8	0.12
PC-92	10/12/2017	SWFTS-PC-92-EM04	N	EM04	3,700	7,300	2.1	1,100	2.8	9.88 E
PC-92	10/12/2017	SWFTS-PC-92-EM04-FD	FD	EM04	3,700	6,700	2.0	1,100	2.6	--
PC-92	10/25/2017	SWFTS-PC-92-EM05	N	EM05	4,000	6,900	2.3	1,100	2.9	0.30
PC-92	11/16/2017	SWFTS-PC-92-EM06	N	EM06	2,100	1,300	1.6	790	3.2	0.42
PC-92	11/16/2017	SWFTS-PC-92-EM06-FD	FD	EM06	2,100	1,300	1.1	930	3.3	--

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
PC-92	12/14/2017	PC-92-EM07	N	EM07	3,300	4,600	2.1	980	3.0	3.78
PC-92	12/14/2017	PC-92-EM07-FD	FD	EM07	3,300	4,800	1.8	1,100	3.0	--
PC-92	2/20/2018	PC-92-EM08	N	EM08	4,900	7,700	2.7	950	3.2	4.60
PC-92	2/20/2018	PC-92-EM08-FD	FD	EM08	5,000	7,400	2.7	960	3.2	--
PC-92	3/26/2018	PC-92-EM09	N	EM09	7,900	19,000	4.5	1,100	2.5	0.51
PC-92	3/26/2018	PC-92-EM09-FD	FD	EM09	8,000	18,000	4.5	1,200	2.5	--
PC-92	5/1/2018	PC-92-EM10	N	EM10	9,200	22,000	5.6	1,200	2.4	0.70
PC-92	7/11/2018	PC-92-EM11	N	EM11	7,300	17,000	4.2	1,000	2.3	1.47
PC-92	7/27/2018	SWFTS-PC-92-EM12	N	EM12	5,200	15,000	--	--	--	0.28
PC-92	8/15/2018	PC-92-EM13	N	EM13	4,700	13,000	3.1	910	3.0	0.98
PC-92	9/12/2018	PC-92-EM14	N	EM14	4,100	12,000	2.6	950	2.6	2.95
PC-92	10/11/2018	PC-92-EM15	N	EM15	4,200	12,000	3.4	980	2.9	0
PC-92	12/20/2018	PC-92-EM16	N	EM16	3,500	13,000	2.6	820	3.1	0.72
PC-92	2/26/2019	PC-92-EM17	N	EM17	2,700	13,000	1.5	880	2.7	0.56
PC-92	4/10/2019	PC-92-EM18	N	EM18	3,100	8,200	2.2	870	2.7	0.84
PC-92	5/21/2019	PC-92-EM19	N	EM19	2,500	6,000	1.5	750	2.3	0.09
PC-92	7/1/2019	PC-92-EM20	N	EM20	3,100	7,000	1.8	840	3.4	0.42
PC-92	8/12/2019	PC-92-EM21	N	EM21	2,800	3,500	1.1	630	3.3	0.41
PC-92	11/6/2019	PC-92-EM22	N	EM22	4,000	11,000	2.0	970	2.8	0.56
PC-92	12/17/2019	PC-92-EM23	N	EM23	3,100	7,700	2.0	810	2.8	0.67
PC-92	1/28/2020	PC-92-EM24	N	EM24	6,700	20,000	4.7	840 J+	3.0	4.93
PC-92	3/12/2020	PC-92-EM25	N	EM25	8,800	26,000	6.4	1,100	2.5	1.63
PC-92	4/30/2020	PC-92-EM26	N	EM26	3,400	5,300	1.8	830	4.0	5.37
PC-92	7/7/2020	PC-92-EM27	N	EM27	8,600	23,000	5.9	970	3.5	0.72
PC-92	8/17/2020	PC-92-EM28	N	EM28	6,500	20,000	5.0	920	2.9	0.64
PC-92	10/14/2020	PC-92-EM29	N	EM29	6,300	19,000	4.1	1,000	2.5	0.48
PC-92	12/9/2020	PC-92-EM30	N	EM30	5,100	14,000	3.9	1,000	2.5	1.92
PC-92	2/1/2021	PC-92-EM31	N	EM31	7,900	33,000 J	4.2	1,100	2.7	0.9
PC-94	3/28/2017	PC-94-BL01	N	BL01	13,000	51,000	12	1,800	1.7	0.33
PC-94	7/13/2017	PC-94-BL02	N	BL02	14,000	47,000	12	1,800	1.3	0.41
PC-94	9/20/2017	SWFTS-PC-94-EM01	N	EM01	2,300	3,800	0.58 J	1,800	34	0.15
PC-94	9/26/2017	SWFTS-PC-94-EM02	N	EM02	2,000	3,700	<1.1	1,800	37	0.19
PC-94	10/5/2017	SWFTS-PC-94-EM03	N	EM03	1,700	3,600	1.3 J	1,600	5.2	0.13
PC-94	10/11/2017	SWFTS-PC-94-EM04	N	EM04	970	2,900	0.78 J	1,700	3.9	0.55
PC-94	10/26/2017	SWFTS-PC-94-EM05	N	EM05	540	1,300	1.4	1,700	3.1	3.80
PC-94	11/16/2017	PC-94-EM06	N	EM06	1,500	1,300	0.57 J	1,300	2.2	0.50
PC-94	12/12/2017	PC-94-EM07	N	EM07	4,300	9,300	0.68	1,400	2.1	0.19
PC-94	2/21/2018	PC-94-EM08	N	EM08	7,200	19,000	4.9	1,500	2.1	3.75
PC-94	3/27/2018	PC-94-EM09	N	EM09	6,400	16,000	4.8	1,500	1.9	2.07
PC-94	5/1/2018	PC-94-EM10	N	EM10	6,700	18,000	6.3	1,400	1.5	0.00
PC-94	7/10/2018	PC-94-EM11	N	EM11	4,200	7,200	5.6	1,600	2.0	0.10
PC-94	7/27/2018	SWFTS-PC-94-EM12	N	EM12	1,500	1,600	--	--	--	0.25
PC-94	8/15/2018	PC-94-EM13	N	EM13	2,600	1,800	3.2	1,500	2.2	1.53

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PC-94	9/11/2018	PC-94-EM14	N	EM14	3,500	6,200	5.2	1,500	1.7	1.67
PC-94	10/11/2018	PC-94-EM15	N	EM15	3,900	10,000	8.2	1,500	1.9	0
PC-94	12/28/2018	PC-94-EM16	N	EM16	3,200	9,000	8.3	1,400	1.7	4.54
PC-94	2/27/2019	PC-94-EM17	N	EM17	3,100	6,700	6.4	1,400	1.8	0.74
PC-94	4/11/2019	PC-94-EM18	N	EM18	3,000	5,600	5.2	1,500	1.8	1.43
PC-94	5/22/2019	PC-94-EM19	N	EM19	3,600	11,000	7.6	1,500	1.7	0.05
PC-94	7/5/2019	PC-94-EM20	N	EM20	4,100	16,000	8.2	1,400	2.9	4.35
PC-94	8/12/2019	PC-94-EM21	N	EM21	4,600	16,000	7.8	1,200	2.0	1.19
PC-94	11/6/2019	PC-94-EM22	N	EM22	4,200	16,000	7.8	1,300	1.6	3.82
PC-94	12/19/2019	PC-94-EM23	N	EM23	4,000	16,000	6.3	1,200	1.7	1.78
PC-94	1/30/2020	PC-94-EM24	N	EM24	5,600	44,000	7.8	1,200	1.8	4.11
PC-94	3/10/2020	PC-94-EM25	N	EM25	7,100	27,000	8.5 J-	1,300	1.8	2.62
PC-94	4/28/2020	PC-94-EM26	N	EM26	7,400	28,000	8.2	1,300	1.5	0.31
PC-94	7/6/2020	PC-94-EM27	N	EM27	5,100	14,000	6.7	1,400	2.5	1.04
PC-94	8/18/2020	PC-94-EM28	N	EM28	5,400	18,000	5.1	1,400	2.4	0.71
PC-94	10/15/2020	PC-94-EM29	N	EM29	5,900	19,000	7.5	1,300	1.6	0.74
PC-94	12/8/2020	PC-94-EM30	N	EM30	4,400	19,000	8.0	1,400	1.6	1.85
PC-94	2/1/2021	PC-94-EM31	N	EM31	6,500	20,000	8.1	1,400	1.4	0.53
PC-97	7/13/2017	PC-97-BL02	N	BL02	1,900	180	0.84	800	3.0	0.27
PC-97	9/22/2017	SWFTS-PC-97-EM01	N	EM01	2,900	360	2.1	1,000	3.0	0.39
PC-97	9/22/2017	SWFTS-PC-97-EM01-FD	FD	EM01	2,900	340	2.2	1,000	3.0	--
PC-97	9/28/2017	SWFTS-PC-97-EM02	N	EM02	2,600	370	2.1	1,100	3.6	4.28
PC-97	9/28/2017	SWFTS-PC-97-EM02-FD	FD	EM02	2,700	380	2.0	1,100	3.6	--
PC-97	10/4/2017	SWFTS-PC-97-EM03	N	EM03	2,900	460	2.6	900	2.7	0.19
PC-97	10/4/2017	SWFTS-PC-97-EM03-FD	FD	EM03	2,900	410	2.3	970	2.8	--
PC-97	10/11/2017	SWFTS-PC-97-EM04	N	EM04	2,500	400	2.5	1,000	2.7	0.48
PC-97	10/11/2017	SWFTS-PC-97-EM04-FD	FD	EM04	2,700	390	2.3	1,000	2.8	--
PC-97	10/25/2017	SWFTS-PC-97-EM05	N	EM05	3,400	390	2.9	1,100	2.8	0.39
PC-97	10/25/2017	SWFTS-PC-97-EM05-FD	FD	EM05	3,300	410	2.9	1,100	2.9	--
PC-97	11/16/2017	SWFTS-PC-97-EM06	N	EM06	1,600	190	1.8	1,200	3.2	0.48
PC-97	12/13/2017	PC-97-EM07	N	EM07	2,600	320	1.6	930	3.0	0.79
PC-97	12/13/2017	PC-97-EM07-FD	FD	EM07	3,000	320	1.9	930	3.0	--
PC-97	2/21/2018	PC-97-EM08	N	EM08	1,500	77	0.56	750	3.3	2.47
PC-97	3/27/2018	PC-97-EM09	N	EM09	900	<10	0.19	710	3.3	1.68
PC-97	5/1/2018	PC-97-EM10	N	EM10	820	<5.0	0.088 J	610	3.2	2.10
PC-97	7/10/2018	PC-97-EM11	N	EM11	1,700	91	0.32	690	3.0	3.45
PC-97	8/16/2018	PC-97-EM13	N	EM13	1,100	85	0.38 J+	760	3.4	2.94
PC-97	9/12/2018	PC-97-EM14	N	EM14	2,400	210	0.82	760	3.0	1.74
PC-97	10/11/2018	PC-97-EM15	N	EM15	1,700	160	0.71	820	3.4	0.71
PC-97	1/3/2019	PC-97-EM16	N	EM16	1,500	64	0.33	680	3.2	1.07
PC-97	2/28/2019	PC-97-EM17	N	EM17	1,300	80	0.71	720	3.5	0.44
PC-97	4/9/2019	PC-97-EM18	N	EM18	1,600	150	0.71 J-	790	3.0	0.53
PC-97	5/22/2019	PC-97-EM19	N	EM19	2,300	280	1.8	920	3.1	0.07

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PC-97	7/5/2019	PC-97-EM20	N	EM20	2,800	360	1.9	950	3.7	0.41
PC-97	8/14/2019	PC-97-EM21	N	EM21	3,100	330	1.7	860	3.3	0.39
PC-97	11/6/2019	PC-97-EM22	N	EM22	1,800	30	1.3	790	2.8	0.56
PC-97	12/20/2019	PC-97-EM23	N	EM23	1,100	48 J	0.29	670	3.1	0.81
PC-97	1/30/2020	PC-97-EM24	N	EM24	640	<4.0	0.12 J	610	3.4	4.31
PC-97	3/12/2020	PC-97-EM25	N	EM25	400	<2.0	<0.11	540	3.2	1.65
PC-97	4/30/2020	PC-97-EM26	N	EM26	390	<10	<0.11	550	3.2	4.82
PC-97	7/9/2020	PC-97-EM27	N	EM27	1,600	45 J	0.36	710	3.6	0.95
PC-97	10/15/2020	PC-97-EM29	N	EM29	2,100	110	1.1	730	3.2	0.52
SWFTS-IW01A	7/11/2017	SWFTS-IW01A-BL02	N	BL02	20,000	51,000	12	--	--	0.55
SWFTS-IW01A	11/14/2017	SWFTS-IW01A-EM06	N	EM06	42	--	<0.55	--	610 J-	0.09
SWFTS-IW01A	11/14/2017	SWFTS-IW01A-EM06B	N	EM06	--	--	--	--	610 J-	--
SWFTS-IW01B	7/11/2017	SWFTS-IW01B-BL02	N	BL02	20,000	48,000	11	--	--	0.61
SWFTS-IW01B	11/14/2017	SWFTS-IW01B-EM06B	N	EM06	--	--	--	--	160 J-	--
SWFTS-IW01B	11/15/2017	SWFTS-IW01B-EM06	N	EM06	170	--	<0.55	--	220	0.17
SWFTS-IW02A	7/11/2017	SWFTS-IW02A-BL02	N	BL02	22,000	52,000	12	2,100	2.0	0.57
SWFTS-IW02A	11/14/2017	SWFTS-IW02A-EM06B	N	EM06	--	--	--	--	3,900 J-	--
SWFTS-IW02B	7/11/2017	SWFTS-IW02B-BL02	N	BL02	22,000	55,000	12	2,100	2.8	0.46
SWFTS-IW02B	11/14/2017	SWFTS-IW02B-EM06B	N	EM06	--	--	--	--	3,100 J-	--
SWFTS-IW03	7/11/2017	SWFTS-IW03-BL02	N	BL02	21,000	58,000	13	--	--	0.48
SWFTS-IW03	7/11/2017	SWFTS-IW03-BL02-FD	FD	BL02	21,000	53,000	12	--	--	--
SWFTS-IW03	12/11/2017	SWFTS-IW03-EM07	N	EM07	--	--	--	--	340 J-	--
SWFTS-IW04	7/11/2017	SWFTS-IW04-BL02	N	BL02	17,000	42,000	11	--	--	0.42
SWFTS-IW04	7/11/2017	SWFTS-IW04-BL02-FD	FD	BL02	16,000	42,000	12	--	--	--
SWFTS-IW04	12/11/2017	SWFTS-IW04-EM07	N	EM07	--	--	--	--	4,600 J-	--
SWFTS-IW05	7/11/2017	SWFTS-IW05-BL02	N	BL02	15,000	45,000	12	1,800	1.7	0.53
SWFTS-IW05	12/11/2017	SWFTS-IW05-EM07	N	EM07	--	--	--	--	3,700 J-	--
SWFTS-IW06A	7/11/2017	SWFTS-IW06A-BL02	N	BL02	15,000	46,000	12	--	--	2.02
SWFTS-IW06A	11/14/2017	SWFTS-IW06A-EM06B	N	EM06	--	--	--	--	440 J-	--
SWFTS-IW06A	11/15/2017	SWFTS-IW06A-EM06	N	EM06	230	--	<0.55	--	630	0.16
SWFTS-IW06B	7/11/2017	SWFTS-IW06B-BL02	N	BL02	15,000	41,000	12	--	--	0.38
SWFTS-IW06B	11/14/2017	SWFTS-IW06B-EM06B	N	EM06	--	--	--	--	600 J-	--
SWFTS-IW06B	11/15/2017	SWFTS-IW06B-EM06	N	EM06	20	--	<0.55	--	660	0.36
SWFTS-IW07	7/11/2017	SWFTS-IW07-BL02	N	BL02	15,000	45,000	11	--	--	0.55
SWFTS-IW07	12/11/2017	SWFTS-IW07-EM07	N	EM07	--	--	--	--	5,600 J-	--
SWFTS-IW08	7/12/2017	SWFTS-IW08-BL02	N	BL02	14,000	40,000	12	--	--	0.79
SWFTS-IW08	12/11/2017	SWFTS-IW08-EM07	N	EM07	--	--	--	--	6,700 J-	--
SWFTS-IW09	7/12/2017	SWFTS-IW09-BL02	N	BL02	11,000	48,000	12	1,800	1.7	0.47
SWFTS-IW09	7/12/2017	SWFTS-IW09-BL02-FD	FD	BL02	11,000	47,000	12	1,800	1.4	--
SWFTS-IW09	12/11/2017	SWFTS-IW09-EM07	N	EM07	--	--	--	--	290 J-	--
SWFTS-IW10	7/12/2017	SWFTS-IW10-BL02	N	BL02	7,800	37,000	14	--	--	0.30
SWFTS-IW10	12/11/2017	SWFTS-IW10-EM07	N	EM07	--	--	--	--	290 J-	--
SWFTS-IW11	7/12/2017	SWFTS-IW11-BL02	N	BL02	5,600	6,600	2.0	1,000	2.6	0.38

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SWFTS-IW11	12/11/2017	SWFTS-IW11-EM07	N	EM07	--	--	--	--	1,000 J-	--
SWFTS-IW12	7/12/2017	SWFTS-IW12-BL02	N	BL02	6,200	7,800	2.5	--	--	0.51
SWFTS-IW12	12/11/2017	SWFTS-IW12-EM07	N	EM07	--	--	--	--	2,700 J-	--
SWFTS-IW13A	7/11/2017	SWFTS-IW13A-BL02	N	BL02	19,000	52,000	14	--	--	0.54
SWFTS-IW13A	11/14/2017	SWFTS-IW13A-EM06B	N	EM06	--	--	--	--	3,700 J-	--
SWFTS-IW13B	7/11/2017	SWFTS-IW13B-BL02	N	BL02	21,000	53,000	12	--	--	0.46
SWFTS-IW13B	11/14/2017	SWFTS-IW13B-EM06B	N	EM06	--	--	--	--	1,100 J-	--
SWFTS-IW14	7/12/2017	SWFTS-IW14-BL02	N	BL02	21,000	51,000	11	1,800	1.9	0.49
SWFTS-IW14	11/14/2017	SWFTS-IW14-EM06B	N	EM06	--	--	--	--	4,600	--
SWFTS-IW14	11/14/2017	SWFTS-IW14-EM06B-FD	FD	EM06	--	--	--	--	4,500 J-	--
SWFTS-IW15	7/12/2017	SWFTS-IW15-BL02	N	BL02	15,000	44,000	13	--	--	0.32
SWFTS-IW15	12/11/2017	SWFTS-IW15-EM07	N	EM07	--	--	--	--	1,300 J-	--
SWFTS-IW15	12/11/2017	SWFTS-IW15-EM07-FD	FD	EM07	--	--	--	--	1,300 J-	--
SWFTS-IW16A	7/11/2017	SWFTS-IW16A-BL02	N	BL02	17,000	45,000	11	--	--	0.86
SWFTS-IW16A	12/11/2017	SWFTS-IW16A-EM07	N	EM07	--	--	--	--	2,800 J-	--
SWFTS-IW16B	7/11/2017	SWFTS-IW16B-BL02	N	BL02	15,000	44,000	12	--	--	0.42
SWFTS-IW16B	12/11/2017	SWFTS-IW16B-EM07	N	EM07	--	--	--	--	940 J-	--
SWFTS-IW17	7/13/2017	SWFTS-IW17-BL02	N	BL02	13,000	47,000	12	1,600	1.4	0.41
SWFTS-IW17	11/14/2017	SWFTS-IW17-EM06B	N	EM06	--	--	--	--	6,500 J-	--
SWFTS-IW17	11/15/2017	SWFTS-IW17-EM06	N	EM06	<19	--	<1.1	--	7,500	0.36
SWFTS-IW18	7/13/2017	SWFTS-IW18-BL02	N	BL02	14,000	47,000	12	--	--	0.30
SWFTS-IW18	11/14/2017	SWFTS-IW18-EM06B	N	EM06	--	--	--	--	1.8	--
SWFTS-IW19	7/13/2017	SWFTS-IW19-BL02	N	BL02	6,400	57,000	16	--	--	3.30
SWFTS-IW19	12/11/2017	SWFTS-IW19-EM07	N	EM07	--	--	--	--	4,100 J-	--
SWFTS-IW20	7/12/2017	SWFTS-IW20-BL02	N	BL02	4,400	31,000	17	2,300	1.0	4.23
SWFTS-IW20	11/14/2017	SWFTS-IW20-EM06B	N	EM06	--	--	--	--	6,500 J-	--
SWFTS-MW01	3/29/2017	SWFTS-MW01-BL01	N	BL01	15,000	49,000	12	4,700	1.6	1.07
SWFTS-MW01	9/19/2017	SWFTS-MW01-EM01	N	EM01	2,100	39,000	<0.55	1,800	11	1.38
SWFTS-MW01	9/26/2017	SWFTS-MW01-EM02	N	EM02	4,300	10,000	1.4 J	1,800	4.3	0.23
SWFTS-MW01	10/4/2017	SWFTS-MW01-EM03	N	EM03	5,000	13,000	3.3	1,600	2.5	0.20
SWFTS-MW01	10/10/2017	SWFTS-MW01-EM04	N	EM04	5,600	15,000	3.3	1,600	2.2	0.47
SWFTS-MW01	10/25/2017	SWFTS-MW01-EM05	N	EM05	15,000	18,000	5.1	1,500	2.1	0.89
SWFTS-MW01	11/15/2017	SWFTS-MW01-EM06	N	EM06	7,900	22,000	4.9	1,500	1.9	0.81
SWFTS-MW01	12/14/2017	SWFTS-MW01-EM07	N	EM07	8,000	24,000	5.3	1,500	1.9	0.20
SWFTS-MW01	2/20/2018	SWFTS-MW01-EM08	N	EM08	3,900	12,000	3.4	1,400	2.7	2.85
SWFTS-MW01	3/27/2018	SWFTS-MW01-EM09	N	EM09	6,900	26,000	5.3	1,400	1.9	2.42
SWFTS-MW01	4/30/2018	SWFTS-MW01-EM10	N	EM10	9,400	36,000	8.9	1,600	1.4	0.15
SWFTS-MW01	7/10/2018	SWFTS-MW01-EM11	N	EM11	3,100	6,900	1.4	1,300	2.4	0.04
SWFTS-MW01	7/27/2018	SWFTS-MW01-EM12	N	EM12	5,500	28,000	--	--	--	0.29
SWFTS-MW01	7/27/2018	SWFTS-MW01-EM12-FD	FD	EM12	5,500	28,000	--	--	--	--
SWFTS-MW01	8/16/2018	SWFTS-MW01-EM13	N	EM13	6,100	34,000	6.4	1,300	2.0	0.80
SWFTS-MW01	9/10/2018	SWFTS-MW01-EM14	N	EM14	6,300	34,000	8.4	1,400	1.9	6.07
SWFTS-MW01	10/9/2018	SWFTS-MW01-EM15	N	EM15	4,700 J	24,000	7.1	1,300	2.1	0.09

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW01	12/27/2018	SWFTS-MW01-EM16	N	EM16	4,300	7,400	9.9	1,300	1.8	0.51
SWFTS-MW01	2/26/2019	SWFTS-MW01-EM17	N	EM17	1,300	<10	1.7	1,100	2.6	0.50
SWFTS-MW01	4/10/2019	SWFTS-MW01-EM18	N	EM18	3,800	<10	5.2	1,200	1.9	0.59
SWFTS-MW01	5/21/2019	SWFTS-MW01-EM19	N	EM19	4,100	<10	6.4	1,200	1.6	0.75
SWFTS-MW01	7/1/2019	SWFTS-MW01-EM20	N	EM20	4,100	<10	5.4	1,300	2.1	0.29
SWFTS-MW01	8/12/2019	SWFTS-MW01-EM21	N	EM21	3,800	<10	3.9	1,100	1.9	0.36
SWFTS-MW01	11/5/2019	SWFTS-MW01-EM22	N	EM22	54	<10	<0.55	870	2.7	0.49
SWFTS-MW01	12/18/2019	SWFTS-MW01-EM23	N	EM23	3,600	<10	3.7	1,100	1.7	0.89
SWFTS-MW01	1/29/2020	SWFTS-MW01-EM24	N	EM24	4,500	<10	5.0	1,200 J+	2.4	4.25
SWFTS-MW01	3/11/2020	SWFTS-MW01-EM25	N	EM25	6,400	<20	4.9	1,200	2.2	2.34
SWFTS-MW01	4/28/2020	SWFTS-MW01-EM26	N	EM26	7,500	110	6.2	1,300	1.8	0.5
SWFTS-MW01	7/8/2020	SWFTS-MW01-EM27	N	EM27	5,300	1,800	2.9	1,400	1.9	2.49
SWFTS-MW01	8/18/2020	SWFTS-MW01-EM28	N	EM28	5,500	16 J	3.9	1,300	2.4	0.61
SWFTS-MW01	10/13/2020	SWFTS-MW01-EM29	N	EM29	5,200	<10	4.4	1,300	2.1	0.98
SWFTS-MW01	12/9/2020	SWFTS-MW01-EM30	N	EM30	4,900	<10	5.2	1,400	1.5	1.91
SWFTS-MW01	2/2/2021	SWFTS-MW01-EM31	N	EM31	5,700	<9.8	5.3	1,300	1.6 J+	0.56
SWFTS-MW02	3/29/2017	SWFTS-MW02-BL01	N	BL01	25,000	58,000	11	2,200	2.2	0.33
SWFTS-MW02	9/21/2017	SWFTS-MW02-EM01	N	EM01	23,000	52,000	8.5	1,800	2.1	0.16
SWFTS-MW02	9/27/2017	SWFTS-MW02-EM02	N	EM02	23,000	47,000	9.4	2,000	2.2	0.14
SWFTS-MW02	10/4/2017	SWFTS-MW02-EM03	N	EM03	22,000	45,000	8.7	1,900	2.0	1.76
SWFTS-MW02	10/12/2017	SWFTS-MW02-EM04	N	EM04	20,000	23,000	6.2	1,900	2.3	0.25
SWFTS-MW02	10/26/2017	SWFTS-MW02-EM05	N	EM05	21,000	34,000	4.6 J-	2,000	2.5	2.11
SWFTS-MW02	11/14/2017	SWFTS-MW02-EM06	N	EM06	17,000	32,000	6.5	1,900	2.5	0.90
SWFTS-MW02	12/13/2017	SWFTS-MW02-EM07	N	EM07	19,000	38,000	6.7	2,800	2.1	0.01
SWFTS-MW02	2/19/2018	SWFTS-MW02-EM08	N	EM08	14,000	28,000	4.7	1,700	2.5	2.59
SWFTS-MW02	3/27/2018	SWFTS-MW02-EM09	N	EM09	4,400	7,400	0.80	1,300	2.5	1.76
SWFTS-MW02	4/30/2018	SWFTS-MW02-EM10	N	EM10	4,600	6,100	0.95 J	1,500	2.3	1.59
SWFTS-MW02	7/11/2018	SWFTS-MW02-EM11	N	EM11	3,700	5,100	1.7	1,600	1.9	1.86
SWFTS-MW02	7/27/2018	SWFTS-MW02-EM12	N	EM12	2,100	3,900	--	--	--	0.24
SWFTS-MW02	8/15/2018	SWFTS-MW02-EM13	N	EM13	1,700	2,600	0.74 J	1,400	2.5	2.35
SWFTS-MW02	9/10/2018	SWFTS-MW02-EM14	N	EM14	1,300	2,500	<0.55	1,300	2.5	5.31
SWFTS-MW02	10/10/2018	SWFTS-MW02-EM15	N	EM15	1,400	950	<1.1	1,300	3.0	0
SWFTS-MW02	12/20/2018	SWFTS-MW02-EM16	N	EM16	620	77 J	<0.55	1,400 J+	2.4	2.95
SWFTS-MW02	2/25/2019	SWFTS-MW02-EM17	N	EM17	740	32 J	<1.1	1,300	2.5	0.33
SWFTS-MW02	4/9/2019	SWFTS-MW02-EM18	N	EM18	1,300	82 J	<1.1 UJ	1,500	2.1	0.40
SWFTS-MW02	5/21/2019	SWFTS-MW02-EM19	N	EM19	3,200	50 J	<1.1	1,500	2.3	6.97
SWFTS-MW02	7/2/2019	SWFTS-MW02-EM20	N	EM20	4,200	<4.0	<0.55	1,400	2.5	0.34
SWFTS-MW02	8/14/2019	SWFTS-MW02-EM21	N	EM21	3,900	<20	<0.28	1,500	2.4	0.36
SWFTS-MW02	11/7/2019	SWFTS-MW02-EM22	N	EM22	2,700	<10	<0.28	1,200	2.2	0.49
SWFTS-MW02	12/17/2019	SWFTS-MW02-EM23	N	EM23	6,800	2,700	2.6	1,300	1.9	0.60
SWFTS-MW02	1/28/2020	SWFTS-MW02-EM24	N	EM24	6,600	11,000	4.3	1,200 J+	2.9	4.00
SWFTS-MW02	3/12/2020	SWFTS-MW02-EM25	N	EM25	7,500	13,000	5.6	1,300	3.2	1.4
SWFTS-MW02	4/30/2020	SWFTS-MW02-EM26	N	EM26	9,500	17,000	7.1	1,400	2.1	0.49

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW02	7/8/2020	SWFTS-MW02-EM27	N	EM27	7,000	7,700	5.1	1,500	3.1	0.86
SWFTS-MW02	8/17/2020	SWFTS-MW02-EM28	N	EM28	8,800	16,000	7.2	1,400	2.2	0.6
SWFTS-MW02	10/15/2020	SWFTS-MW02-EM29	N	EM29	8,700	16,000	7.1	1,400	1.9	0.46
SWFTS-MW02	12/10/2020	SWFTS-MW02-EM30	N	EM30	8,900	16,000	7.1	1,500	1.8	1.95
SWFTS-MW02	2/2/2021	SWFTS-MW02-EM31	N	EM31	9,700	11,000 J+	7.2	1,500	2.3 J+	0.58
SWFTS-MW03	3/30/2017	SWFTS-MW03-BL01	N	BL01	9,900	47,000	13	2,200	1.6	1.64
SWFTS-MW03	3/30/2017	SWFTS-MW03-BL01-FD	FD	BL01	9,200	47,000	13	2,400	1.7	--
SWFTS-MW03	9/21/2017	SWFTS-MW03-EM01	N	EM01	<4.8	<100	<0.55	2,300	4.2	0.19
SWFTS-MW03	9/27/2017	SWFTS-MW03-EM02	N	EM02	4.8	<100	<0.55	2,200	3.0	0.11
SWFTS-MW03	10/4/2017	SWFTS-MW03-EM03	N	EM03	<0.95	<50	<0.55	2,300	2.3	1.02
SWFTS-MW03	10/12/2017	SWFTS-MW03-EM04	N	EM04	21	<100	<0.55	2,200	2.0	0.14
SWFTS-MW03	10/26/2017	SWFTS-MW03-EM05	N	EM05	990	3,200	0.73 J	2,100	2.1	1.59
SWFTS-MW03	11/16/2017	SWFTS-MW03-EM06	N	EM06	3,200	15,000	3.2	2,100	1.7	0.64
SWFTS-MW03	12/12/2017	SWFTS-MW03-EM07	N	EM07	3,700	22,000	4.3	1,900	1.8	2.21
SWFTS-MW03	2/21/2018	SWFTS-MW03-EM08	N	EM08	3,400	33,000	4.2	1,900	1.7	0.30
SWFTS-MW03	3/27/2018	SWFTS-MW03-EM09	N	EM09	4,200	27,000	6.4	2,000	1.5	0.62
SWFTS-MW03	5/2/2018	SWFTS-MW03-EM10	N	EM10	4,300	30,000	7.9	2,100	1.4	0.45
SWFTS-MW03	7/10/2018	SWFTS-MW03-EM11	N	EM11	1,300	3,000	1.3	2,000	2.3	0.79
SWFTS-MW03	7/27/2018	SWFTS-MW03-EM12	N	EM12	1,900 J+	1,800	--	--	--	0.23
SWFTS-MW03	8/15/2018	SWFTS-MW03-EM13	N	EM13	1,900	280 J	3.6	1,900	1.9	0.48
SWFTS-MW03	9/11/2018	SWFTS-MW03-EM14	N	EM14	2,200	<10	4.9	1,900	1.5	1.84
SWFTS-MW03	10/9/2018	SWFTS-MW03-EM15	N	EM15	2,200	<20	5.9	2,000	2.0	0
SWFTS-MW03	1/2/2019	SWFTS-MW03-EM16	N	EM16	2,500	<10	7.7	2,000	1.8	0.8
SWFTS-MW03	2/27/2019	SWFTS-MW03-EM17	N	EM17	2,700	27 J	10	2,000	1.5	0.95
SWFTS-MW03	4/10/2019	SWFTS-MW03-EM18	N	EM18	2,700	130	8.4	2,100	1.4	0.95
SWFTS-MW03	5/21/2019	SWFTS-MW03-EM19	N	EM19	2,800	150	7.7	2,000	1.4	0.57
SWFTS-MW03	7/1/2019	SWFTS-MW03-EM20	N	EM20	2,800	550	8.2	2,000	1.9	0.34
SWFTS-MW03	8/14/2019	SWFTS-MW03-EM21	N	EM21	3,000	2,700	8.5	2,000	1.8	0.40
SWFTS-MW03	11/4/2019	SWFTS-MW03-EM22	N	EM22	2,100	1,000	6.8	2,000	1.6	0.52
SWFTS-MW03	12/19/2019	SWFTS-MW03-EM23	N	EM23	2,600	770	7.7	1,700	1.5	0.95
SWFTS-MW03	1/30/2020	SWFTS-MW03-EM24	N	EM24	3,100	1,800	8.0	1,800	1.6	2.58
SWFTS-MW03	3/9/2020	SWFTS-MW03-EM25	N	EM25	3,800	4,200	7.6	1,600	1.8	2.24
SWFTS-MW03	4/28/2020	SWFTS-MW03-EM26	N	EM26	3,400	5,400	7.1	1,700	1.7	0.58
SWFTS-MW03	7/6/2020	SWFTS-MW03-EM27	N	EM27	2,600	610	6.5	1,800	1.9	0.84
SWFTS-MW03	8/18/2020	SWFTS-MW03-EM28	N	EM28	2,300	<10	6.7	1,800	2.1	0.66
SWFTS-MW03	10/13/2020	SWFTS-MW03-EM29	N	EM29	2,300	<10	7.9	2,000	1.9	0.48
SWFTS-MW03	12/8/2020	SWFTS-MW03-EM30	N	EM30	2,500	<10	8.6	2,000	1.4	1.97
SWFTS-MW03	2/2/2021	SWFTS-MW03-EM31	N	EM31	2,700	49 J	8.5	1,900	1.5 J+	0.51
SWFTS-MW04	3/31/2017	SWFTS-MW04-BL01	N	BL01	14,000	26,000	5.5	1,400	2.3	7.02
SWFTS-MW04	9/20/2017	SWFTS-MW04-EM01	N	EM01	3,600	4,900	1.3	750	2.6	0.85
SWFTS-MW04	9/20/2017	SWFTS-MW04-EM01-FD	FD	EM01	3,600	4,800	1.3	820	2.6	--
SWFTS-MW04	9/27/2017	SWFTS-MW04-EM02	N	EM02	3,600	5,400	1.5	780	3.1	2.73
SWFTS-MW04	9/27/2017	SWFTS-MW04-EM02-FD	FD	EM02	3,500	5,400	1.5	860	3.1	--

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW04	10/4/2017	SWFTS-MW04-EM03	N	EM03	4,000	4,700	1.5	840	2.7	0.11
SWFTS-MW04	10/4/2017	SWFTS-MW04-EM03-FD	FD	EM03	3,900	4,700	1.9	840	2.6	--
SWFTS-MW04	10/11/2017	SWFTS-MW04-EM04	N	EM04	2,900	3,900	1.3	810	2.7	1.39
SWFTS-MW04	10/24/2017	SWFTS-MW04-EM05	N	EM05	3,600	4,200	1.4	840	2.9	0.28
SWFTS-MW04	10/24/2017	SWFTS-MW04-EM05-FD	FD	EM05	3,500	4,200	1.5	880	3.0	--
SWFTS-MW04	11/15/2017	SWFTS-MW04-EM06	N	EM06	3,500	3,400	1.6	900	3.0	0.89
SWFTS-MW04	12/14/2017	SWFTS-MW04-EM07	N	EM07	4,000	4,700	1.8	910	2.9	0.45
SWFTS-MW04	2/21/2018	SWFTS-MW04-EM08	N	EM08	5,200	8,000	2.4	900	2.7	0.37
SWFTS-MW04	3/27/2018	SWFTS-MW04-EM09	N	EM09	6,100	14,000	3.5	1,100	2.5	0.43
SWFTS-MW04	5/1/2018	SWFTS-MW04-EM10	N	EM10	4,100	3,700	1.4	860	2.8	2.80
SWFTS-MW04	7/10/2018	SWFTS-MW04-EM11	N	EM11	6,400	15,000	4.5	940	2.5	0.00
SWFTS-MW04	8/16/2018	SWFTS-MW04-EM13	N	EM13	3,100	8,700	1.9 J+	730	2.9	0.91
SWFTS-MW04	9/12/2018	SWFTS-MW04-EM14	N	EM14	4,000	9,100	2.6	820	2.9	2.64
SWFTS-MW04	10/11/2018	SWFTS-MW04-EM15	N	EM15	3,400	8,300	2.0	790	3.0	0.84
SWFTS-MW04	1/3/2019	SWFTS-MW04-EM16	N	EM16	3,500	6,900	1.6	630	3.1	1.11
SWFTS-MW04	3/1/2019	SWFTS-MW04-EM17	N	EM17	3,500 J+	8,900	2.6	840	2.9	0.55
SWFTS-MW04	4/9/2019	SWFTS-MW04-EM18	N	EM18	3,100	7,500	2.3 J-	870	2.8	0.70
SWFTS-MW04	5/21/2019	SWFTS-MW04-EM19	N	EM19	2,400	5,300	1.2	690	3.0	0.05
SWFTS-MW04	7/5/2019	SWFTS-MW04-EM20	N	EM20	2,100	4,000	1.2	720	3.7	0.40
SWFTS-MW04	8/14/2019	SWFTS-MW04-EM21	N	EM21	3,300	5,400	1.7	730	3.4	0.39
SWFTS-MW04	11/7/2019	SWFTS-MW04-EM22	N	EM22	2,600	4,900	1.9	770	2.9	0.36
SWFTS-MW04	12/19/2019	SWFTS-MW04-EM23	N	EM23	4,200	9,600	2.3	820	2.8	0.89
SWFTS-MW04	1/29/2020	SWFTS-MW04-EM24	N	EM24	9,400	26,000	7.1	1,000 J+	2.7	2.89
SWFTS-MW04	3/12/2020	SWFTS-MW04-EM25	N	EM25	9,100	24,000	6.6	970	2.5	1.64
SWFTS-MW04	5/1/2020	SWFTS-MW04-EM26	N	EM26	12,000	29,000	7.1	1,100	2.2	0.11
SWFTS-MW04	7/7/2020	SWFTS-MW04-EM27	N	EM27	7,100	17,000	4.4	910	2.9	0.85
SWFTS-MW04	8/18/2020	SWFTS-MW04-EM28	N	EM28	6,000	15,000	3.5	890	3.0	0.63
SWFTS-MW04	10/14/2020	SWFTS-MW04-EM29	N	EM29	5,800	15,000	3.4	840	3.0	0.47
SWFTS-MW04	12/10/2020	SWFTS-MW04-EM30	N	EM30	5,300	13,000	3.2	430	2.5	1.89
SWFTS-MW04	2/2/2021	SWFTS-MW04-EM31	N	EM31	4,600	11,000	2.5	830	2.7 J+	0.64
SWFTS-MW05A	3/30/2017	SWFTS-MW05A-BL01	N	BL01	7,400	67,000	18	3,000	1.4	4.28
SWFTS-MW05A	9/20/2017	SWFTS-MW05A-EM01	N	EM01	5,700	51,000	17	2,500	1.1	4.18
SWFTS-MW05A	9/27/2017	SWFTS-MW05A-EM02	N	EM02	5,600	44,000	18	2,500	1.2	3.30
SWFTS-MW05A	10/3/2017	SWFTS-MW05A-EM03	N	EM03	5,800	46,000	16	2,400	0.80 J	5.46
SWFTS-MW05A	10/10/2017	SWFTS-MW05A-EM04	N	EM04	5,600	44,000	16	2,700	1.3	3.41
SWFTS-MW05A	10/23/2017	SWFTS-MW05A-EM05	N	EM05	4,700	43,000	15	2,600	1.3	2.96
SWFTS-MW05A	11/14/2017	SWFTS-MW05A-EM06	N	EM06	5,500	38,000	16	2,500	1.4	2.27
SWFTS-MW05A	12/13/2017	SWFTS-MW05A-EM07	N	EM07	5,300	43,000	17	2,500	1.3	2.10
SWFTS-MW05A	2/20/2018	SWFTS-MW05A-EM08	N	EM08	6,400	53,000	18	2,600	1.4	2.78
SWFTS-MW05A	3/26/2018	SWFTS-MW05A-EM09	N	EM09	6,600	58,000	16	2,500	1.1	0.99
SWFTS-MW05A	4/30/2018	SWFTS-MW05A-EM10	N	EM10	6,400 J	55,000	17	2,600	1.0	2.16
SWFTS-MW05A	7/11/2018	SWFTS-MW05A-EM11	N	EM11	5,200	46,000	15	2,300	0.87 J	2.65
SWFTS-MW05A	7/27/2018	SWFTS-MW05A-EM12	N	EM12	4,300	41,000	--	--	--	3.46

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW05A	8/14/2018	SWFTS-MW05A-EM13	N	EM13	3,600	35,000	10 J+	--	1.5	0.93
SWFTS-MW05A	9/11/2018	SWFTS-MW05A-EM14	N	EM14	3,400	30,000	9.5	2,500	1.2	2.59
SWFTS-MW05A	10/10/2018	SWFTS-MW05A-EM15	N	EM15	4,200	34,000	12	2,300	1.3	2.08
SWFTS-MW05A	12/20/2018	SWFTS-MW05A-EM16	N	EM16	5,000	21,000	16	2,600	1.3	0.68
SWFTS-MW05A	2/27/2019	SWFTS-MW05A-EM17	N	EM17	4,300	10,000	17	2,500	1.5	0.51
SWFTS-MW05A	4/10/2019	SWFTS-MW05A-EM18	N	EM18	3,100	56 J	13	2,500	1.5	0.70
SWFTS-MW05A	5/21/2019	SWFTS-MW05A-EM19	N	EM19	2,600	17 J	13	2,500	1.6	0.65
SWFTS-MW05A	7/1/2019	SWFTS-MW05A-EM20	N	EM20	2,700	<20	14	2,400	1.7	0.44
SWFTS-MW05A	8/13/2019	SWFTS-MW05A-EM21	N	EM21	3,100	33 J	13	2,500	1.9	0.3
SWFTS-MW05A	11/5/2019	SWFTS-MW05A-EM22	N	EM22	3,600 J+	30 J	14	2,500	1.8	0.60
SWFTS-MW05A	12/18/2019	SWFTS-MW05A-EM23	N	EM23	3,400	<10	12	2,400	1.3	0.83
SWFTS-MW05A	1/29/2020	SWFTS-MW05A-EM24	N	EM24	3,800	110	14	2,600 J+	1.4	2.55
SWFTS-MW05A	3/11/2020	SWFTS-MW05A-EM25	N	EM25	3,900	28 J	13 J-	2,600	1.8	2.24
SWFTS-MW05A	4/29/2020	SWFTS-MW05A-EM26	N	EM26	3,700	<20	13	2,600	1.4	0.57
SWFTS-MW05A	7/8/2020	SWFTS-MW05A-EM27	N	EM27	3,800	49 J	14	2,800	1.8 J-	0.79
SWFTS-MW05A	8/18/2020	SWFTS-MW05A-EM28	N	EM28	2,900	<10	11	2,700	2.9	0.64
SWFTS-MW05A	10/14/2020	SWFTS-MW05A-EM29	N	EM29	3,300 J-	<10	10	2,700	1.2	0.53
SWFTS-MW05A	12/8/2020	SWFTS-MW05A-EM30	N	EM30	3,700	<20	14	2,800	1.1	1.76
SWFTS-MW05A	2/2/2021	SWFTS-MW05A-EM31	N	EM31	4,300	<24	13	2,600	1.1 J+	0.59
SWFTS-MW05B	3/30/2017	SWFTS-MW05B-BL01	N	BL01	7,200	48,000	13	2,500	1.5	0.70
SWFTS-MW05B	9/22/2017	SWFTS-MW05B-EM01	N	EM01	190	300	<0.55	2,100	39	0.24
SWFTS-MW05B	9/27/2017	SWFTS-MW05B-EM02	N	EM02	<0.95	<50	<0.55	2,200	57	0.10
SWFTS-MW05B	10/3/2017	SWFTS-MW05B-EM03	N	EM03	8.3	<50	<0.55	1,900	90	0.10
SWFTS-MW05B	10/10/2017	SWFTS-MW05B-EM04	N	EM04	<0.95	<100	<0.55	2,000	100	0.08
SWFTS-MW05B	10/23/2017	SWFTS-MW05B-EM05	N	EM05	<0.95	<100	<0.55	1,800	68	0.34
SWFTS-MW05B	11/14/2017	SWFTS-MW05B-EM06	N	EM06	<0.95	16 J	<0.55	1,800	3.2	0.46
SWFTS-MW05B	12/13/2017	SWFTS-MW05B-EM07	N	EM07	990	5,300	0.36 J	2,000	2.3	0.30
SWFTS-MW05B	2/20/2018	SWFTS-MW05B-EM08	N	EM08	2,000	11,000	4.2	2,100	2.2	0.34
SWFTS-MW05B	3/26/2018	SWFTS-MW05B-EM09	N	EM09	2,600	18,000	4.6	1,900	1.7	0.49
SWFTS-MW05B	4/30/2018	SWFTS-MW05B-EM10	N	EM10	2,600	18,000	5.4	2,100	1.9	0.00
SWFTS-MW05B	7/10/2018	SWFTS-MW05B-EM11	N	EM11	190	1,500	0.66 J-	1,600	2.4	1.45
SWFTS-MW05B	7/27/2018	SWFTS-MW05B-EM12	N	EM12	240	1,600	--	--	--	4.21
SWFTS-MW05B	8/14/2018	SWFTS-MW05B-EM13	N	EM13	420	2,000	<0.55	--	2.5	0.80
SWFTS-MW05B	9/11/2018	SWFTS-MW05B-EM14	N	EM14	860	4,800	1.3	1,900	1.9	2.37
SWFTS-MW05B	10/9/2018	SWFTS-MW05B-EM15	N	EM15	1,400	8,700	2.5	1,800	2.3	0
SWFTS-MW05B	12/20/2018	SWFTS-MW05B-EM16	N	EM16	2,100	8,000	4.7	2,100	2.1	0.62
SWFTS-MW05B	2/27/2019	SWFTS-MW05B-EM17	N	EM17	910	240	3.8	1,900	2.1	0.61
SWFTS-MW05B	4/10/2019	SWFTS-MW05B-EM18	N	EM18	1,200	19 J	3.3	1,800	2.0	0.63
SWFTS-MW05B	5/21/2019	SWFTS-MW05B-EM19	N	EM19	1,200	<4.0	4.3	1,700	1.9	0.81
SWFTS-MW05B	7/1/2019	SWFTS-MW05B-EM20	N	EM20	1,400	<10	4.8	1,900	2.4	0.21
SWFTS-MW05B	8/13/2019	SWFTS-MW05B-EM21	N	EM21	1,600	<10	4.8	1,900	2.3	0.38
SWFTS-MW05B	11/5/2019	SWFTS-MW05B-EM22	N	EM22	790	13 J	1.6 J	1,700	2.3	0.48
SWFTS-MW05B	12/18/2019	SWFTS-MW05B-EM23	N	EM23	1,200	<10	3.4	2,300	1.9	0.72

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW05B	1/29/2020	SWFTS-MW05B-EM24	N	EM24	1,900	37 J	5.0	1,900 J+	2.0	2.43
SWFTS-MW05B	3/11/2020	SWFTS-MW05B-EM25	N	EM25	1,800	<20	4.9 J-	2,000	1.7	2.15
SWFTS-MW05B	4/29/2020	SWFTS-MW05B-EM26	N	EM26	1,800	<10	6.1	2,100	2.0	0.65
SWFTS-MW05B	7/8/2020	SWFTS-MW05B-EM27	N	EM27	1,100	<10	2.1	1,800	2.5	0.93
SWFTS-MW05B	8/18/2020	SWFTS-MW05B-EM28	N	EM28	1,100	32 J	4.0	1,800	3.0	0.91
SWFTS-MW05B	10/14/2020	SWFTS-MW05B-EM29	N	EM29	1,400	32 J	4.0	1,800	2.4	0.51
SWFTS-MW05B	12/8/2020	SWFTS-MW05B-EM30	N	EM30	1,300	<10	4.9	2,100	1.8	1.79
SWFTS-MW05B	2/2/2021	SWFTS-MW05B-EM31	N	EM31	1,500	<9.8	4.9	1,900	1.8 J+	0.46
SWFTS-MW06A	3/30/2017	SWFTS-MW06A-BL01	N	BL01	170	<10	<0.11	570	3.6	0.38
SWFTS-MW06A	9/21/2017	SWFTS-MW06A-EM01	N	EM01	2,400	220	1.5	890	3.0	0.16
SWFTS-MW06A	9/27/2017	SWFTS-MW06A-EM02	N	EM02	2,600	320	1.7	930	3.3	0.30
SWFTS-MW06A	10/3/2017	SWFTS-MW06A-EM03	N	EM03	2,700	300	2.0 J-	920	2.8	0.12
SWFTS-MW06A	10/11/2017	SWFTS-MW06A-EM04	N	EM04	5,500	1,100	1.9	970	3.0	0.37
SWFTS-MW06A	10/23/2017	SWFTS-MW06A-EM05	N	EM05	2,300	350	1.9	1,000	3.3	2.52
SWFTS-MW06A	11/16/2017	SWFTS-MW06A-EM06	N	EM06	3,300	380	2.5	1,500	2.8	0.42
SWFTS-MW06A	12/13/2017	SWFTS-MW06A-EM07	N	EM07	3,600	520	2.6	1,100	2.7	0.17
SWFTS-MW06A	2/22/2018	SWFTS-MW06A-EM08	N	EM08	1,800	200	0.88	890	3.4	0.37
SWFTS-MW06A	3/28/2018	SWFTS-MW06A-EM09	N	EM09	1,500	77	0.36	750	3.1	0.44
SWFTS-MW06A	5/1/2018	SWFTS-MW06A-EM10	N	EM10	760 J	10 J	0.11	650	3.1	0.27
SWFTS-MW06A	5/1/2018	SWFTS-MW06A-EM10-FD	FD	EM10	880	13 J	0.11	650	3.1	--
SWFTS-MW06A	7/11/2018	SWFTS-MW06A-EM11	N	EM11	830	21	0.11 J	640	2.9	2.40
SWFTS-MW06A	7/11/2018	SWFTS-MW06A-EM11-FD	FD	EM11	840	20	<0.11	650	2.9	--
SWFTS-MW06A	8/14/2018	SWFTS-MW06A-EM13	N	EM13	1,500	96	0.28	--	3.4	0.69
SWFTS-MW06A	8/14/2018	SWFTS-MW06A-EM13-FD	FD	EM13	1,500	95	0.29	--	3.3	--
SWFTS-MW06A	9/11/2018	SWFTS-MW06A-EM14	N	EM14	1,700	150	0.42	750	3.4	0.49
SWFTS-MW06A	9/11/2018	SWFTS-MW06A-EM14-FD	FD	EM14	1,600	140	0.43	810	3.3	--
SWFTS-MW06A	10/10/2018	SWFTS-MW06A-EM15	N	EM15	2,400	210	0.84	800	3.5	0.2
SWFTS-MW06A	10/10/2018	SWFTS-MW06A-EM15-FD	FD	EM15	2,100	210	0.79	780	3.6	--
SWFTS-MW06A	12/28/2018	SWFTS-MW06A-EM16	N	EM16	1,700	760	0.41	740	3.6	0.98
SWFTS-MW06A	12/28/2018	SWFTS-MW06A-EM16-FD	FD	EM16	1,600	760	0.42	730	3.5	--
SWFTS-MW06A	2/27/2019	SWFTS-MW06A-EM17	N	EM17	1,600	93	0.42	760	3.1	0.05
SWFTS-MW06A	2/27/2019	SWFTS-MW06A-EM17-FD	FD	EM17	1,500	95	0.43	830	3.1	--
SWFTS-MW06A	4/10/2019	SWFTS-MW06A-EM18	N	EM18	1,500	120	0.60	760	3.4	0.61
SWFTS-MW06A	4/10/2019	SWFTS-MW06A-EM18-FD	FD	EM18	1,500	120	0.59	760	3.3	--
SWFTS-MW06A	5/20/2019	SWFTS-MW06A-EM19	N	EM19	1,800	170	1.0	800	3.0	0.09
SWFTS-MW06A	5/20/2019	SWFTS-MW06A-EM19-FD	FD	EM19	1,800	160	0.86	800	3.2	--
SWFTS-MW06A	7/1/2019	SWFTS-MW06A-EM20	N	EM20	2,500	350 J	1.3	880	3.6	0.40
SWFTS-MW06A	7/1/2019	SWFTS-MW06A-EM20-FD	FD	EM20	2,800	310 J	1.2	890	3.7	--
SWFTS-MW06A	8/14/2019	SWFTS-MW06A-EM21	N	EM21	3,200	390	1.7	950	3.7	0.37
SWFTS-MW06A	8/14/2019	SWFTS-MW06A-EM21-FD	FD	EM21	3,300	380	1.7	970	3.2	--
SWFTS-MW06A	11/6/2019	SWFTS-MW06A-EM22	N	EM22	2,500	330	1.3	910	3.3	0.62
SWFTS-MW06A	11/6/2019	SWFTS-MW06A-EM22-FD	FD	EM22	2,600	320	1.3	910	3.2	--
SWFTS-MW06A	12/19/2019	SWFTS-MW06A-EM23	N	EM23	1,900	180	0.77	810	3.0	0.80

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW06A	12/19/2019	SWFTS-MW06A-EM23-FD	FD	EM23	1,900	190	0.77	780	2.8	--
SWFTS-MW06A	1/29/2020	SWFTS-MW06A-EM24	N	EM24	1,100	51 J	0.26	710 J+	3.2	4.31
SWFTS-MW06A	1/29/2020	SWFTS-MW06A-EM24-FD	FD	EM24	1,100	53 J	0.26	710 J+	3.2	--
SWFTS-MW06A	3/11/2020	SWFTS-MW06A-EM25	N	EM25	580	<4.0	<0.11	600	3.3	2.6
SWFTS-MW06A	3/11/2020	SWFTS-MW06A-EM25-FD	FD	EM25	600	<4.0	<0.11	600	3.3	--
SWFTS-MW06A	4/29/2020	SWFTS-MW06A-EM26	N	EM26	350	<10	<0.11	550	3.1	0.84
SWFTS-MW06A	4/29/2020	SWFTS-MW06A-EM26-FD	FD	EM26	360	<10	<0.11	560	3.2	--
SWFTS-MW06A	7/7/2020	SWFTS-MW06A-EM27	N	EM27	840	<2.0	<0.11	600	3.5	0.99
SWFTS-MW06A	7/7/2020	SWFTS-MW06A-EM27-FD	FD	EM27	850	<2.0	<0.11	610	3.4	--
SWFTS-MW06A	8/19/2020	SWFTS-MW06A-EM28	N	EM28	1,400	63 J	0.48	680	4.3	0.6
SWFTS-MW06A	8/19/2020	SWFTS-MW06A-EM28-FD	FD	EM28	1,400	70 J	0.57	670	4.6	--
SWFTS-MW06A	10/13/2020	SWFTS-MW06A-EM29	N	EM29	2,100	150	0.54 J	750	3.4	0.46
SWFTS-MW06A	10/13/2020	SWFTS-MW06A-EM29-FD	FD	EM29	2,100	140	0.54 J	740	3.3	--
SWFTS-MW06A	12/8/2020	SWFTS-MW06A-EM30	N	EM30	2,000 J	140	0.53 J+	810	2.9	1.9
SWFTS-MW06A	12/8/2020	SWFTS-MW06A-EM30-FD	FD	EM30	2,200 J	140	0.54 J+	810	2.9	--
SWFTS-MW06A	2/3/2021	SWFTS-MW06A-EM31	N	EM31	2,200	71 J	0.36	780	2.9	0.55
SWFTS-MW06A	2/3/2021	SWFTS-MW06A-EM31-FD	FD	EM31	2,200	78 J	0.37	790	2.9	--
SWFTS-MW06B	3/30/2017	SWFTS-MW06B-BL01	N	BL01	1,000	490	0.13 J	620	3.5	0.06
SWFTS-MW06B	9/21/2017	SWFTS-MW06B-EM01	N	EM01	2,000	350	0.70	770	2.8	0.18
SWFTS-MW06B	9/27/2017	SWFTS-MW06B-EM02	N	EM02	2,000	360	0.76	780	3.3	0.78
SWFTS-MW06B	10/3/2017	SWFTS-MW06B-EM03	N	EM03	2,500	340	1.0	790	2.8	0.11
SWFTS-MW06B	10/11/2017	SWFTS-MW06B-EM04	N	EM04	4,400	380	1.1	820	3.1	0.45
SWFTS-MW06B	10/23/2017	SWFTS-MW06B-EM05	N	EM05	2,000	390	1.3	890	3.1	1.14
SWFTS-MW06B	11/16/2017	SWFTS-MW06B-EM06	N	EM06	2,800	400	1.8	970	2.9	0.44
SWFTS-MW06B	12/13/2017	SWFTS-MW06B-EM07	N	EM07	3,200	590	2.2	990	2.9	0.91
SWFTS-MW06B	2/22/2018	SWFTS-MW06B-EM08	N	EM08	2,900	480	1.9	1,100	3.1	0.47
SWFTS-MW06B	3/28/2018	SWFTS-MW06B-EM09	N	EM09	2,500	370	1.1	900	2.8	0.59
SWFTS-MW06B	5/1/2018	SWFTS-MW06B-EM10	N	EM10	1,800	270	0.56	780	2.9	1.31
SWFTS-MW06B	7/11/2018	SWFTS-MW06B-EM11	N	EM11	880	140	0.18 J	660	2.9	2.05
SWFTS-MW06B	8/14/2018	SWFTS-MW06B-EM13	N	EM13	1,200	170	0.14	--	3.8	0.57
SWFTS-MW06B	9/11/2018	SWFTS-MW06B-EM14	N	EM14	1,700	230	0.23	720	3.3	0.71
SWFTS-MW06B	10/10/2018	SWFTS-MW06B-EM15	N	EM15	1,700	260	0.36 J	720	4.1	0.17
SWFTS-MW06B	12/28/2018	SWFTS-MW06B-EM16	N	EM16	1,900	270	0.66	770	3.1	0.7
SWFTS-MW06B	2/28/2019	SWFTS-MW06B-EM17	N	EM17	1,600	230	0.53	760	3.2	0.45
SWFTS-MW06B	4/10/2019	SWFTS-MW06B-EM18	N	EM18	1,600	210	1.2	740	3.4	0.54
SWFTS-MW06B	5/21/2019	SWFTS-MW06B-EM19	N	EM19	1,700	220	0.43	750	3.7	0.09
SWFTS-MW06B	7/1/2019	SWFTS-MW06B-EM20	N	EM20	2,100	340	0.73	780	3.6	0.43
SWFTS-MW06B	8/14/2019	SWFTS-MW06B-EM21	N	EM21	2,900	420	1.4	840	3.2	0.39
SWFTS-MW06B	11/6/2019	SWFTS-MW06B-EM22	N	EM22	3,000	530	1.6	930	<0.65	0.59
SWFTS-MW06B	12/19/2019	SWFTS-MW06B-EM23	N	EM23	2,500	410	1.0	820	2.9	0.82
SWFTS-MW06B	1/29/2020	SWFTS-MW06B-EM24	N	EM24	1,900	290	0.72	820 J+	3.4	3.56
SWFTS-MW06B	3/11/2020	SWFTS-MW06B-EM25	N	EM25	1,300	150	0.32	700	2.8	1.54
SWFTS-MW06B	4/29/2020	SWFTS-MW06B-EM26	N	EM26	690	70	<0.11	600	3.0	0.73

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW06B	7/7/2020	SWFTS-MW06B-EM27	N	EM27	600	29 J	<0.11	600	3.3	0.79
SWFTS-MW06B	8/19/2020	SWFTS-MW06B-EM28	N	EM28	890	61 J	<0.11	610	3.9	0.58
SWFTS-MW06B	10/13/2020	SWFTS-MW06B-EM29	N	EM29	1,800	170	0.35	700	3.4	0.48
SWFTS-MW06B	12/8/2020	SWFTS-MW06B-EM30	N	EM30	2,100	230	0.44 J+	750	2.8	6.39
SWFTS-MW06B	2/3/2021	SWFTS-MW06B-EM31	N	EM31	2,400	180	0.37	790	2.9	0.68
SWFTS-MW07A	3/30/2017	SWFTS-MW07A-BL01	N	BL01	14,000	44,000	11	1,600	2.1	0.16
SWFTS-MW07A	9/20/2017	SWFTS-MW07A-EM01	N	EM01	14,000	41,000	11	1,700	2.0	0.20
SWFTS-MW07A	9/26/2017	SWFTS-MW07A-EM02	N	EM02	15,000	36,000	11	1,600	2.3	0.49
SWFTS-MW07A	10/3/2017	SWFTS-MW07A-EM03	N	EM03	16,000	37,000	10	1,600	2.1	0.22
SWFTS-MW07A	10/11/2017	SWFTS-MW07A-EM04	N	EM04	12,000	39,000	12	1,600	2.0	0.11
SWFTS-MW07A	10/24/2017	SWFTS-MW07A-EM05	N	EM05	14,000	38,000	10	1,700	2.3	0.43
SWFTS-MW07A	11/15/2017	SWFTS-MW07A-EM06	N	EM06	16,000	40,000	12	1,600	2.1	0.35
SWFTS-MW07A	12/14/2017	SWFTS-MW07A-EM07	N	EM07	14,000	35,000	11	1,600	2.1	-0.02 E
SWFTS-MW07A	2/19/2018	SWFTS-MW07A-EM08	N	EM08	12,000	36,000	12	1,600	2.2	0.72
SWFTS-MW07A	3/28/2018	SWFTS-MW07A-EM09	N	EM09	11,000	36,000	12	1,300	1.8	3.29
SWFTS-MW07A	5/2/2018	SWFTS-MW07A-EM10	N	EM10	11,000	40,000	13	1,400	1.7	1.02
SWFTS-MW07A	7/11/2018	SWFTS-MW07A-EM11	N	EM11	11,000	44,000	14	1,300	1.6	1.42
SWFTS-MW07A	8/16/2018	SWFTS-MW07A-EM13	N	EM13	8,600	76,000	15	1,300	2.0	0.58
SWFTS-MW07A	9/12/2018	SWFTS-MW07A-EM14	N	EM14	9,500	42,000	17	1,400	1.8	1.30
SWFTS-MW07A	10/10/2018	SWFTS-MW07A-EM15	N	EM15	9,300	40,000	17	1,300	2.1	0.08
SWFTS-MW07A	1/2/2019	SWFTS-MW07A-EM16	N	EM16	8,100	35,000	15	1,300	1.8	0.99
SWFTS-MW07A	2/28/2019	SWFTS-MW07A-EM17	N	EM17	7,300	34,000	15	1,200	2.5	0.62
SWFTS-MW07A	4/12/2019	SWFTS-MW07A-EM18	N	EM18	7,600	36,000	16	1,200	1.7	0.72
SWFTS-MW07A	5/22/2019	SWFTS-MW07A-EM19	N	EM19	6,800	35,000	15	1,200	1.9	1.03
SWFTS-MW07A	7/3/2019	SWFTS-MW07A-EM20	N	EM20	7,800	36,000	14	1,200	2.2	0.41
SWFTS-MW07A	8/15/2019	SWFTS-MW07A-EM21	N	EM21	8,500	38,000	15	1,100	2.1	0.43
SWFTS-MW07A	11/7/2019	SWFTS-MW07A-EM22	N	EM22	7,900	35,000	13	1,100	1.8	0.62
SWFTS-MW07A	12/20/2019	SWFTS-MW07A-EM23	N	EM23	8,900	35,000	13	1,000	1.8	0.73
SWFTS-MW07A	1/28/2020	SWFTS-MW07A-EM24	N	EM24	9,000	39,000	14 J-	1,000 J+	1.8	0.59
SWFTS-MW07A	3/12/2020	SWFTS-MW07A-EM25	N	EM25	12,000	44,000	13 J-	1,100	2.0	2.25
SWFTS-MW07A	4/30/2020	SWFTS-MW07A-EM26	N	EM26	12,000	35,000	13	1,400	1.9	0.3
SWFTS-MW07A	7/9/2020	SWFTS-MW07A-EM27	N	EM27	5,300	42,000	15	1,400	2.1 J-	0.75
SWFTS-MW07A	8/19/2020	SWFTS-MW07A-EM28	N	EM28	9,300	37,000	12	1,400	2.2	0.61
SWFTS-MW07A	10/16/2020	SWFTS-MW07A-EM29	N	EM29	9,800	33,000	12	1,300	1.9	0.6
SWFTS-MW07A	12/9/2020	SWFTS-MW07A-EM30	N	EM30	8,600	32,000	13	1,300	1.7	2.09
SWFTS-MW07A	2/3/2021	SWFTS-MW07A-EM31	N	EM31	9,100	31,000	12	1,200	1.5	1
SWFTS-MW07B	3/30/2017	SWFTS-MW07B-BL01	N	BL01	13,000	40,000	11	1,800	2.0	1.29
SWFTS-MW07B	9/20/2017	SWFTS-MW07B-EM01	N	EM01	10,000	33,000	9.0	1,300	1.8	0.35
SWFTS-MW07B	9/26/2017	SWFTS-MW07B-EM02	N	EM02	11,000	29,000	10	1,500	2.2	0.60
SWFTS-MW07B	10/3/2017	SWFTS-MW07B-EM03	N	EM03	9,400	28,000	9.9	1,400	1.6	1.38
SWFTS-MW07B	10/11/2017	SWFTS-MW07B-EM04	N	EM04	8,400	28,000	11	1,400	1.7	0.13
SWFTS-MW07B	10/24/2017	SWFTS-MW07B-EM05	N	EM05	9,300	29,000	11	1,400	1.2	0.33
SWFTS-MW07B	11/15/2017	SWFTS-MW07B-EM06	N	EM06	9,700	29,000	12	1,300	2.0	0.42

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW07B	12/14/2017	SWFTS-MW07B-EM07	N	EM07	9,400	30,000	12	1,300	1.9	-0.09 E
SWFTS-MW07B	2/19/2018	SWFTS-MW07B-EM08	N	EM08	9,700	37,000	14	1,300	2.2	1.23
SWFTS-MW07B	3/28/2018	SWFTS-MW07B-EM09	N	EM09	11,000	47,000	16	1,300	1.7	0.30
SWFTS-MW07B	5/2/2018	SWFTS-MW07B-EM10	N	EM10	9,100	34,000	13	1,200	1.9	4.67
SWFTS-MW07B	7/11/2018	SWFTS-MW07B-EM11	N	EM11	8,300	43,000	16	1,300	1.7	1.60
SWFTS-MW07B	8/16/2018	SWFTS-MW07B-EM13	N	EM13	6,500	44,000	17	1,200	2.0	0.49
SWFTS-MW07B	9/12/2018	SWFTS-MW07B-EM14	N	EM14	6,200	31,000	17	1,200	1.8	1.69
SWFTS-MW07B	10/10/2018	SWFTS-MW07B-EM15	N	EM15	5,700	28,000	16	1,100	1.8	0.09
SWFTS-MW07B	1/3/2019	SWFTS-MW07B-EM16	N	EM16	6,100	32,000	13	900	1.6	1.35
SWFTS-MW07B	2/28/2019	SWFTS-MW07B-EM17	N	EM17	6,700	40,000	15	1,000	2.3	0.40
SWFTS-MW07B	4/12/2019	SWFTS-MW07B-EM18	N	EM18	7,500	39,000	14	1,100	1.6	0.52
SWFTS-MW07B	5/22/2019	SWFTS-MW07B-EM19	N	EM19	7,600	37,000	14	1,100	1.4	0.87
SWFTS-MW07B	7/3/2019	SWFTS-MW07B-EM20	N	EM20	6,500	30,000	13	1,000	2.1	0.47
SWFTS-MW07B	8/15/2019	SWFTS-MW07B-EM21	N	EM21	7,200	33,000	13	940	2.0	0.42
SWFTS-MW07B	11/7/2019	SWFTS-MW07B-EM22	N	EM22	6,400	33,000	12	890	1.6	0.59
SWFTS-MW07B	12/20/2019	SWFTS-MW07B-EM23	N	EM23	9,800	38,000	13	950	1.4	0.81
SWFTS-MW07B	1/28/2020	SWFTS-MW07B-EM24	N	EM24	12,000	47,000	14	1,100 J+	2.1	0.55
SWFTS-MW07B	3/12/2020	SWFTS-MW07B-EM25	N	EM25	14,000	46,000	13 J-	1,300	2.0	2.3
SWFTS-MW07B	4/30/2020	SWFTS-MW07B-EM26	N	EM26	10,000	41,000	12	1,400	1.7	0.49
SWFTS-MW07B	7/9/2020	SWFTS-MW07B-EM27	N	EM27	8,900	30,000	14	1,400	2.3 J-	0.79
SWFTS-MW07B	8/19/2020	SWFTS-MW07B-EM28	N	EM28	7,300	27,000	11	1,100	2.1	0.65
SWFTS-MW07B	10/16/2020	SWFTS-MW07B-EM29	N	EM29	6,500	21,000	11	920	2.1	0.55
SWFTS-MW07B	12/9/2020	SWFTS-MW07B-EM30	N	EM30	6,000	23,000	12	930	1.5	5.59
SWFTS-MW07B	2/3/2021	SWFTS-MW07B-EM31	N	EM31	8,500	37,000	12	990	1.5	0.89
SWFTS-MW08A	3/30/2017	SWFTS-MW08A-BL01	N	BL01	14,000	20,000	11	1,700	1.5	0.25
SWFTS-MW08A	9/20/2017	SWFTS-MW08A-EM01	N	EM01	10,000	47,000	12	1,500	1.4	0.41
SWFTS-MW08A	9/20/2017	SWFTS-MW08A-EM01-FD	FD	EM01	10,000	46,000	13	1,500	1.4	--
SWFTS-MW08A	9/26/2017	SWFTS-MW08A-EM02	N	EM02	9,800	40,000	12	1,600	1.7	0.27
SWFTS-MW08A	9/26/2017	SWFTS-MW08A-EM02-FD	FD	EM02	10,000	42,000	12	1,600	1.8	--
SWFTS-MW08A	10/5/2017	SWFTS-MW08A-EM03	N	EM03	7,800	42,000	14	1,600	1.6	4.16
SWFTS-MW08A	10/5/2017	SWFTS-MW08A-EM03-FD	FD	EM03	9,800	49,000	12	1,500	2.0	--
SWFTS-MW08A	10/10/2017	SWFTS-MW08A-EM04	N	EM04	9,500	43,000	12	1,500	1.6	44.01 E
SWFTS-MW08A	10/23/2017	SWFTS-MW08A-EM05	N	EM05	8,100	41,000	14	1,500	1.8	1.49
SWFTS-MW08A	10/23/2017	SWFTS-MW08A-EM05-FD	FD	EM05	8,100	40,000	12	1,500	1.8	--
SWFTS-MW08A	11/15/2017	SWFTS-MW08A-EM06	N	EM06	9,000	43,000	14	1,500	1.6	0.60
SWFTS-MW08A	12/14/2017	SWFTS-MW08A-EM07	N	EM07	8,900	45,000	14	1,400	1.6	0.11
SWFTS-MW08A	2/22/2018	SWFTS-MW08A-EM08	N	EM08	9,500	54,000	14	1,600	1.9	5.05
SWFTS-MW08A	3/29/2018	SWFTS-MW08A-EM09	N	EM09	9,100	59,000	15	1,500	1.5	2.61
SWFTS-MW08A	5/3/2018	SWFTS-MW08A-EM10	N	EM10	9,100	55,000	17	1,700	1.5	0.37
SWFTS-MW08A	7/11/2018	SWFTS-MW08A-EM11	N	EM11	7,500	63,000	15	1,400	1.3	1.54
SWFTS-MW08A	8/16/2018	SWFTS-MW08A-EM13	N	EM13	5,500	47,000	15	1,300	1.8	0.63
SWFTS-MW08A	9/12/2018	SWFTS-MW08A-EM14	N	EM14	5,600	43,000	15	1,400	1.6	0.77
SWFTS-MW08A	10/10/2018	SWFTS-MW08A-EM15	N	EM15	5,500	42,000	15	1,400	1.8	0.09

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW08A	1/2/2019	SWFTS-MW08A-EM16	N	EM16	7,200	45,000	15	1,500	2.0	1.23
SWFTS-MW08A	2/28/2019	SWFTS-MW08A-EM17	N	EM17	7,500	53,000	16	1,300	1.7	0.40
SWFTS-MW08A	4/12/2019	SWFTS-MW08A-EM18	N	EM18	7,100	50,000	15	1,300	1.4	0.74
SWFTS-MW08A	5/22/2019	SWFTS-MW08A-EM19	N	EM19	7,600	46,000	14	1,300	1.5	1.30
SWFTS-MW08A	7/1/2019	SWFTS-MW08A-EM20	N	EM20	6,700	44,000	14	1,200	1.9	0.55
SWFTS-MW08A	8/15/2019	SWFTS-MW08A-EM21	N	EM21	6,500	41,000	12	1,300	1.9	0.45
SWFTS-MW08A	11/7/2019	SWFTS-MW08A-EM22	N	EM22	6,400	17,000	13	1,100	1.5	0.76
SWFTS-MW08A	12/19/2019	SWFTS-MW08A-EM23	N	EM23	9,100	49,000	13	1,300	1.3	1.09
SWFTS-MW08A	1/28/2020	SWFTS-MW08A-EM24	N	EM24	11,000	57,000	15 J-	1,300 J+	1.6	0.76
SWFTS-MW08A	3/12/2020	SWFTS-MW08A-EM25	N	EM25	14,000	58,000	14 J-	1,400	1.5	2.52
SWFTS-MW08A	4/29/2020	SWFTS-MW08A-EM26	N	EM26	12,000	51,000	14	1,400	1.4	0.73
SWFTS-MW08A	7/8/2020	SWFTS-MW08A-EM27	N	EM27	9,800	47,000	15	1,400	1.2	0.93
SWFTS-MW08A	8/17/2020	SWFTS-MW08A-EM28	N	EM28	8,500	21,000	12	1,200	1.8	0.63
SWFTS-MW08A	10/16/2020	SWFTS-MW08A-EM29	N	EM29	7,400	36,000	13	1,100	1.4	1.35
SWFTS-MW08A	12/9/2020	SWFTS-MW08A-EM30	N	EM30	9,000	38,000	13	1,300	1.4	1.99
SWFTS-MW08A	2/3/2021	SWFTS-MW08A-EM31	N	EM31	8,700	36,000	13	1,200	1.4	1
SWFTS-MW08C	3/28/2017	SWFTS-MW08C-BL01	N	BL01	7,800	55,000	13	2,800	1.3	0.08
SWFTS-MW08C	12/14/2017	SWFTS-MW08C-EM07	N	EM07	9,300	50,000	13	--	1.1	-0.06 E
SWFTS-MW08C	4/29/2020	SWFTS-MW08C-EM26	N	EM26	8,800	52,000	--	--	--	2.1
SWFTS-MW09A	3/29/2017	SWFTS-MW09A-BL01	N	BL01	14,000	50,000	13	1,700	1.6	0.33
SWFTS-MW09A	9/21/2017	SWFTS-MW09A-EM01	N	EM01	3,400	1,200	<0.55	1,700	51	0.57
SWFTS-MW09A	9/28/2017	SWFTS-MW09A-EM02	N	EM02	54	<100	<0.55	1,700	40	0.26
SWFTS-MW09A	10/4/2017	SWFTS-MW09A-EM03	N	EM03	420	200	<0.55	1,800	22	4.54
SWFTS-MW09A	10/11/2017	SWFTS-MW09A-EM04	N	EM04	8.4 J+	55	<0.55	1,600	7.5	0.12
SWFTS-MW09A	10/25/2017	SWFTS-MW09A-EM05	N	EM05	1,300	1,700	<0.55	1,600	2.9	0.31
SWFTS-MW09A	11/16/2017	SWFTS-MW09A-EM06	N	EM06	3,400	8,400	1.2	1,500	2.1	1.88
SWFTS-MW09A	12/12/2017	SWFTS-MW09A-EM07	N	EM07	5,400	16,000	2.7	1,500	2.1	0.29
SWFTS-MW09A	2/20/2018	SWFTS-MW09A-EM08	N	EM08	6,800	16,000	5.3	1,500	2.1	4.16
SWFTS-MW09A	3/27/2018	SWFTS-MW09A-EM09	N	EM09	6,700	18,000	6.4	1,500	1.8	2.12
SWFTS-MW09A	5/1/2018	SWFTS-MW09A-EM10	N	EM10	7,300	19,000	8.0	1,400	1.6	0.00
SWFTS-MW09A	7/12/2018	SWFTS-MW09A-EM11	N	EM11	2,800	2,700	3.1	1,400	2.0	1.86
SWFTS-MW09A	7/27/2018	SWFTS-MW09A-EM12	N	EM12	1,900	1,600	--	--	--	5.97
SWFTS-MW09A	8/14/2018	SWFTS-MW09A-EM13	N	EM13	7,200	7,600	4.5	1,400	2.2	2.83
SWFTS-MW09A	9/11/2018	SWFTS-MW09A-EM14	N	EM14	4,000	13,000	6.5	1,500	1.7	1.72
SWFTS-MW09A	10/9/2018	SWFTS-MW09A-EM15	N	EM15	4,600	15,000	7.7	1,400	2.0	1.3
SWFTS-MW09A	12/27/2018	SWFTS-MW09A-EM16	N	EM16	3,600	14,000	9.1	1,400	1.8	0.83
SWFTS-MW09A	2/26/2019	SWFTS-MW09A-EM17	N	EM17	2,400	5,600	3.8	1,200	2.1	0.43
SWFTS-MW09A	4/10/2019	SWFTS-MW09A-EM18	N	EM18	3,500	12,000	6.0	1,400	1.8	0.72
SWFTS-MW09A	5/22/2019	SWFTS-MW09A-EM19	N	EM19	2,900	6,000	6.6	1,400	1.8	0.47
SWFTS-MW09A	7/2/2019	SWFTS-MW09A-EM20	N	EM20	3,500	13,000	6.5	1,400	2.2	0.45
SWFTS-MW09A	8/12/2019	SWFTS-MW09A-EM21	N	EM21	4,800	20,000	8.0	1,200	1.8	0.44
SWFTS-MW09A	11/5/2019	SWFTS-MW09A-EM22	N	EM22	2,500	8,400	3.6	1,200	2.0	0.70
SWFTS-MW09A	12/18/2019	SWFTS-MW09A-EM23	N	EM23	5,400	20,000	6.9 J+	1,000	1.7	0.76

Table 2
Groundwater Analytical Results
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Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW09A	1/28/2020	SWFTS-MW09A-EM24	N	EM24	5,700	25,000	7.6 J-	1,200 J+	1.8	0.84
SWFTS-MW09A	3/10/2020	SWFTS-MW09A-EM25	N	EM25	7,100	27,000	7.5 J-	1,300	1.7	2.34
SWFTS-MW09A	4/28/2020	SWFTS-MW09A-EM26	N	EM26	7,500	28,000	8.2	1,300	1.6	0.36
SWFTS-MW09A	7/6/2020	SWFTS-MW09A-EM27	N	EM27	3,000	5,600	3.3	1,300	2.2	0.7
SWFTS-MW09A	8/18/2020	SWFTS-MW09A-EM28	N	EM28	5,500	17,000	5.7	1,200	2.3	0.84
SWFTS-MW09A	10/13/2020	SWFTS-MW09A-EM29	N	EM29	5,700	20,000	7.1	1,300	1.7	0.28
SWFTS-MW09A	12/9/2020	SWFTS-MW09A-EM30	N	EM30	4,800	17,000	8.0	1,400	1.6	1.96
SWFTS-MW09A	2/3/2021	SWFTS-MW09A-EM31	N	EM31	6,400	24,000	8.6	1,300	1.5	0.65
SWFTS-MW09B	3/29/2017	SWFTS-MW09B-BL01	N	BL01	13,000	46,000	12	1,900	1.8	0.31
SWFTS-MW09B	3/29/2017	SWFTS-MW09B-BL01-FD	FD	BL01	15,000	46,000	12	1,800	1.8	--
SWFTS-MW09B	9/21/2017	SWFTS-MW09B-EM01	N	EM01	220	390	<0.55	1,700	30	1.81
SWFTS-MW09B	9/28/2017	SWFTS-MW09B-EM02	N	EM02	990	2,500	<0.55	1,700	25	0.38
SWFTS-MW09B	10/4/2017	SWFTS-MW09B-EM03	N	EM03	430	1,000	<1.1	1,500	29	3.71
SWFTS-MW09B	10/11/2017	SWFTS-MW09B-EM04	N	EM04	1,400	3,000	1.1	1,500	18	0.12
SWFTS-MW09B	10/25/2017	SWFTS-MW09B-EM05	N	EM05	2,700	7,700	1.7	1,400	2.4	0.38
SWFTS-MW09B	11/16/2017	SWFTS-MW09B-EM06	N	EM06	2,400	8,600	2.1	1,200	2.1	0.77
SWFTS-MW09B	12/12/2017	SWFTS-MW09B-EM07	N	EM07	3,500	13,000	3.4	1,300	2.1	0.07
SWFTS-MW09B	2/20/2018	SWFTS-MW09B-EM08	N	EM08	800	1,400	<1.1	1,200	2.5	5.47
SWFTS-MW09B	3/27/2018	SWFTS-MW09B-EM09	N	EM09	7,700	28,000	5.9	1,600	1.8	2.09
SWFTS-MW09B	4/30/2018	SWFTS-MW09B-EM10	N	EM10	7,400	23,000	7.9	1,600	1.8	0.00
SWFTS-MW09B	7/12/2018	SWFTS-MW09B-EM11	N	EM11	6,500	15,000	7.0	1,500	1.9	1.58
SWFTS-MW09B	7/26/2018	SWFTS-MW09B-EM12	N	EM12	6,600	20,000	--	--	--	1.16
SWFTS-MW09B	8/14/2018	SWFTS-MW09B-EM13	N	EM13	6,400	24,000	9.7	1,500	2.1	2.99
SWFTS-MW09B	9/11/2018	SWFTS-MW09B-EM14	N	EM14	6,600	28,000	11	1,500	1.6	1.12
SWFTS-MW09B	10/9/2018	SWFTS-MW09B-EM15	N	EM15	6,500	24,000	10	1,400	2.0	0.58
SWFTS-MW09B	12/28/2018	SWFTS-MW09B-EM16	N	EM16	5,500	21,000	11	1,300	1.7	1.3
SWFTS-MW09B	2/28/2019	SWFTS-MW09B-EM17	N	EM17	5,800	25,000	16 J-	1,400	1.9	0.50
SWFTS-MW09B	4/10/2019	SWFTS-MW09B-EM18	N	EM18	8,300	32,000	11	1,400	1.6	2.69
SWFTS-MW09B	5/22/2019	SWFTS-MW09B-EM19	N	EM19	7,300	30,000	10	1,300	1.6	0.70
SWFTS-MW09B	7/2/2019	SWFTS-MW09B-EM20	N	EM20	6,900	30,000	11	1,300	1.9	0.70
SWFTS-MW09B	8/12/2019	SWFTS-MW09B-EM21	N	EM21	7,200	28,000	11	1,100	1.9	0.53
SWFTS-MW09B	11/5/2019	SWFTS-MW09B-EM22	N	EM22	7,400	26,000	9.4	1,100	1.7	1.48
SWFTS-MW09B	12/18/2019	SWFTS-MW09B-EM23	N	EM23	8,300	28,000	11	1,100	1.5	0.87
SWFTS-MW09B	1/28/2020	SWFTS-MW09B-EM24	N	EM24	9,800	35,000	11 J-	1,300 J+	1.7	0.54
SWFTS-MW09B	3/10/2020	SWFTS-MW09B-EM25	N	EM25	11,000	36,000	11 J-	1,200	1.7	2.33
SWFTS-MW09B	4/28/2020	SWFTS-MW09B-EM26	N	EM26	12,000	39,000	11	1,400	1.6	0.85
SWFTS-MW09B	7/7/2020	SWFTS-MW09B-EM27	N	EM27	11,000	30,000	9.9	1,500	1.8	0.7
SWFTS-MW09B	8/18/2020	SWFTS-MW09B-EM28	N	EM28	11,000	31,000	11	1,400	2.0	0.71
SWFTS-MW09B	10/13/2020	SWFTS-MW09B-EM29	N	EM29	8,700	26,000	9.4	1,200	<0.65	0.71
SWFTS-MW09B	12/8/2020	SWFTS-MW09B-EM30	N	EM30	11,000	29,000	12	1,300	1.4	0.34
SWFTS-MW09B	2/1/2021	SWFTS-MW09B-EM31	N	EM31	10,000	21,000 J+	11	1,300	1.4	0.55
SWFTS-MW10A	3/31/2017	SWFTS-MW10A-BL01	N	BL01	13,000	27,000	5.1	1,400	2.8	2.70
SWFTS-MW10A	9/21/2017	SWFTS-MW10A-EM01	N	EM01	1.9 J	<50	<0.55	960	23	0.42

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW10A	9/27/2017	SWFTS-MW10A-EM02	N	EM02	100	<100	0.66 J	990	12	5.10
SWFTS-MW10A	10/4/2017	SWFTS-MW10A-EM03	N	EM03	14	<100	<0.28	920	10	4.56
SWFTS-MW10A	10/12/2017	SWFTS-MW10A-EM04	N	EM04	<0.95	13 J	<0.11	920	13	0.15
SWFTS-MW10A	10/24/2017	SWFTS-MW10A-EM05	N	EM05	14	630	<0.28	730	6.3	1.38
SWFTS-MW10A	11/16/2017	SWFTS-MW10A-EM06	N	EM06	11	<50	<0.28	690	4.2	0.60
SWFTS-MW10A	11/16/2017	SWFTS-MW10A-EM06-FD	FD	EM06	15	<50	<0.28	670	4.0	--
SWFTS-MW10A	12/12/2017	SWFTS-MW10A-EM07	N	EM07	160	190	<0.28	790	3.2	0.53
SWFTS-MW10A	12/12/2017	SWFTS-MW10A-EM07-FD	FD	EM07	170	180	<0.28	770	3.4	--
SWFTS-MW10A	2/20/2018	SWFTS-MW10A-EM08	N	EM08	990	1,400	<1.1	1,100	3.2	0.44
SWFTS-MW10A	2/20/2018	SWFTS-MW10A-EM08-FD	FD	EM08	1,000	1,300	1.3 J	1,200	3.3	--
SWFTS-MW10A	3/26/2018	SWFTS-MW10A-EM09	N	EM09	2,300	4,000	0.37 J	1,300	2.8	1.15
SWFTS-MW10A	3/26/2018	SWFTS-MW10A-EM09-FD	FD	EM09	2,200	4,000	0.36 J	1,300	2.8 J-	--
SWFTS-MW10A	5/1/2018	SWFTS-MW10A-EM10	N	EM10	4,300	4,800	0.96 J	1,300	2.5	0.83
SWFTS-MW10A	7/11/2018	SWFTS-MW10A-EM11	N	EM11	3,000 J-	40 J	0.89 J	1,300	2.2	2.42
SWFTS-MW10A	7/26/2018	SWFTS-MW10A-EM12	N	EM12	1,300	<10	--	--	--	0.55
SWFTS-MW10A	8/14/2018	SWFTS-MW10A-EM13	N	EM13	1,500	<10	<0.55	1,300	3.0	2.59
SWFTS-MW10A	9/10/2018	SWFTS-MW10A-EM14	N	EM14	1,500	<10	<0.55	1,200	2.9	0.37
SWFTS-MW10A	10/9/2018	SWFTS-MW10A-EM15	N	EM15	2,300	<20	<0.55	1,200	2.8	0.86
SWFTS-MW10A	12/20/2018	SWFTS-MW10A-EM16	N	EM16	3,000	83	1.3	1,300	3.4	0.7
SWFTS-MW10A	2/26/2019	SWFTS-MW10A-EM17	N	EM17	3,900	1,200	2.1 J	1,400	2.6	0.37
SWFTS-MW10A	4/10/2019	SWFTS-MW10A-EM18	N	EM18	2,800	1,400	1.7	1,400	2.8	0.61
SWFTS-MW10A	5/21/2019	SWFTS-MW10A-EM19	N	EM19	1,500	34 J	1.2	1,200	3.3	0.46
SWFTS-MW10A	7/1/2019	SWFTS-MW10A-EM20	N	EM20	1,500	<10	0.84 J	1,000	3.4	5.15
SWFTS-MW10A	8/12/2019	SWFTS-MW10A-EM21	N	EM21	870	<10	<0.55	930	3.1	0.38
SWFTS-MW10A	11/6/2019	SWFTS-MW10A-EM22	N	EM22	2,600	310	1.4	1,100	3.6 J-	0.49
SWFTS-MW10A	12/17/2019	SWFTS-MW10A-EM23	N	EM23	4,000 J+	3,600	2.1	1,200	4.4	0.69
SWFTS-MW10A	1/28/2020	SWFTS-MW10A-EM24	N	EM24	7,900	19,000	6.5	1,300 J+	2.3	0.55
SWFTS-MW10A	3/13/2020	SWFTS-MW10A-EM25	N	EM25	9,900	26,000	8.7	1,400	2.1 J+	1.55
SWFTS-MW10A	4/29/2020	SWFTS-MW10A-EM26	N	EM26	10,000	28,000	8.1	1,500	2.3	2.04
SWFTS-MW10A	7/7/2020	SWFTS-MW10A-EM27	N	EM27	9,600	24,000	7.9	1,500	2.8	0.7
SWFTS-MW10A	8/18/2020	SWFTS-MW10A-EM28	N	EM28	10,000	24,000	7.7	1,400	3.0	0.56
SWFTS-MW10A	10/14/2020	SWFTS-MW10A-EM29	N	EM29	9,100	27,000	8.3	1,500	3.1	0.36
SWFTS-MW10A	12/8/2020	SWFTS-MW10A-EM30	N	EM30	8,800	19,000	7.9	1,500	2.6 J-	0.36
SWFTS-MW10A	2/1/2021	SWFTS-MW10A-EM31	N	EM31	12,000	20,000 J+	8.6 J-	1,500 J-	2.0	0.57
SWFTS-MW10C	3/28/2017	SWFTS-MW10C-BL01	N	BL01	8,300	39,000	7.6	2,400	1.5	0.09
SWFTS-MW10C	12/12/2017	SWFTS-MW10C-EM07	N	EM07	9,200	38,000	8.4	--	1.3	0.51
SWFTS-MW10C	5/1/2020	SWFTS-MW10C-EM26	N	EM26	9,900	51,000	--	--	--	2.11
SWFTS-MW11	7/12/2017	SWFTS-MW11-BL02	N	BL02	13,000 J+	41,000	12	1,900	1.8	4.30
SWFTS-MW11	9/20/2017	SWFTS-MW11-EM01	N	EM01	13,000	40,000	11	1,700	1.7	1.86
SWFTS-MW11	9/26/2017	SWFTS-MW11-EM02	N	EM02	14,000	37,000	12	1,800	2.1	1.47
SWFTS-MW11	10/3/2017	SWFTS-MW11-EM03	N	EM03	13,000	36,000	12	1,800	1.8	0.93
SWFTS-MW11	10/11/2017	SWFTS-MW11-EM04	N	EM04	16,000	38,000	11	1,800	1.6	1.15
SWFTS-MW11	10/24/2017	SWFTS-MW11-EM05	N	EM05	13,000	36,000	12	1,800	5.7	2.32

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW11	11/16/2017	SWFTS-MW11-EM06	N	EM06	14,000	37,000	12	1,800	1.7	0.95
SWFTS-MW11	12/14/2017	SWFTS-MW11-EM07	N	EM07	12,000	40,000	11	1,800	2.0	1.78
SWFTS-MW11	2/21/2018	SWFTS-MW11-EM08	N	EM08	12,000	45,000	14	1,900	1.7	7.35
SWFTS-MW11	2/21/2018	SWFTS-MW11-EM08-FD	FD	EM08	12,000	46,000	13	2,000	1.9	--
SWFTS-MW11	3/28/2018	SWFTS-MW11-EM09	N	EM09	13,000	49,000	14	1,900	1.5	4.05
SWFTS-MW11	3/28/2018	SWFTS-MW11-EM09-FD	FD	EM09	13,000	49,000	14	2,100	1.5	--
SWFTS-MW11	5/1/2018	SWFTS-MW11-EM10	N	EM10	13,000	52,000	14	1,900	1.5	5.35
SWFTS-MW11	5/1/2018	SWFTS-MW11-EM10-FD	FD	EM10	12,000	48,000	14	1,900	1.4	--
SWFTS-MW11	7/12/2018	SWFTS-MW11-EM11	N	EM11	11,000	52,000	16	1,900	1.2	5.48
SWFTS-MW11	7/12/2018	SWFTS-MW11-EM11-FD	FD	EM11	11,000	52,000	16	1,900	1.2	--
SWFTS-MW11	8/16/2018	SWFTS-MW11-EM13	N	EM13	9,400	53,000	16	1,900	1.7	2.83
SWFTS-MW11	8/16/2018	SWFTS-MW11-EM13-FD	FD	EM13	9,600	52,000	16	1,900	1.8	--
SWFTS-MW11	9/12/2018	SWFTS-MW11-EM14	N	EM14	11,000	52,000	16	1,800	1.5	4.18
SWFTS-MW11	9/12/2018	SWFTS-MW11-EM14-FD	FD	EM14	11,000	52,000	16	1,800	1.4	--
SWFTS-MW11	10/11/2018	SWFTS-MW11-EM15	N	EM15	10,000	54,000	17	1,900	1.6	3.59
SWFTS-MW11	10/11/2018	SWFTS-MW11-EM15-FD	FD	EM15	11,000	52,000	17	1,900	1.7	--
SWFTS-MW11	1/2/2019	SWFTS-MW11-EM16	N	EM16	8,600	44,000	16	1,700	1.5	7.08
SWFTS-MW11	1/2/2019	SWFTS-MW11-EM16-FD	FD	EM16	8,400	45,000	16	1,700	1.5	--
SWFTS-MW11	3/1/2019	SWFTS-MW11-EM17	N	EM17	7,900 J+	42,000	17	1,700	1.5	5.23
SWFTS-MW11	3/1/2019	SWFTS-MW11-EM17-FD	FD	EM17	7,700 J+	41,000	17	1,700	1.6	--
SWFTS-MW11	4/12/2019	SWFTS-MW11-EM18	N	EM18	7,700	41,000	15	1,600	1.9	5.50
SWFTS-MW11	4/12/2019	SWFTS-MW11-EM18-FD	FD	EM18	7,800	42,000	17	1,600	1.4	--
SWFTS-MW11	5/22/2019	SWFTS-MW11-EM19	N	EM19	8,000	44,000	14	1,500	1.7	5.09
SWFTS-MW11	5/22/2019	SWFTS-MW11-EM19-FD	FD	EM19	7,800	44,000	16	1,600	1.8	--
SWFTS-MW11	7/3/2019	SWFTS-MW11-EM20	N	EM20	7,100	43,000	16	1,500	1.9	5.03
SWFTS-MW11	7/3/2019	SWFTS-MW11-EM20-FD	FD	EM20	7,500	43,000	17	1,500	1.9	--
SWFTS-MW11	8/15/2019	SWFTS-MW11-EM21	N	EM21	9,200	43,000	16	1,400	1.8	4.95
SWFTS-MW11	8/15/2019	SWFTS-MW11-EM21-FD	FD	EM21	8,900	43,000	16	1,400	1.8	--
SWFTS-MW11	11/7/2019	SWFTS-MW11-EM22	N	EM22	7,600	42,000	14	1,300	1.5	5.79
SWFTS-MW11	11/7/2019	SWFTS-MW11-EM22-FD	FD	EM22	7,400	43,000	14	1,300	1.5	--
SWFTS-MW11	12/17/2019	SWFTS-MW11-EM23	N	EM23	8,200	21,000	14	1,600	1.6	5.91
SWFTS-MW11	12/17/2019	SWFTS-MW11-EM23-FD	FD	EM23	8,300	20,000	14	1,600	1.4	--
SWFTS-MW11	1/28/2020	SWFTS-MW11-EM24	N	EM24	10,000	47,000	15	1,500 J+	1.6	6.54
SWFTS-MW11	1/28/2020	SWFTS-MW11-EM24-FD	FD	EM24	10,000	47,000	15	1,700 J+	1.5	--
SWFTS-MW11	3/13/2020	SWFTS-MW11-EM25	N	EM25	12,000	51,000	15	1,700	2.0	6.44
SWFTS-MW11	3/13/2020	SWFTS-MW11-EM25-FD	FD	EM25	12,000	51,000	14	1,800	2.2	--
SWFTS-MW11	4/30/2020	SWFTS-MW11-EM26	N	EM26	11,000	52,000	14	1,800	1.6	5.03
SWFTS-MW11	4/30/2020	SWFTS-MW11-EM26-FD	FD	EM26	12,000	51,000	15	1,800	1.5	--
SWFTS-MW11	7/7/2020	SWFTS-MW11-EM27	N	EM27	11,000	41,000	13	2,000	1.7	4.6
SWFTS-MW11	7/7/2020	SWFTS-MW11-EM27-FD	FD	EM27	11,000	41,000	13	2,000	1.9	--
SWFTS-MW11	8/18/2020	SWFTS-MW11-EM28	N	EM28	10,000	42,000	13	1,900	2.0	4.38
SWFTS-MW11	8/18/2020	SWFTS-MW11-EM28-FD	FD	EM28	11,000	41,000	12	1,900	2.0	--
SWFTS-MW11	10/16/2020	SWFTS-MW11-EM29	N	EM29	9,500	34,000	11 J+	1,700	1.7	5.04

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW11	10/16/2020	SWFTS-MW11-EM29-FD	FD	EM29	9,500	35,000	11 J+	1,700	2.2	--
SWFTS-MW11	12/8/2020	SWFTS-MW11-EM30	N	EM30	8,100	32,000	13	1,800	1.3	5.1
SWFTS-MW11	12/8/2020	SWFTS-MW11-EM30-FD	FD	EM30	8,200	32,000	13	1,800	1.4	--
SWFTS-MW11	2/1/2021	SWFTS-MW11-EM31	N	EM31	8,700	29,000	13	1,700	1.2	5.84
SWFTS-MW11	2/1/2021	SWFTS-MW11-EM31-FD	FD	EM31	8,600	27,000 J+	13	1,700	1.4	--
SWFTS-MW12	7/13/2017	SWFTS-MW12-BL02	N	BL02	5,100	37,000	16	2,600	0.88 J	7.81
SWFTS-MW12	9/19/2017	SWFTS-MW12-EM01	N	EM01	5,100	36,000	14	2,700	1.1	4.36
SWFTS-MW12	9/26/2017	SWFTS-MW12-EM02	N	EM02	4,900	34,000	14	2,600	1.6	2.98
SWFTS-MW12	10/3/2017	SWFTS-MW12-EM03	N	EM03	5,400	34,000	14 J-	2,500	0.78 J	2.77
SWFTS-MW12	10/11/2017	SWFTS-MW12-EM04	N	EM04	4,800	35,000	13	2,600	0.93 J	1.59
SWFTS-MW12	10/24/2017	SWFTS-MW12-EM05	N	EM05	5,000	37,000	14	2,600	1.2	5.09
SWFTS-MW12	11/14/2017	SWFTS-MW12-EM06	N	EM06	4,700	33,000	14	2,700	0.99 J	2.52
SWFTS-MW12	12/14/2017	SWFTS-MW12-EM07	N	EM07	4,900	30,000	13	2,800	1.5	4.37
SWFTS-MW12	2/22/2018	SWFTS-MW12-EM08	N	EM08	4,500	26,000	12	2,300	1.6	5.95
SWFTS-MW12	3/28/2018	SWFTS-MW12-EM09	N	EM09	6,400	39,000	14	2,300	1.3	4.30
SWFTS-MW12	5/3/2018	SWFTS-MW12-EM10	N	EM10	4,200	28,000	13	2,700	0.89 J	2.24
SWFTS-MW12	7/12/2018	SWFTS-MW12-EM11	N	EM11	4,600	35,000	13	2,500	0.69 J	5.35
SWFTS-MW12	8/16/2018	SWFTS-MW12-EM13	N	EM13	4,000	34,000	14	2,800	1.2	2.75
SWFTS-MW12	9/12/2018	SWFTS-MW12-EM14	N	EM14	4,800	36,000	14	2,400	1.1	3.46
SWFTS-MW12	10/11/2018	SWFTS-MW12-EM15	N	EM15	4,200	28,000	14	2,400	1.3	5.11
SWFTS-MW12	1/2/2019	SWFTS-MW12-EM16	N	EM16	5,800	55,000	17	2,500	1.2	4.35
SWFTS-MW12	2/28/2019	SWFTS-MW12-EM17	N	EM17	3,700	29,000	14	2,700	1.1	3.64
SWFTS-MW12	4/12/2019	SWFTS-MW12-EM18	N	EM18	4,500	31,000	14	2,500	1.2	3.50
SWFTS-MW12	5/22/2019	SWFTS-MW12-EM19	N	EM19	4,400	32,000	12	2,700	0.87 J	3.81
SWFTS-MW12	7/5/2019	SWFTS-MW12-EM20	N	EM20	4,300	33,000	13 J+	2,600	1.2	3.56
SWFTS-MW12	8/16/2019	SWFTS-MW12-EM21	N	EM21	4,200	31,000	13	2,800	1.2	3.35
SWFTS-MW12	11/7/2019	SWFTS-MW12-EM22	N	EM22	<4.8	88 J	<0.55	1,300	560	0.29
SWFTS-MW12	11/26/2019	SWFTS-MW12-EM22-R	N	EM22	<4.8	<20	<0.55	78	610 J-	--
SWFTS-MW12	11/26/2019	SWFTS-MW12-EM22-R-FD	FD	EM22	<4.8	<20	<0.55	84	610 J-	--
SWFTS-MW12	12/20/2019	SWFTS-MW12-EM23	N	EM23	<4.8	<10	<0.55	2.6 J	230	0.84
SWFTS-MW12	1/29/2020	SWFTS-MW12-EM24	N	EM24	22	60 J	<0.55	130 J+	14 J-	0.46
SWFTS-MW12	3/12/2020	SWFTS-MW12-EM25	N	EM25	170	<10	0.55 R	1,100	9.3	2.19
SWFTS-MW12	4/30/2020	SWFTS-MW12-EM26	N	EM26	<4.8	<10	<0.55	780	8.2	1.83
SWFTS-MW12	7/7/2020	SWFTS-MW12-EM27	N	EM27	<0.95	<10	<0.55	990	13	0.4
SWFTS-MW12	8/18/2020	SWFTS-MW12-EM28	N	EM28	<0.95	<10	<0.55	1,100	9.3	0.43
SWFTS-MW12	10/16/2020	SWFTS-MW12-EM29	N	EM29	<0.95	<10	<0.55	1,500	4.8	0.31
SWFTS-MW12	12/8/2020	SWFTS-MW12-EM30	N	EM30	0.48 J	<20	<0.014	1,900	8.2	0.25
SWFTS-MW12	2/2/2021	SWFTS-MW12-EM31	N	EM31	<0.31	<9.8	<0.014	2,000	2.6 J+	0.51
SWFTS-MW13	7/12/2017	SWFTS-MW13-BL02	N	BL02	4,600	40,000	12	2,100	1.6	4.72
SWFTS-MW13	9/20/2017	SWFTS-MW13-EM01	N	EM01	10,000	52,000	17	2,500	1.1	5.20
SWFTS-MW13	9/26/2017	SWFTS-MW13-EM02	N	EM02	6,200	53,000	18	2,500	1.4	3.17
SWFTS-MW13	10/3/2017	SWFTS-MW13-EM03	N	EM03	6,900	100	17 J-	2,600	1.1	5.57
SWFTS-MW13	10/10/2017	SWFTS-MW13-EM04	N	EM04	6,300	51,000	16	2,900	0.98 J	2.40

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW13	10/24/2017	SWFTS-MW13-EM05	N	EM05	6,100	52,000	19	2,800	1.3	6.62
SWFTS-MW13	11/15/2017	SWFTS-MW13-EM06	N	EM06	5,900	49,000	16	2,800	0.93 J	3.22
SWFTS-MW13	12/14/2017	SWFTS-MW13-EM07	N	EM07	6,200	49,000	16	2,800	1.2	3.79
SWFTS-MW13	2/22/2018	SWFTS-MW13-EM08	N	EM08	5,800	50,000	15	2,600	1.5	4.95
SWFTS-MW13	3/26/2018	SWFTS-MW13-EM09	N	EM09	6,400	52,000	16 J+	2,700	1.2	2.98
SWFTS-MW13	5/3/2018	SWFTS-MW13-EM10	N	EM10	6,000	49,000	18	2,700	1.1	8.17 E
SWFTS-MW13	7/12/2018	SWFTS-MW13-EM11	N	EM11	6,300	49,000	16	2,700	0.80 J	6.45
SWFTS-MW13	8/16/2018	SWFTS-MW13-EM13	N	EM13	5,200	54,000	17	2,600	1.3	2.95
SWFTS-MW13	9/13/2018	SWFTS-MW13-EM14	N	EM14	5,000	48,000	16	2,700	1.2	3.44
SWFTS-MW13	10/11/2018	SWFTS-MW13-EM15	N	EM15	5,800	55,000	17	2,600	1.2	3.49
SWFTS-MW13	1/2/2019	SWFTS-MW13-EM16	N	EM16	3,900	28,000	13	2,400	1.1	6.89
SWFTS-MW13	2/28/2019	SWFTS-MW13-EM17	N	EM17	5,500	53,000	18	2,900	1.1	4.02
SWFTS-MW13	4/12/2019	SWFTS-MW13-EM18	N	EM18	5,300	45,000	18	2,500	1.2	5.30
SWFTS-MW13	5/22/2019	SWFTS-MW13-EM19	N	EM19	5,300	45,000	17	2,600	0.94 J	5.32
SWFTS-MW13	7/5/2019	SWFTS-MW13-EM20	N	EM20	5,600	48,000	17	2,700	1.3	5.15
SWFTS-MW13	8/16/2019	SWFTS-MW13-EM21	N	EM21	5,200	51,000	18	2,600	1.3	4.55
SWFTS-MW13	11/6/2019	SWFTS-MW13-EM22	N	EM22	6,200	50,000	16	2,700	1.2	3.81
SWFTS-MW13	12/20/2019	SWFTS-MW13-EM23	N	EM23	5,300	43,000	14	2,400	0.84 J	4.20
SWFTS-MW13	1/29/2020	SWFTS-MW13-EM24	N	EM24	5,400	48,000	16	2,700 J+	1.1	3.83
SWFTS-MW13	3/12/2020	SWFTS-MW13-EM25	N	EM25	5,100	46,000	15 J-	2,700	0.89 J	5.14
SWFTS-MW13	4/30/2020	SWFTS-MW13-EM26	N	EM26	4,900	48,000	18	2,700	0.79 J	4.78
SWFTS-MW13	7/10/2020	SWFTS-MW13-EM27	N	EM27	5,700	51,000	17	2,900	1.1	4.2
SWFTS-MW13	8/18/2020	SWFTS-MW13-EM28	N	EM28	5,600	49,000	16	2,700	1.2	4.25
SWFTS-MW13	10/15/2020	SWFTS-MW13-EM29	N	EM29	5,300	57,000	18	2,700	0.82 J	4.43
SWFTS-MW13	12/8/2020	SWFTS-MW13-EM30	N	EM30	7,200	54,000	18	2,800	1.1	5.42
SWFTS-MW13	2/2/2021	SWFTS-MW13-EM31	N	EM31	6,900	28,000 J+	17	2,600	0.95 J+	5.53
SWFTS-MW14	7/12/2017	SWFTS-MW14-BL02	N	BL02	23,000	54,000	12	2,000	2.6	0.65
SWFTS-MW14	7/12/2017	SWFTS-MW14-BL02-FD	FD	BL02	22,000	52,000	12	2,000	2.3	--
SWFTS-MW14	9/20/2017	SWFTS-MW14-EM01	N	EM01	<9.5	<100	<0.55	1,900	100	0.39
SWFTS-MW14	9/26/2017	SWFTS-MW14-EM02	N	EM02	<4.8	2,400	<1.1	1,800	81	0.17
SWFTS-MW14	10/3/2017	SWFTS-MW14-EM03	N	EM03	4.8	<100	<0.55 UJ	1,500	36	0.19
SWFTS-MW14	10/11/2017	SWFTS-MW14-EM04	N	EM04	<9.5	<50	<0.55	1,200	4.1	0.39
SWFTS-MW14	10/27/2017	SWFTS-MW14-EM05	N	EM05	26	<50	<0.28	1,100	3.5	0.60
SWFTS-MW14	11/15/2017	SWFTS-MW14-EM06	N	EM06	20 J+	<50	<0.55	1,100	3.1	0.83
SWFTS-MW14	12/12/2017	SWFTS-MW14-EM07	N	EM07	1,600	2,400	<0.55	1,200	2.6	6.49
SWFTS-MW14	2/20/2018	SWFTS-MW14-EM08	N	EM08	2,200	<100	<1.1	780	670	3.12
SWFTS-MW14	3/26/2018	SWFTS-MW14-EM09	N	EM09	5,500	<50	<0.28	410	220	4.03
SWFTS-MW14	4/30/2018	SWFTS-MW14-EM10	N	EM10	4,300	26 J	<0.55	160	91	0.45
SWFTS-MW14	7/10/2018	SWFTS-MW14-EM11	N	EM11	6.5	<25	<0.55	110	180	0.90
SWFTS-MW14	7/26/2018	SWFTS-MW14-EM12	N	EM12	<95	<10	--	--	--	2.26
SWFTS-MW14	8/14/2018	SWFTS-MW14-EM13	N	EM13	8.2 J	<10	<0.55	320	130	0.47
SWFTS-MW14	9/11/2018	SWFTS-MW14-EM14	N	EM14	6.4 J	<10	<0.55	440	91	0.25
SWFTS-MW14	10/9/2018	SWFTS-MW14-EM15	N	EM15	<0.95	<20	<1.1	610	80	0.81

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW14	12/20/2018	SWFTS-MW14-EM16	N	EM16	<0.95	<10	<0.28	720 J+	16	0.46
SWFTS-MW14	2/26/2019	SWFTS-MW14-EM17	N	EM17	<0.95	<10	<0.55	790	6.2	0.67
SWFTS-MW14	4/9/2019	SWFTS-MW14-EM18	N	EM18	38	150	<0.55 UJ	600	5.3	0.65
SWFTS-MW14	5/21/2019	SWFTS-MW14-EM19	N	EM19	<0.95	<20	<0.55	830	6.3	0.35
SWFTS-MW14	7/2/2019	SWFTS-MW14-EM20	N	EM20	2.8 J	<4.0	<0.11	860	6.5	0.35
SWFTS-MW14	8/13/2019	SWFTS-MW14-EM21	N	EM21	<0.50	<10	<0.55	870	6.7	0.22
SWFTS-MW14	11/6/2019	SWFTS-MW14-EM22	N	EM22	<0.95	28 J	<0.55	990	5.6	0.21
SWFTS-MW14	12/17/2019	SWFTS-MW14-EM23	N	EM23	<4.8	<10	<0.55	1,200	4.0	0.47
SWFTS-MW14	1/29/2020	SWFTS-MW14-EM24	N	EM24	<0.95	<10	<0.55	1,200 J+	3.9	0.55
SWFTS-MW14	3/13/2020	SWFTS-MW14-EM25	N	EM25	<0.95	<20	<0.28	1,300	4.2 J+	1.25
SWFTS-MW14	5/1/2020	SWFTS-MW14-EM26	N	EM26	97	<20	<0.55	1,400	3.8	1.94
SWFTS-MW14	7/7/2020	SWFTS-MW14-EM27	N	EM27	<0.95	<10	<0.55	1,500	4.0	0.3
SWFTS-MW14	8/19/2020	SWFTS-MW14-EM28	N	EM28	210	<10	<0.55	1,600	4.7	0.58
SWFTS-MW14	10/14/2020	SWFTS-MW14-EM29	N	EM29	460	21 J	<0.55	1,600	4.0	0.23
SWFTS-MW14	12/8/2020	SWFTS-MW14-EM30	N	EM30	2,900	<20	0.89 J+	1,600	2.2	0.39
SWFTS-MW14	2/2/2021	SWFTS-MW14-EM31	N	EM31	3,300	<49	1.4	1,500	2.2 J+	0.62
SWFTS-MW15	7/13/2017	SWFTS-MW15-BL02	N	BL02	15,000	43,000	10	1,700	1.6	0.47
SWFTS-MW15	9/20/2017	SWFTS-MW15-EM01	N	EM01	11,000	40,000	10	1,600	1.6	0.27
SWFTS-MW15	9/26/2017	SWFTS-MW15-EM02	N	EM02	12,000	41,000	11	1,600	1.5	0.30
SWFTS-MW15	10/4/2017	SWFTS-MW15-EM03	N	EM03	11,000	39,000	12	1,500	1.4	0.38
SWFTS-MW15	10/10/2017	SWFTS-MW15-EM04	N	EM04	18,000	40,000	11	1,500	1.6	0.21
SWFTS-MW15	10/27/2017	SWFTS-MW15-EM05	N	EM05	13,000	38,000	13	1,600	1.8	0.78
SWFTS-MW15	11/14/2017	SWFTS-MW15-EM06	N	EM06	9,900	38,000	12	1,600	1.8	1.08
SWFTS-MW15	12/13/2017	SWFTS-MW15-EM07	N	EM07	13,000	38,000	12	1,700	1.6	3.83
SWFTS-MW15	2/19/2018	SWFTS-MW15-EM08	N	EM08	12,000	47,000	11	1,600	1.6	3.24
SWFTS-MW15	3/26/2018	SWFTS-MW15-EM09	N	EM09	12,000	52,000	12	1,600	1.7	5.95
SWFTS-MW15	5/2/2018	SWFTS-MW15-EM10	N	EM10	13,000	59,000	14	1,500	1.4	1.09
SWFTS-MW15	7/11/2018	SWFTS-MW15-EM11	N	EM11	9,300	45,000	12 J-	1,500	3.5	6.10
SWFTS-MW15	7/26/2018	SWFTS-MW15-EM12	N	EM12	6,800	39,000	--	--	--	2.73
SWFTS-MW15	8/15/2018	SWFTS-MW15-EM13	N	EM13	9,000	52,000	16	1,400	1.9	0.97
SWFTS-MW15	9/11/2018	SWFTS-MW15-EM14	N	EM14	7,800	48,000	16	1,500	1.4	0.73
SWFTS-MW15	10/9/2018	SWFTS-MW15-EM15	N	EM15	6,400	28,000	7.5	1,500	3.3	1.09
SWFTS-MW15	12/20/2018	SWFTS-MW15-EM16	N	EM16	5,300	33,000	9.4	1,400	1.8	0.91
SWFTS-MW15	2/25/2019	SWFTS-MW15-EM17	N	EM17	6,200	31,000	9.2	1,200	3.0	0.00
SWFTS-MW15	4/9/2019	SWFTS-MW15-EM18	N	EM18	9,700	53,000	14 J-	1,400	1.4	1.14
SWFTS-MW15	5/20/2019	SWFTS-MW15-EM19	N	EM19	9,200	48,000	15	1,300	1.6	0.65
SWFTS-MW15	7/2/2019	SWFTS-MW15-EM20	N	EM20	8,800	49,000	13	1,300	2.0	0.59
SWFTS-MW15	8/13/2019	SWFTS-MW15-EM21	N	EM21	6,400	50,000	14	1,200	1.7	0.56
SWFTS-MW15	11/6/2019	SWFTS-MW15-EM22	N	EM22	9,900	46,000	13	1,200	1.4	1.99
SWFTS-MW15	12/17/2019	SWFTS-MW15-EM23	N	EM23	9,700	46,000	13	1,200	1.3	0.80
SWFTS-MW15	1/29/2020	SWFTS-MW15-EM24	N	EM24	12,000	49,000	15	1,500 J+	1.6	0.70
SWFTS-MW15	3/13/2020	SWFTS-MW15-EM25	N	EM25	14,000	44,000	13	1,400	1.8 J+	1.7
SWFTS-MW15	4/29/2020	SWFTS-MW15-EM26	N	EM26	13,000	46,000	13	1,400	1.5	5.51

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW15	7/7/2020	SWFTS-MW15-EM27	N	EM27	9,700	24,000	4.6	1,400	34	0.3
SWFTS-MW15	8/19/2020	SWFTS-MW15-EM28	N	EM28	4,400	14,000	3.8	1,300	11	0.33
SWFTS-MW15	10/15/2020	SWFTS-MW15-EM29	N	EM29	4,800	16,000	5.7	1,300	3.5	0.33
SWFTS-MW15	12/8/2020	SWFTS-MW15-EM30	N	EM30	6,200	22,000	7.0	1,300	2.0	0.95
SWFTS-MW15	2/2/2021	SWFTS-MW15-EM31	N	EM31	7,700	31,000	7.7	1,300	1.5 J+	0.54
SWFTS-MW16	7/13/2017	SWFTS-MW16-BL02	N	BL02	8,400	38,000	12	2,100	1.6	0.93
SWFTS-MW16	9/22/2017	SWFTS-MW16-EM01	N	EM01	1,700	8,700	3.3	1,900	120	0.71
SWFTS-MW16	9/26/2017	SWFTS-MW16-EM02	N	EM02	1,300	8,800	3.8	2,000	68	1.54
SWFTS-MW16	10/3/2017	SWFTS-MW16-EM03	N	EM03	1,600	6,300	2.7	1,800	92	1.30
SWFTS-MW16	10/12/2017	SWFTS-MW16-EM04	N	EM04	1,100	5,800	2.1	1,500	180	1.32
SWFTS-MW16	10/24/2017	SWFTS-MW16-EM05	N	EM05	830	4,700	1.5	520	180	1.03
SWFTS-MW16	11/16/2017	SWFTS-MW16-EM06	N	EM06	<0.95	4,000	1.2	480	110	0.49
SWFTS-MW16	12/12/2017	SWFTS-MW16-EM07	N	EM07	490	3,100	1.1	550	5.9	0.56
SWFTS-MW16	2/21/2018	SWFTS-MW16-EM08	N	EM08	620	2,800	<1.1	1,000	7.7	0.49
SWFTS-MW16	3/27/2018	SWFTS-MW16-EM09	N	EM09	9,000	46,000	12	1,700	1.5	0.49
SWFTS-MW16	5/2/2018	SWFTS-MW16-EM10	N	EM10	1,500 J	11,000	3.5	1,600	2.3	0.15
SWFTS-MW16	7/11/2018	SWFTS-MW16-EM11	N	EM11	<4.8	<5.0	<0.55	690	7.9	5.38
SWFTS-MW16	7/26/2018	SWFTS-MW16-EM12	N	EM12	<0.95	<4.0	--	--	--	1.99
SWFTS-MW16	8/15/2018	SWFTS-MW16-EM13	N	EM13	12	67	<0.28	1,100	3.2	0.98
SWFTS-MW16	9/10/2018	SWFTS-MW16-EM14	N	EM14	200	1,400	0.42 J	1,300	2.9	0.78
SWFTS-MW16	10/11/2018	SWFTS-MW16-EM15	N	EM15	340	2,200	0.76 J	1,800	2.8	3.73
SWFTS-MW16	12/19/2018	SWFTS-MW16-EM16	N	EM16	270	2,300	1.0 J	1,600	2.5	0.4
SWFTS-MW16	2/26/2019	SWFTS-MW16-EM17	N	EM17	<0.95	<10	<0.55	970	5.6	0.00
SWFTS-MW16	4/9/2019	SWFTS-MW16-EM18	N	EM18	<0.95	<10	<0.55 UJ	970	2.9	0.47
SWFTS-MW16	5/20/2019	SWFTS-MW16-EM19	N	EM19	<0.95 UJ	<10	<0.55	1,100	3.5	0.53
SWFTS-MW16	7/1/2019	SWFTS-MW16-EM20	N	EM20	<0.95	<10	<0.55	1,100	4.0	0.20
SWFTS-MW16	8/13/2019	SWFTS-MW16-EM21	N	EM21	19	100	<0.55	1,300	3.6	0.35
SWFTS-MW16	11/6/2019	SWFTS-MW16-EM22	N	EM22	<0.95	<40	<0.55	820	3.2	0.21
SWFTS-MW16	12/17/2019	SWFTS-MW16-EM23	N	EM23	<4.8	<10	<0.55	990	2.3	2.00
SWFTS-MW16	1/29/2020	SWFTS-MW16-EM24	N	EM24	<0.95	<100	<0.55	1,200 J+	2.7	0.53
SWFTS-MW16	3/13/2020	SWFTS-MW16-EM25	N	EM25	<0.95	<10	<0.55	1,300	3.6	2.24
SWFTS-MW16	4/30/2020	SWFTS-MW16-EM26	N	EM26	<4.8	<10	<0.55	1,300	5.7	2.25
SWFTS-MW16	7/9/2020	SWFTS-MW16-EM27	N	EM27	<0.95	16 J	<0.55	950	4.9	1.2
SWFTS-MW16	8/19/2020	SWFTS-MW16-EM28	N	EM28	<4.8	<10	<0.55	1,100	4.9	0.46
SWFTS-MW16	10/15/2020	SWFTS-MW16-EM29	N	EM29	<0.95	16 J	<0.014	1,100	3.6	0.38
SWFTS-MW16	12/8/2020	SWFTS-MW16-EM30	N	EM30	<0.31	<20	<0.014	1,100	2.7	0.27
SWFTS-MW16	2/2/2021	SWFTS-MW16-EM31	N	EM31	<0.31	<49	<0.014	1,200	2.8 J+	0.63
SWFTS-MW17	7/12/2017	SWFTS-MW17-BL02	N	BL02	3,200	--	16	2,200	1.1	4.30
SWFTS-MW17	9/19/2017	SWFTS-MW17-EM01	N	EM01	2,600	18,000	16	2,200	1.2	5.07
SWFTS-MW17	9/19/2017	SWFTS-MW17-EM01-FD	FD	EM01	2,600	18,000	16	2,300	1.3	--
SWFTS-MW17	9/26/2017	SWFTS-MW17-EM02	N	EM02	2,800	17,000	17	2,300	1.5	4.04
SWFTS-MW17	9/26/2017	SWFTS-MW17-EM02-FD	FD	EM02	2,800	17,000	17	2,300	1.5	--
SWFTS-MW17	10/3/2017	SWFTS-MW17-EM03	N	EM03	3,300	19,000	15	2,300	1.1	6.87

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Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW17	10/3/2017	SWFTS-MW17-EM03-FD	FD	EM03	3,300	19,000	16	2,300	1.0	--
SWFTS-MW17	10/10/2017	SWFTS-MW17-EM04	N	EM04	2,800	16,000	16	2,500	1.3	3.90
SWFTS-MW17	10/24/2017	SWFTS-MW17-EM05	N	EM05	2,700	15,000	17	2,200	1.2	5.28
SWFTS-MW17	10/24/2017	SWFTS-MW17-EM05-FD	FD	EM05	2,700	15,000	16	2,200	2.2	--
SWFTS-MW17	11/15/2017	SWFTS-MW17-EM06	N	EM06	2,300	16,000	17	2,200	1.3	4.91
SWFTS-MW17	11/15/2017	SWFTS-MW17-EM06-FD	FD	EM06	2,200	15,000	17	2,100	1.2	--
SWFTS-MW17	12/13/2017	SWFTS-MW17-EM07	N	EM07	2,200	14,000	16	2,100	1.2	5.54
SWFTS-MW17	12/13/2017	SWFTS-MW17-EM07-FD	FD	EM07	2,300	13,000	16	2,100	1.2	--
SWFTS-MW17	2/22/2018	SWFTS-MW17-EM08	N	EM08	2,000	15,000	16	2,100	2.1	3.65
SWFTS-MW17	3/28/2018	SWFTS-MW17-EM09	N	EM09	2,000	14,000	15	1,900	1.2	3.49
SWFTS-MW17	5/3/2018	SWFTS-MW17-EM10	N	EM10	1,900 J-	11,000	15	2,000	1.1	4.08
SWFTS-MW17	7/11/2018	SWFTS-MW17-EM11	N	EM11	1,300	11,000	15	1,900	1.1	4.35
SWFTS-MW17	8/16/2018	SWFTS-MW17-EM13	N	EM13	1,600	12,000	16	2,000	1.4	4.56
SWFTS-MW17	9/12/2018	SWFTS-MW17-EM14	N	EM14	1,900	13,000	15	1,900	1.0	3.49
SWFTS-MW17	10/11/2018	SWFTS-MW17-EM15	N	EM15	2,100	15,000	16	2,100	1.6	3.33
SWFTS-MW17	1/2/2019	SWFTS-MW17-EM16	N	EM16	1,700	11,000	15	1,900	1.2	6.18
SWFTS-MW17	2/28/2019	SWFTS-MW17-EM17	N	EM17	1,700	13,000	15	2,000	1.3	4.83
SWFTS-MW17	4/11/2019	SWFTS-MW17-EM18	N	EM18	1,700	12,000	14	2,000	1.3	4.74
SWFTS-MW17	5/22/2019	SWFTS-MW17-EM19	N	EM19	1,900	13,000	14	1,900	1.1	4.85
SWFTS-MW17	7/5/2019	SWFTS-MW17-EM20	N	EM20	1,800	13,000	16	2,000	1.3	4.91
SWFTS-MW17	8/16/2019	SWFTS-MW17-EM21	N	EM21	2,200	13,000	16	2,100	1.4	5.02
SWFTS-MW17	11/7/2019	SWFTS-MW17-EM22	N	EM22	2,100	15,000	12	1,600	1.3	5.25
SWFTS-MW17	12/20/2019	SWFTS-MW17-EM23	N	EM23	2,100	16,000	14	2,000	1.2	5.71
SWFTS-MW17	1/30/2020	SWFTS-MW17-EM24	N	EM24	2,200	18,000	14	2,100	1.1	4.77
SWFTS-MW17	3/13/2020	SWFTS-MW17-EM25	N	EM25	2,100	17,000	14	2,100	1.6	6.02
SWFTS-MW17	4/30/2020	SWFTS-MW17-EM26	N	EM26	2,000	17,000	13	2,000	1.0	5.11
SWFTS-MW17	7/9/2020	SWFTS-MW17-EM27	N	EM27	2,000	16,000	14	2,300	0.93 J	3.9
SWFTS-MW17	8/19/2020	SWFTS-MW17-EM28	N	EM28	1,900	15,000	15	2,200	1.7	4.39
SWFTS-MW17	10/15/2020	SWFTS-MW17-EM29	N	EM29	2,200	16,000	15	2,000	1.1	4.75
SWFTS-MW17	12/9/2020	SWFTS-MW17-EM30	N	EM30	2,100	15,000	15	2,000	1.3	4.66
SWFTS-MW17	2/2/2021	SWFTS-MW17-EM31	N	EM31	2,300	8,000 J+	15	2,000	1.1 J+	4.84
SWFTS-MW18	7/11/2017	SWFTS-MW18-BL02	N	BL02	13,000	52,000	12	1,600	1.5	2.68
SWFTS-MW18	9/21/2017	SWFTS-MW18-EM01	N	EM01	9,700	34,000	8.9	1,700	2.0	0.59
SWFTS-MW18	9/27/2017	SWFTS-MW18-EM02	N	EM02	11,000	36,000	12	1,700	2.2	0.40
SWFTS-MW18	10/3/2017	SWFTS-MW18-EM03	N	EM03	8,100	30,000	8.6	1,700	1.5	2.22
SWFTS-MW18	10/10/2017	SWFTS-MW18-EM04	N	EM04	9,700	40,000	12	1,800	1.7	0.31
SWFTS-MW18	10/23/2017	SWFTS-MW18-EM05	N	EM05	8,200	38,000	12	1,700	1.7	0.98
SWFTS-MW18	11/15/2017	SWFTS-MW18-EM06	N	EM06	11,000	37,000	11	1,800	1.8	1.37
SWFTS-MW18	12/13/2017	SWFTS-MW18-EM07	N	EM07	9,100	39,000	12	1,600	1.6	0.40
SWFTS-MW18	2/22/2018	SWFTS-MW18-EM08	N	EM08	8,900	45,000	12	1,600	2.3	0.51
SWFTS-MW18	3/27/2018	SWFTS-MW18-EM09	N	EM09	2,000	11,000	3.9	1,400	2.5	0.25
SWFTS-MW18	3/27/2018	SWFTS-MW18-EM09-FD	FD	EM09	2,100	11,000	3.5	1,500	2.4	--
SWFTS-MW18	5/1/2018	SWFTS-MW18-EM10	N	EM10	9,200	50,000	13	1,600	1.5	0.43

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW18	7/11/2018	SWFTS-MW18-EM11	N	EM11	6,900	41,000	11	1,700	1.6	0.01
SWFTS-MW18	7/26/2018	SWFTS-MW18-EM12	N	EM12	6,100	43,000	--	--	--	2.81
SWFTS-MW18	8/15/2018	SWFTS-MW18-EM13	N	EM13	5,900	41,000	13	1,700	2.0	0.58
SWFTS-MW18	9/11/2018	SWFTS-MW18-EM14	N	EM14	5,600	41,000	13	1,700	1.6	0.79
SWFTS-MW18	10/11/2018	SWFTS-MW18-EM15	N	EM15	5,300	41,000	13	1,400	2.1	1.88
SWFTS-MW18	12/20/2018	SWFTS-MW18-EM16	N	EM16	5,000	38,000	15	1,500	1.8	0.67
SWFTS-MW18	2/26/2019	SWFTS-MW18-EM17	N	EM17	4,600	28,000	11	1,600	1.9	0.00
SWFTS-MW18	4/9/2019	SWFTS-MW18-EM18	N	EM18	4,800	26,000	11 J-	1,700	1.6	0.48
SWFTS-MW18	5/21/2019	SWFTS-MW18-EM19	N	EM19	4,600	25,000	12	1,600	1.5	0.65
SWFTS-MW18	7/1/2019	SWFTS-MW18-EM20	N	EM20	4,300	29,000	12	1,600	1.9	0.41
SWFTS-MW18	8/13/2019	SWFTS-MW18-EM21	N	EM21	4,600	25,000	12	1,400	1.8	0.39
SWFTS-MW18	11/6/2019	SWFTS-MW18-EM22	N	EM22	2,600	6,600	2.8	1,400	2.0	0.30
SWFTS-MW18	12/17/2019	SWFTS-MW18-EM23	N	EM23	4,200	19,000	8.8	1,400	1.9	0.64
SWFTS-MW18	1/29/2020	SWFTS-MW18-EM24	N	EM24	5,800	23,000	10	1,500 J+	2.0	0.53
SWFTS-MW18	3/11/2020	SWFTS-MW18-EM25	N	EM25	7,100	30,000	9.4	1,300	1.7	2.18
SWFTS-MW18	4/29/2020	SWFTS-MW18-EM26	N	EM26	6,700	31,000	10	1,400	1.9	2.07
SWFTS-MW18	7/9/2020	SWFTS-MW18-EM27	N	EM27	4,400	12,000	6.0	1,600	1.8	0.7
SWFTS-MW18	8/19/2020	SWFTS-MW18-EM28	N	EM28	3,900	13,000	9.5	1,600	3.0	0.64
SWFTS-MW18	10/15/2020	SWFTS-MW18-EM29	N	EM29	3,600	12,000	10	1,500	2.2	0.4
SWFTS-MW18	12/9/2020	SWFTS-MW18-EM30	N	EM30	3,100	8,100	8.9	1,600	1.7	0.33
SWFTS-MW18	2/3/2021	SWFTS-MW18-EM31	N	EM31	4,100	12,000 J+	10	1,600	1.4	0.65
SWFTS-MW19	7/12/2017	SWFTS-MW19-BL02	N	BL02	840	130	0.33	660	2.6	0.77
SWFTS-MW19	9/21/2017	SWFTS-MW19-EM01	N	EM01	1,400	220	0.51	670	2.3	0.43
SWFTS-MW19	9/28/2017	SWFTS-MW19-EM02	N	EM02	1,400	260	0.74	680	2.8	6.39
SWFTS-MW19	10/5/2017	SWFTS-MW19-EM03	N	EM03	1,400	220	0.63	690	2.6	5.16
SWFTS-MW19	10/12/2017	SWFTS-MW19-EM04	N	EM04	1,400	220 J+	0.70	760	2.2	0.28
SWFTS-MW19	10/27/2017	SWFTS-MW19-EM05	N	EM05	1,900	250	0.77	720	2.6	0.38
SWFTS-MW19	11/16/2017	SWFTS-MW-19-EM06	N	EM06	1,500	270	0.97	740	2.3	0.73
SWFTS-MW19	12/12/2017	SWFTS-MW19-EM07	N	EM07	2,000	410	1.2	780	2.4	0.92
SWFTS-MW19	2/20/2018	SWFTS-MW19-EM08	N	EM08	1,900	610	0.73	890	2.6	1.25
SWFTS-MW19	3/27/2018	SWFTS-MW19-EM09	N	EM09	1,800	650	0.71	860	2.2	1.09
SWFTS-MW19	4/30/2018	SWFTS-MW19-EM10	N	EM10	1,800	820	0.70	960	2.2	0.56
SWFTS-MW19	4/30/2018	SWFTS-MW19-EM10-FD	FD	EM10	1,700	760	0.67	910	2.2	--
SWFTS-MW19	7/10/2018	SWFTS-MW19-EM11	N	EM11	2,000	1,100	0.52	840	1.9	2.80
SWFTS-MW19	7/10/2018	SWFTS-MW19-EM11-FD	FD	EM11	2,000	1,000	0.52	850	1.9	--
SWFTS-MW19	7/26/2018	SWFTS-MW19-EM12	N	EM12	1,800	890	--	--	--	1.11
SWFTS-MW19	7/26/2018	SWFTS-MW19-EM12-FD	FD	EM12	1,700	890	--	--	--	--
SWFTS-MW19	8/15/2018	SWFTS-MW19-EM13	N	EM13	1,700	900	0.44	820	2.4	0.95
SWFTS-MW19	9/11/2018	SWFTS-MW19-EM14	N	EM14	1,500	850	0.37	790	2.0	1.06
SWFTS-MW19	10/9/2018	SWFTS-MW19-EM15	N	EM15	2,000	870	0.41 J	800	2.4	1.43
SWFTS-MW19	10/9/2018	SWFTS-MW19-EM15-FD	FD	EM15	1,700	870	0.40 J	800	2.4	--
SWFTS-MW19	12/27/2018	SWFTS-MW19-EM16	N	EM16	1,400	760	0.36	860	2.4	1.43
SWFTS-MW19	12/27/2018	SWFTS-MW19-EM16-FD	FD	EM16	1,300	760	0.36	860	2.1	--

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW19	2/27/2019	SWFTS-MW19-EM17	N	EM17	1,300	590	0.35	900	2.1	0.14
SWFTS-MW19	2/27/2019	SWFTS-MW19-EM17-FD	FD	EM17	1,300	560	0.38 J	940	2.1	--
SWFTS-MW19	4/10/2019	SWFTS-MW19-EM18	N	EM18	1,500	530	0.33 J	840	2.2	1.27
SWFTS-MW19	4/10/2019	SWFTS-MW19-EM18-FD	FD	EM18	1,300	510	0.37 J	880	2.1	--
SWFTS-MW19	5/21/2019	SWFTS-MW19-EM19	N	EM19	1,200	420	0.18 J	790	3.3	1.22
SWFTS-MW19	5/21/2019	SWFTS-MW19-EM19-FD	FD	EM19	1,200	400	0.24	830	3.2	--
SWFTS-MW19	7/2/2019	SWFTS-MW19-EM20	N	EM20	1,100	340	0.11	740	2.9	1.54
SWFTS-MW19	7/2/2019	SWFTS-MW19-EM20-FD	FD	EM20	1,100	340	0.11	740	3.1	--
SWFTS-MW19	8/15/2019	SWFTS-MW19-EM21	N	EM21	1,200	260	<0.28	680	2.6	1.6
SWFTS-MW19	8/15/2019	SWFTS-MW19-EM21-FD	FD	EM21	1,200	260	<0.28	690	2.6	--
SWFTS-MW19	11/5/2019	SWFTS-MW19-EM22	N	EM22	1,300	270	0.36 J	780	2.3	1.28
SWFTS-MW19	11/5/2019	SWFTS-MW19-EM22-FD	FD	EM22	1,300	270	0.37 J	800	2.3	--
SWFTS-MW19	12/19/2019	SWFTS-MW19-EM23	N	EM23	1,200	420	0.31 J	810	2.0	2.03
SWFTS-MW19	12/19/2019	SWFTS-MW19-EM23-FD	FD	EM23	1,300	370	0.32 J	820	2.1	--
SWFTS-MW19	1/29/2020	SWFTS-MW19-EM24	N	EM24	1,400	550	0.61	990 J+	2.3	1.01
SWFTS-MW19	1/29/2020	SWFTS-MW19-EM24-FD	FD	EM24	1,300	570	0.62	990 J+	2.2	--
SWFTS-MW19	3/11/2020	SWFTS-MW19-EM25	N	EM25	1,300	780	0.70 J	1,200	2.3	1.69
SWFTS-MW19	3/11/2020	SWFTS-MW19-EM25-FD	FD	EM25	1,300	740	0.72 J	1,200	2.3	--
SWFTS-MW19	4/28/2020	SWFTS-MW19-EM26	N	EM26	1,200	1,100	<0.55	1,300	2.5	2.1
SWFTS-MW19	4/28/2020	SWFTS-MW19-EM26-FD	FD	EM26	1,200	1,100	0.56 J	1,300	2.6	--
SWFTS-MW19	7/9/2020	SWFTS-MW19-EM27	N	EM27	1,300	1,400	0.47 J	1,100	2.3	0.8
SWFTS-MW19	7/9/2020	SWFTS-MW19-EM27-FD	N	EM27	1,400	1,300	0.61	1,100	2.1	--
SWFTS-MW19	8/19/2020	SWFTS-MW19-EM28	N	EM28	1,300	1,300	0.43	930	2.4	0.87
SWFTS-MW19	8/19/2020	SWFTS-MW19-EM28-FD	FD	EM28	1,300	1,300	0.44	910	2.6	--
SWFTS-MW19	10/14/2020	SWFTS-MW19-EM29	N	EM29	1,500	1,300	0.43 J	910	2.3	0.72
SWFTS-MW19	10/14/2020	SWFTS-MW19-EM29-FD	FD	EM29	1,400	1,300	0.43 J	1,000	2.2	--
SWFTS-MW19	12/9/2020	SWFTS-MW19-EM30	N	EM30	1,500	990	0.36 J+	940	2.0	0.87
SWFTS-MW19	12/9/2020	SWFTS-MW19-EM30-FD	FD	EM30	1,500	1,000	0.33 J+	940	2.0	--
SWFTS-MW19	2/3/2021	SWFTS-MW19-EM31	N	EM31	1,600	920	0.26	950	2.0	1.23
SWFTS-MW19	2/3/2021	SWFTS-MW19-EM31-FD	FD	EM31	1,700	800	0.26	960	2.2	--
SWFTS-MW20	7/12/2017	SWFTS-MW20-BL02	N	BL02	20,000	51,000	13	2,200	1.7	6.05
SWFTS-MW20	9/21/2017	SWFTS-MW20-EM01	N	EM01	17,000	30,000	7.3	2,000	2.5	3.72
SWFTS-MW20	9/26/2017	SWFTS-MW20-EM02	N	EM02	16,000	33,000	7.6	2,100	3.0	0.49
SWFTS-MW20	10/4/2017	SWFTS-MW20-EM03	N	EM03	19,000	38,000	9.6	2,200	2.6	0.22
SWFTS-MW20	10/12/2017	SWFTS-MW20-EM04	N	EM04	14,000	42,000	8.5	2,000	2.2	0.23
SWFTS-MW20	10/12/2017	SWFTS-MW20-EM04-FD	FD	EM04	14,000	40,000	9.1	2,100	2.2	--
SWFTS-MW20	10/25/2017	SWFTS-MW20-EM05	N	EM05	17,000	40,000	11	2,100	2.6	0.45
SWFTS-MW20	11/16/2017	SWFTS-MW20-EM06	N	EM06	7,900	16,000	4.0	1,700	3.0	0.74
SWFTS-MW20	12/12/2017	SWFTS-MW20-EM07	N	EM07	16,000	43,000	8.5	2,200	2.2	0.20
SWFTS-MW20	2/19/2018	SWFTS-MW20-EM08	N	EM08	6,600	16,000	3.2	1,600	2.5	2.54
SWFTS-MW20	3/27/2018	SWFTS-MW20-EM09	N	EM09	11,000	24,000	5.2	2,100	2.2	3.64
SWFTS-MW20	4/30/2018	SWFTS-MW20-EM10	N	EM10	6,700	14,000	3.3	1,600	2.3	0.19
SWFTS-MW20	7/11/2018	SWFTS-MW20-EM11	N	EM11	6,700	16,000	3.2	1,600	2.8	1.72

Table 2
Groundwater Analytical Results
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Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW20	7/26/2018	SWFTS-MW20-EM12	N	EM12	7,500	19,000	--	--	--	1.88
SWFTS-MW20	8/15/2018	SWFTS-MW20-EM13	N	EM13	4,300	5,600	2.8	1,500	2.8	0.81
SWFTS-MW20	8/15/2018	SWFTS-MW20-EM13-FD	FD	EM13	4,300	5,700	2.7	1,400	2.8	--
SWFTS-MW20	9/11/2018	SWFTS-MW20-EM14	N	EM14	3,400	8,500	2.3 J	1,400	2.6	0.51
SWFTS-MW20	9/11/2018	SWFTS-MW20-EM14-FD	FD	EM14	3,900	9,500	6.9 J	1,500	2.6	--
SWFTS-MW20	10/9/2018	SWFTS-MW20-EM15	N	EM15	4,000	5,900	2.2	1,400	3.0	1.96
SWFTS-MW20	12/20/2018	SWFTS-MW20-EM16	N	EM16	2,800	830	2.1	1,500 J+	2.8	0.97
SWFTS-MW20	2/26/2019	SWFTS-MW20-EM17	N	EM17	1,500	170	1.5 J	1,100	3.2	0.36
SWFTS-MW20	4/9/2019	SWFTS-MW20-EM18	N	EM18	1,400	300	1.7 J	1,600	2.9	0.64
SWFTS-MW20	5/21/2019	SWFTS-MW20-EM19	N	EM19	1,000	69 J	1.3 J	1,600	2.8	0.41
SWFTS-MW20	7/2/2019	SWFTS-MW20-EM20	N	EM20	870	37 J	0.70 J	1,400	4.0	0.43
SWFTS-MW20	8/13/2019	SWFTS-MW20-EM21	N	EM21	390	23 J	0.41 J	1,400	3.4	0.42
SWFTS-MW20	11/5/2019	SWFTS-MW20-EM22	N	EM22	430	26 J	<1.1	1,400	3.4	0.49
SWFTS-MW20	12/17/2019	SWFTS-MW20-EM23	N	EM23	290	30 J	<1.1	1,400	2.8	0.65
SWFTS-MW20	1/29/2020	SWFTS-MW20-EM24	N	EM24	340	32 J	0.49 J	1,400 J+	3.0	0.52
SWFTS-MW20	3/12/2020	SWFTS-MW20-EM25	N	EM25	220	370	0.55 R	1,500	4.8	2.25
SWFTS-MW20	4/29/2020	SWFTS-MW20-EM26	N	EM26	180	38 J	<0.28	1,500	4.3	2
SWFTS-MW20	7/9/2020	SWFTS-MW20-EM27	N	EM27	170	<10	<0.55	2,000	3.0	0.7
SWFTS-MW20	8/20/2020	SWFTS-MW20-EM28	N	EM28	89	27 J	<0.55	1,500	4.6	0.5
SWFTS-MW20	10/14/2020	SWFTS-MW20-EM29	N	EM29	110	<10	<0.55	1,800	3.8	0.44
SWFTS-MW20	12/9/2020	SWFTS-MW20-EM30	N	EM30	140	27 J	0.18 J+	2,100	3.3	0.29
SWFTS-MW20	2/3/2021	SWFTS-MW20-EM31	N	EM31	79	<9.8	<0.014	1,800	3.1	0.74
SWFTS-MW21	7/13/2017	SWFTS-MW21-BL02	N	BL02	5,800	49,000	15	2,600	0.94 J	6.15
SWFTS-MW21	9/21/2017	SWFTS-MW21-EM01	N	EM01	5,200	15,000	3.9	2,600	7.5	4.90
SWFTS-MW21	9/27/2017	SWFTS-MW21-EM02	N	EM02	950	4,700	1.8 J	2,800	19	0.28
SWFTS-MW21	10/5/2017	SWFTS-MW21-EM03	N	EM03	1,100	7,700	3.2	2,500	24	4.40
SWFTS-MW21	10/11/2017	SWFTS-MW21-EM04	N	EM04	820	4,200	1.8	2,500	25	0.28
SWFTS-MW21	10/27/2017	SWFTS-MW21-EM05	N	EM05	890	5,000	2.0	2,600	2.8	0.45
SWFTS-MW21	11/15/2017	SWFTS-MW21-EM06	N	EM06	2,300	13,000	3.7	2,500	2.1	3.07
SWFTS-MW21	12/13/2017	SWFTS-MW21-EM07	N	EM07	3,500	26,000	4.7	2,500 J-	1.6	0.68
SWFTS-MW21	2/20/2018	SWFTS-MW21-EM08	N	EM08	4,800	34,000	11	2,600	1.6	0.24
SWFTS-MW21	2/20/2018	SWFTS-MW21-EM08-FD	FD	EM08	4,900	33,000	11	2,600	1.6	--
SWFTS-MW21	3/27/2018	SWFTS-MW21-EM09	N	EM09	4,600	32,000	10	2,800	1.1	0.37
SWFTS-MW21	4/30/2018	SWFTS-MW21-EM10	N	EM10	4,400	27,000	10	2,700	1.3	0.00
SWFTS-MW21	7/12/2018	SWFTS-MW21-EM11	N	EM11	1,300	7,900	2.8	2,600	3.7	0.06
SWFTS-MW21	7/27/2018	SWFTS-MW21-EM12	N	EM12	1,000	9,000	--	--	--	8.98 E
SWFTS-MW21	8/15/2018	SWFTS-MW21-EM13	N	EM13	1,300	2,900	1.9	2,000	2.7	0.68
SWFTS-MW21	9/12/2018	SWFTS-MW21-EM14	N	EM14	2,000	2,600	1.3	1,900	2.2	0.35
SWFTS-MW21	10/9/2018	SWFTS-MW21-EM15	N	EM15	2,700	2,600	2.9	2,200	1.9	0.59
SWFTS-MW21	12/20/2018	SWFTS-MW21-EM16	N	EM16	3,000	5,200	7.5	2,500	1.6	1.11
SWFTS-MW21	2/26/2019	SWFTS-MW21-EM17	N	EM17	2,800	2,500	9.3	2,700	1.4	0.00
SWFTS-MW21	4/10/2019	SWFTS-MW21-EM18	N	EM18	2,400	200	7.1	2,500	1.3	3.78
SWFTS-MW21	5/22/2019	SWFTS-MW21-EM19	N	EM19	3,100	530	9.6	2,600	1.3	0.57

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW21	7/1/2019	SWFTS-MW21-EM20	N	EM20	3,400	4,500	11	2,400	1.8	0.25
SWFTS-MW21	8/13/2019	SWFTS-MW21-EM21	N	EM21	4,000	5,400	11	2,500	1.5	0.38
SWFTS-MW21	11/4/2019	SWFTS-MW21-EM22	N	EM22	690	1,200	1.9	2,500	5.2	0.30
SWFTS-MW21	12/18/2019	SWFTS-MW21-EM23	N	EM23	810	230	2.0	2,100	1.5	0.82
SWFTS-MW21	1/30/2020	SWFTS-MW21-EM24	N	EM24	2,300	2,500	3.7	2,400	1.4	0.63
SWFTS-MW21	3/11/2020	SWFTS-MW21-EM25	N	EM25	2,600	2,700	7.2 J-	2,200	1.4	2.27
SWFTS-MW21	4/29/2020	SWFTS-MW21-EM26	N	EM26	4,200	17,000	9.7	1,900	1.5	3.29
SWFTS-MW21	7/10/2020	SWFTS-MW21-EM27	N	EM27	1,500	690	3.6	2,200	3.1	1.0
SWFTS-MW21	8/20/2020	SWFTS-MW21-EM28	N	EM28	1,700	110	3.1	2,400	2.4	0.49
SWFTS-MW21	10/14/2020	SWFTS-MW21-EM29	N	EM29	2,900	62 J	6.0	2,500	1.5	0.43
SWFTS-MW21	12/9/2020	SWFTS-MW21-EM30	N	EM30	2,700	52 J	9.0	2,900	1.2	0.29
SWFTS-MW21	2/3/2021	SWFTS-MW21-EM31	N	EM31	3,400	<9.8	8.9	2,400	1.2	0.77
SWFTS-MW22	7/13/2017	SWFTS-MW22-BL02	N	BL02	5,000	7,900	2.2	980	2.2	2.09
SWFTS-MW22	9/20/2017	SWFTS-MW22-EM01	N	EM01	4,000	6,700	1.7	930	2.2	0.32
SWFTS-MW22	9/27/2017	SWFTS-MW22-EM02	N	EM02	3,800	6,300	1.7	980	2.6	0.12
SWFTS-MW22	10/5/2017	SWFTS-MW22-EM03	N	EM03	3,500	6,000	1.7	920	2.7	0.41
SWFTS-MW22	10/12/2017	SWFTS-MW22-EM04	N	EM04	2,600	5,700	1.4	1,000	2.3	2.72
SWFTS-MW22	10/26/2017	SWFTS-MW22-EM05	N	EM05	3,700	5,500	1.6	930	2.6	0.29
SWFTS-MW22	11/16/2017	SWFTS-MW22-EM06	N	EM06	3,000	4,400	1.3	960	2.5	0.45
SWFTS-MW22	12/14/2017	SWFTS-MW22-EM07	N	EM07	2,500	4,900	1.4	1,000	2.6	1.31
SWFTS-MW22	2/21/2018	SWFTS-MW22-EM08	N	EM08	2,000	2,400	0.89 J	880	2.4	0.43
SWFTS-MW22	3/28/2018	SWFTS-MW22-EM09	N	EM09	2,000	2,600	0.83	900	2.4	0.65
SWFTS-MW22	4/30/2018	SWFTS-MW22-EM10	N	EM10	1,900	1,800	<0.055	19	2.2	0.26
SWFTS-MW22	7/10/2018	SWFTS-MW22-EM11	N	EM11	2,900	840	0.81	970	2.3	2.80
SWFTS-MW22	7/27/2018	SWFTS-MW22-EM12	N	EM12	2,200	3,600	--	--	--	4.13
SWFTS-MW22	8/16/2018	SWFTS-MW22-EM13	N	EM13	2,400	1,300	0.95 J+	980	2.4	2.29
SWFTS-MW22	9/11/2018	SWFTS-MW22-EM14	N	EM14	2,800	1,600 J+	1.2	1,000	2.2	0.47
SWFTS-MW22	10/9/2018	SWFTS-MW22-EM15	N	EM15	3,100	1,600	1.2	930	2.7	0.28
SWFTS-MW22	12/27/2018	SWFTS-MW22-EM16	N	EM16	2,400	1,700	1.3	910	2.4	0.6
SWFTS-MW22	2/27/2019	SWFTS-MW22-EM17	N	EM17	2,500	2,100	1.5	950	2.4	0.07
SWFTS-MW22	4/11/2019	SWFTS-MW22-EM18	N	EM18	2,500	2,700	1.7	1,000	2.4	0.57
SWFTS-MW22	5/21/2019	SWFTS-MW22-EM19	N	EM19	2,500	2,500	1.6	930	3.4	0.49
SWFTS-MW22	7/2/2019	SWFTS-MW22-EM20	N	EM20	2,300	2,200	1.5	920	2.7	0.43
SWFTS-MW22	8/12/2019	SWFTS-MW22-EM21	N	EM21	2,300	2,300	1.3	660	2.6	0.4
SWFTS-MW22	11/5/2019	SWFTS-MW22-EM22	N	EM22	2,000	2,300	1.2	820	2.4	0.39
SWFTS-MW22	12/19/2019	SWFTS-MW22-EM23	N	EM23	1,600	2,200	0.92	840	2.2	0.80
SWFTS-MW22	1/30/2020	SWFTS-MW22-EM24	N	EM24	1,700	2,100	1.0	800	2.2	0.62
SWFTS-MW22	3/11/2020	SWFTS-MW22-EM25	N	EM25	1,900	3,100	1.3	820	2.3	1.55
SWFTS-MW22	4/28/2020	SWFTS-MW22-EM26	N	EM26	3,000	4,700	1.9	870	2.3	1.99
SWFTS-MW22	7/10/2020	SWFTS-MW22-EM27	N	EM27	2,700	4,700	2.0	890	2.7	0.6
SWFTS-MW22	8/20/2020	SWFTS-MW22-EM28	N	EM28	4,400	9,600	2.8	980	3.0	0.45
SWFTS-MW22	10/14/2020	SWFTS-MW22-EM29	N	EM29	4,400	8,600	3.1	1,000	2.4	0.41
SWFTS-MW22	12/9/2020	SWFTS-MW22-EM30	N	EM30	3,500	7,300	2.8	1,000	2.2	0.27

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW22	2/3/2021	SWFTS-MW22-EM31	N	EM31	4,700	8,800	2.7	1,000	2.1 J-	0.77
SWFTS-MW23	7/13/2017	SWFTS-MW23-BL02	N	BL02	930	20	0.14 J	3,300	2.9	0.36
SWFTS-MW23	9/22/2017	SWFTS-MW23-EM01	N	EM01	1,700	160 J	0.64	760	3.1	0.55
SWFTS-MW23	9/28/2017	SWFTS-MW23-EM02	N	EM02	1,700	120	0.67	740	3.3	0.16
SWFTS-MW23	10/5/2017	SWFTS-MW23-EM03	N	EM03	1,900	<2,000	0.79	760	3.2	0.79
SWFTS-MW23	10/11/2017	SWFTS-MW23-EM04	N	EM04	4,000	220	0.88	780	2.9	1.87
SWFTS-MW23	10/26/2017	SWFTS-MW23-EM05	N	EM05	2,400	270	1.2	820	2.8	0.38
SWFTS-MW23	11/15/2017	SWFTS-MW23-EM06	N	EM06	2,400	270	1.4	900	3.0	0.49
SWFTS-MW23	12/12/2017	SWFTS-MW23-EM07	N	EM07	2,800	370	1.5	970	2.7	0.23
SWFTS-MW23	2/21/2018	SWFTS-MW23-EM08	N	EM08	2,800	300 J-	1.6	1,000	3.1	5.42
SWFTS-MW23	3/28/2018	SWFTS-MW23-EM09	N	EM09	2,100	180	0.83	910	2.8	2.59
SWFTS-MW23	5/2/2018	SWFTS-MW23-EM10	N	EM10	1,400	120	0.43	700	2.8	0.30
SWFTS-MW23	7/10/2018	SWFTS-MW23-EM11	N	EM11	1,000	18 J	0.11	710	2.7	0.44
SWFTS-MW23	8/16/2018	SWFTS-MW23-EM13	N	EM13	870	28	0.055 J	710	3.2	2.48
SWFTS-MW23	9/12/2018	SWFTS-MW23-EM14	N	EM14	1,300	52	0.11	720	2.7	0.64
SWFTS-MW23	10/11/2018	SWFTS-MW23-EM15	N	EM15	1,500	95 J	<0.28	740	3.2	1.68
SWFTS-MW23	12/28/2018	SWFTS-MW23-EM16	N	EM16	1,700	110	0.46	760	2.9	0.97
SWFTS-MW23	2/27/2019	SWFTS-MW23-EM17	N	EM17	1,400	66	0.30	780	2.9	0.05
SWFTS-MW23	4/11/2019	SWFTS-MW23-EM18	N	EM18	1,400	76	0.26	760	3.3	0.57
SWFTS-MW23	5/22/2019	SWFTS-MW23-EM19	N	EM19	1,400	100	0.35	790	2.9	0.08
SWFTS-MW23	7/3/2019	SWFTS-MW23-EM20	N	EM20	1,800	160	0.73	740	3.4	0.50
SWFTS-MW23	8/14/2019	SWFTS-MW23-EM21	N	EM21	2,500	250	1.2	880	3.1	0.42
SWFTS-MW23	11/5/2019	SWFTS-MW23-EM22	N	EM22	3,000	310	1.4	920	2.7	0.64
SWFTS-MW23	12/19/2019	SWFTS-MW23-EM23	N	EM23	2,300	290	0.94	930	2.6	1.41
SWFTS-MW23	1/30/2020	SWFTS-MW23-EM24	N	EM24	1,700	140	0.66	890	2.7	0.61
SWFTS-MW23	3/10/2020	SWFTS-MW23-EM25	N	EM25	1,200	50	0.24 J-	730	3.0	2.44
SWFTS-MW23	4/28/2020	SWFTS-MW23-EM26	N	EM26	670	8.8 J	<0.11	700	2.9	2.12
SWFTS-MW23	7/10/2020	SWFTS-MW23-EM27	N	EM27	470	<10	<0.11	630	3.3	0.71
SWFTS-MW23	8/20/2020	SWFTS-MW23-EM28	N	EM28	740	<10	<0.11	640	3.4	0.51
SWFTS-MW23	10/13/2020	SWFTS-MW23-EM29	N	EM29	1,500	39	0.92	650	3.0	0.49
SWFTS-MW23	12/9/2020	SWFTS-MW23-EM30	N	EM30	1,800	87	0.31 J+	780	2.7	0.33
SWFTS-MW23	2/3/2021	SWFTS-MW23-EM31	N	EM31	2,100	50	0.26	790	2.7	0.83
SWFTS-MW24	7/13/2017	SWFTS-MW24-BL02	N	BL02	13,000	47,000	13	1,900	1.3	3.04
SWFTS-MW24	9/22/2017	SWFTS-MW24-EM01	N	EM01	9,400	32,000	9.0	1,900	1.7	1.31
SWFTS-MW24	9/28/2017	SWFTS-MW24-EM02	N	EM02	5,200	12,000	4.5	1,900	4.3	0.48
SWFTS-MW24	10/5/2017	SWFTS-MW24-EM03	N	EM03	7,800	34,000	9.4	3,900	2.0	0.76
SWFTS-MW24	10/11/2017	SWFTS-MW24-EM04	N	EM04	4,400	17,000	4.7	1,900	1.9	3.88
SWFTS-MW24	10/26/2017	SWFTS-MW24-EM05	N	EM05	7,000	24,000	7.9	1,900	2.0 J-	3.06
SWFTS-MW24	11/15/2017	SWFTS-MW24-EM06	N	EM06	4,100	14,000	3.9	1,900	1.9	1.39
SWFTS-MW24	12/12/2017	SWFTS-MW24-EM07	N	EM07	6,600	26,000	6.1	1,900	1.5	1.11
SWFTS-MW24	2/21/2018	SWFTS-MW24-EM08	N	EM08	6,100	22,000	6.9	1,800	2.0	0.95
SWFTS-MW24	3/28/2018	SWFTS-MW24-EM09	N	EM09	4,800	15,000	5.4	1,600 J	1.6	0.55
SWFTS-MW24	5/2/2018	SWFTS-MW24-EM10	N	EM10	4,800	12,000	6.6	2,000	1.5	0.00

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW24	7/12/2018	SWFTS-MW24-EM11	N	EM11	5,000	6,100	7.3	1,800	1.3	0.10
SWFTS-MW24	7/27/2018	SWFTS-MW24-EM12	N	EM12	4,000	7,100	--	--	--	5.09
SWFTS-MW24	8/15/2018	SWFTS-MW24-EM13	N	EM13	4,000	4,800	7.6	1,800	1.9	1.83
SWFTS-MW24	9/12/2018	SWFTS-MW24-EM14	N	EM14	3,700	3,500	6.1	1,800	1.6	0.75
SWFTS-MW24	10/10/2018	SWFTS-MW24-EM15	N	EM15	3,500	2,700	6.5	1,700	2.0	2.95
SWFTS-MW24	1/2/2019	SWFTS-MW24-EM16	N	EM16	3,500	2,000	7.7	1,800	1.7	1.55
SWFTS-MW24	2/27/2019	SWFTS-MW24-EM17	N	EM17	3,400	2,100	7.8	1,700	1.5	1.29
SWFTS-MW24	4/10/2019	SWFTS-MW24-EM18	N	EM18	2,700	1,100	6.1	1,700	1.5	1.24
SWFTS-MW24	5/22/2019	SWFTS-MW24-EM19	N	EM19	2,700	1,900	5.8	1,700	1.6	1.18
SWFTS-MW24	7/1/2019	SWFTS-MW24-EM20	N	EM20	2,800	1,900	5.1	1,900	2.0	0.65
SWFTS-MW24	8/14/2019	SWFTS-MW24-EM21	N	EM21	3,400	5,500	6.9	1,700	1.9	0.63
SWFTS-MW24	11/5/2019	SWFTS-MW24-EM22	N	EM22	3,500	6,900	6.9	1,700	1.6	1.34
SWFTS-MW24	12/19/2019	SWFTS-MW24-EM23	N	EM23	2,400	2,400	5.4	1,600	1.4	1.47
SWFTS-MW24	1/30/2020	SWFTS-MW24-EM24	N	EM24	2,500	2,900	4.8	1,600	1.6	1.16
SWFTS-MW24	3/10/2020	SWFTS-MW24-EM25	N	EM25	3,400	6,000	4.9 J-	1,500	1.5	2.8
SWFTS-MW24	4/28/2020	SWFTS-MW24-EM26	N	EM26	5,800	15,000	6.9	1,500	1.4	2.6
SWFTS-MW24	7/10/2020	SWFTS-MW24-EM27	N	EM27	4,800	12,000	6.7	1,600	2.1	1.2
SWFTS-MW24	8/18/2020	SWFTS-MW24-EM28	N	EM28	3,900	7,700	5.3	1,400	2.3	0.77
SWFTS-MW24	10/12/2020	SWFTS-MW24-EM29	N	EM29	3,800	5,300	5.3	1,600	1.9	1.17
SWFTS-MW24	12/9/2020	SWFTS-MW24-EM30	N	EM30	3,600	6,800	5.5	1,600	1.4	0.49
SWFTS-MW24	2/3/2021	SWFTS-MW24-EM31	N	EM31	3,900	4,800 J+	5.9	1,600	1.5	4.05
SWFTS-MW25	7/13/2017	SWFTS-MW25-BL02	N	BL02	17,000	43,000	10	1,700	1.8	3.03
SWFTS-MW25	9/22/2017	SWFTS-MW25-EM01	N	EM01	280	<200	<0.55	1,800	13	0.50
SWFTS-MW25	9/28/2017	SWFTS-MW25-EM02	N	EM02	370	130	<0.55	1,900	4.8	0.14
SWFTS-MW25	10/5/2017	SWFTS-MW25-EM03	N	EM03	230	<500	<0.55	1,600	3.3	0.96
SWFTS-MW25	10/11/2017	SWFTS-MW25-EM04	N	EM04	140	160	<0.55	1,600	2.7	0.26
SWFTS-MW25	10/26/2017	SWFTS-MW25-EM05	N	EM05	420	170	<0.28	830	2.6	0.98
SWFTS-MW25	11/15/2017	SWFTS-MW25-EM06	N	EM06	440	630	<0.55	1,400	2.5	1.11
SWFTS-MW25	12/12/2017	SWFTS-MW25-EM07	N	EM07	2,300	1,700	<0.55	1,300	2.3	0.63
SWFTS-MW25	2/21/2018	SWFTS-MW25-EM08	N	EM08	2,800	4,700	<1.1	1,500	2.4	0.32
SWFTS-MW25	3/28/2018	SWFTS-MW25-EM09	N	EM09	4,600	11,000	2.8	1,400	2.0	0.20
SWFTS-MW25	5/3/2018	SWFTS-MW25-EM10	N	EM10	5,700	3,600	4.2	1,600	1.9	0.00
SWFTS-MW25	7/10/2018	SWFTS-MW25-EM11	N	EM11	4,300	2,100	3.6	1,500	1.7	3.00
SWFTS-MW25	7/27/2018	SWFTS-MW25-EM12	N	EM12	3,500	2,300	--	--	--	2.49
SWFTS-MW25	8/15/2018	SWFTS-MW25-EM13	N	EM13	4,500	4,300	5.2	1,500	2.3	1.91
SWFTS-MW25	9/12/2018	SWFTS-MW25-EM14	N	EM14	5,200	6,800	6.9	1,400	1.9	0.47
SWFTS-MW25	10/11/2018	SWFTS-MW25-EM15	N	EM15	5,000	7,600	7.9	1,400	2.0	1.25
SWFTS-MW25	1/2/2019	SWFTS-MW25-EM16	N	EM16	6,300	11,000	8.7	1,500	2.0	0.97
SWFTS-MW25	2/27/2019	SWFTS-MW25-EM17	N	EM17	4,000	6,400	4.9	1,400	2.0	0.05
SWFTS-MW25	4/11/2019	SWFTS-MW25-EM18	N	EM18	5,300	13,000	7.4	1,400	2.1	0.81
SWFTS-MW25	5/22/2019	SWFTS-MW25-EM19	N	EM19	5,700	15,000	9.2	1,400	1.9	0.12
SWFTS-MW25	7/3/2019	SWFTS-MW25-EM20	N	EM20	5,600	15,000	8.1	1,200	2.2	0.47
SWFTS-MW25	8/14/2019	SWFTS-MW25-EM21	N	EM21	6,600	19,000	8.2	1,200	2.5	0.39

Table 2
Groundwater Analytical Results
 Seep Well Field Area Bioremediation Treatability Study

Well	Sample Date	Sample ID	QC Type	Event	Perchlorate by USEPA Method 314.0 µg/L	Chlorate by USEPA Method 300.1B µg/L	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0 mg/L	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
SWFTS-MW25	11/5/2019	SWFTS-MW25-EM22	N	EM22	6,100	14,000	7.7	1,200	1.8	0.54
SWFTS-MW25	12/19/2019	SWFTS-MW25-EM23	N	EM23	6,000	15,000	7.4	1,200	1.7	0.74
SWFTS-MW25	1/30/2020	SWFTS-MW25-EM24	N	EM24	7,500	21,000	8.7	1,300	1.9	0.55
SWFTS-MW25	3/10/2020	SWFTS-MW25-EM25	N	EM25	8,300	22,000	8.6 J-	1,300	2.0	2.45
SWFTS-MW25	4/28/2020	SWFTS-MW25-EM26	N	EM26	8,400	23,000	9.5	1,400	1.8	2
SWFTS-MW25	7/10/2020	SWFTS-MW25-EM27	N	EM27	7,600	17,000	7.1	1,500	2.3	0.67
SWFTS-MW25	8/19/2020	SWFTS-MW25-EM28	N	EM28	7,600	19,000	8.5	1,400	2.8	0.8
SWFTS-MW25	10/13/2020	SWFTS-MW25-EM29	N	EM29	7,600	19,000	9.5	1,400	1.9	0.35
SWFTS-MW25	12/9/2020	SWFTS-MW25-EM30	N	EM30	7,100	17,000	9.5	1,300	1.5	0.27
SWFTS-MW25	2/4/2021	SWFTS-MW25-EM31	N	EM31	8,800	9,200 J+	9.3	1,400 J-	2.0	0.77

- Notes:
- mg/L - milligrams per liter
 - µg/L - micrograms per liter
 - not analyzed
 - < The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - E Instrument error during sampling

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Table 3
Summary of Groundwater Extraction Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
2/23/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	11:12	17:15	2.0	717.9	717.9
	SWFTS-MW11	11:20	17:15	9.6	3421.7	3,421.7
	SWFTS-MW12	11:00	17:15	8.4	3137.3	3,137.3
	SWFTS-MW13	12:30	17:15	17.3	4921.7	4,921.7
	SWFTS-MW17	8:45	17:15	19.6	9983.1	9,983.1
2/25/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	12:38	17:28	2.0	572.5	1,290.3
	SWFTS-MW11	12:25	17:28	9.7	2,952.9	6,374.6
	SWFTS-MW12	12:25	17:28	8.0	2,428.2	5,565.5
	SWFTS-MW13	12:25	17:28	19.9	6,034.6	10,956.3
	SWFTS-MW17	12:25	17:28	24.8	7,508.9	17,492.0
2/26/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	10:30	17:09	1.2	465.0	1,755.4
	SWFTS-MW11	10:49	17:10	4.9	1860.6	8,235.2
	SWFTS-MW12	10:30	17:12	4.8	1928.7	7,494.2
	SWFTS-MW13	10:45	13:27	15.4	2490.0	13,446.3
	SWFTS-MW13	16:10	17:09	19.9	1172.0	14,618.4
	SWFTS-MW17	10:45	17:09	11.8	4522.2	22,014.1
2/27/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	14:57	17:25	1.9	284.5	2,039.8
	SWFTS-MW11	14:56	17:25	9.8	1,457.2	9,692.4
	SWFTS-MW12	14:56	17:25	9.6	1,436.0	8,930.2
	SWFTS-MW13	14:57	17:25	19.9	2,939.7	17,558.1
	SWFTS-MW17	14:56	17:25	14.2	2,119.2	24,133.3
2/28/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:18	11:52	1.9	510.0	2,549.8
	SWFTS-MW11	7:18	11:52	9.9	2700.0	12,392.4
	SWFTS-MW12	7:18	17:00	4.1	2392.0	11,322.2
	SWFTS-MW13	7:18	11:52	20.1	5510.0	23,068.1
	SWFTS-MW17	7:18	17:00	11.7	6821.0	30,954.3
2/28/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	15:52	17:00	2.5	170.8	2,720.7
	SWFTS-MW11	15:52	17:00	12.4	844.9	13,237.2
	SWFTS-MW12	15:52	17:00	12.7	866.7	12,188.9
	SWFTS-MW13	15:35	17:00	21.1	1,797.3	24,865.4
	SWFTS-MW17	15:35	17:00	25.9	2,202.4	33,156.7

**Table 3
Summary of Groundwater Extraction Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
Nevada Environmental Response Trust**

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
3/1/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	8:02	17:00	1.9	1,021.4	3,571.3
	SWFTS-MW11	8:07	17:00	9.7	5,194.9	17,587.3
	SWFTS-MW12	8:02	17:00	9.3	4,977.7	16,299.9
	SWFTS-MW13	7:47	17:00	17.5	9,658.4	32,726.4
	SWFTS-MW17	8:02	17:00	25.0	13,457.7	44,412.0
3/2/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:28	13:21	1.9	682.3	4,253.6
	SWFTS-MW11	7:32	13:21	9.7	3384.34	20,971.6
	SWFTS-MW12	7:44	13:21	9.6	3232.8	19,532.7
	SWFTS-MW13	7:44	14:08	17.3	6635.85	39,362.3
	SWFTS-MW17	7:39	17:05	23.3	13168.8	57,580.8
3/2/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	13:53	17:05	2.5	474.66	4,728.2
	SWFTS-MW11	13:53	17:05	9.4	1810.65	22,782.3
	SWFTS-MW12	13:53	17:05	9.7	1856.6	21,389.3
	SWFTS-MW13	13:53	17:05	18.6	3568.75	42,931.0
	SWFTS-MW17	-	-	-	-	57580.8
3/3/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:25	16:00	2.0	1,049.4	5,303.0
	SWFTS-MW11	7:25	16:00	9.1	4,690.3	25,661.9
	SWFTS-MW12	7:25	16:00	8.5	4,397.9	23,930.6
	SWFTS-MW13	8:47	16:00	22.0	9,505.3	48,867.5
	SWFTS-MW17	7:25	16:00	23.4	12,050.7	69,631.5
3/8/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	10:15	17:00	2.2	887.04	6,190.0
	SWFTS-MW11	10:15	17:00	9.8	3951.56	29,613.5
	SWFTS-MW12	10:15	17:00	9.3	3773.7	27,704.3
	SWFTS-MW13	10:15	17:00	18.0	7270.46	56,138.0
	SWFTS-MW17	10:15	17:00	22.5	9093.26	78,724.8
3/9/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:57	17:10	2.2	1,240.3	7,430.3
	SWFTS-MW11	7:37	17:10	9.6	5,527.4	35,140.8
	SWFTS-MW12	7:57	17:10	9.7	5,364.2	33,068.5
	SWFTS-MW13	7:37	17:10	19.9	11,399.2	67,537.2
	SWFTS-MW17	7:57	17:10	25.9	14,302.8	93,027.6

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Table 3
Summary of Groundwater Extraction Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
Nevada Environmental Response Trust

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
3/10/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:45	17:10	2.3	1309.17	8,739.5
	SWFTS-MW11	8:25	17:10	9.9	5183.36	40,324.2
	SWFTS-MW12	7:45	17:10	9.5	5372.9	38,441.4
	SWFTS-MW13	7:45	17:10	19.7	11103.5	78,640.7
	SWFTS-MW17	7:45	17:10	24.7	13928.9	106,956.5
3/11/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	12:32	17:10	2.4	656.9	9,396.3
	SWFTS-MW11	12:32	17:10	9.8	2,718.8	43,043.0
	SWFTS-MW12	12:32	17:10	9.3	2,571.8	41,013.2
	SWFTS-MW13	8:11	17:10	19.8	10,671.6	89,312.3
	SWFTS-MW17	8:11	17:10	24.9	13,419.9	120,376.4
3/12/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	8:14	17:01	2.3	1234.28	10,630.6
	SWFTS-MW11	8:14	17:01	9.7	5133.58	48,176.5
	SWFTS-MW12	8:14	17:01	9.0	4717.5	45,730.7
	SWFTS-MW13	8:09	17:01	19.8	10520	99,832.3
	SWFTS-MW17	8:09	17:01	25.3	13444	133,820.4
3/13/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	7:46	17:02	2.3	1,274.8	11,905.4
	SWFTS-MW11	8:04	17:02	9.7	5,205.6	53,382.2
	SWFTS-MW12	7:46	17:02	8.9	4,961.9	50,692.6
	SWFTS-MW13	7:46	17:02	19.0	10,565.0	110,397.3
	SWFTS-MW17	7:46	17:02	24.5	13,603.8	147,424.2
3/14/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	8:15	12:54	2.1	581.73	12,487.2
	SWFTS-MW11	8:15	13:54	7.8	2659.1	56,041.3
	SWFTS-MW12	8:15	12:54	8.5	2362.4	53,055.0
	SWFTS-MW13	8:30	13:54	15.2	4940.09	115,337.4
	SWFTS-MW17	8:15	13:54	20.8	7044.53	154,468.7
3/15/2021	SWFTS-MW07A	-	-	-	-	-
	SWFTS-MW08A	-	-	-	-	12,487.2
	SWFTS-MW11	-	-	-	-	56,041.3
	SWFTS-MW12	-	-	-	-	53,055.0
	SWFTS-MW13	8:25	8:40	17.4	260.4	115,597.7
	SWFTS-MW17	8:25	8:40	22.9	344.0	154,812.7
EVENT TOTAL						391,993.8

Notes:

gpm - gallons per minute

gal - gallons

Table 4
Summary of Injection Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration ⁽¹⁾	Average Flow Rate	Sustained Pressure ⁽²⁾	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
2/24/2021	SWFTS-IW01A	3:46 PM	5:10 PM	84	8.8	11.5	738.7	0
	SWFTS-IW01B	3:46 PM	5:10 PM	77	7.9	13	605.3	0
	SWFTS-IW02A	3:46 PM	5:10 PM	84	7.5	17	628.5	0
	SWFTS-IW02B	3:46 PM	5:10 PM	84	7.2	17.5	604.3	0
	SWFTS-IW03	3:46 PM	5:10 PM	84	7.9	14	665.5	0
	SWFTS-IW04	3:46 PM	5:10 PM	84	8.7	14	733.0	0
	SWFTS-IW05	3:46 PM	5:10 PM	84	7.6	14	639.4	0
	SWFTS-IW06A	3:46 PM	5:10 PM	84	5.5	18	462.8	0
	SWFTS-IW06B	3:46 PM	5:10 PM	84	2.8	17	234.1	0
	SWFTS-IW07	3:46 PM	5:10 PM	74	10.1	17	747.6	0
	SWFTS-IW08	3:46 PM	5:10 PM	84	10.1	23.5	852.6	0
SWFTS-IW09	3:46 PM	5:10 PM	84	7.6	26	637.4	0	
SWFTS-IW10	3:46 PM	5:10 PM	84	5.2	26	435.2	0	
Daily Summary							7,984.3	0
2/25/2021	SWFTS-IW01A	8:23 AM	1:45 PM	217	8.2	11.5	1776.6	0
	SWFTS-IW01B	8:23 AM	3:59 PM	351	5.7	12.5	1993.9	0
	SWFTS-IW02A	8:23 AM	1:07 PM	179	7.7	15.5	1384.2	0
	SWFTS-IW02B	8:23 AM	12:25 PM	137	4.3	16	588.8	0
	SWFTS-IW03	8:23 AM	4:51 PM	403	6.5	13	2613.1	0
	SWFTS-IW04	8:23 AM	4:35 PM	387	6.1	13.5	2363.9	0
	SWFTS-IW05	8:23 AM	4:51 PM	403	6.4	13	2590.3	0
	SWFTS-IW06A	8:23 AM	4:35 PM	387	4.0	18	1549.2	0
	SWFTS-IW06B	8:23 AM	4:08 PM	360	2.1	17	772.1	0
	SWFTS-IW07	8:23 AM	4:52 PM	404	8.4	16.5	3379.2	0
	SWFTS-IW08	8:23 AM	4:52 PM	404	6.7	24	2715.8	0
	SWFTS-IW09	8:23 AM	4:52 PM	404	5.8	27	2344.3	0
	SWFTS-IW10	8:23 AM	4:52 PM	404	4.3	25	1735.8	0
	SWFTS-IW11	1:52 PM	4:52 PM	180	3.9	11.5	701.3	0
	SWFTS-IW12	1:15 PM	4:52 PM	217	4.1	13.5	894.3	0
SWFTS-IW13A	4:50 PM	4:52 PM	2	4.3	20	8.6	0	
SWFTS-IW13B	4:50 PM	4:52 PM	2	2.2	20	4.4	0	
SWFTS-IW14	4:50 PM	4:52 PM	2	4.6	30	9.2	0	
Daily Summary							27,424.9	0
2/26/2021	SWFTS-IW03	9:50 AM	11:10 AM	80	8.3	12	660.1	0
	SWFTS-IW05	9:50 AM	11:10 AM	80	8.2	11.5	652.3	0
	SWFTS-IW08	9:50 AM	11:10 AM	80	5.7	21	456.1	0
	SWFTS-IW09	9:50 AM	11:10 AM	80	10.0	22	802.5	0
	SWFTS-IW10	9:50 AM	11:10 AM	80	7.1	26	564.6	0
	SWFTS-IW11	9:50 AM	11:10 AM	80	8.3	10	665.6	0
	SWFTS-IW12	9:50 AM	11:10 AM	80	8.3	11.5	662.6	0
	SWFTS-IW13A	9:50 AM	11:10 AM	80	5.4	12.5	431.6	0
	SWFTS-IW13B	9:50 AM	11:10 AM	80	1.8	17.5	142.3	0
	SWFTS-IW14	9:50 AM	11:10 AM	80	8.1	15.5	645.0	0
SWFTS-IW15	9:50 AM	11:10 AM	80	8.4	18.5	669.9	0	
SWFTS-IW17	9:50 AM	11:10 AM	80	10.6	22	851.2	0	
Daily Summary							7,204	0

Table 4
Summary of Injection Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration ⁽¹⁾	Average Flow Rate	Sustained Pressure ⁽²⁾	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
2/27/2021	SWFTS-IW02B	10:42 AM	12:15 PM	71	11.5	13.5	819.1	0
	SWFTS-IW03	10:42 AM	10:55 AM	13	6.6	19	86.1	0
	SWFTS-IW05	10:42 AM	10:57 AM	15	9.5	25	142.0	0
	SWFTS-IW09	10:42 AM	11:22 AM	40	6.0	27	240.1	0
	SWFTS-IW10	10:42 AM	1:47 PM	185	7.0	26.5	1289.0	0
	SWFTS-IW11	10:42 AM	2:08 PM	206	12.9	12	2657.1	0
	SWFTS-IW12	10:42 AM	3:42 PM	300	12.0	13	3599.3	0
	SWFTS-IW13A	10:42 AM	3:30 PM	288	5.5	14	1572.1	0
	SWFTS-IW13B	10:42 AM	3:47 PM	305	3.6	27	1099.6	0
	SWFTS-IW14	10:42 AM	3:25 PM	283	11.9	17	3370.0	0
	SWFTS-IW15	10:42 AM	3:47 PM	305	11.8	17.5	3588.5	0
	SWFTS-IW16A	11:34 AM	2:48 PM	194	10.4	20.5	2012.1	0
	SWFTS-IW16B	11:34 AM	3:20 PM	226	8.9	25	2012.1	0
	SWFTS-IW17	10:42 AM	3:47 PM	305	10.2	24	3101.6	0
SWFTS-IW18	2:07 PM	3:47 PM	100	7.5	21	745.5	0	
SWFTS-IW19	12:39 PM	3:47 PM	188	5.9	23.5	1117.4	0	
SWFTS-IW20	12:39 PM	3:47 PM	188	5.2	22	978.0	0	
Daily Summary							28,429.5	0
2/28/2021	SWFTS-IW11	2:28 PM	3:03 PM	35	10.6	9	371.4	0
	SWFTS-IW12	2:28 PM	3:08 PM	40	12.4	9	495.5	0
	SWFTS-IW13B	9:15 AM	10:59 AM	104	7.4	27.5	766.1	0
	SWFTS-IW14	2:28 PM	3:00 PM	32	11.6	14	371.4	0
	SWFTS-IW15	9:15 AM	10:05 AM	50	15.4	16.5	772.2	0
	SWFTS-IW17	9:15 AM	9:24 AM	9	7.9	24	71.1	0
	SWFTS-IW18	9:15 AM	2:12 PM	297	14.4	28	4285.1	0
	SWFTS-IW19	9:15 AM	2:16 PM	301	13.0	31	3913.0	0
SWFTS-IW20	9:15 AM	2:00 PM	285	11.6	30	3298.1	0	
Daily Summary							14,343.7	0
2/28/2021	SWFTS-IW11	3:23 PM	5:00 PM	97	12.6	9	0	1,223.2
	SWFTS-IW12	3:23 PM	5:00 PM	97	13.3	9	0	1,290.7
	SWFTS-IW13A	3:23 PM	5:00 PM	97	5.7	12	0	557.4
	SWFTS-IW13B	3:23 PM	5:00 PM	97	5.1	20	0	490.0
	SWFTS-IW14	3:23 PM	5:00 PM	97	12.7	16	0	1,230.8
	SWFTS-IW15	3:23 PM	5:00 PM	97	12.2	14	0	1,183.2
	SWFTS-IW16A	3:23 PM	5:00 PM	97	10.0	18.5	0	969.8
	SWFTS-IW16B	3:23 PM	5:00 PM	97	9.9	20	0	959.8
	SWFTS-IW17	3:23 PM	5:00 PM	97	10.4	17	0	1,010.2
	SWFTS-IW18	3:23 PM	5:00 PM	97	9.4	19.5	0	915.9
SWFTS-IW19	3:23 PM	5:00 PM	97	9.4	20	0	913.2	
SWFTS-IW20	3:23 PM	5:00 PM	97	6.6	20	0	644.1	
Daily Summary							0	11,388.2
3/1/2021	SWFTS-IW07	3:47 PM	4:45 PM	58	11.0	14	0	636.5
	SWFTS-IW08	3:47 PM	4:45 PM	58	4.7	10	0	269.8
	SWFTS-IW09	3:47 PM	4:45 PM	58	9.8	23	0	568.4
	SWFTS-IW11	8:37 AM	2:32 PM	222	14.2	10.5	0	3,152.1
	SWFTS-IW12	8:37 AM	3:15 PM	272	14.9	19	0	4,053.3
	SWFTS-IW13A	8:37 AM	12:06 PM	209	7.8	15	0	1,631.2
	SWFTS-IW13B	8:37 AM	12:19 PM	222	7.7	22	0	1,699.2
	SWFTS-IW14	8:37 AM	2:50 PM	227	13.9	17	0	3,144.2
	SWFTS-IW15	8:37 AM	11:59 AM	202	14.6	16	0	2,942.3
	SWFTS-IW16A	8:37 AM	2:12 PM	118	10.3	19	0	1,218.3
	SWFTS-IW16B	8:37 AM	2:20 PM	126	9.7	20	0	1,228.1
	SWFTS-IW17	8:37 AM	1:20 PM	283	11.9	20	0	3,364.9
	SWFTS-IW18	8:37 AM	1:27 PM	290	11.1	21	0	3,209.0
SWFTS-IW19	8:37 AM	1:36 PM	299	10.7	24	0	3,211.8	
SWFTS-IW20	8:37 AM	4:45 PM	244	11.9	21	0	2,912.5	
Daily Summary							0	33,241.6

**Table 4
Summary of Injection Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
Nevada Environmental Response Trust**

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration ⁽¹⁾	Average Flow Rate	Sustained Pressure ⁽²⁾	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
3/2/2021	SWFTS-IW06A	8:12 AM	5:00 PM	528	6.6	16	0	3,477.3
	SWFTS-IW06B	8:12 AM	5:00 PM	528	6.0	22	0	3,186.2
	SWFTS-IW07	8:12 AM	5:00 PM	528	11.7	14	0	6,192.8
	SWFTS-IW08	8:12 AM	5:00 PM	528	11.7	16	0	6,182.4
	SWFTS-IW09	8:12 AM	5:00 PM	528	11.7	22	0	6,173.8
	SWFTS-IW10	9:38 AM	5:00 PM	442	12.0	21	0	5,302.1
	SWFTS-IW20	8:12 AM	9:20 AM	68	12.0	20	0	818.0
Daily Summary							0	31,332.6
3/3/2021	SWFTS-IW01A	7:47 AM	3:30 PM	463	7.4	13	0	3,435.1
	SWFTS-IW01B	7:47 AM	3:30 PM	463	7.0	12.5	0	3,262.2
	SWFTS-IW02A	7:47 AM	3:30 PM	463	7.9	16	0	3,649.1
	SWFTS-IW02B	7:47 AM	3:30 PM	463	6.9	15	0	3,181.0
	SWFTS-IW03	7:47 AM	3:30 PM	463	12.5	14.5	0	5,780.3
	SWFTS-IW04	7:47 AM	3:30 PM	463	12.6	13	0	5,836.7
	SWFTS-IW05	7:47 AM	3:30 PM	463	11.1	15.5	0	5,156.6
Daily Summary							0	30,301
3/8/2021	SWFTS-IW01A	8:52 AM	5:00 PM	488	7.5	18	0	3,661.2
	SWFTS-IW01B	8:52 AM	5:00 PM	488	7.6	22	0	3,729.1
	SWFTS-IW02A	8:52 AM	5:00 PM	488	7.0	23	0	3,419.5
	SWFTS-IW02B	8:52 AM	5:00 PM	488	6.5	23	0	3,183.0
	SWFTS-IW03	8:52 AM	5:00 PM	488	6.9	21	0	3,361.2
	SWFTS-IW04	8:52 AM	5:00 PM	488	9.5	15.5	0	4,612.9
SWFTS-IW05	8:52 AM	5:00 PM	488	8.9	23.5	0	4,351.0	
Daily Summary							0	26,318
3/9/2021	SWFTS-IW01A	7:47 AM	9:57 AM	130	8.9	18	0	1,154.1
	SWFTS-IW01B	7:47 AM	10:10 AM	143	8.8	23	0	1,259.0
	SWFTS-IW02A	7:47 AM	11:05 AM	198	8.5	24	0	1,681.1
	SWFTS-IW02B	7:47 AM	1:21 PM	334	7.1	25	0	2,386.0
	SWFTS-IW03	7:47 AM	5:10 PM	563	9.0	22	0	5,071.1
	SWFTS-IW04	7:47 AM	12:38 PM	291	9.2	19	0	2,675.0
	SWFTS-IW05	7:47 AM	5:10 PM	563	9.0	27	0	5,064.1
	SWFTS-IW06A	10:13 AM	5:10 PM	417	9.6	18	0	4,016.0
	SWFTS-IW06B	10:13 AM	12:45 PM	152	7.8	25.5	0	1,189.0
	SWFTS-IW07	11:14 AM	5:10 PM	356	9.8	14	0	3,504.8
	SWFTS-IW08	12:39 PM	5:10 PM	271	9.7	19	0	2,624.4
	SWFTS-IW09	12:48 PM	5:10 PM	262	8.7	18.5	0	2,288.1
SWFTS-IW10	1:26 PM	5:10 PM	224	9.0	21	0	2,011.5	
Daily Summary							0	34,924

Table 4
Summary of Injection Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration ⁽¹⁾	Average Flow Rate	Sustained Pressure ⁽²⁾	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
3/10/2021	SWFTS-IW03	7:40 AM	2:11 PM	391	8.4	19	0	3,287.0
	SWFTS-IW05	7:40 AM	1:19 PM	339	8.6	24.5	0	2,928.1
	SWFTS-IW06A	7:40 AM	10:13 AM	153	8.3	19	0	1,263.7
	SWFTS-IW07	7:22 AM	5:10 PM	588	11.0	17	0	6,471.0
	SWFTS-IW08	7:22 AM	5:10 PM	588	10.9	23.5	0	6,383.2
	SWFTS-IW09	7:22 AM	5:10 PM	588	10.7	24.5	0	6,297.5
	SWFTS-IW10	7:22 AM	5:10 PM	588	9.0	24.5	0	5,286.3
	SWFTS-IW11	10:29 AM	5:10 PM	401	7.7	23.5	0	3,067.8
	SWFTS-IW12	1:21 PM	5:10 PM	229	7.5	17	0	1,717.3
	SWFTS-IW13A	2:19 PM	5:10 PM	171	12.6	17	0	2,152.3
SWFTS-IW13B	2:19 PM	5:10 PM	171	12.9	24	0	2,200.3	
Daily Summary							0	41,055
3/11/2021	SWFTS-IW07	12:18 PM	1:22 PM	64	10.9	20	0	695.0
	SWFTS-IW08	12:18 PM	3:18 PM	180	11.3	19	0	2,040.2
	SWFTS-IW09	12:18 PM	3:31 PM	193	11.3	24.5	0	2,172.0
	SWFTS-IW10	12:18 PM	4:47 PM	269	11.3	25	0	3,042.9
	SWFTS-IW11	12:20 PM	4:47 PM	267	8.8	23	0	2,362.6
	SWFTS-IW12	12:20 PM	4:47 PM	267	9.1	14	0	2,426.5
	SWFTS-IW13A	12:20 PM	4:47 PM	267	13.8	19	0	3,674.8
	SWFTS-IW13B	12:20 PM	4:47 PM	267	13.6	28	0	3,622.8
	SWFTS-IW14	1:28 PM	4:47 PM	199	9.0	5	0	1,795.3
	SWFTS-IW15	3:19 PM	4:47 PM	88	9.2	16	0	813.2
SWFTS-IW16A	3:33 PM	4:47 PM	74	11.9	22	0	880.8	
SWFTS-IW16B	3:33 PM	4:47 PM	74	11.8	26	0	870.9	
Daily Summary							0	24,397
3/12/2021	SWFTS-IW10	8:24 AM	11:54 AM	210	8.8	21	0	1,857.0
	SWFTS-IW11	8:17 AM	4:45 PM	508	7.9	25.5	0	4,013.7
	SWFTS-IW12	8:17 AM	4:45 PM	508	8.7	17	0	4,404.7
	SWFTS-IW13A	8:17 AM	9:24 AM	67	11.0	15	0	734.0
	SWFTS-IW13B	8:17 AM	9:24 AM	67	11.0	22	0	738.1
	SWFTS-IW14	8:17 AM	4:45 PM	508	8.5	16	0	4,336.2
	SWFTS-IW15	8:17 AM	4:45 PM	508	8.6	23	0	4,360.4
	SWFTS-IW16A	8:24 AM	4:45 PM	501	8.5	30	0	4,267.1
	SWFTS-IW16B	8:24 AM	4:45 PM	501	8.3	27	0	4,167.1
	SWFTS-IW18	9:29 AM	4:45 PM	436	8.3	24	0	3,615.2
SWFTS-IW19	11:55 AM	4:45 PM	290	8.1	21	0	2,347.9	
Daily Summary							0	34,841
3/13/2021	SWFTS-IW11	7:39 AM	2:02 PM	383	9.6	25	0	3,681.0
	SWFTS-IW12	7:39 AM	4:45 PM	546	8.6	16	0	4,670.8
	SWFTS-IW14	7:39 AM	4:45 PM	546	8.6	19.5	0	4,695.1
	SWFTS-IW15	7:39 AM	4:45 PM	546	8.5	20	0	4,659.5
	SWFTS-IW16A	7:34 AM	10:48 AM	194	7.3	29	0	1,413.9
	SWFTS-IW16B	7:34 AM	11:01 AM	207	7.4	24	0	1,524.0
	SWFTS-IW17	7:34 AM	4:45 PM	551	6.0	24	0	3,295.9
	SWFTS-IW18	7:34 AM	4:45 PM	551	6.0	22	0	3,309.2
	SWFTS-IW19	10:50 AM	4:45 PM	355	10.9	18.5	0	3,854.9
	SWFTS-IW20	11:03 AM	4:45 PM	342	10.9	18	0	3,718.9
Daily Summary							0	34,823
3/14/2021	SWFTS-IW12	7:56 AM	12:20 PM	264	10.7	11.5	0	2,812.6
	SWFTS-IW14	7:56 AM	11:17 AM	201	11.4	15	0	2,298.0
	SWFTS-IW15	7:56 AM	11:53 AM	237	10.7	16	0	2,541.0
	SWFTS-IW17	7:56 AM	4:45 PM	529	9.5	30	0	5,043.9
	SWFTS-IW18	7:56 AM	4:45 PM	529	9.6	30	0	5,054.8
	SWFTS-IW19	7:56 AM	4:45 PM	529	12.4	23	0	6,534.6
SWFTS-IW20	7:56 AM	4:45 PM	529	12.8	22	0	6,772.7	
Daily Summary							0	31,058

Table 4
Summary of Injection Activities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration ⁽¹⁾	Average Flow Rate	Sustained Pressure ⁽²⁾	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
3/15/2021	SWFTS-IW17	9:00 AM	10:40 AM	100	11.7	25	0	1,170.0
	SWFTS-IW18	9:00 AM	11:12 AM	132	13.0	27	0	1,716.9
	SWFTS-IW19	9:00 AM	4:17 PM	247	9.4	19	0	2,331.9
	SWFTS-IW20	9:00 AM	12:50 PM	230	12.1	22	0	2,786.4
Daily Summary							0	8,005
3/16/2021	SWFTS-IW17	9:00 AM	10:00 AM	60	0.2	0	0	10.0
Daily Summary							0	10
Injection Event Summary							85,386	341,694

Notes:

gpm - gallons per minute

min - minutes

gal - gallons

psi - pounds per square inch

¹Injection duration indicates the total minutes of active injection per day, accounting for any downtime in injections that may have occurred throughout the day. Therefore, injection duration may be less than the difference in daily injection start and stop times indicated.

²Sustained pressure reported represents the highest pressure recored during the injection interval indicated.

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Table 5
Batch Quantities
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
Nevada Environmental Response Trust

Batch ID	1A	2B	3A	4B	5A	6B
EVO (gallons)	2,917	2,878	2,446	2,788	2,712	2,958
Glycerin (gallons)	66	66	55	63	63	67
AquaPure (gallons)	21	21	18	20	20	20
Sodium Sulfite (lbs)	52	52	44	50	50	52
Water (gallons)	11,634	11,526	9,700	11,138	10,862	10,863
Total Injectate Solution (gallons)	14,638	14,491	12,219	14,009	13,657	13,908

Notes:

lbs - pounds

mL - milliliters

Table 6
Specific Gravity Calibration Measurements
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
 Nevada Environmental Response Trust

Standard Dilution Parts EOS _{PRO} and Amendments ⁽¹⁾ to Parts Extracted Groundwater	EOS _{PRO} % by weight	Emulsified Vegetable Oil Concentration % by weight	Hydrometer Readings (Calibrated for 60°F)					Sample Temperature (°F)					Temperature Corrected Specific Gravity						
			Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Average	SD
1:0 - EOS _{PRO} Only - Delivery 1	100.0%	59.8%	0.961	0.960	0.960	0.960	0.960	78	78	78	78	78.5	0.963	0.962	0.962	0.962	0.962	0.962	0.0004
1:2 - EOS _{PRO} standard	33.3%	19.9%	0.986	0.986	0.986	0.984	NM	84	84	84	84	NM	0.989	0.989	0.989	0.987	NM	0.988	0.001
1:4 - EOS _{PRO} standard	20.0%	12.0%	0.993	0.993	0.992	0.993	NM	83	83	83	83	NM	0.996	0.996	0.995	0.996	NM	0.996	0.001
1:6 - EOS _{PRO} standard	14.3%	8.5%	0.995	0.995	0.995	0.995	NM	84	84	84	84	NM	0.998	0.998	0.998	0.998	NM	0.998	0.0000
0:1 - Extracted Groundwater Only	0.0%	0.0%	1.004	1.004	1.003	1.004	1.003	81.5	79.5	79	79	79	1.007	1.006	1.005	1.006	1.005	1.006	0.001
0:1 - Ammended Groundwater	0.0%	0.0%	1.006	1.006	1.005	1.005	1.005	84	84	83.5	82	82.5	1.009	1.009	1.008	1.008	1.008	1.008	0.001
1:4 - EOSPRO standard - Delivery 1	20.0%	12.0%	0.993	0.993	0.992	0.993	0.993	83	83	83	83	83	0.996	0.996	0.995	0.996	0.996	0.996	0.0004
1:4 - EOSPRO standard - Delivery 2	20.0%	12.0%	0.997	0.997	0.998	0.997	0.997	48	48	48	48	48	0.996	0.996	0.997	0.996	0.996	0.996	0.0004
1:4 - EOSPRO standard - Delivery 3	20.0%	12.0%	0.996	0.996	0.996	0.996	0.996	58	58	58	58	58	0.996	0.996	0.996	0.996	0.996	0.996	0.0000
1:4 - EOSPRO standard - Delivery 4	20.0%	12.0%	0.994	0.994	0.995	0.995	0.994	66	66	66	66	66	0.995	0.995	0.996	0.996	0.995	0.995	0.001

Notes:

Dup - sample duplicate

NM - Not measured

SD - standard deviation

1. Injectate solution includes emulsified vegetable oil (EOS_{PRO}), phosphate solution (Aquapure 3601 NSF), glycerin, and sodium sulfite mixed into extracted groundwater. A 1:4 injectate stock solution standard was prepared for each mixture of deliveries of EOS_{PRO} used for batch mixing.

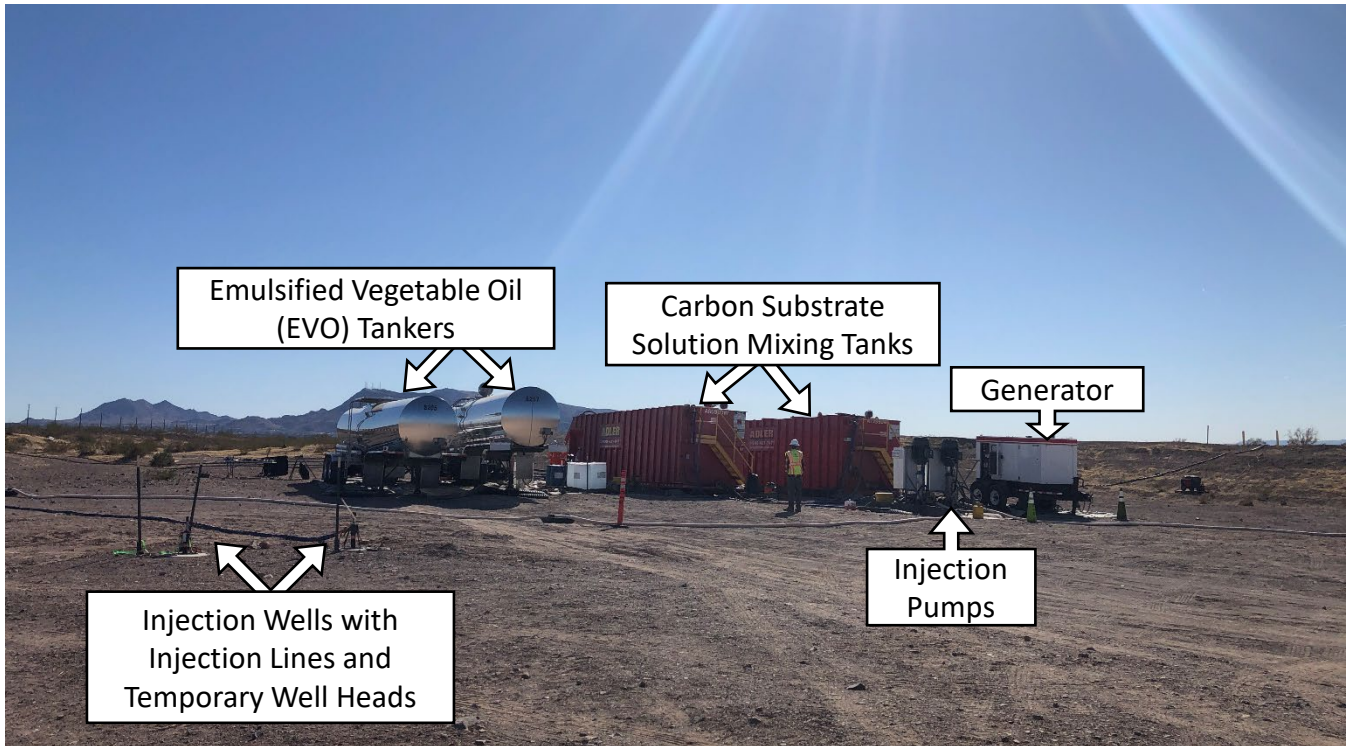
**Table 7
Specific Gravity Measurements
Injection Event 7 - February/March 2021
Seep Well Field Area Bioremediation Treatability Study
Nevada Environmental Response Trust**

Batch Number	Date	Time	Batch Volume Remaining	Average Hydrometer Readings (Calibrated for 60°F)	Average Sample Temperature (°F)	Average Corrected Specific Gravity	Calculated Percent Oil	Within Acceptable Range ⁽¹⁾	Comments
			gallons						
1A	2/24/2021	14:40	14570	0.991	77	0.993	15.6%	YES	Pre-injection.
1A	2/24/2021	16:37	10597	0.995	74	0.996	11.1%	YES	
1A	2/25/2021	7:46	6975	0.993	67	0.994	15.0%	YES	
1A	2/25/2021	8:59	4685	0.994	62	0.994	14.7%	YES	
2B	2/25/2021	9:00	14463	0.991	65	0.991	18.6%	YES	Pre-injection.
2B	2/25/2021	11:41	11115	0.993	69	0.994	15.0%	YES	
2B	2/25/2021	13:21	4146	0.993	71	0.994	14.7%	YES	
3A	2/25/2021	15:40	12671	0.994	74	0.995	12.6%	YES	Pre-injection.
3A	2/25/2021	16:28	9422	0.994	69	0.995	13.2%	YES	
3A	2/26/2021	9:10	7112	0.996	62	0.996	12.3%	YES	
3A	2/26/2021	10:42	3354	0.995	64	0.995	13.2%	YES	
4B	2/27/2021	10:37	13905	0.994	67	0.995	13.5%	YES	Pre-injection.
4B	2/27/2021	11:48	8708	0.992	70	0.993	15.6%	YES	
4B	2/27/2021	12:31	3461	0.993	70	0.994	14.7%	YES	
5A	2/27/2021	10:52	14551	0.996	67	0.997	10.2%	YES	Pre-injection.
5A	2/27/2021	12:38	14551	0.995	72	0.996	11.7%	YES	Pre-injection.
5A	2/27/2021	13:59	8502	0.996	73	0.997	10.8%	YES	
5A	2/27/2021	15:07	2962	0.996	74	0.997	10.8%	YES	
6B	2/28/2021	9:05	14619	0.995	63	0.995	13.2%	YES	Pre-injection.
6B	2/28/2021	10:27	11331	0.994	66	0.995	13.8%	YES	
6B	2/28/2021	12:30	5850	0.994	70	0.995	13.5%	YES	

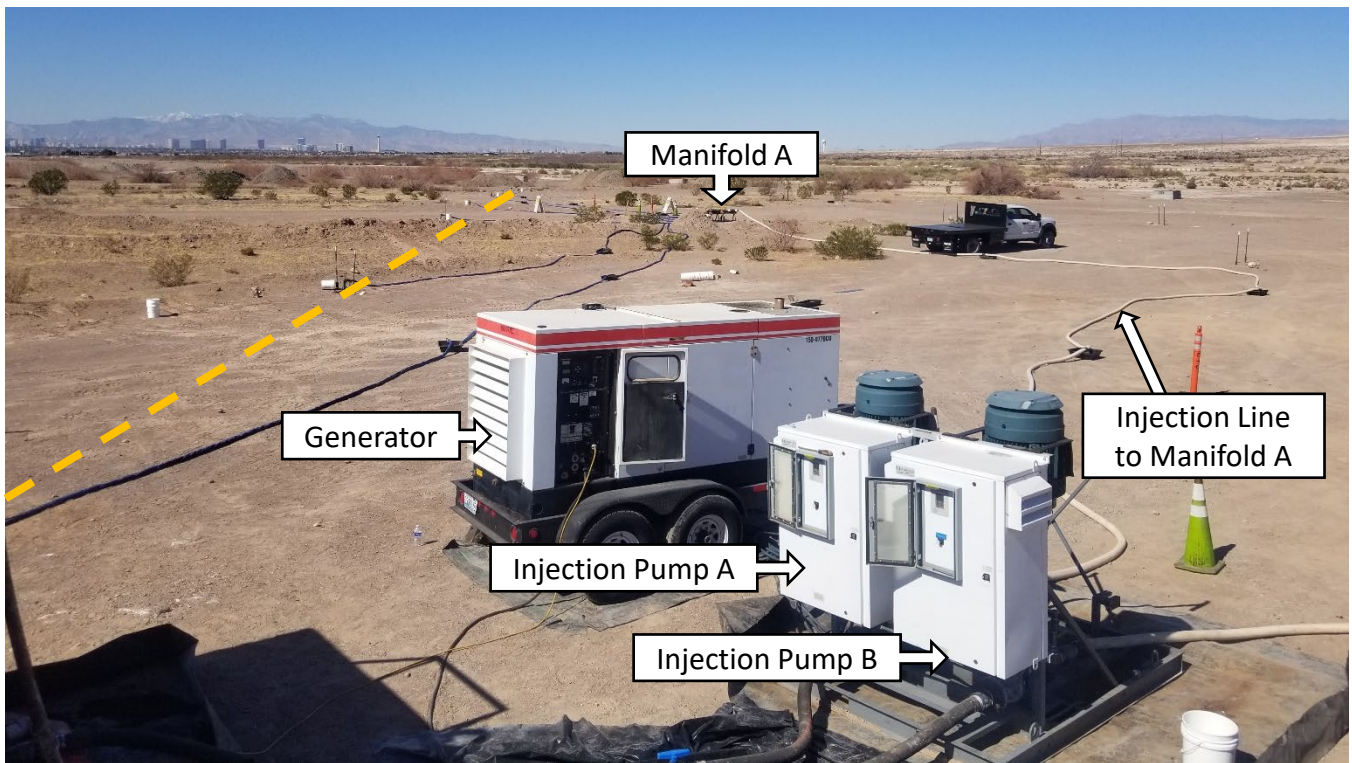
1. The acceptable range of specific gravity measurements was determined to be 0.991 to 1.001 for EOS_{PRO} Deliveries 1 through 3, and 0.990 to 1.000 for batches mixed after EOS_{PRO} Delivery 4. This was determined by taking +/- 10% of the difference between the pure EOS_{PRO} with amendments solution and the pure extracted groundwater (equivalent to 0.005) and then adding and subtracting that value with the specific gravity of the 1:4 standard (shown in Table 5).

2. Tank level approximated based on sample collection time and average injection rates.

Photo Logs



Injection Staging Area (View to the Southwest)



Injection Well Transect (Yellow) with Generator, Injection Pumps, and Injection Line to Manifold A (View to the Northwest)



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**Seep Well Field Area Bioremediation
 Treatability Study, Injection Event 7**

Project No.:117-7502019-M11-01

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Left: Testing and calibrating flow meters; Right: Tested flow meters



Manifold A with Calibrated Flow Meters, Pressure Gauges, and Well Connection Labels



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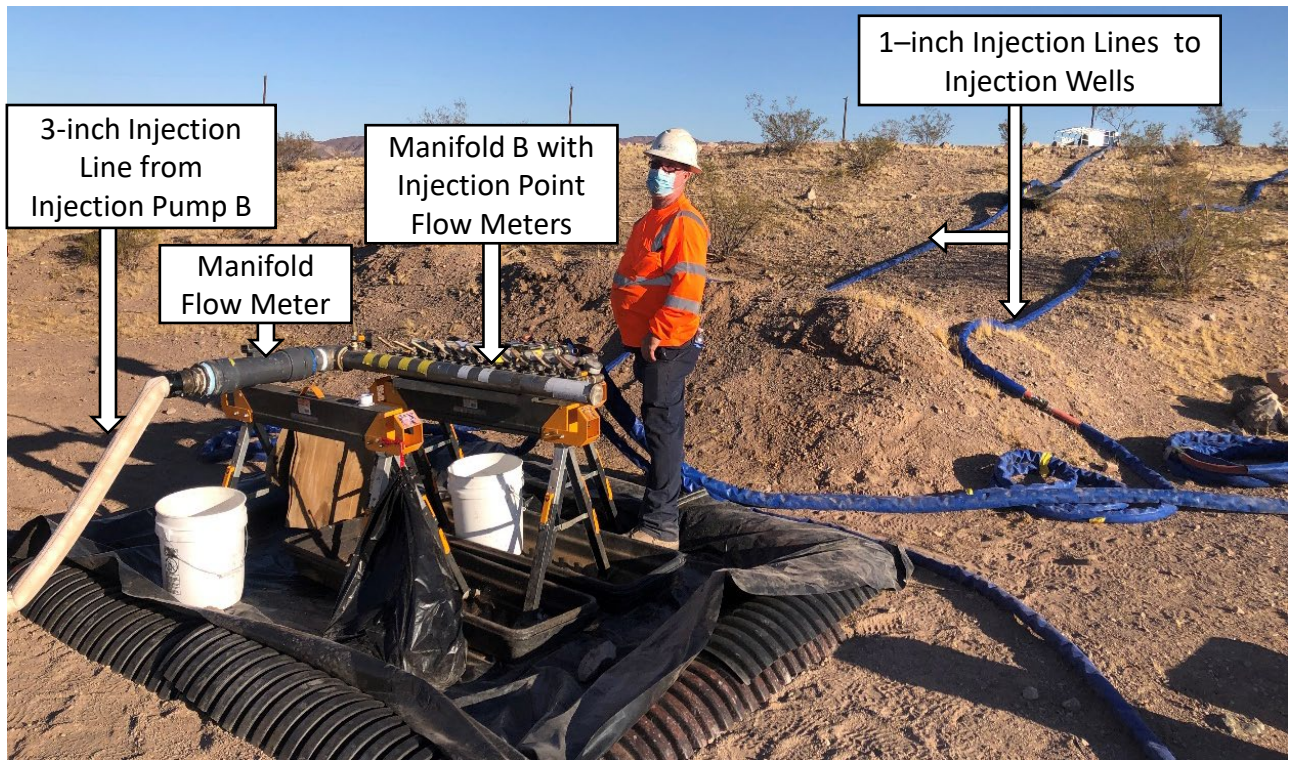
Project No.:117-7502019-M11-01

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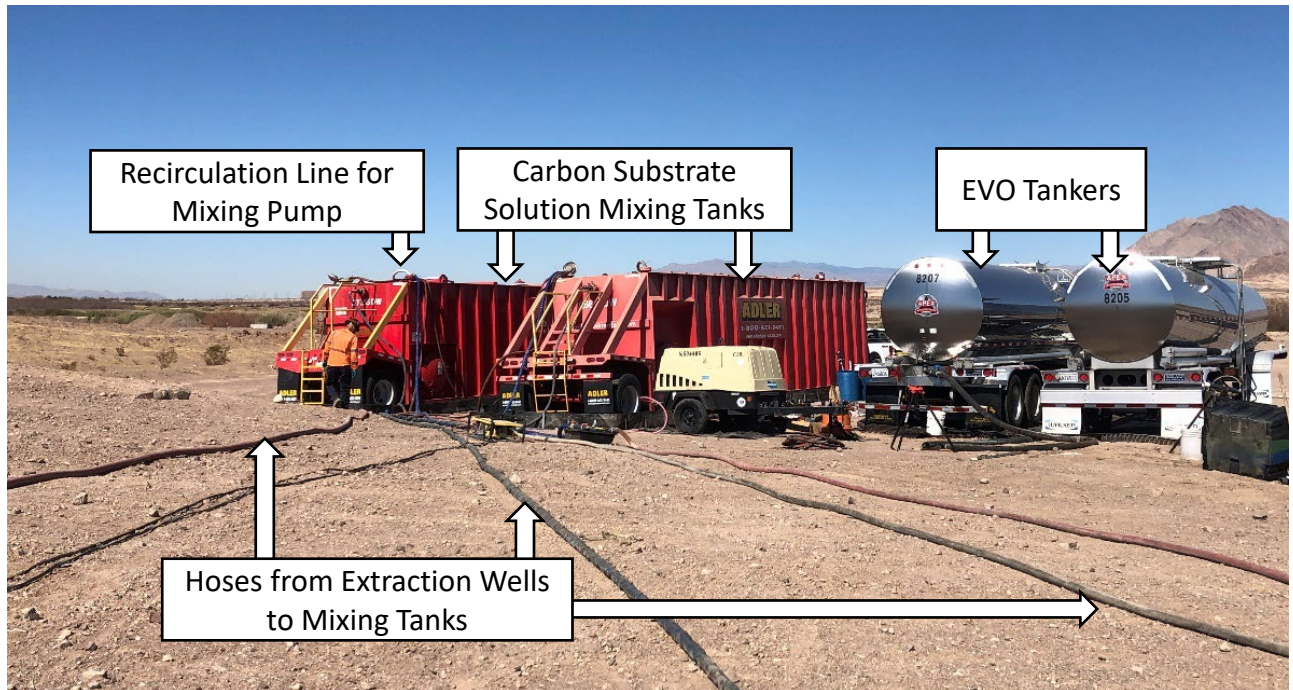
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Manifold B with Secondary Containment Berm and Injection Lines to SWFTS-IW09 and SWFTS-IW10 with Lay Flat Liner (Blue) for Secondary Containment



Extracted Groundwater Pumped via Extraction Lines to Mixing Tanks before Addition of EVO and Amendments (View to the Northwest)



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Collecting Temperature and Specific Gravity Measurements of Carbon Substrate Solution (EVO, Extracted Groundwater, and Amendments) to Confirm Batch is Properly Mixed Prior to Injection



Left: Collecting EVO Sample from Tanker for Batch Standard Measurement;
Right: Tank Level Measurement Setup to Confirm Batch Quantities during Batch Mixing



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