

# TECHNICAL MEMORANDUM

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**To:** Nevada Environmental Response Trust

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

**From:** Dana Grady

**Date:** October 24, 2019

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

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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 July through September 2019 toward successfully implementing the Seep Well Field (SWF) Area Bioremediation Treatability Study as modified by Treatability/Pilot Study Modification No. 6.

## Task Progress Update: July – September 2019

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

- Task Leader – Dana Grady/Dan Pastor
- Current Status
  - As presented in Treatability/Pilot Study Modification No. 6, the ongoing efforts related to the SWF Area Bioremediation Treatability Study primarily focus on refinement of O&M techniques associated with long term implementation of ISB in the vicinity of the SWF and LVW.
  - O&M of SWFTS
    - Injection well performance continues to be evaluated as part of the extended treatability study. The following summarizes the activities associated with injection well performance that were conducted during this reporting period. For reference, Figure 1 provides a map of the injection and monitoring well locations and includes the baseline groundwater potentiometric surface.
    - Video logging of all injection wells was performed in July 2019 to supplement the injection well evaluation process. In addition to video logging, visual inspection and preliminary testing by University of Nevada, Las Vegas (UNLV) of the injection well water and suspended solids was also performed to provide initial information with regards to the material within the injection wells and well screens. This evaluation indicated that material present within the SWF injection wells and well screens is likely comprised of inorganic and organic masses

and/or precipitates, which either settled at the bottom of the injection wells or floated in the well casing itself due to biological respiration and gas production.

- A technical memorandum was submitted on September 16, 2019 summarizing the initial observations of injection well conditions following the fourth injection event (including results of the video logging and initial UNLV analysis) and proposed well maintenance activities to be conducted prior to the upcoming fifth injection event. As described in the Proposed Injection Well Maintenance Activities Technical Memorandum, the following activities were performed in September 2019:
  - Groundwater samples were collected from injection wells SWFTS-IW02A, SWFTS-IW06A, SWFTS-IW13B, and SWFTS-IW19 to facilitate a more detailed analysis of the chemical composition of its constituents.
  - Short duration, low-rate specific capacity tests were performed on September 18 – 20, 2019 at each injection well prior to well rehabilitation activities. The results of these pre-maintenance tests will be compared with similar specific capacity testing conducted after well rehabilitation to evaluate redevelopment effectiveness and will be reported in the next quarterly report.
  - Injection well maintenance activities (including surge and bail, hydrojetting, and hydrojetting with chemical addition) were performed on nine injection wells from September 20 – 27, 2019. Details surrounding the maintenance activities will be reported in the next quarterly report.
  - Post-maintenance specific capacity testing began on September 24, 2019 and is ongoing. Details surrounding this testing will be reported in the next quarterly report.

- Performance of SWFTS

- Results of the July and August 2019 groundwater sampling events (approximately 20 weeks and 26 weeks following the fourth injection event, respectively) are summarized below. Well construction details and a summary of the groundwater analytical results for perchlorate, chlorate, nitrate, total organic carbon (TOC), and dissolved oxygen through August 2019 are provided in Tables 1 and 2, respectively.
- Effectiveness monitoring results continue to indicate that perchlorate concentrations remain at levels significantly below their respective baseline concentrations following the fourth injection event. During the July and August 2019 sampling events, groundwater samples from ten monitoring wells observed a greater than 75% reduction in perchlorate concentrations when compared to baseline concentrations. Groundwater samples collected from two downgradient wells (PC-91 and SWFTS-MW20) contained the lowest perchlorate concentrations measured to date (Table 2). In addition, groundwater samples collected from three downgradient wells (SWFTS-MW10A, SWFTS-MW18, SWFTS-MW22) contained the lowest perchlorate concentrations achieved following the fourth injection event. Other noteworthy findings are described below:
- Groundwater samples collected from monitoring wells between the injection well transects continue to indicate perchlorate concentration decreases, including concentrations in groundwater samples from monitoring wells SWFTS-MW14 and SWFTS-MW16 at less than or equal to 19 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in all samples collected during July and August 2019. Groundwater samples from SWFTS-MW02 and SWFTS-MW15 continued to show decreases in perchlorate concentrations when compared to baseline, with the lowest concentrations to date at each well measured prior

to the fourth injection event. Following the fourth injection event, however, perchlorate concentrations in groundwater samples collected from these two wells slightly increased, but still remained significantly below baseline. Perchlorate concentrations in groundwater from SWFTS-MW02 continue to be greater than 80 percent below baseline levels (similar patterns are also observed for chloride and nitrate), which indicate strong biological activity. Groundwater from monitoring well SWFTS-MW15 has taken the longest to respond to the addition of EVO and only showed notable perchlorate reduction after the third injection event, which may be due to preferential flow pathways for carbon substrate migration, heterogeneity of the subsurface creating a potential dead zone, perchlorate upflux from the UMCF, and/or paleochannel effects. Although perchlorate concentrations in groundwater at SWFTS-MW15 did appear to rebound after the fourth injection event, perchlorate concentrations have steadily decreased during the last four effectiveness monitoring events. Results from this monitoring well will continue to be evaluated during this extended study.

- Groundwater samples collected from monitoring wells downgradient of the injection well transects also continue to indicate perchlorate concentration decreases similar to those observed following the first and third injection events, with nearly all downgradient monitoring wells showing at least a 50% reduction and ten different monitoring wells showing greater than 75% reduction after the fourth injection event.
  - Chloride concentrations in groundwater follow decreasing trends similar to perchlorate, with samples from 12 downgradient monitoring wells exhibiting greater than 90% reduction in chloride concentrations in groundwater when compared to the baseline sampling event. Chloride concentrations in groundwater were less than 100 µg/L at 9 of the 20 downgradient locations during the July and August 2019 sampling events. Although chloride concentrations in groundwater remain significantly lower compared to baseline, recent concentrations indicate a very slight increasing trend during the July and August sampling events at 6 monitoring wells (including PC-94, SWFTS-MW03, SWFTS-MW09A, SWFTS-MW21, SWFTS-MW24, and SWFTS-MW25), which may be an early indication for additional carbon substrate replenishment.
  - Nitrate concentrations in groundwater were also evaluated since it is the most likely 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. Groundwater from several downgradient monitoring wells continued to contain low nitrate concentrations, with samples from eight monitoring wells having nitrate concentrations less than 2 mg/L during the July and August 2019 sampling events.
- Schedule and Progress Updates
    - This task remains on schedule.
    - A short-term water injection test will be performed in early October prior to the fifth carbon substrate injection event in accordance with the Proposed Injection Well Maintenance Activities technical memorandum.
    - The fifth carbon substrate injection event is planned for October 2019, with the next effectiveness monitoring groundwater sampling event planned for late October 2019.
    - Results of the testing and well maintenance activities as well as the conclusions and recommendations for future well maintenance will be summarized in the forthcoming annual progress report.

- **Health and Safety**
  - There were no safety incidents related to Task M11 during the reporting period from July through September 2019.

## CERTIFICATION

### Seep Well Field Area Bioremediation Treatability Study Quarterly Progress Report

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

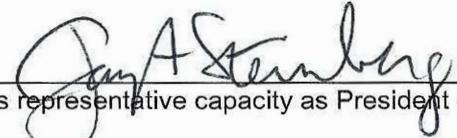
#### **Nevada Environmental Response Trust (NERT) Representative Certification**

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 system(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

Not Individually, but Solely  
as President of the Trustee

**Signature:**  \_\_\_\_\_, 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:** 10/24/19

## CERTIFICATION

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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.

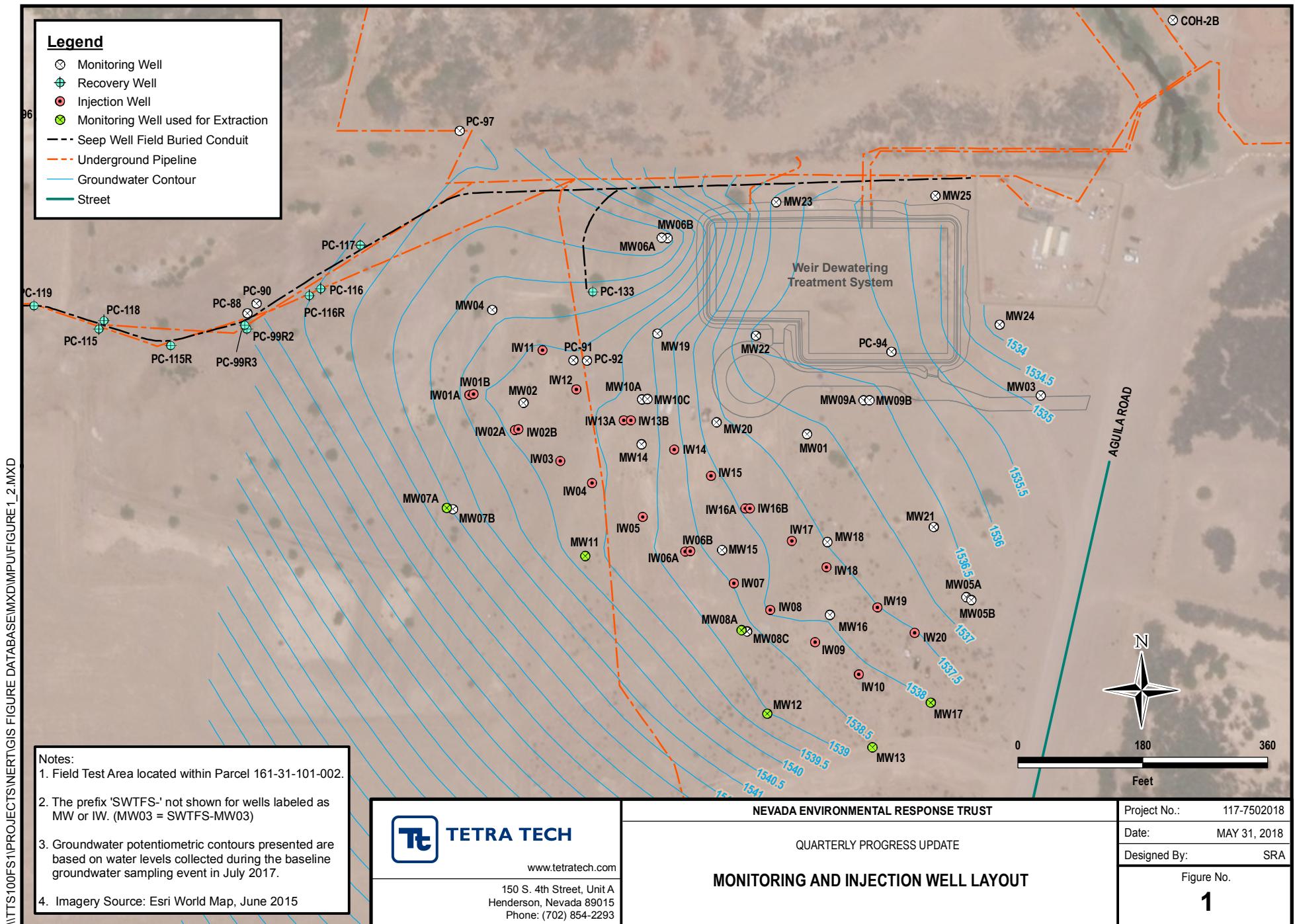
October 24, 2019

Date

Nevada CEM Certificate Number: 2167  
Nevada CEM Expiration Date: September 18, 2020

# Figures

# DRAFT



## Tables

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**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 <sup>1</sup> | 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            | feet bgs             | feet bgs         | feet bgs         | feet bgs      |
| <b>Pre-Design Soil Boring and Monitoring Well Installation (February-March 2017)</b> |                    |             |           |                          |                         |                             |                       |           |                       |               |                   |                      |                  |                  |               |
| 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          |
| <b>Injection and Monitoring Well Network Installation (May-July 2017)</b>            |                    |             |           |                          |                         |                             |                       |           |                       |               |                   |                      |                  |                  |               |
| 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          |

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**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 <sup>1</sup> | 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            | feet bgs             | feet bgs         | feet bgs         | feet bgs      |
| <b>SWFTS-IW08</b>           | 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          |
| <b>SWFTS-IW09</b>           | 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          |
| <b>SWFTS-IW10</b>           | 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          |
| <b>SWFTS-IW11</b>           | 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          |
| <b>SWFTS-IW12</b>           | 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          |
| <b>SWFTS-IW13A</b>          | 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          |
| <b>SWFTS-IW13B</b>          | 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          |
| <b>SWFTS-IW14</b>           | 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          |
| <b>SWFTS-IW15</b>           | 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          |
| <b>SWFTS-IW16A</b>          | 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          |
| <b>SWFTS-IW16B</b>          | 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          |
| <b>SWFTS-IW17</b>           | 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          |
| <b>SWFTS-IW18</b>           | 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          |
| <b>SWFTS-IW19</b>           | 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          |
| <b>SWFTS-IW20</b>           | 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          |
| <b>SWFTS-MW11</b>           | 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          |
| <b>SWFTS-MW12</b>           | 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          |
| <b>SWFTS-MW13</b>           | 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          |
| <b>SWFTS-MW14</b>           | 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          |
| <b>SWFTS-MW15</b>           | 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          |
| <b>SWFTS-MW16</b>           | 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          |
| <b>SWFTS-MW17</b>           | 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          |
| <b>SWFTS-MW18</b>           | 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          |
| <b>SWFTS-MW19</b>           | 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          |
| <b>SWFTS-MW20</b>           | 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          |
| <b>SWFTS-MW21</b>           | 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          |
| <b>SWFTS-MW22</b>           | 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          |
| <b>SWFTS-MW23</b>           | 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          |
| <b>SWFTS-MW24</b>           | 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          |
| <b>SWFTS-MW25</b>           | 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.

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|---------------------|-------------|----------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>COH-2B1</b>      | 9/22/2017   | SWFTS-COH-2B1-EM01   | N       | EM01  | 1,700                                  | 1,600                                | 0.53 J                                    | 2.7                                   | 1.19                                    |
| <b>COH-2B1</b>      | 10/5/2017   | SWFTS-COH-2B1-EM03   | N       | EM03  | 1,800                                  | 1,400                                | 0.60                                      | 2.6                                   | 0.14                                    |
| <b>COH-2B1</b>      | 10/12/2017  | SWFTS-COH-2B1-EM04   | N       | EM04  | 1,800                                  | 1,600                                | 0.58                                      | 2.3                                   | 7.92                                    |
| <b>COH-2B1</b>      | 10/26/2017  | SWFTS-COH-2B1-EM05   | N       | EM05  | 1,900                                  | 1,400                                | 0.42 J                                    | 2.6                                   | 0.40                                    |
| <b>COH-2B1</b>      | 12/14/2017  | COH-2B1-EM07         | N       | EM07  | 1,700                                  | 5,000                                | 0.40                                      | 2.6                                   | -0.06 E                                 |
| <b>COH-2B1</b>      | 2/22/2018   | COH-2B1-EM08         | N       | EM08  | 1,500                                  | 1,400                                | 0.57 J                                    | 2.9                                   | 0.34                                    |
| <b>COH-2B1</b>      | 3/29/2018   | COH-2B1-EM09         | N       | EM09  | 1,800                                  | 1,200                                | <0.55                                     | 2.3                                   | 0.41                                    |
| <b>COH-2B1</b>      | 5/2/2018    | COH-2B1-EM10         | N       | EM10  | 1,700                                  | 1,200                                | 0.45                                      | 11                                    | 0.00                                    |
| <b>COH-2B1</b>      | 7/10/2018   | COH-2B1-EM11         | N       | EM11  | 3,000                                  | 2,400                                | 1.4                                       | 1.9                                   | 0.47                                    |
| <b>COH-2B1</b>      | 8/16/2018   | COH-2B1-EM13         | N       | EM13  | 1,500                                  | 980                                  | 0.53 J                                    | 2.6                                   | 0.50                                    |
| <b>COH-2B1</b>      | 9/11/2018   | COH-2B1-EM14         | N       | EM14  | 2,800                                  | 3,800                                | 1.5                                       | 1.9                                   | 2.18                                    |
| <b>COH-2B1</b>      | 10/11/2018  | COH-2B1-EM15         | N       | EM15  | 1,700                                  | 1,000                                | 0.54 J                                    | 2.7                                   | 2.79                                    |
| <b>COH-2B1</b>      | 1/3/2019    | COH-2B1-EM16         | N       | EM16  | 3,200                                  | 3,800                                | 2.5                                       | 2.0                                   | 0.97                                    |
| <b>COH-2B1</b>      | 2/25/2019   | COH-2B1-EM17         | N       | EM17  | 3,300                                  | 4,100                                | 2.1                                       | 2.2                                   | 0.00                                    |
| <b>COH-2B1</b>      | 4/9/2019    | COH-2B1-EM18         | N       | EM18  | 1,800                                  | 570                                  | 0.65 J-                                   | 2.5                                   | 0.56                                    |
| <b>COH-2B1</b>      | 5/22/2019   | COH-2B1-EM19         | N       | EM19  | 1,700                                  | 520                                  | 0.57                                      | 2.4                                   | 0.12                                    |
| <b>COH-2B1</b>      | 7/1/2019    | COH-2B1-EM20         | N       | EM20  | 1,800                                  | 680                                  | 0.59                                      | 2.7                                   | 0.37                                    |
| <b>COH-2B1</b>      | 8/15/2019   | COH-2B1-EM21         | N       | EM21  | 1,900                                  | 660                                  | 0.68                                      | 2.7                                   | 0.43                                    |
| <b>LWVPS-MW101A</b> | 7/12/2018   | LWVPS-MW101A-EM11    | N       | EM11  | 6,300                                  | 25,000                               | 15                                        | 0.82 J                                | 2.10                                    |
| <b>LWVPS-MW104</b>  | 7/12/2018   | LWVPS-MW104-EM11     | N       | EM11  | 4,900                                  | 35,000                               | 10                                        | 1.1                                   | 1.92                                    |
| <b>LWVPS-MW104</b>  | 8/15/2018   | LWVPS-MW104-EM13     | N       | EM13  | 4,600                                  | 36,000                               | 10                                        | 1.5                                   | 3.79                                    |
| <b>LWVPS-MW104</b>  | 9/13/2018   | LWVPS-MW104-EM14     | N       | EM14  | 4,200                                  | 36,000                               | 11                                        | 1.4                                   | 2.84                                    |
| <b>LWVPS-MW104</b>  | 10/10/2018  | LWVPS-MW104-EM15     | N       | EM15  | 4,800                                  | 37,000                               | 11                                        | 1.8                                   | 4.3                                     |
| <b>LWVPS-MW107A</b> | 7/12/2018   | LWVPS-MW107A-EM11    | N       | EM11  | 4,700                                  | 9,000                                | 6.1                                       | 0.90 J                                | 4.00                                    |
| <b>LWVPS-MW108A</b> | 7/12/2018   | LWVPS-MW108A-EM11    | N       | EM11  | 7,200                                  | 17,000                               | 7.2                                       | 1.3                                   | 3.86                                    |
| <b>LWVPS-MW108A</b> | 7/12/2018   | LWVPS-MW108A-EM11-FD | FD      | EM11  | 7,300                                  | 17,000                               | 7.2                                       | 1.3                                   | ---                                     |
| <b>LWVPS-MW108A</b> | 8/15/2018   | LWVPS-MW108A-EM13    | N       | EM13  | 5,700                                  | 11,000                               | 6.2                                       | 1.9                                   | 2.73                                    |
| <b>LWVPS-MW108A</b> | 9/13/2018   | LWVPS-MW108A-EM14    | N       | EM14  | 4,800                                  | 9,200                                | 6.1 J+                                    | 1.6                                   | 3.08                                    |
| <b>LWVPS-MW108A</b> | 10/10/2018  | LWVPS-MW108A-EM15    | N       | EM15  | 5,300                                  | 9,800                                | 5.5                                       | 1.9                                   | 2.96                                    |
| <b>LWVPS-MW109</b>  | 7/12/2018   | LWVPS-MW109-EM11     | N       | EM11  | 6,100                                  | 25,000                               | 8.9                                       | 1.2                                   | 0.40                                    |
| <b>LWVPS-MW109</b>  | 8/15/2018   | LWVPS-MW109-EM13     | N       | EM13  | 4,800                                  | 16,000                               | 7.9                                       | 1.9                                   | 2.30                                    |
| <b>LWVPS-MW109</b>  | 9/13/2018   | LWVPS-MW109-EM14     | N       | EM14  | 4,500                                  | 9,200                                | 6.7 J+                                    | 1.3                                   | 0.59                                    |

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Seep Well Field Area Bioremediation Treatability Study

| Well                | Sample Date | Sample ID           | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|---------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>LVWPS-MW109</b>  | 10/10/2018  | LVWPS-MW109-EM15    | N       | EM15  | 4,400                                  | 7,300                                | 6.9                                       | 1.9                                   | 2.71                                    |
| <b>LVWPS-MW111A</b> | 7/12/2018   | LVWPS-MW111A-EM11   | N       | EM11  | 9,100                                  | 28,000                               | 7.2                                       | 1.8                                   | 3.34                                    |
| <b>LVWPS-MW111A</b> | 8/15/2018   | LVWPS-MW111A-EM13   | N       | EM13  | 7,800                                  | 30,000                               | 7.9                                       | 2.0                                   | 2.23                                    |
| <b>LVWPS-MW111A</b> | 9/13/2018   | LVWPS-MW111A-EM14   | N       | EM14  | 6,500                                  | 30,000                               | 8.1 J+                                    | 1.4                                   | 0.35                                    |
| <b>LVWPS-MW111A</b> | 10/10/2018  | LVWPS-MW111A-EM15   | N       | EM15  | 7,100                                  | 28,000                               | 8.4                                       | 1.8                                   | 0.95                                    |
| <b>LVWPS-MW112A</b> | 7/12/2018   | LVWPS-MW112A-EM11   | N       | EM11  | 5,200                                  | 28,000                               | 10                                        | 1.5                                   | 0.89                                    |
| <b>LVWPS-MW112A</b> | 10/10/2018  | LVWPS-MW112A-EM15   | N       | EM15  | 4,700                                  | 24,000                               | 10                                        | 1.7                                   | 1.91                                    |
| <b>PC-58</b>        | 10/11/2017  | SWFTS-PC-58-EM04    | N       | EM04  | 1,800                                  | 11,000                               | 9.0                                       | 3.2                                   | 3.40                                    |
| <b>PC-58</b>        | 11/16/2017  | SWFTS-PC-58-EM06    | N       | EM06  | 2,100                                  | 16,000                               | 10                                        | 2.9                                   | 0.65                                    |
| <b>PC-58</b>        | 12/14/2017  | PC-58-EM07          | N       | EM07  | 3,100                                  | 24,000                               | 12                                        | 2.9                                   | 0.29                                    |
| <b>PC-58</b>        | 2/21/2018   | PC-58-EM08          | N       | EM08  | 3,700                                  | 35,000                               | 12                                        | 5.4                                   | 2.49                                    |
| <b>PC-58</b>        | 3/28/2018   | PC-58-EM09-EM09     | N       | EM09  | 1,400                                  | 12,000                               | 9.8                                       | 2.7                                   | 4.31                                    |
| <b>PC-58</b>        | 5/2/2018    | PC-58-EM10          | N       | EM10  | 1,200                                  | 10,000                               | 9.9                                       | 2.7                                   | 0.71                                    |
| <b>PC-58</b>        | 7/11/2018   | PC-58-EM11          | N       | EM11  | 1,100                                  | 9,800                                | 10                                        | 2.6                                   | 1.17                                    |
| <b>PC-58</b>        | 8/15/2018   | PC-58-EM13          | N       | EM13  | 1,300                                  | 13,000                               | 10                                        | 3.1                                   | 0.38                                    |
| <b>PC-58</b>        | 9/13/2018   | PC-58-EM14          | N       | EM14  | 1,500                                  | 22,000                               | 14                                        | 2.5                                   | 2.74                                    |
| <b>PC-58</b>        | 10/11/2018  | PC-58-EM15          | N       | EM15  | 1,300                                  | 13,000                               | 12                                        | 3.5                                   | 0                                       |
| <b>PC-58</b>        | 1/3/2019    | PC-58-EM16          | N       | EM16  | 980                                    | 8,000                                | 10                                        | 3.5                                   | 0.83                                    |
| <b>PC-58</b>        | 3/1/2019    | PC-58-EM17          | N       | EM17  | 1,700 J+                               | 13,000                               | 12                                        | 2.8                                   | 0.41                                    |
| <b>PC-58</b>        | 4/9/2019    | PC-58-EM18          | N       | EM18  | 1,400                                  | 11,000                               | 9.1 J-                                    | 2.6                                   | 3.68                                    |
| <b>PC-58</b>        | 5/22/2019   | PC-58-EM19          | N       | EM19  | 1,600                                  | 12,000                               | 11                                        | 2.9                                   | 1.68                                    |
| <b>PC-58</b>        | 7/5/2019    | PC-58-EM20          | N       | EM20  | 1,600                                  | 13,000                               | 11                                        | 3.9                                   | 0.43                                    |
| <b>PC-58</b>        | 8/15/2019   | PC-58-EM21          | N       | EM21  | 1,500                                  | 10,000                               | 12                                        | 3.7                                   | 0.47                                    |
| <b>PC-88</b>        | 9/22/2017   | SWFTS-PC-88-EM01    | N       | EM01  | 15,000                                 | 6,900                                | 4.8                                       | 2.7                                   | 4.15                                    |
| <b>PC-88</b>        | 9/28/2017   | SWFTS-PC-88-EM02    | N       | EM02  | 14,000 J+                              | 6,300                                | 5.8                                       | 2.8                                   | 1.13                                    |
| <b>PC-88</b>        | 10/4/2017   | SWFTS-PC-88-EM03    | N       | EM03  | 15,000                                 | 6,100                                | 5.1                                       | 2.6                                   | 0.21                                    |
| <b>PC-88</b>        | 10/11/2017  | SWFTS-PC-88-EM04    | N       | EM04  | 15,000                                 | 6,200                                | 4.6                                       | 2.5                                   | 0.37                                    |
| <b>PC-88</b>        | 10/11/2017  | SWFTS-PC-88-EM04-FD | FD      | EM04  | 15,000                                 | 6,000                                | 4.6                                       | 2.6                                   | ---                                     |
| <b>PC-88</b>        | 10/25/2017  | SWFTS-PC-88-EM05    | N       | EM05  | 15,000                                 | 5,400                                | 5.0                                       | 2.8                                   | 0.37                                    |
| <b>PC-88</b>        | 11/15/2017  | PC-88-EM06          | N       | EM06  | 15,000                                 | 5,700                                | 4.5                                       | 2.8                                   | 0.46                                    |
| <b>PC-88</b>        | 11/15/2017  | PC-88-EM06-FD       | FD      | EM06  | 16,000                                 | 5,700                                | 4.6                                       | 2.9                                   | ---                                     |
| <b>PC-88</b>        | 12/14/2017  | PC-88-EM07          | N       | EM07  | 19,000                                 | 20,000                               | 9.9                                       | 2.7                                   | 0.68                                    |

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| Well  | Sample Date | Sample ID        | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------|-------------|------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| PC-88 | 2/22/2018   | PC-88-EM08       | N       | EM08  | 6,700                                  | 14,000                               | 12                                        | 3.0                                   | 0.29                                    |
| PC-88 | 3/29/2018   | PC-88-EM09       | N       | EM09  | 9,100                                  | 20,000                               | 13                                        | 2.2                                   | 0.45                                    |
| PC-88 | 5/2/2018    | PC-88-EM10       | N       | EM10  | 7,100                                  | 11,000                               | 11                                        | 2.3                                   | 0.50                                    |
| PC-88 | 5/2/2018    | PC-88-EM10-FD    | FD      | EM10  | 6,600                                  | 11,000                               | 12                                        | 2.5                                   | ---                                     |
| PC-88 | 7/12/2018   | PC-88-EM11       | N       | EM11  | 16,000                                 | 12,000                               | 7.8                                       | 2.4                                   | 0.89                                    |
| PC-88 | 7/12/2018   | PC-88-EM11-FD    | FD      | EM11  | 16,000                                 | 12,000                               | 7.6                                       | 2.3                                   | ---                                     |
| PC-88 | 8/16/2018   | PC-88-EM13       | N       | EM13  | 10,000                                 | 6,700                                | 6.0                                       | 2.9                                   | 3.31                                    |
| PC-88 | 8/16/2018   | PC-88-EM13-FD    | FD      | EM13  | 11,000                                 | 6,800                                | 6.0                                       | 2.9                                   | ---                                     |
| PC-88 | 9/12/2018   | PC-88-EM14       | N       | EM14  | 19,000                                 | 13,000                               | 6.7                                       | 2.6                                   | 2.28                                    |
| PC-88 | 9/12/2018   | PC-88-EM14-FD    | FD      | EM14  | 19,000                                 | 13,000                               | 6.7                                       | 2.4                                   | ---                                     |
| PC-88 | 10/11/2018  | PC-88-EM15       | N       | EM15  | 15,000                                 | 15,000                               | 6.3 J-                                    | 2.7                                   | 0                                       |
| PC-88 | 10/11/2018  | PC-88-EM15-FD    | FD      | EM15  | 15,000                                 | 15,000                               | 7.5                                       | 2.7                                   | ---                                     |
| PC-88 | 1/3/2019    | PC-88-EM16       | N       | EM16  | 12,000                                 | 9,900                                | 7.5                                       | 2.7                                   | 0.93                                    |
| PC-88 | 1/3/2019    | PC-88-EM16-FD    | FD      | EM16  | 12,000                                 | 9,900                                | 7.5                                       | 2.8                                   | ---                                     |
| PC-88 | 2/28/2019   | PC-88-EM17       | N       | EM17  | 9,300                                  | 5,700                                | 4.4                                       | 2.9                                   | 0.35                                    |
| PC-88 | 2/28/2019   | PC-88-EM17-FD    | FD      | EM17  | 9,100                                  | 5,700                                | 4.4                                       | 3.1                                   | ---                                     |
| PC-88 | 4/9/2019    | PC-88-EM18       | N       | EM18  | 12,000                                 | 11,000                               | 5.1 J-                                    | 2.6                                   | 0.54                                    |
| PC-88 | 4/9/2019    | PC-88-EM18-FD    | FD      | EM18  | 13,000                                 | 10,000                               | 5.0 J-                                    | 2.7                                   | ---                                     |
| PC-88 | 5/22/2019   | PC-88-EM19       | N       | EM19  | 10,000                                 | 6,200                                | 4.9                                       | 2.6                                   | 0.05                                    |
| PC-88 | 5/22/2019   | PC-88-EM19-FD    | FD      | EM19  | 10,000                                 | 6,400                                | 5.0                                       | 2.5                                   | ---                                     |
| PC-88 | 7/5/2019    | PC-88-EM20       | N       | EM20  | 8,800                                  | 5,100                                | 3.4                                       | 3.2                                   | 0.39                                    |
| PC-88 | 7/5/2019    | PC-88-EM20-FD    | FD      | EM20  | 10,000                                 | 5,000                                | 3.4                                       | 3.2                                   | ---                                     |
| PC-88 | 8/15/2019   | PC-88-EM21       | N       | EM21  | 9,700                                  | 3,300                                | 2.8                                       | 3.0                                   | 0.39                                    |
| PC-88 | 8/15/2019   | PC-88-EM21-FD    | FD      | EM21  | 9,900                                  | 3,300                                | 3.1                                       | 3.0                                   | ---                                     |
| PC-91 | 9/21/2017   | SWFTS-PC-91-EM01 | N       | EM01  | 1,600                                  | 820                                  | 0.50 J                                    | 2.3                                   | 0.47                                    |
| PC-91 | 9/27/2017   | SWFTS-PC-91-EM02 | N       | EM02  | 1,700                                  | 810                                  | 0.57                                      | 2.8                                   | 0.72                                    |
| PC-91 | 10/4/2017   | SWFTS-PC-91-EM03 | N       | EM03  | 1,300                                  | 590                                  | 0.58                                      | 2.9                                   | 0.19                                    |
| PC-91 | 10/12/2017  | SWFTS-PC-91-EM04 | N       | EM04  | 960                                    | 440                                  | 0.35                                      | 2.5                                   | 0.38 E                                  |
| PC-91 | 10/25/2017  | SWFTS-PC-91-EM05 | N       | EM05  | 750                                    | 370                                  | 0.62                                      | 2.7                                   | 0.55                                    |
| PC-91 | 11/16/2017  | SWFTS-PC-91-EM06 | N       | EM06  | 700                                    | 610                                  | 0.65 J-                                   | 2.8                                   | 0.82                                    |
| PC-91 | 12/13/2017  | PC-91-EM07       | N       | EM07  | 770                                    | 520                                  | 0.38                                      | 2.5                                   | 0.37                                    |
| PC-91 | 2/20/2018   | PC-91-EM08       | N       | EM08  | 900                                    | 1,100                                | 0.88 J                                    | 2.8                                   | 0.82                                    |

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|-------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| PC-91 | 3/26/2018   | PC-91-EM09          | N       | EM09  | 930                                    | 1,200                                | 0.78                                      | 2.5                                   | 1.02                                    |
| PC-91 | 5/1/2018    | PC-91-EM10          | N       | EM10  | 860                                    | 260                                  | 0.56                                      | 2.4                                   | 0.64                                    |
| PC-91 | 7/11/2018   | PC-91-EM11          | N       | EM11  | 190                                    | <5.0                                 | <0.28                                     | 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                                     | 2.6                                   | 3.12                                    |
| PC-91 | 10/10/2018  | PC-91-EM15          | N       | EM15  | 460                                    | 80                                   | <0.55                                     | 3.1                                   | 0                                       |
| PC-91 | 12/20/2018  | PC-91-EM16          | N       | EM16  | 220                                    | 47 J                                 | <0.11                                     | 3.2                                   | 0.68                                    |
| PC-91 | 2/26/2019   | PC-91-EM17          | N       | EM17  | 67                                     | <10                                  | <0.55                                     | 3.8                                   | 0.47                                    |
| PC-91 | 4/10/2019   | PC-91-EM18          | N       | EM18  | 190                                    | 38 J                                 | <0.55                                     | 4.5                                   | 1.41                                    |
| PC-91 | 5/21/2019   | PC-91-EM19          | N       | EM19  | 120                                    | 56                                   | 0.81                                      | 3.6                                   | 0.05                                    |
| PC-91 | 7/1/2019    | PC-91-EM20          | N       | EM20  | 120                                    | 52                                   | <0.28                                     | 3.8                                   | 0.42                                    |
| PC-91 | 8/12/2019   | PC-91-EM21          | N       | EM21  | 39 J-                                  | 14 J                                 | <0.28                                     | 3.6                                   | 0.44                                    |
| PC-92 | 9/21/2017   | SWFTS-PC-92-EM01    | N       | EM01  | 3,100                                  | 7,700                                | 1.7                                       | 2.6                                   | 0.41                                    |
| PC-92 | 9/27/2017   | SWFTS-PC-92-EM02    | N       | EM02  | 3,500                                  | 6,800                                | 1.7                                       | 2.8                                   | 0.45                                    |
| PC-92 | 10/4/2017   | SWFTS-PC-92-EM03    | N       | EM03  | 3,700                                  | 7,100                                | 2.6                                       | 2.8                                   | 0.12                                    |
| PC-92 | 10/12/2017  | SWFTS-PC-92-EM04    | N       | EM04  | 3,700                                  | 7,300                                | 2.1                                       | 2.8                                   | 9.88 E                                  |
| PC-92 | 10/12/2017  | SWFTS-PC-92-EM04-FD | FD      | EM04  | 3,700                                  | 6,700                                | 2.0                                       | 2.6                                   | ---                                     |
| PC-92 | 10/25/2017  | SWFTS-PC-92-EM05    | N       | EM05  | 4,000                                  | 6,900                                | 2.3                                       | 2.9                                   | 0.30                                    |
| PC-92 | 11/16/2017  | SWFTS-PC-92-EM06    | N       | EM06  | 2,100                                  | 1,300                                | 1.6                                       | 3.2                                   | 0.42                                    |
| PC-92 | 11/16/2017  | SWFTS-PC-92-EM06-FD | FD      | EM06  | 2,100                                  | 1,300                                | 1.1                                       | 3.3                                   | ---                                     |
| PC-92 | 12/14/2017  | PC-92-EM07          | N       | EM07  | 3,300                                  | 4,600                                | 2.1                                       | 3.0                                   | 3.78                                    |
| PC-92 | 12/14/2017  | PC-92-EM07-FD       | FD      | EM07  | 3,300                                  | 4,800                                | 1.8                                       | 3.0                                   | ---                                     |
| PC-92 | 2/20/2018   | PC-92-EM08          | N       | EM08  | 4,900                                  | 7,700                                | 2.7                                       | 3.2                                   | 4.60                                    |
| PC-92 | 2/20/2018   | PC-92-EM08-FD       | FD      | EM08  | 5,000                                  | 7,400                                | 2.7                                       | 3.2                                   | ---                                     |
| PC-92 | 3/26/2018   | PC-92-EM09          | N       | EM09  | 7,900                                  | 19,000                               | 4.5                                       | 2.5                                   | 0.51                                    |
| PC-92 | 3/26/2018   | PC-92-EM09-FD       | FD      | EM09  | 8,000                                  | 18,000                               | 4.5                                       | 2.5                                   | ---                                     |
| PC-92 | 5/1/2018    | PC-92-EM10          | N       | EM10  | 9,200                                  | 22,000                               | 5.6                                       | 2.4                                   | 0.70                                    |
| PC-92 | 7/11/2018   | PC-92-EM11          | N       | EM11  | 7,300                                  | 17,000                               | 4.2                                       | 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                                       | 3.0                                   | 0.98                                    |
| PC-92 | 9/12/2018   | PC-92-EM14          | N       | EM14  | 4,100                                  | 12,000                               | 2.6                                       | 2.6                                   | 2.95                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| PC-92 | 10/11/2018  | PC-92-EM15          | N       | EM15  | 4,200                                  | 12,000                               | 3.4                                       | 2.9                                   | 0                                       |
| PC-92 | 12/20/2018  | PC-92-EM16          | N       | EM16  | 3,500                                  | 13,000                               | 2.6                                       | 3.1                                   | 0.72                                    |
| PC-92 | 2/26/2019   | PC-92-EM17          | N       | EM17  | 2,700                                  | 13,000                               | 1.5                                       | 2.7                                   | 0.56                                    |
| PC-92 | 4/10/2019   | PC-92-EM18          | N       | EM18  | 3,100                                  | 8,200                                | 2.2                                       | 2.7                                   | 0.84                                    |
| PC-92 | 5/21/2019   | PC-92-EM19          | N       | EM19  | 2,500                                  | 6,000                                | 1.5                                       | 2.3                                   | 0.09                                    |
| PC-92 | 7/1/2019    | PC-92-EM20          | N       | EM20  | 3,100                                  | 7,000                                | 1.8                                       | 3.4                                   | 0.42                                    |
| PC-92 | 8/12/2019   | PC-92-EM21          | N       | EM21  | 2,800                                  | 3,500                                | 1.1                                       | 3.3                                   | 0.41                                    |
| PC-94 | 9/20/2017   | SWFTS-PC-94-EM01    | N       | EM01  | 2,300                                  | 3,800                                | 0.58 J                                    | 34                                    | 0.15                                    |
| PC-94 | 9/26/2017   | SWFTS-PC-94-EM02    | N       | EM02  | 2,000                                  | 3,700                                | <1.1                                      | 37                                    | 0.19                                    |
| PC-94 | 10/5/2017   | SWFTS-PC-94-EM03    | N       | EM03  | 1,700                                  | 3,600                                | 1.3 J                                     | 5.2                                   | 0.13                                    |
| PC-94 | 10/11/2017  | SWFTS-PC-94-EM04    | N       | EM04  | 970                                    | 2,900                                | 0.78 J                                    | 3.9                                   | 0.55                                    |
| PC-94 | 10/26/2017  | SWFTS-PC-94-EM05    | N       | EM05  | 540                                    | 1,300                                | 1.4                                       | 3.1                                   | 3.80                                    |
| PC-94 | 11/16/2017  | PC-94-EM06          | N       | EM06  | 1,500                                  | 1,300                                | 0.57 J                                    | 2.2                                   | 0.50                                    |
| PC-94 | 12/12/2017  | PC-94-EM07          | N       | EM07  | 4,300                                  | 9,300                                | 0.68                                      | 2.1                                   | 0.19                                    |
| PC-94 | 2/21/2018   | PC-94-EM08          | N       | EM08  | 7,200                                  | 19,000                               | 4.9                                       | 2.1                                   | 3.75                                    |
| PC-94 | 3/27/2018   | PC-94-EM09          | N       | EM09  | 6,400                                  | 16,000                               | 4.8                                       | 1.9                                   | 2.07                                    |
| PC-94 | 5/1/2018    | PC-94-EM10          | N       | EM10  | 6,700                                  | 18,000                               | 6.3                                       | 1.5                                   | 0.00                                    |
| PC-94 | 7/10/2018   | PC-94-EM11          | N       | EM11  | 4,200                                  | 7,200                                | 5.6                                       | 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                                       | 2.2                                   | 1.53                                    |
| PC-94 | 9/11/2018   | PC-94-EM14          | N       | EM14  | 3,500                                  | 6,200                                | 5.2                                       | 1.7                                   | 1.67                                    |
| PC-94 | 10/11/2018  | PC-94-EM15          | N       | EM15  | 3,900                                  | 10,000                               | 8.2                                       | 1.9                                   | 0                                       |
| PC-94 | 12/28/2018  | PC-94-EM16          | N       | EM16  | 3,200                                  | 9,000                                | 8.3                                       | 1.7                                   | 4.54                                    |
| PC-94 | 2/27/2019   | PC-94-EM17          | N       | EM17  | 3,100                                  | 6,700                                | 6.4                                       | 1.8                                   | 0.74                                    |
| PC-94 | 4/11/2019   | PC-94-EM18          | N       | EM18  | 3,000                                  | 5,600                                | 5.2                                       | 1.8                                   | 1.43                                    |
| PC-94 | 5/22/2019   | PC-94-EM19          | N       | EM19  | 3,600                                  | 11,000                               | 7.6                                       | 1.7                                   | 0.05                                    |
| PC-94 | 7/5/2019    | PC-94-EM20          | N       | EM20  | 4,100                                  | 16,000                               | 8.2                                       | 2.9                                   | 4.35                                    |
| PC-94 | 8/12/2019   | PC-94-EM21          | N       | EM21  | 4,600                                  | 16,000                               | 7.8                                       | 2.0                                   | 1.19                                    |
| PC-97 | 9/22/2017   | SWFTS-PC-97-EM01    | N       | EM01  | 2,900                                  | 360                                  | 2.1                                       | 3.0                                   | 0.39                                    |
| PC-97 | 9/22/2017   | SWFTS-PC-97-EM01-FD | FD      | EM01  | 2,900                                  | 340                                  | 2.2                                       | 3.0                                   | ---                                     |
| PC-97 | 9/28/2017   | SWFTS-PC-97-EM02    | N       | EM02  | 2,600                                  | 370                                  | 2.1                                       | 3.6                                   | 4.28                                    |
| PC-97 | 9/28/2017   | SWFTS-PC-97-EM02-FD | FD      | EM02  | 2,700                                  | 380                                  | 2.0                                       | 3.6                                   | ---                                     |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| PC-97       | 10/4/2017   | SWFTS-PC-97-EM03    | N       | EM03  | 2,900                                  | 460                                  | 2.6                                       | 2.7                                   | 0.19                                    |
| PC-97       | 10/4/2017   | SWFTS-PC-97-EM03-FD | FD      | EM03  | 2,900                                  | 410                                  | 2.3                                       | 2.8                                   | ---                                     |
| PC-97       | 10/11/2017  | SWFTS-PC-97-EM04    | N       | EM04  | 2,500                                  | 400                                  | 2.5                                       | 2.7                                   | 0.48                                    |
| PC-97       | 10/11/2017  | SWFTS-PC-97-EM04-FD | FD      | EM04  | 2,700                                  | 390                                  | 2.3                                       | 2.8                                   | ---                                     |
| PC-97       | 10/25/2017  | SWFTS-PC-97-EM05    | N       | EM05  | 3,400                                  | 390                                  | 2.9                                       | 2.8                                   | 0.39                                    |
| PC-97       | 10/25/2017  | SWFTS-PC-97-EM05-FD | FD      | EM05  | 3,300                                  | 410                                  | 2.9                                       | 2.9                                   | ---                                     |
| PC-97       | 11/16/2017  | SWFTS-PC-97-EM06    | N       | EM06  | 1,600                                  | 190                                  | 1.8                                       | 3.2                                   | 0.48                                    |
| PC-97       | 12/13/2017  | PC-97-EM07          | N       | EM07  | 2,600                                  | 320                                  | 1.6                                       | 3.0                                   | 0.79                                    |
| PC-97       | 12/13/2017  | PC-97-EM07-FD       | FD      | EM07  | 3,000                                  | 320                                  | 1.9                                       | 3.0                                   | ---                                     |
| PC-97       | 2/21/2018   | PC-97-EM08          | N       | EM08  | 1,500                                  | 77                                   | 0.56                                      | 3.3                                   | 2.47                                    |
| PC-97       | 3/27/2018   | PC-97-EM09          | N       | EM09  | 900                                    | <10                                  | 0.19                                      | 3.3                                   | 1.68                                    |
| PC-97       | 5/1/2018    | PC-97-EM10          | N       | EM10  | 820                                    | <5.0                                 | 0.088 J                                   | 3.2                                   | 2.10                                    |
| PC-97       | 7/10/2018   | PC-97-EM11          | N       | EM11  | 1,700                                  | 91                                   | 0.32                                      | 3.0                                   | 3.45                                    |
| PC-97       | 8/16/2018   | PC-97-EM13          | N       | EM13  | 1,100                                  | 85                                   | 0.38 J+                                   | 3.4                                   | 2.94                                    |
| PC-97       | 9/12/2018   | PC-97-EM14          | N       | EM14  | 2,400                                  | 210                                  | 0.82                                      | 3.0                                   | 1.74                                    |
| PC-97       | 10/11/2018  | PC-97-EM15          | N       | EM15  | 1,700                                  | 160                                  | 0.71                                      | 3.4                                   | 0.71                                    |
| PC-97       | 1/3/2019    | PC-97-EM16          | N       | EM16  | 1,500                                  | 64                                   | 0.33                                      | 3.2                                   | 1.07                                    |
| PC-97       | 2/28/2019   | PC-97-EM17          | N       | EM17  | 1,300                                  | 80                                   | 0.71                                      | 3.5                                   | 0.44                                    |
| PC-97       | 4/9/2019    | PC-97-EM18          | N       | EM18  | 1,600                                  | 150                                  | 0.71 J-                                   | 3.0                                   | 0.53                                    |
| PC-97       | 5/22/2019   | PC-97-EM19          | N       | EM19  | 2,300                                  | 280                                  | 1.8                                       | 3.1                                   | 0.07                                    |
| PC-97       | 7/5/2019    | PC-97-EM20          | N       | EM20  | 2,800                                  | 360                                  | 1.9                                       | 3.7                                   | 0.41                                    |
| PC-97       | 8/14/2019   | PC-97-EM21          | N       | EM21  | 3,100                                  | 330                                  | 1.7                                       | 3.3                                   | 0.39                                    |
| 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 | 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 | 11/14/2017  | SWFTS-IW02A-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 3,900 J-                              | ---                                     |
| SWFTS-IW02B | 11/14/2017  | SWFTS-IW02B-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 3,100 J-                              | ---                                     |
| SWFTS-IW03  | 12/11/2017  | SWFTS-IW03-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 340 J-                                | ---                                     |
| SWFTS-IW04  | 12/11/2017  | SWFTS-IW04-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 4,600 J-                              | ---                                     |
| SWFTS-IW05  | 12/11/2017  | SWFTS-IW05-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 3,700 J-                              | ---                                     |
| SWFTS-IW06A | 11/14/2017  | SWFTS-IW06A-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 440 J-                                | ---                                     |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-IW06A</b> | 11/15/2017  | SWFTS-IW06A-EM06    | N       | EM06  | 230                                    | ---                                  | <0.55                                     | 630                                   | 0.16                                    |
| <b>SWFTS-IW06B</b> | 11/14/2017  | SWFTS-IW06B-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 600 J-                                | ---                                     |
| <b>SWFTS-IW06B</b> | 11/15/2017  | SWFTS-IW06B-EM06    | N       | EM06  | 20                                     | ---                                  | <0.55                                     | 660                                   | 0.36                                    |
| <b>SWFTS-IW07</b>  | 12/11/2017  | SWFTS-IW07-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 5,600 J-                              | ---                                     |
| <b>SWFTS-IW08</b>  | 12/11/2017  | SWFTS-IW08-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 6,700 J-                              | ---                                     |
| <b>SWFTS-IW09</b>  | 12/11/2017  | SWFTS-IW09-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 290 J-                                | ---                                     |
| <b>SWFTS-IW10</b>  | 12/11/2017  | SWFTS-IW10-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 290 J-                                | ---                                     |
| <b>SWFTS-IW11</b>  | 12/11/2017  | SWFTS-IW11-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 1,000 J-                              | ---                                     |
| <b>SWFTS-IW12</b>  | 12/11/2017  | SWFTS-IW12-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 2,700 J-                              | ---                                     |
| <b>SWFTS-IW13A</b> | 11/14/2017  | SWFTS-IW13A-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 3,700 J-                              | ---                                     |
| <b>SWFTS-IW13B</b> | 11/14/2017  | SWFTS-IW13B-EM06B   | N       | EM06  | ---                                    | ---                                  | ---                                       | 1,100 J-                              | ---                                     |
| <b>SWFTS-IW14</b>  | 11/14/2017  | SWFTS-IW14-EM06B    | N       | EM06  | ---                                    | ---                                  | ---                                       | 4,600                                 | ---                                     |
| <b>SWFTS-IW14</b>  | 11/14/2017  | SWFTS-IW14-EM06B-FD | FD      | EM06  | ---                                    | ---                                  | ---                                       | 4,500 J-                              | ---                                     |
| <b>SWFTS-IW15</b>  | 12/11/2017  | SWFTS-IW15-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 1,300 J-                              | ---                                     |
| <b>SWFTS-IW15</b>  | 12/11/2017  | SWFTS-IW15-EM07-FD  | FD      | EM07  | ---                                    | ---                                  | ---                                       | 1,300 J-                              | ---                                     |
| <b>SWFTS-IW16A</b> | 12/11/2017  | SWFTS-IW16A-EM07    | N       | EM07  | ---                                    | ---                                  | ---                                       | 2,800 J-                              | ---                                     |
| <b>SWFTS-IW16B</b> | 12/11/2017  | SWFTS-IW16B-EM07    | N       | EM07  | ---                                    | ---                                  | ---                                       | 940 J-                                | ---                                     |
| <b>SWFTS-IW17</b>  | 11/14/2017  | SWFTS-IW17-EM06B    | N       | EM06  | ---                                    | ---                                  | ---                                       | 6,500 J-                              | ---                                     |
| <b>SWFTS-IW17</b>  | 11/15/2017  | SWFTS-IW17-EM06     | N       | EM06  | <19                                    | ---                                  | <1.1                                      | 7,500                                 | 0.36                                    |
| <b>SWFTS-IW18</b>  | 11/14/2017  | SWFTS-IW18-EM06B    | N       | EM06  | ---                                    | ---                                  | ---                                       | 1.8                                   | ---                                     |
| <b>SWFTS-IW19</b>  | 12/11/2017  | SWFTS-IW19-EM07     | N       | EM07  | ---                                    | ---                                  | ---                                       | 4,100 J-                              | ---                                     |
| <b>SWFTS-IW20</b>  | 11/14/2017  | SWFTS-IW20-EM06B    | N       | EM06  | ---                                    | ---                                  | ---                                       | 6,500 J-                              | ---                                     |
| <b>SWFTS-MW01</b>  | 9/19/2017   | SWFTS-MW01-EM01     | N       | EM01  | 2,100                                  | 39,000                               | <0.55                                     | 11                                    | 1.38                                    |
| <b>SWFTS-MW01</b>  | 9/26/2017   | SWFTS-MW01-EM02     | N       | EM02  | 4,300                                  | 10,000                               | 1.4 J                                     | 4.3                                   | 0.23                                    |
| <b>SWFTS-MW01</b>  | 10/4/2017   | SWFTS-MW01-EM03     | N       | EM03  | 5,000                                  | 13,000                               | 3.3                                       | 2.5                                   | 0.20                                    |
| <b>SWFTS-MW01</b>  | 10/10/2017  | SWFTS-MW01-EM04     | N       | EM04  | 5,600                                  | 15,000                               | 3.3                                       | 2.2                                   | 0.47                                    |
| <b>SWFTS-MW01</b>  | 10/25/2017  | SWFTS-MW01-EM05     | N       | EM05  | 15,000                                 | 18,000                               | 5.1                                       | 2.1                                   | 0.89                                    |
| <b>SWFTS-MW01</b>  | 11/15/2017  | SWFTS-MW01-EM06     | N       | EM06  | 7,900                                  | 22,000                               | 4.9                                       | 1.9                                   | 0.81                                    |
| <b>SWFTS-MW01</b>  | 12/14/2017  | SWFTS-MW01-EM07     | N       | EM07  | 8,000                                  | 24,000                               | 5.3                                       | 1.9                                   | 0.20                                    |
| <b>SWFTS-MW01</b>  | 2/20/2018   | SWFTS-MW01-EM08     | N       | EM08  | 3,900                                  | 12,000                               | 3.4                                       | 2.7                                   | 2.85                                    |
| <b>SWFTS-MW01</b>  | 3/27/2018   | SWFTS-MW01-EM09     | N       | EM09  | 6,900                                  | 26,000                               | 5.3                                       | 1.9                                   | 2.42                                    |
| <b>SWFTS-MW01</b>  | 4/30/2018   | SWFTS-MW01-EM10     | N       | EM10  | 9,400                                  | 36,000                               | 8.9                                       | 1.4                                   | 0.15                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW01</b> | 7/10/2018   | SWFTS-MW01-EM11    | N       | EM11  | 3,100                                  | 6,900                                | 1.4                                       | 2.4                                   | 0.04                                    |
| <b>SWFTS-MW01</b> | 7/27/2018   | SWFTS-MW01-EM12    | N       | EM12  | 5,500                                  | 28,000                               | ---                                       | ---                                   | 0.29                                    |
| <b>SWFTS-MW01</b> | 7/27/2018   | SWFTS-MW01-EM12-FD | FD      | EM12  | 5,500                                  | 28,000                               | ---                                       | ---                                   | ---                                     |
| <b>SWFTS-MW01</b> | 8/16/2018   | SWFTS-MW01-EM13    | N       | EM13  | 6,100                                  | 34,000                               | 6.4                                       | 2.0                                   | 0.80                                    |
| <b>SWFTS-MW01</b> | 9/10/2018   | SWFTS-MW01-EM14    | N       | EM14  | 6,300                                  | 34,000                               | 8.4                                       | 1.9                                   | 6.07                                    |
| <b>SWFTS-MW01</b> | 10/9/2018   | SWFTS-MW01-EM15    | N       | EM15  | 4,700 J                                | 24,000                               | 7.1                                       | 2.1                                   | 0.09                                    |
| <b>SWFTS-MW01</b> | 12/27/2018  | SWFTS-MW01-EM16    | N       | EM16  | 4,300                                  | 7,400                                | 9.9                                       | 1.8                                   | 0.51                                    |
| <b>SWFTS-MW01</b> | 2/26/2019   | SWFTS-MW01-EM17    | N       | EM17  | 1,300                                  | <10                                  | 1.7                                       | 2.6                                   | 0.50                                    |
| <b>SWFTS-MW01</b> | 4/10/2019   | SWFTS-MW01-EM18    | N       | EM18  | 3,800                                  | <10                                  | 5.2                                       | 1.9                                   | 0.59                                    |
| <b>SWFTS-MW01</b> | 5/21/2019   | SWFTS-MW01-EM19    | N       | EM19  | 4,100                                  | <10                                  | 6.4                                       | 1.6                                   | 0.75                                    |
| <b>SWFTS-MW01</b> | 7/1/2019    | SWFTS-MW01-EM20    | N       | EM20  | 4,100                                  | <10                                  | 5.4                                       | 2.1                                   | 0.29                                    |
| <b>SWFTS-MW01</b> | 8/12/2019   | SWFTS-MW01-EM21    | N       | EM21  | 3,800                                  | <10                                  | 3.9                                       | 1.9                                   | 0.36                                    |
| <b>SWFTS-MW02</b> | 9/21/2017   | SWFTS-MW02-EM01    | N       | EM01  | 23,000                                 | 52,000                               | 8.5                                       | 2.1                                   | 0.16                                    |
| <b>SWFTS-MW02</b> | 9/27/2017   | SWFTS-MW02-EM02    | N       | EM02  | 23,000                                 | 47,000                               | 9.4                                       | 2.2                                   | 0.14                                    |
| <b>SWFTS-MW02</b> | 10/4/2017   | SWFTS-MW02-EM03    | N       | EM03  | 22,000                                 | 45,000                               | 8.7                                       | 2.0                                   | 1.76                                    |
| <b>SWFTS-MW02</b> | 10/12/2017  | SWFTS-MW02-EM04    | N       | EM04  | 20,000                                 | 23,000                               | 6.2                                       | 2.3                                   | 0.25                                    |
| <b>SWFTS-MW02</b> | 10/26/2017  | SWFTS-MW02-EM05    | N       | EM05  | 21,000                                 | 34,000                               | 4.6 J-                                    | 2.5                                   | 2.11                                    |
| <b>SWFTS-MW02</b> | 11/14/2017  | SWFTS-MW02-EM06    | N       | EM06  | 17,000                                 | 32,000                               | 6.5                                       | 2.5                                   | 0.90                                    |
| <b>SWFTS-MW02</b> | 12/13/2017  | SWFTS-MW02-EM07    | N       | EM07  | 19,000                                 | 38,000                               | 6.7                                       | 2.1                                   | 0.01                                    |
| <b>SWFTS-MW02</b> | 2/19/2018   | SWFTS-MW02-EM08    | N       | EM08  | 14,000                                 | 28,000                               | 4.7                                       | 2.5                                   | 2.59                                    |
| <b>SWFTS-MW02</b> | 3/27/2018   | SWFTS-MW02-EM09    | N       | EM09  | 4,400                                  | 7,400                                | 0.80                                      | 2.5                                   | 1.76                                    |
| <b>SWFTS-MW02</b> | 4/30/2018   | SWFTS-MW02-EM10    | N       | EM10  | 4,600                                  | 6,100                                | 0.95 J                                    | 2.3                                   | 1.59                                    |
| <b>SWFTS-MW02</b> | 7/11/2018   | SWFTS-MW02-EM11    | N       | EM11  | 3,700                                  | 5,100                                | 1.7                                       | 1.9                                   | 1.86                                    |
| <b>SWFTS-MW02</b> | 7/27/2018   | SWFTS-MW02-EM12    | N       | EM12  | 2,100                                  | 3,900                                | ---                                       | ---                                   | 0.24                                    |
| <b>SWFTS-MW02</b> | 8/15/2018   | SWFTS-MW02-EM13    | N       | EM13  | 1,700                                  | 2,600                                | 0.74 J                                    | 2.5                                   | 2.35                                    |
| <b>SWFTS-MW02</b> | 9/10/2018   | SWFTS-MW02-EM14    | N       | EM14  | 1,300                                  | 2,500                                | <0.55                                     | 2.5                                   | 5.31                                    |
| <b>SWFTS-MW02</b> | 10/10/2018  | SWFTS-MW02-EM15    | N       | EM15  | 1,400                                  | 950                                  | <1.1                                      | 3.0                                   | 0                                       |
| <b>SWFTS-MW02</b> | 12/20/2018  | SWFTS-MW02-EM16    | N       | EM16  | 620                                    | 77 J                                 | <0.55                                     | 2.4                                   | 2.95                                    |
| <b>SWFTS-MW02</b> | 2/25/2019   | SWFTS-MW02-EM17    | N       | EM17  | 740                                    | 32 J                                 | <1.1                                      | 2.5                                   | 0.33                                    |
| <b>SWFTS-MW02</b> | 4/9/2019    | SWFTS-MW02-EM18    | N       | EM18  | 1,300                                  | 82 J                                 | <1.1 UJ                                   | 2.1                                   | 0.40                                    |
| <b>SWFTS-MW02</b> | 5/21/2019   | SWFTS-MW02-EM19    | N       | EM19  | 3,200                                  | 50 J                                 | <1.1                                      | 2.3                                   | 6.97                                    |
| <b>SWFTS-MW02</b> | 7/2/2019    | SWFTS-MW02-EM20    | N       | EM20  | 4,200                                  | <4.0                                 | <0.55                                     | 2.5                                   | 0.34                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW02</b> | 8/14/2019   | SWFTS-MW02-EM21    | N       | EM21  | 3,900                                  | <20                                  | <0.28                                     | 2.4                                   | 0.36                                    |
| <b>SWFTS-MW03</b> | 9/21/2017   | SWFTS-MW03-EM01    | N       | EM01  | <4.8                                   | <100                                 | <0.55                                     | 4.2                                   | 0.19                                    |
| <b>SWFTS-MW03</b> | 9/27/2017   | SWFTS-MW03-EM02    | N       | EM02  | 4.8                                    | <100                                 | <0.55                                     | 3.0                                   | 0.11                                    |
| <b>SWFTS-MW03</b> | 10/4/2017   | SWFTS-MW03-EM03    | N       | EM03  | <0.95                                  | <50                                  | <0.55                                     | 2.3                                   | 1.02                                    |
| <b>SWFTS-MW03</b> | 10/12/2017  | SWFTS-MW03-EM04    | N       | EM04  | 21                                     | <100                                 | <0.55                                     | 2.0                                   | 0.14                                    |
| <b>SWFTS-MW03</b> | 10/26/2017  | SWFTS-MW03-EM05    | N       | EM05  | 990                                    | 3,200                                | 0.73 J                                    | 2.1                                   | 1.59                                    |
| <b>SWFTS-MW03</b> | 11/16/2017  | SWFTS-MW03-EM06    | N       | EM06  | 3,200                                  | 15,000                               | 3.2                                       | 1.7                                   | 0.64                                    |
| <b>SWFTS-MW03</b> | 12/12/2017  | SWFTS-MW03-EM07    | N       | EM07  | 3,700                                  | 22,000                               | 4.3                                       | 1.8                                   | 2.21                                    |
| <b>SWFTS-MW03</b> | 2/21/2018   | SWFTS-MW03-EM08    | N       | EM08  | 3,400                                  | 33,000                               | 4.2                                       | 1.7                                   | 0.30                                    |
| <b>SWFTS-MW03</b> | 3/27/2018   | SWFTS-MW03-EM09    | N       | EM09  | 4,200                                  | 27,000                               | 6.4                                       | 1.5                                   | 0.62                                    |
| <b>SWFTS-MW03</b> | 5/2/2018    | SWFTS-MW03-EM10    | N       | EM10  | 4,300                                  | 30,000                               | 7.9                                       | 1.4                                   | 0.45                                    |
| <b>SWFTS-MW03</b> | 7/10/2018   | SWFTS-MW03-EM11    | N       | EM11  | 1,300                                  | 3,000                                | 1.3                                       | 2.3                                   | 0.79                                    |
| <b>SWFTS-MW03</b> | 7/27/2018   | SWFTS-MW03-EM12    | N       | EM12  | 1,900 J+                               | 1,800                                | ---                                       | ---                                   | 0.23                                    |
| <b>SWFTS-MW03</b> | 8/15/2018   | SWFTS-MW03-EM13    | N       | EM13  | 1,900                                  | 280 J                                | 3.6                                       | 1.9                                   | 0.48                                    |
| <b>SWFTS-MW03</b> | 9/11/2018   | SWFTS-MW03-EM14    | N       | EM14  | 2,200                                  | <10                                  | 4.9                                       | 1.5                                   | 1.84                                    |
| <b>SWFTS-MW03</b> | 10/9/2018   | SWFTS-MW03-EM15    | N       | EM15  | 2,200                                  | <20                                  | 5.9                                       | 2.0                                   | 0                                       |
| <b>SWFTS-MW03</b> | 1/2/2019    | SWFTS-MW03-EM16    | N       | EM16  | 2,500                                  | <10                                  | 7.7                                       | 1.8                                   | 0.8                                     |
| <b>SWFTS-MW03</b> | 2/27/2019   | SWFTS-MW03-EM17    | N       | EM17  | 2,700                                  | 27 J                                 | 10                                        | 1.5                                   | 0.95                                    |
| <b>SWFTS-MW03</b> | 4/10/2019   | SWFTS-MW03-EM18    | N       | EM18  | 2,700                                  | 130                                  | 8.4                                       | 1.4                                   | 0.95                                    |
| <b>SWFTS-MW03</b> | 5/21/2019   | SWFTS-MW03-EM19    | N       | EM19  | 2,800                                  | 150                                  | 7.7                                       | 1.4                                   | 0.57                                    |
| <b>SWFTS-MW03</b> | 7/1/2019    | SWFTS-MW03-EM20    | N       | EM20  | 2,800                                  | 550                                  | 8.2                                       | 1.9                                   | 0.34                                    |
| <b>SWFTS-MW03</b> | 8/14/2019   | SWFTS-MW03-EM21    | N       | EM21  | 3,000                                  | 2,700                                | 8.5                                       | 1.8                                   | 0.40                                    |
| <b>SWFTS-MW04</b> | 9/20/2017   | SWFTS-MW04-EM01    | N       | EM01  | 3,600                                  | 4,900                                | 1.3                                       | 2.6                                   | 0.85                                    |
| <b>SWFTS-MW04</b> | 9/20/2017   | SWFTS-MW04-EM01-FD | FD      | EM01  | 3,600                                  | 4,800                                | 1.3                                       | 2.6                                   | ---                                     |
| <b>SWFTS-MW04</b> | 9/27/2017   | SWFTS-MW04-EM02    | N       | EM02  | 3,600                                  | 5,400                                | 1.5                                       | 3.1                                   | 2.73                                    |
| <b>SWFTS-MW04</b> | 9/27/2017   | SWFTS-MW04-EM02-FD | FD      | EM02  | 3,500                                  | 5,400                                | 1.5                                       | 3.1                                   | ---                                     |
| <b>SWFTS-MW04</b> | 10/4/2017   | SWFTS-MW04-EM03    | N       | EM03  | 4,000                                  | 4,700                                | 1.5                                       | 2.7                                   | 0.11                                    |
| <b>SWFTS-MW04</b> | 10/4/2017   | SWFTS-MW04-EM03-FD | FD      | EM03  | 3,900                                  | 4,700                                | 1.9                                       | 2.6                                   | ---                                     |
| <b>SWFTS-MW04</b> | 10/11/2017  | SWFTS-MW04-EM04    | N       | EM04  | 2,900                                  | 3,900                                | 1.3                                       | 2.7                                   | 1.39                                    |
| <b>SWFTS-MW04</b> | 10/24/2017  | SWFTS-MW04-EM05    | N       | EM05  | 3,600                                  | 4,200                                | 1.4                                       | 2.9                                   | 0.28                                    |
| <b>SWFTS-MW04</b> | 10/24/2017  | SWFTS-MW04-EM05-FD | FD      | EM05  | 3,500                                  | 4,200                                | 1.5                                       | 3.0                                   | ---                                     |
| <b>SWFTS-MW04</b> | 11/15/2017  | SWFTS-MW04-EM06    | N       | EM06  | 3,500                                  | 3,400                                | 1.6                                       | 3.0                                   | 0.89                                    |

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**Groundwater Analytical Results**  
Seep Well Field Area Bioremediation Treatability Study

| Well               | Sample Date | Sample ID        | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW04</b>  | 12/14/2017  | SWFTS-MW04-EM07  | N       | EM07  | 4,000                                  | 4,700                                | 1.8                                       | 2.9                                   | 0.45                                    |
| <b>SWFTS-MW04</b>  | 2/21/2018   | SWFTS-MW04-EM08  | N       | EM08  | 5,200                                  | 8,000                                | 2.4                                       | 2.7                                   | 0.37                                    |
| <b>SWFTS-MW04</b>  | 3/27/2018   | SWFTS-MW04-EM09  | N       | EM09  | 6,100                                  | 14,000                               | 3.5                                       | 2.5                                   | 0.43                                    |
| <b>SWFTS-MW04</b>  | 5/1/2018    | SWFTS-MW04-EM10  | N       | EM10  | 4,100                                  | 3,700                                | 1.4                                       | 2.8                                   | 2.80                                    |
| <b>SWFTS-MW04</b>  | 7/10/2018   | SWFTS-MW04-EM11  | N       | EM11  | 6,400                                  | 15,000                               | 4.5                                       | 2.5                                   | 0.00                                    |
| <b>SWFTS-MW04</b>  | 8/16/2018   | SWFTS-MW04-EM13  | N       | EM13  | 3,100                                  | 8,700                                | 1.9 J+                                    | 2.9                                   | 0.91                                    |
| <b>SWFTS-MW04</b>  | 9/12/2018   | SWFTS-MW04-EM14  | N       | EM14  | 4,000                                  | 9,100                                | 2.6                                       | 2.9                                   | 2.64                                    |
| <b>SWFTS-MW04</b>  | 10/11/2018  | SWFTS-MW04-EM15  | N       | EM15  | 3,400                                  | 8,300                                | 2.0                                       | 3.0                                   | 0.84                                    |
| <b>SWFTS-MW04</b>  | 1/3/2019    | SWFTS-MW04-EM16  | N       | EM16  | 3,500                                  | 6,900                                | 1.6                                       | 3.1                                   | 1.11                                    |
| <b>SWFTS-MW04</b>  | 3/1/2019    | SWFTS-MW04-EM17  | N       | EM17  | 3,500 J+                               | 8,900                                | 2.6                                       | 2.9                                   | 0.55                                    |
| <b>SWFTS-MW04</b>  | 4/9/2019    | SWFTS-MW04-EM18  | N       | EM18  | 3,100                                  | 7,500                                | 2.3 J-                                    | 2.8                                   | 0.70                                    |
| <b>SWFTS-MW04</b>  | 5/21/2019   | SWFTS-MW04-EM19  | N       | EM19  | 2,400                                  | 5,300                                | 1.2                                       | 3.0                                   | 0.05                                    |
| <b>SWFTS-MW04</b>  | 7/5/2019    | SWFTS-MW04-EM20  | N       | EM20  | 2,100                                  | 4,000                                | 1.2                                       | 3.7                                   | 0.40                                    |
| <b>SWFTS-MW04</b>  | 8/14/2019   | SWFTS-MW04-EM21  | N       | EM21  | 3,300                                  | 5,400                                | 1.7                                       | 3.4                                   | 0.39                                    |
| <b>SWFTS-MW05A</b> | 9/20/2017   | SWFTS-MW05A-EM01 | N       | EM01  | 5,700                                  | 51,000                               | 17                                        | 1.1                                   | 4.18                                    |
| <b>SWFTS-MW05A</b> | 9/27/2017   | SWFTS-MW05A-EM02 | N       | EM02  | 5,600                                  | 44,000                               | 18                                        | 1.2                                   | 3.30                                    |
| <b>SWFTS-MW05A</b> | 10/3/2017   | SWFTS-MW05A-EM03 | N       | EM03  | 5,800                                  | 46,000                               | 16                                        | 0.80 J                                | 5.46                                    |
| <b>SWFTS-MW05A</b> | 10/10/2017  | SWFTS-MW05A-EM04 | N       | EM04  | 5,600                                  | 44,000                               | 16                                        | 1.3                                   | 3.41                                    |
| <b>SWFTS-MW05A</b> | 10/23/2017  | SWFTS-MW05A-EM05 | N       | EM05  | 4,700                                  | 43,000                               | 15                                        | 1.3                                   | 2.96                                    |
| <b>SWFTS-MW05A</b> | 11/14/2017  | SWFTS-MW05A-EM06 | N       | EM06  | 5,500                                  | 38,000                               | 16                                        | 1.4                                   | 2.27                                    |
| <b>SWFTS-MW05A</b> | 12/13/2017  | SWFTS-MW05A-EM07 | N       | EM07  | 5,300                                  | 43,000                               | 17                                        | 1.3                                   | 2.10                                    |
| <b>SWFTS-MW05A</b> | 2/20/2018   | SWFTS-MW05A-EM08 | N       | EM08  | 6,400                                  | 53,000                               | 18                                        | 1.4                                   | 2.78                                    |
| <b>SWFTS-MW05A</b> | 3/26/2018   | SWFTS-MW05A-EM09 | N       | EM09  | 6,600                                  | 58,000                               | 16                                        | 1.1                                   | 0.99                                    |
| <b>SWFTS-MW05A</b> | 4/30/2018   | SWFTS-MW05A-EM10 | N       | EM10  | 6,400 J                                | 55,000                               | 17                                        | 1.0                                   | 2.16                                    |
| <b>SWFTS-MW05A</b> | 7/11/2018   | SWFTS-MW05A-EM11 | N       | EM11  | 5,200                                  | 46,000                               | 15                                        | 0.87 J                                | 2.65                                    |
| <b>SWFTS-MW05A</b> | 7/27/2018   | SWFTS-MW05A-EM12 | N       | EM12  | 4,300                                  | 41,000                               | ---                                       | ---                                   | 3.46                                    |
| <b>SWFTS-MW05A</b> | 8/14/2018   | SWFTS-MW05A-EM13 | N       | EM13  | 3,600                                  | 35,000                               | 10 J+                                     | 1.5                                   | 0.93                                    |
| <b>SWFTS-MW05A</b> | 9/11/2018   | SWFTS-MW05A-EM14 | N       | EM14  | 3,400                                  | 30,000                               | 9.5                                       | 1.2                                   | 2.59                                    |
| <b>SWFTS-MW05A</b> | 10/10/2018  | SWFTS-MW05A-EM15 | N       | EM15  | 4,200                                  | 34,000                               | 12                                        | 1.3                                   | 2.08                                    |
| <b>SWFTS-MW05A</b> | 12/20/2018  | SWFTS-MW05A-EM16 | N       | EM16  | 5,000                                  | 21,000                               | 16                                        | 1.3                                   | 0.68                                    |
| <b>SWFTS-MW05A</b> | 2/27/2019   | SWFTS-MW05A-EM17 | N       | EM17  | 4,300                                  | 10,000                               | 17                                        | 1.5                                   | 0.51                                    |
| <b>SWFTS-MW05A</b> | 4/10/2019   | SWFTS-MW05A-EM18 | N       | EM18  | 3,100                                  | 56 J                                 | 13                                        | 1.5                                   | 0.70                                    |

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Seep Well Field Area Bioremediation Treatability Study

| Well               | Sample Date | Sample ID        | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW05A</b> | 5/21/2019   | SWFTS-MW05A-EM19 | N       | EM19  | 2,600                                  | 17 J                                 | 13                                        | 1.6                                   | 0.65                                    |
| <b>SWFTS-MW05A</b> | 7/1/2019    | SWFTS-MW05A-EM20 | N       | EM20  | 2,700                                  | <20                                  | 14                                        | 1.7                                   | 0.44                                    |
| <b>SWFTS-MW05A</b> | 8/13/2019   | SWFTS-MW05A-EM21 | N       | EM21  | 3,100                                  | 33 J                                 | 13                                        | 1.9                                   | 0.3                                     |
| <b>SWFTS-MW05B</b> | 9/22/2017   | SWFTS-MW05B-EM01 | N       | EM01  | 190                                    | 300                                  | <0.55                                     | 39                                    | 0.24                                    |
| <b>SWFTS-MW05B</b> | 9/27/2017   | SWFTS-MW05B-EM02 | N       | EM02  | <0.95                                  | <50                                  | <0.55                                     | 57                                    | 0.10                                    |
| <b>SWFTS-MW05B</b> | 10/3/2017   | SWFTS-MW05B-EM03 | N       | EM03  | 8.3                                    | <50                                  | <0.55                                     | 90                                    | 0.10                                    |
| <b>SWFTS-MW05B</b> | 10/10/2017  | SWFTS-MW05B-EM04 | N       | EM04  | <0.95                                  | <100                                 | <0.55                                     | 100                                   | 0.08                                    |
| <b>SWFTS-MW05B</b> | 10/23/2017  | SWFTS-MW05B-EM05 | N       | EM05  | <0.95                                  | <100                                 | <0.55                                     | 68                                    | 0.34                                    |
| <b>SWFTS-MW05B</b> | 11/14/2017  | SWFTS-MW05B-EM06 | N       | EM06  | <0.95                                  | 16 J                                 | <0.55                                     | 3.2                                   | 0.46                                    |
| <b>SWFTS-MW05B</b> | 12/13/2017  | SWFTS-MW05B-EM07 | N       | EM07  | 990                                    | 5,300                                | 0.36 J                                    | 2.3                                   | 0.30                                    |
| <b>SWFTS-MW05B</b> | 2/20/2018   | SWFTS-MW05B-EM08 | N       | EM08  | 2,000                                  | 11,000                               | 4.2                                       | 2.2                                   | 0.34                                    |
| <b>SWFTS-MW05B</b> | 3/26/2018   | SWFTS-MW05B-EM09 | N       | EM09  | 2,600                                  | 18,000                               | 4.6                                       | 1.7                                   | 0.49                                    |
| <b>SWFTS-MW05B</b> | 4/30/2018   | SWFTS-MW05B-EM10 | N       | EM10  | 2,600                                  | 18,000                               | 5.4                                       | 1.9                                   | 0.00                                    |
| <b>SWFTS-MW05B</b> | 7/10/2018   | SWFTS-MW05B-EM11 | N       | EM11  | 190                                    | 1,500                                | 0.66 J-                                   | 2.4                                   | 1.45                                    |
| <b>SWFTS-MW05B</b> | 7/27/2018   | SWFTS-MW05B-EM12 | N       | EM12  | 240                                    | 1,600                                | ---                                       | ---                                   | 4.21                                    |
| <b>SWFTS-MW05B</b> | 8/14/2018   | SWFTS-MW05B-EM13 | N       | EM13  | 420                                    | 2,000                                | <0.55                                     | 2.5                                   | 0.80                                    |
| <b>SWFTS-MW05B</b> | 9/11/2018   | SWFTS-MW05B-EM14 | N       | EM14  | 860                                    | 4,800                                | 1.3                                       | 1.9                                   | 2.37                                    |
| <b>SWFTS-MW05B</b> | 10/9/2018   | SWFTS-MW05B-EM15 | N       | EM15  | 1,400                                  | 8,700                                | 2.5                                       | 2.3                                   | 0                                       |
| <b>SWFTS-MW05B</b> | 12/20/2018  | SWFTS-MW05B-EM16 | N       | EM16  | 2,100                                  | 8,000                                | 4.7                                       | 2.1                                   | 0.62                                    |
| <b>SWFTS-MW05B</b> | 2/27/2019   | SWFTS-MW05B-EM17 | N       | EM17  | 910                                    | 240                                  | 3.8                                       | 2.1                                   | 0.61                                    |
| <b>SWFTS-MW05B</b> | 4/10/2019   | SWFTS-MW05B-EM18 | N       | EM18  | 1,200                                  | 19 J                                 | 3.3                                       | 2.0                                   | 0.63                                    |
| <b>SWFTS-MW05B</b> | 5/21/2019   | SWFTS-MW05B-EM19 | N       | EM19  | 1,200                                  | <4.0                                 | 4.3                                       | 1.9                                   | 0.81                                    |
| <b>SWFTS-MW05B</b> | 7/1/2019    | SWFTS-MW05B-EM20 | N       | EM20  | 1,400                                  | <10                                  | 4.8                                       | 2.4                                   | 0.21                                    |
| <b>SWFTS-MW05B</b> | 8/13/2019   | SWFTS-MW05B-EM21 | N       | EM21  | 1,600                                  | <10                                  | 4.8                                       | 2.3                                   | 0.38                                    |
| <b>SWFTS-MW06A</b> | 9/21/2017   | SWFTS-MW06A-EM01 | N       | EM01  | 2,400                                  | 220                                  | 1.5                                       | 3.0                                   | 0.16                                    |
| <b>SWFTS-MW06A</b> | 9/27/2017   | SWFTS-MW06A-EM02 | N       | EM02  | 2,600                                  | 320                                  | 1.7                                       | 3.3                                   | 0.30                                    |
| <b>SWFTS-MW06A</b> | 10/3/2017   | SWFTS-MW06A-EM03 | N       | EM03  | 2,700                                  | 300                                  | 2.0 J-                                    | 2.8                                   | 0.12                                    |
| <b>SWFTS-MW06A</b> | 10/11/2017  | SWFTS-MW06A-EM04 | N       | EM04  | 5,500                                  | 1,100                                | 1.9                                       | 3.0                                   | 0.37                                    |
| <b>SWFTS-MW06A</b> | 10/23/2017  | SWFTS-MW06A-EM05 | N       | EM05  | 2,300                                  | 350                                  | 1.9                                       | 3.3                                   | 2.52                                    |
| <b>SWFTS-MW06A</b> | 11/16/2017  | SWFTS-MW06A-EM06 | N       | EM06  | 3,300                                  | 380                                  | 2.5                                       | 2.8                                   | 0.42                                    |
| <b>SWFTS-MW06A</b> | 12/13/2017  | SWFTS-MW06A-EM07 | N       | EM07  | 3,600                                  | 520                                  | 2.6                                       | 2.7                                   | 0.17                                    |
| <b>SWFTS-MW06A</b> | 2/22/2018   | SWFTS-MW06A-EM08 | N       | EM08  | 1,800                                  | 200                                  | 0.88                                      | 3.4                                   | 0.37                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW06A</b> | 3/28/2018   | SWFTS-MW06A-EM09    | N       | EM09  | 1,500                                  | 77                                   | 0.36                                      | 3.1                                   | 0.44                                    |
| <b>SWFTS-MW06A</b> | 5/1/2018    | SWFTS-MW06A-EM10    | N       | EM10  | 760 J                                  | 10 J                                 | 0.11                                      | 3.1                                   | 0.27                                    |
| <b>SWFTS-MW06A</b> | 5/1/2018    | SWFTS-MW06A-EM10-FD | FD      | EM10  | 880                                    | 13 J                                 | 0.11                                      | 3.1                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 7/11/2018   | SWFTS-MW06A-EM11    | N       | EM11  | 830                                    | 21                                   | 0.11 J                                    | 2.9                                   | 2.40                                    |
| <b>SWFTS-MW06A</b> | 7/11/2018   | SWFTS-MW06A-EM11-FD | FD      | EM11  | 840                                    | 20                                   | <0.11                                     | 2.9                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 8/14/2018   | SWFTS-MW06A-EM13    | N       | EM13  | 1,500                                  | 96                                   | 0.28                                      | 3.4                                   | 0.69                                    |
| <b>SWFTS-MW06A</b> | 8/14/2018   | SWFTS-MW06A-EM13-FD | FD      | EM13  | 1,500                                  | 95                                   | 0.29                                      | 3.3                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 9/11/2018   | SWFTS-MW06A-EM14    | N       | EM14  | 1,700                                  | 150                                  | 0.42                                      | 3.4                                   | 0.49                                    |
| <b>SWFTS-MW06A</b> | 9/11/2018   | SWFTS-MW06A-EM14-FD | FD      | EM14  | 1,600                                  | 140                                  | 0.43                                      | 3.3                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 10/10/2018  | SWFTS-MW06A-EM15    | N       | EM15  | 2,400                                  | 210                                  | 0.84                                      | 3.5                                   | 0.2                                     |
| <b>SWFTS-MW06A</b> | 10/10/2018  | SWFTS-MW06A-EM15-FD | FD      | EM15  | 2,100                                  | 210                                  | 0.79                                      | 3.6                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 12/28/2018  | SWFTS-MW06A-EM16    | N       | EM16  | 1,700                                  | 760                                  | 0.41                                      | 3.6                                   | 0.98                                    |
| <b>SWFTS-MW06A</b> | 12/28/2018  | SWFTS-MW06A-EM16-FD | FD      | EM16  | 1,600                                  | 760                                  | 0.42                                      | 3.5                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 2/27/2019   | SWFTS-MW06A-EM17    | N       | EM17  | 1,600                                  | 93                                   | 0.42                                      | 3.1                                   | 0.05                                    |
| <b>SWFTS-MW06A</b> | 2/27/2019   | SWFTS-MW06A-EM17-FD | FD      | EM17  | 1,500                                  | 95                                   | 0.43                                      | 3.1                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 4/10/2019   | SWFTS-MW06A-EM18    | N       | EM18  | 1,500                                  | 120                                  | 0.60                                      | 3.4                                   | 0.61                                    |
| <b>SWFTS-MW06A</b> | 4/10/2019   | SWFTS-MW06A-EM18-FD | FD      | EM18  | 1,500                                  | 120                                  | 0.59                                      | 3.3                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 5/20/2019   | SWFTS-MW06A-EM19    | N       | EM19  | 1,800                                  | 170                                  | 1.0                                       | 3.0                                   | 0.09                                    |
| <b>SWFTS-MW06A</b> | 5/20/2019   | SWFTS-MW06A-EM19-FD | FD      | EM19  | 1,800                                  | 160                                  | 0.86                                      | 3.2                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 7/1/2019    | SWFTS-MW06A-EM20    | N       | EM20  | 2,500                                  | 350                                  | 1.3                                       | 3.6                                   | 0.40                                    |
| <b>SWFTS-MW06A</b> | 7/1/2019    | SWFTS-MW06A-EM20-FD | FD      | EM20  | 2,800                                  | 310                                  | 1.2                                       | 3.7                                   | ---                                     |
| <b>SWFTS-MW06A</b> | 8/14/2019   | SWFTS-MW06A-EM21    | N       | EM21  | 3,200                                  | 390                                  | 1.7                                       | 3.7                                   | 0.37                                    |
| <b>SWFTS-MW06A</b> | 8/14/2019   | SWFTS-MW06A-EM21-FD | FD      | EM21  | 3,300                                  | 380                                  | 1.7                                       | 3.2                                   | ---                                     |
| <b>SWFTS-MW06B</b> | 9/21/2017   | SWFTS-MW06B-EM01    | N       | EM01  | 2,000                                  | 350                                  | 0.70                                      | 2.8                                   | 0.18                                    |
| <b>SWFTS-MW06B</b> | 9/27/2017   | SWFTS-MW06B-EM02    | N       | EM02  | 2,000                                  | 360                                  | 0.76                                      | 3.3                                   | 0.78                                    |
| <b>SWFTS-MW06B</b> | 10/3/2017   | SWFTS-MW06B-EM03    | N       | EM03  | 2,500                                  | 340                                  | 1.0                                       | 2.8                                   | 0.11                                    |
| <b>SWFTS-MW06B</b> | 10/11/2017  | SWFTS-MW06B-EM04    | N       | EM04  | 4,400                                  | 380                                  | 1.1                                       | 3.1                                   | 0.45                                    |
| <b>SWFTS-MW06B</b> | 10/23/2017  | SWFTS-MW06B-EM05    | N       | EM05  | 2,000                                  | 390                                  | 1.3                                       | 3.1                                   | 1.14                                    |
| <b>SWFTS-MW06B</b> | 11/16/2017  | SWFTS-MW06B-EM06    | N       | EM06  | 2,800                                  | 400                                  | 1.8                                       | 2.9                                   | 0.44                                    |
| <b>SWFTS-MW06B</b> | 12/13/2017  | SWFTS-MW06B-EM07    | N       | EM07  | 3,200                                  | 590                                  | 2.2                                       | 2.9                                   | 0.91                                    |
| <b>SWFTS-MW06B</b> | 2/22/2018   | SWFTS-MW06B-EM08    | N       | EM08  | 2,900                                  | 480                                  | 1.9                                       | 3.1                                   | 0.47                                    |
| <b>SWFTS-MW06B</b> | 3/28/2018   | SWFTS-MW06B-EM09    | N       | EM09  | 2,500                                  | 370                                  | 1.1                                       | 2.8                                   | 0.59                                    |

**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW06B</b> | 5/1/2018    | SWFTS-MW06B-EM10 | N       | EM10  | 1,800                                  | 270                                  | 0.56                                      | 2.9                                   | 1.31                                    |
| <b>SWFTS-MW06B</b> | 7/11/2018   | SWFTS-MW06B-EM11 | N       | EM11  | 880                                    | 140                                  | 0.18 J                                    | 2.9                                   | 2.05                                    |
| <b>SWFTS-MW06B</b> | 8/14/2018   | SWFTS-MW06B-EM13 | N       | EM13  | 1,200                                  | 170                                  | 0.14                                      | 3.8                                   | 0.57                                    |
| <b>SWFTS-MW06B</b> | 9/11/2018   | SWFTS-MW06B-EM14 | N       | EM14  | 1,700                                  | 230                                  | 0.23                                      | 3.3                                   | 0.71                                    |
| <b>SWFTS-MW06B</b> | 10/10/2018  | SWFTS-MW06B-EM15 | N       | EM15  | 1,700                                  | 260                                  | 0.36 J                                    | 4.1                                   | 0.17                                    |
| <b>SWFTS-MW06B</b> | 12/28/2018  | SWFTS-MW06B-EM16 | N       | EM16  | 1,900                                  | 270                                  | 0.66                                      | 3.1                                   | 0.7                                     |
| <b>SWFTS-MW06B</b> | 2/28/2019   | SWFTS-MW06B-EM17 | N       | EM17  | 1,600                                  | 230                                  | 0.53                                      | 3.2                                   | 0.45                                    |
| <b>SWFTS-MW06B</b> | 4/10/2019   | SWFTS-MW06B-EM18 | N       | EM18  | 1,600                                  | 210                                  | 1.2                                       | 3.4                                   | 0.54                                    |
| <b>SWFTS-MW06B</b> | 5/21/2019   | SWFTS-MW06B-EM19 | N       | EM19  | 1,700                                  | 220                                  | 0.43                                      | 3.7                                   | 0.09                                    |
| <b>SWFTS-MW06B</b> | 7/1/2019    | SWFTS-MW06B-EM20 | N       | EM20  | 2,100                                  | 340                                  | 0.73                                      | 3.6                                   | 0.43                                    |
| <b>SWFTS-MW06B</b> | 8/14/2019   | SWFTS-MW06B-EM21 | N       | EM21  | 2,900                                  | 420                                  | 1.4                                       | 3.2                                   | 0.39                                    |
| <b>SWFTS-MW07A</b> | 9/20/2017   | SWFTS-MW07A-EM01 | N       | EM01  | 14,000                                 | 41,000                               | 11                                        | 2.0                                   | 0.20                                    |
| <b>SWFTS-MW07A</b> | 9/26/2017   | SWFTS-MW07A-EM02 | N       | EM02  | 15,000                                 | 36,000                               | 11                                        | 2.3                                   | 0.49                                    |
| <b>SWFTS-MW07A</b> | 10/3/2017   | SWFTS-MW07A-EM03 | N       | EM03  | 16,000                                 | 37,000                               | 10                                        | 2.1                                   | 0.22                                    |
| <b>SWFTS-MW07A</b> | 10/11/2017  | SWFTS-MW07A-EM04 | N       | EM04  | 12,000                                 | 39,000                               | 12                                        | 2.0                                   | 0.11                                    |
| <b>SWFTS-MW07A</b> | 10/24/2017  | SWFTS-MW07A-EM05 | N       | EM05  | 14,000                                 | 38,000                               | 10                                        | 2.3                                   | 0.43                                    |
| <b>SWFTS-MW07A</b> | 11/15/2017  | SWFTS-MW07A-EM06 | N       | EM06  | 16,000                                 | 40,000                               | 12                                        | 2.1                                   | 0.35                                    |
| <b>SWFTS-MW07A</b> | 12/14/2017  | SWFTS-MW07A-EM07 | N       | EM07  | 14,000                                 | 35,000                               | 11                                        | 2.1                                   | -0.02 E                                 |
| <b>SWFTS-MW07A</b> | 2/19/2018   | SWFTS-MW07A-EM08 | N       | EM08  | 12,000                                 | 36,000                               | 12                                        | 2.2                                   | 0.72                                    |
| <b>SWFTS-MW07A</b> | 3/28/2018   | SWFTS-MW07A-EM09 | N       | EM09  | 11,000                                 | 36,000                               | 12                                        | 1.8                                   | 3.29                                    |
| <b>SWFTS-MW07A</b> | 5/2/2018    | SWFTS-MW07A-EM10 | N       | EM10  | 11,000                                 | 40,000                               | 13                                        | 1.7                                   | 1.02                                    |
| <b>SWFTS-MW07A</b> | 7/11/2018   | SWFTS-MW07A-EM11 | N       | EM11  | 11,000                                 | 44,000                               | 14                                        | 1.6                                   | 1.42                                    |
| <b>SWFTS-MW07A</b> | 8/16/2018   | SWFTS-MW07A-EM13 | N       | EM13  | 8,600                                  | 76,000                               | 15                                        | 2.0                                   | 0.58                                    |
| <b>SWFTS-MW07A</b> | 9/12/2018   | SWFTS-MW07A-EM14 | N       | EM14  | 9,500                                  | 42,000                               | 17                                        | 1.8                                   | 1.30                                    |
| <b>SWFTS-MW07A</b> | 10/10/2018  | SWFTS-MW07A-EM15 | N       | EM15  | 9,300                                  | 40,000                               | 17                                        | 2.1                                   | 0.08                                    |
| <b>SWFTS-MW07A</b> | 1/2/2019    | SWFTS-MW07A-EM16 | N       | EM16  | 8,100                                  | 35,000                               | 15                                        | 1.8                                   | 0.99                                    |
| <b>SWFTS-MW07A</b> | 2/28/2019   | SWFTS-MW07A-EM17 | N       | EM17  | 7,300                                  | 34,000                               | 15                                        | 2.5                                   | 0.62                                    |
| <b>SWFTS-MW07A</b> | 4/12/2019   | SWFTS-MW07A-EM18 | N       | EM18  | 7,600                                  | 36,000                               | 16                                        | 1.7                                   | 0.72                                    |
| <b>SWFTS-MW07A</b> | 5/22/2019   | SWFTS-MW07A-EM19 | N       | EM19  | 6,800                                  | 35,000                               | 15                                        | 1.9                                   | 1.03                                    |
| <b>SWFTS-MW07A</b> | 7/3/2019    | SWFTS-MW07A-EM20 | N       | EM20  | 7,800                                  | 36,000                               | 14                                        | 2.2                                   | 0.41                                    |
| <b>SWFTS-MW07A</b> | 8/15/2019   | SWFTS-MW07A-EM21 | N       | EM21  | 8,500                                  | 38,000                               | 15                                        | 2.1                                   | 0.43                                    |
| <b>SWFTS-MW07B</b> | 9/20/2017   | SWFTS-MW07B-EM01 | N       | EM01  | 10,000                                 | 33,000                               | 9.0                                       | 1.8                                   | 0.35                                    |

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**Groundwater Analytical Results**  
Seep Well Field Area Bioremediation Treatability Study

| Well               | Sample Date | Sample ID           | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW07B</b> | 9/26/2017   | SWFTS-MW07B-EM02    | N       | EM02  | 11,000                                 | 29,000                               | 10                                        | 2.2                                   | 0.60                                    |
| <b>SWFTS-MW07B</b> | 10/3/2017   | SWFTS-MW07B-EM03    | N       | EM03  | 9,400                                  | 28,000                               | 9.9                                       | 1.6                                   | 1.38                                    |
| <b>SWFTS-MW07B</b> | 10/11/2017  | SWFTS-MW07B-EM04    | N       | EM04  | 8,400                                  | 28,000                               | 11                                        | 1.7                                   | 0.13                                    |
| <b>SWFTS-MW07B</b> | 10/24/2017  | SWFTS-MW07B-EM05    | N       | EM05  | 9,300                                  | 29,000                               | 11                                        | 1.2                                   | 0.33                                    |
| <b>SWFTS-MW07B</b> | 11/15/2017  | SWFTS-MW07B-EM06    | N       | EM06  | 9,700                                  | 29,000                               | 12                                        | 2.0                                   | 0.42                                    |
| <b>SWFTS-MW07B</b> | 12/14/2017  | SWFTS-MW07B-EM07    | N       | EM07  | 9,400                                  | 30,000                               | 12                                        | 1.9                                   | -0.09 E                                 |
| <b>SWFTS-MW07B</b> | 2/19/2018   | SWFTS-MW07B-EM08    | N       | EM08  | 9,700                                  | 37,000                               | 14                                        | 2.2                                   | 1.23                                    |
| <b>SWFTS-MW07B</b> | 3/28/2018   | SWFTS-MW07B-EM09    | N       | EM09  | 11,000                                 | 47,000                               | 16                                        | 1.7                                   | 0.30                                    |
| <b>SWFTS-MW07B</b> | 5/2/2018    | SWFTS-MW07B-EM10    | N       | EM10  | 9,100                                  | 34,000                               | 13                                        | 1.9                                   | 4.67                                    |
| <b>SWFTS-MW07B</b> | 7/11/2018   | SWFTS-MW07B-EM11    | N       | EM11  | 8,300                                  | 43,000                               | 16                                        | 1.7                                   | 1.60                                    |
| <b>SWFTS-MW07B</b> | 8/16/2018   | SWFTS-MW07B-EM13    | N       | EM13  | 6,500                                  | 44,000                               | 17                                        | 2.0                                   | 0.49                                    |
| <b>SWFTS-MW07B</b> | 9/12/2018   | SWFTS-MW07B-EM14    | N       | EM14  | 6,200                                  | 31,000                               | 17                                        | 1.8                                   | 1.69                                    |
| <b>SWFTS-MW07B</b> | 10/10/2018  | SWFTS-MW07B-EM15    | N       | EM15  | 5,700                                  | 28,000                               | 16                                        | 1.8                                   | 0.09                                    |
| <b>SWFTS-MW07B</b> | 1/3/2019    | SWFTS-MW07B-EM16    | N       | EM16  | 6,100                                  | 32,000                               | 13                                        | 1.6                                   | 1.35                                    |
| <b>SWFTS-MW07B</b> | 2/28/2019   | SWFTS-MW07B-EM17    | N       | EM17  | 6,700                                  | 40,000                               | 15                                        | 2.3                                   | 0.40                                    |
| <b>SWFTS-MW07B</b> | 4/12/2019   | SWFTS-MW07B-EM18    | N       | EM18  | 7,500                                  | 39,000                               | 14                                        | 1.6                                   | 0.52                                    |
| <b>SWFTS-MW07B</b> | 5/22/2019   | SWFTS-MW07B-EM19    | N       | EM19  | 7,600                                  | 37,000                               | 14                                        | 1.4                                   | 0.87                                    |
| <b>SWFTS-MW07B</b> | 7/3/2019    | SWFTS-MW07B-EM20    | N       | EM20  | 6,500                                  | 30,000                               | 13                                        | 2.1                                   | 0.47                                    |
| <b>SWFTS-MW07B</b> | 8/15/2019   | SWFTS-MW07B-EM21    | N       | EM21  | 7,200                                  | 33,000                               | 13                                        | 2.0                                   | 0.42                                    |
| <b>SWFTS-MW08A</b> | 9/20/2017   | SWFTS-MW08A-EM01    | N       | EM01  | 10,000                                 | 47,000                               | 12                                        | 1.4                                   | 0.41                                    |
| <b>SWFTS-MW08A</b> | 9/20/2017   | SWFTS-MW08A-EM01-FD | FD      | EM01  | 10,000                                 | 46,000                               | 13                                        | 1.4                                   | ---                                     |
| <b>SWFTS-MW08A</b> | 9/26/2017   | SWFTS-MW08A-EM02    | N       | EM02  | 9,800                                  | 40,000                               | 12                                        | 1.7                                   | 0.27                                    |
| <b>SWFTS-MW08A</b> | 9/26/2017   | SWFTS-MW08A-EM02-FD | FD      | EM02  | 10,000                                 | 42,000                               | 12                                        | 1.8                                   | ---                                     |
| <b>SWFTS-MW08A</b> | 10/5/2017   | SWFTS-MW08A-EM03    | N       | EM03  | 7,800                                  | 42,000                               | 14                                        | 1.6                                   | 4.16                                    |
| <b>SWFTS-MW08A</b> | 10/5/2017   | SWFTS-MW08A-EM03-FD | FD      | EM03  | 9,800                                  | 49,000                               | 12                                        | 2.0                                   | ---                                     |
| <b>SWFTS-MW08A</b> | 10/10/2017  | SWFTS-MW08A-EM04    | N       | EM04  | 9,500                                  | 43,000                               | 12                                        | 1.6                                   | 44.01 E                                 |
| <b>SWFTS-MW08A</b> | 10/23/2017  | SWFTS-MW08A-EM05    | N       | EM05  | 8,100                                  | 41,000                               | 14                                        | 1.8                                   | 1.49                                    |
| <b>SWFTS-MW08A</b> | 10/23/2017  | SWFTS-MW08A-EM05-FD | FD      | EM05  | 8,100                                  | 40,000                               | 12                                        | 1.8                                   | ---                                     |
| <b>SWFTS-MW08A</b> | 11/15/2017  | SWFTS-MW08A-EM06    | N       | EM06  | 9,000                                  | 43,000                               | 14                                        | 1.6                                   | 0.60                                    |
| <b>SWFTS-MW08A</b> | 12/14/2017  | SWFTS-MW08A-EM07    | N       | EM07  | 8,900                                  | 45,000                               | 14                                        | 1.6                                   | 0.11                                    |
| <b>SWFTS-MW08A</b> | 2/22/2018   | SWFTS-MW08A-EM08    | N       | EM08  | 9,500                                  | 54,000                               | 14                                        | 1.9                                   | 5.05                                    |
| <b>SWFTS-MW08A</b> | 3/29/2018   | SWFTS-MW08A-EM09    | N       | EM09  | 9,100                                  | 59,000                               | 15                                        | 1.5                                   | 2.61                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW08A</b> | 5/3/2018    | SWFTS-MW08A-EM10 | N       | EM10  | 9,100                                  | 55,000                               | 17                                        | 1.5                                   | 0.37                                    |
| <b>SWFTS-MW08A</b> | 7/11/2018   | SWFTS-MW08A-EM11 | N       | EM11  | 7,500                                  | 63,000                               | 15                                        | 1.3                                   | 1.54                                    |
| <b>SWFTS-MW08A</b> | 8/16/2018   | SWFTS-MW08A-EM13 | N       | EM13  | 5,500                                  | 47,000                               | 15                                        | 1.8                                   | 0.63                                    |
| <b>SWFTS-MW08A</b> | 9/12/2018   | SWFTS-MW08A-EM14 | N       | EM14  | 5,600                                  | 43,000                               | 15                                        | 1.6                                   | 0.77                                    |
| <b>SWFTS-MW08A</b> | 10/10/2018  | SWFTS-MW08A-EM15 | N       | EM15  | 5,500                                  | 42,000                               | 15                                        | 1.8                                   | 0.09                                    |
| <b>SWFTS-MW08A</b> | 1/2/2019    | SWFTS-MW08A-EM16 | N       | EM16  | 7,200                                  | 45,000                               | 15                                        | 2.0                                   | 1.23                                    |
| <b>SWFTS-MW08A</b> | 2/28/2019   | SWFTS-MW08A-EM17 | N       | EM17  | 7,500                                  | 53,000                               | 16                                        | 1.7                                   | 0.40                                    |
| <b>SWFTS-MW08A</b> | 4/12/2019   | SWFTS-MW08A-EM18 | N       | EM18  | 7,100                                  | 50,000                               | 15                                        | 1.4                                   | 0.74                                    |
| <b>SWFTS-MW08A</b> | 5/22/2019   | SWFTS-MW08A-EM19 | N       | EM19  | 7,600                                  | 46,000                               | 14                                        | 1.5                                   | 1.30                                    |
| <b>SWFTS-MW08A</b> | 7/1/2019    | SWFTS-MW08A-EM20 | N       | EM20  | 6,700                                  | 44,000                               | 14                                        | 1.9                                   | 0.55                                    |
| <b>SWFTS-MW08A</b> | 8/15/2019   | SWFTS-MW08A-EM21 | N       | EM21  | 6,500                                  | 41,000                               | 12                                        | 1.9                                   | 0.45                                    |
| <b>SWFTS-MW08C</b> | 12/14/2017  | SWFTS-MW08C-EM07 | N       | EM07  | 9,300                                  | 50,000                               | 13                                        | 1.1                                   | -0.06 E                                 |
| <b>SWFTS-MW09A</b> | 9/21/2017   | SWFTS-MW09A-EM01 | N       | EM01  | 3,400                                  | 1,200                                | <0.55                                     | 51                                    | 0.57                                    |
| <b>SWFTS-MW09A</b> | 9/28/2017   | SWFTS-MW09A-EM02 | N       | EM02  | 54                                     | <100                                 | <0.55                                     | 40                                    | 0.26                                    |
| <b>SWFTS-MW09A</b> | 10/4/2017   | SWFTS-MW09A-EM03 | N       | EM03  | 420                                    | 200                                  | <0.55                                     | 22                                    | 4.54                                    |
| <b>SWFTS-MW09A</b> | 10/11/2017  | SWFTS-MW09A-EM04 | N       | EM04  | 8.4 J+                                 | 55                                   | <0.55                                     | 7.5                                   | 0.12                                    |
| <b>SWFTS-MW09A</b> | 10/25/2017  | SWFTS-MW09A-EM05 | N       | EM05  | 1,300                                  | 1,700                                | <0.55                                     | 2.9                                   | 0.31                                    |
| <b>SWFTS-MW09A</b> | 11/16/2017  | SWFTS-MW09A-EM06 | N       | EM06  | 3,400                                  | 8,400                                | 1.2                                       | 2.1                                   | 1.88                                    |
| <b>SWFTS-MW09A</b> | 12/12/2017  | SWFTS-MW09A-EM07 | N       | EM07  | 5,400                                  | 16,000                               | 2.7                                       | 2.1                                   | 0.29                                    |
| <b>SWFTS-MW09A</b> | 2/20/2018   | SWFTS-MW09A-EM08 | N       | EM08  | 6,800                                  | 16,000                               | 5.3                                       | 2.1                                   | 4.16                                    |
| <b>SWFTS-MW09A</b> | 3/27/2018   | SWFTS-MW09A-EM09 | N       | EM09  | 6,700                                  | 18,000                               | 6.4                                       | 1.8                                   | 2.12                                    |
| <b>SWFTS-MW09A</b> | 5/1/2018    | SWFTS-MW09A-EM10 | N       | EM10  | 7,300                                  | 19,000                               | 8.0                                       | 1.6                                   | 0.00                                    |
| <b>SWFTS-MW09A</b> | 7/12/2018   | SWFTS-MW09A-EM11 | N       | EM11  | 2,800                                  | 2,700                                | 3.1                                       | 2.0                                   | 1.86                                    |
| <b>SWFTS-MW09A</b> | 7/27/2018   | SWFTS-MW09A-EM12 | N       | EM12  | 1,900                                  | 1,600                                | ---                                       | ---                                   | 5.97                                    |
| <b>SWFTS-MW09A</b> | 8/14/2018   | SWFTS-MW09A-EM13 | N       | EM13  | 7,200                                  | 7,600                                | 4.5                                       | 2.2                                   | 2.83                                    |
| <b>SWFTS-MW09A</b> | 9/11/2018   | SWFTS-MW09A-EM14 | N       | EM14  | 4,000                                  | 13,000                               | 6.5                                       | 1.7                                   | 1.72                                    |
| <b>SWFTS-MW09A</b> | 10/9/2018   | SWFTS-MW09A-EM15 | N       | EM15  | 4,600                                  | 15,000                               | 7.7                                       | 2.0                                   | 1.3                                     |
| <b>SWFTS-MW09A</b> | 12/27/2018  | SWFTS-MW09A-EM16 | N       | EM16  | 3,600                                  | 14,000                               | 9.1                                       | 1.8                                   | 0.83                                    |
| <b>SWFTS-MW09A</b> | 2/26/2019   | SWFTS-MW09A-EM17 | N       | EM17  | 2,400                                  | 5,600                                | 3.8                                       | 2.1                                   | 0.43                                    |
| <b>SWFTS-MW09A</b> | 4/10/2019   | SWFTS-MW09A-EM18 | N       | EM18  | 3,500                                  | 12,000                               | 6.0                                       | 1.8                                   | 0.72                                    |
| <b>SWFTS-MW09A</b> | 5/22/2019   | SWFTS-MW09A-EM19 | N       | EM19  | 2,900                                  | 6,000                                | 6.6                                       | 1.8                                   | 0.47                                    |
| <b>SWFTS-MW09A</b> | 7/2/2019    | SWFTS-MW09A-EM20 | N       | EM20  | 3,500                                  | 13,000                               | 6.5                                       | 2.2                                   | 0.45                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW09A</b> | 8/12/2019   | SWFTS-MW09A-EM21    | N       | EM21  | 4,800                                  | 20,000                               | 8.0                                       | 1.8                                   | 0.44                                    |
| <b>SWFTS-MW09B</b> | 9/21/2017   | SWFTS-MW09B-EM01    | N       | EM01  | 220                                    | 390                                  | <0.55                                     | 30                                    | 1.81                                    |
| <b>SWFTS-MW09B</b> | 9/28/2017   | SWFTS-MW09B-EM02    | N       | EM02  | 990                                    | 2,500                                | <0.55                                     | 25                                    | 0.38                                    |
| <b>SWFTS-MW09B</b> | 10/4/2017   | SWFTS-MW09B-EM03    | N       | EM03  | 430                                    | 1,000                                | <1.1                                      | 29                                    | 3.71                                    |
| <b>SWFTS-MW09B</b> | 10/11/2017  | SWFTS-MW09B-EM04    | N       | EM04  | 1,400                                  | 3,000                                | 1.1                                       | 18                                    | 0.12                                    |
| <b>SWFTS-MW09B</b> | 10/25/2017  | SWFTS-MW09B-EM05    | N       | EM05  | 2,700                                  | 7,700                                | 1.7                                       | 2.4                                   | 0.38                                    |
| <b>SWFTS-MW09B</b> | 11/16/2017  | SWFTS-MW09B-EM06    | N       | EM06  | 2,400                                  | 8,600                                | 2.1                                       | 2.1                                   | 0.77                                    |
| <b>SWFTS-MW09B</b> | 12/12/2017  | SWFTS-MW09B-EM07    | N       | EM07  | 3,500                                  | 13,000                               | 3.4                                       | 2.1                                   | 0.07                                    |
| <b>SWFTS-MW09B</b> | 2/20/2018   | SWFTS-MW09B-EM08    | N       | EM08  | 800                                    | 1,400                                | <1.1                                      | 2.5                                   | 5.47                                    |
| <b>SWFTS-MW09B</b> | 3/27/2018   | SWFTS-MW09B-EM09    | N       | EM09  | 7,700                                  | 28,000                               | 5.9                                       | 1.8                                   | 2.09                                    |
| <b>SWFTS-MW09B</b> | 4/30/2018   | SWFTS-MW09B-EM10    | N       | EM10  | 7,400                                  | 23,000                               | 7.9                                       | 1.8                                   | 0.00                                    |
| <b>SWFTS-MW09B</b> | 7/12/2018   | SWFTS-MW09B-EM11    | N       | EM11  | 6,500                                  | 15,000                               | 7.0                                       | 1.9                                   | 1.58                                    |
| <b>SWFTS-MW09B</b> | 7/26/2018   | SWFTS-MW09B-EM12    | N       | EM12  | 6,600                                  | 20,000                               | ---                                       | ---                                   | 1.16                                    |
| <b>SWFTS-MW09B</b> | 8/14/2018   | SWFTS-MW09B-EM13    | N       | EM13  | 6,400                                  | 24,000                               | 9.7                                       | 2.1                                   | 2.99                                    |
| <b>SWFTS-MW09B</b> | 9/11/2018   | SWFTS-MW09B-EM14    | N       | EM14  | 6,600                                  | 28,000                               | 11                                        | 1.6                                   | 1.12                                    |
| <b>SWFTS-MW09B</b> | 10/9/2018   | SWFTS-MW09B-EM15    | N       | EM15  | 6,500                                  | 24,000                               | 10                                        | 2.0                                   | 0.58                                    |
| <b>SWFTS-MW09B</b> | 12/28/2018  | SWFTS-MW09B-EM16    | N       | EM16  | 5,500                                  | 21,000                               | 11                                        | 1.7                                   | 1.3                                     |
| <b>SWFTS-MW09B</b> | 2/28/2019   | SWFTS-MW09B-EM17    | N       | EM17  | 5,800                                  | 25,000                               | 16 J-                                     | 1.9                                   | 0.50                                    |
| <b>SWFTS-MW09B</b> | 4/10/2019   | SWFTS-MW09B-EM18    | N       | EM18  | 8,300                                  | 32,000                               | 11                                        | 1.6                                   | 2.69                                    |
| <b>SWFTS-MW09B</b> | 5/22/2019   | SWFTS-MW09B-EM19    | N       | EM19  | 7,300                                  | 30,000                               | 10                                        | 1.6                                   | 0.70                                    |
| <b>SWFTS-MW09B</b> | 7/2/2019    | SWFTS-MW09B-EM20    | N       | EM20  | 6,900                                  | 30,000                               | 11                                        | 1.9                                   | 0.70                                    |
| <b>SWFTS-MW09B</b> | 8/12/2019   | SWFTS-MW09B-EM21    | N       | EM21  | 7,200                                  | 28,000                               | 11                                        | 1.9                                   | 0.53                                    |
| <b>SWFTS-MW10A</b> | 9/21/2017   | SWFTS-MW10A-EM01    | N       | EM01  | 1.9 J                                  | <50                                  | <0.55                                     | 23                                    | 0.42                                    |
| <b>SWFTS-MW10A</b> | 9/27/2017   | SWFTS-MW10A-EM02    | N       | EM02  | 100                                    | <100                                 | 0.66 J                                    | 12                                    | 5.10                                    |
| <b>SWFTS-MW10A</b> | 10/4/2017   | SWFTS-MW10A-EM03    | N       | EM03  | 14                                     | <100                                 | <0.28                                     | 10                                    | 4.56                                    |
| <b>SWFTS-MW10A</b> | 10/12/2017  | SWFTS-MW10A-EM04    | N       | EM04  | <0.95                                  | 13 J                                 | <0.11                                     | 13                                    | 0.15                                    |
| <b>SWFTS-MW10A</b> | 10/24/2017  | SWFTS-MW10A-EM05    | N       | EM05  | 14                                     | 630                                  | <0.28                                     | 6.3                                   | 1.38                                    |
| <b>SWFTS-MW10A</b> | 11/16/2017  | SWFTS-MW10A-EM06    | N       | EM06  | 11                                     | <50                                  | <0.28                                     | 4.2                                   | 0.60                                    |
| <b>SWFTS-MW10A</b> | 11/16/2017  | SWFTS-MW10A-EM06-FD | FD      | EM06  | 15                                     | <50                                  | <0.28                                     | 4.0                                   | ---                                     |
| <b>SWFTS-MW10A</b> | 12/12/2017  | SWFTS-MW10A-EM07    | N       | EM07  | 160                                    | 190                                  | <0.28                                     | 3.2                                   | 0.53                                    |
| <b>SWFTS-MW10A</b> | 12/12/2017  | SWFTS-MW10A-EM07-FD | FD      | EM07  | 170                                    | 180                                  | <0.28                                     | 3.4                                   | ---                                     |
| <b>SWFTS-MW10A</b> | 2/20/2018   | SWFTS-MW10A-EM08    | N       | EM08  | 990                                    | 1,400                                | <1.1                                      | 3.2                                   | 0.44                                    |

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**Groundwater Analytical Results**  
Seep Well Field Area Bioremediation Treatability Study

| Well               | Sample Date | Sample ID           | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|--------------------|-------------|---------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW10A</b> | 2/20/2018   | SWFTS-MW10A-EM08-FD | FD      | EM08  | 1,000                                  | 1,300                                | 1.3 J                                     | 3.3                                   | ---                                     |
| <b>SWFTS-MW10A</b> | 3/26/2018   | SWFTS-MW10A-EM09    | N       | EM09  | 2,300                                  | 4,000                                | 0.37 J                                    | 2.8                                   | 1.15                                    |
| <b>SWFTS-MW10A</b> | 3/26/2018   | SWFTS-MW10A-EM09-FD | FD      | EM09  | 2,200                                  | 4,000                                | 0.36 J                                    | 2.8 J-                                | ---                                     |
| <b>SWFTS-MW10A</b> | 5/1/2018    | SWFTS-MW10A-EM10    | N       | EM10  | 4,300                                  | 4,800                                | 0.96 J                                    | 2.5                                   | 0.83                                    |
| <b>SWFTS-MW10A</b> | 7/11/2018   | SWFTS-MW10A-EM11    | N       | EM11  | 3,000 J-                               | 40 J                                 | 0.89 J                                    | 2.2                                   | 2.42                                    |
| <b>SWFTS-MW10A</b> | 7/26/2018   | SWFTS-MW10A-EM12    | N       | EM12  | 1,300                                  | <10                                  | ---                                       | ---                                   | 0.55                                    |
| <b>SWFTS-MW10A</b> | 8/14/2018   | SWFTS-MW10A-EM13    | N       | EM13  | 1,500                                  | <10                                  | <0.55                                     | 3.0                                   | 2.59                                    |
| <b>SWFTS-MW10A</b> | 9/10/2018   | SWFTS-MW10A-EM14    | N       | EM14  | 1,500                                  | <10                                  | <0.55                                     | 2.9                                   | 0.37                                    |
| <b>SWFTS-MW10A</b> | 10/9/2018   | SWFTS-MW10A-EM15    | N       | EM15  | 2,300                                  | <20                                  | <0.55                                     | 2.8                                   | 0.86                                    |
| <b>SWFTS-MW10A</b> | 12/20/2018  | SWFTS-MW10A-EM16    | N       | EM16  | 3,000                                  | 83                                   | 1.3                                       | 3.4                                   | 0.7                                     |
| <b>SWFTS-MW10A</b> | 2/26/2019   | SWFTS-MW10A-EM17    | N       | EM17  | 3,900                                  | 1,200                                | 2.1 J                                     | 2.6                                   | 0.37                                    |
| <b>SWFTS-MW10A</b> | 4/10/2019   | SWFTS-MW10A-EM18    | N       | EM18  | 2,800                                  | 1,400                                | 1.7                                       | 2.8                                   | 0.61                                    |
| <b>SWFTS-MW10A</b> | 5/21/2019   | SWFTS-MW10A-EM19    | N       | EM19  | 1,500                                  | 34 J                                 | 1.2                                       | 3.3                                   | 0.46                                    |
| <b>SWFTS-MW10A</b> | 7/1/2019    | SWFTS-MW10A-EM20    | N       | EM20  | 1,500                                  | <10                                  | 0.84 J                                    | 3.4                                   | 5.15                                    |
| <b>SWFTS-MW10A</b> | 8/12/2019   | SWFTS-MW10A-EM21    | N       | EM21  | 870                                    | <10                                  | <0.55                                     | 3.1                                   | 0.38                                    |
| <b>SWFTS-MW10C</b> | 12/12/2017  | SWFTS-MW10C-EM07    | N       | EM07  | 9,200                                  | 38,000                               | 8.4                                       | 1.3                                   | 0.51                                    |
| <b>SWFTS-MW11</b>  | 9/20/2017   | SWFTS-MW11-EM01     | N       | EM01  | 13,000                                 | 40,000                               | 11                                        | 1.7                                   | 1.86                                    |
| <b>SWFTS-MW11</b>  | 9/26/2017   | SWFTS-MW11-EM02     | N       | EM02  | 14,000                                 | 37,000                               | 12                                        | 2.1                                   | 1.47                                    |
| <b>SWFTS-MW11</b>  | 10/3/2017   | SWFTS-MW11-EM03     | N       | EM03  | 13,000                                 | 36,000                               | 12                                        | 1.8                                   | 0.93                                    |
| <b>SWFTS-MW11</b>  | 10/11/2017  | SWFTS-MW11-EM04     | N       | EM04  | 16,000                                 | 38,000                               | 11                                        | 1.6                                   | 1.15                                    |
| <b>SWFTS-MW11</b>  | 10/24/2017  | SWFTS-MW11-EM05     | N       | EM05  | 13,000                                 | 36,000                               | 12                                        | 5.7                                   | 2.32                                    |
| <b>SWFTS-MW11</b>  | 11/16/2017  | SWFTS-MW11-EM06     | N       | EM06  | 14,000                                 | 37,000                               | 12                                        | 1.7                                   | 0.95                                    |
| <b>SWFTS-MW11</b>  | 12/14/2017  | SWFTS-MW11-EM07     | N       | EM07  | 12,000                                 | 40,000                               | 11                                        | 2.0                                   | 1.78                                    |
| <b>SWFTS-MW11</b>  | 2/21/2018   | SWFTS-MW11-EM08     | N       | EM08  | 12,000                                 | 45,000                               | 14                                        | 1.7                                   | 7.35                                    |
| <b>SWFTS-MW11</b>  | 2/21/2018   | SWFTS-MW11-EM08-FD  | FD      | EM08  | 12,000                                 | 46,000                               | 13                                        | 1.9                                   | ---                                     |
| <b>SWFTS-MW11</b>  | 3/28/2018   | SWFTS-MW11-EM09     | N       | EM09  | 13,000                                 | 49,000                               | 14                                        | 1.5                                   | 4.05                                    |
| <b>SWFTS-MW11</b>  | 3/28/2018   | SWFTS-MW11-EM09-FD  | FD      | EM09  | 13,000                                 | 49,000                               | 14                                        | 1.5                                   | ---                                     |
| <b>SWFTS-MW11</b>  | 5/1/2018    | SWFTS-MW11-EM10     | N       | EM10  | 13,000                                 | 52,000                               | 14                                        | 1.5                                   | 5.35                                    |
| <b>SWFTS-MW11</b>  | 5/1/2018    | SWFTS-MW11-EM10-FD  | FD      | EM10  | 12,000                                 | 48,000                               | 14                                        | 1.4                                   | ---                                     |
| <b>SWFTS-MW11</b>  | 7/12/2018   | SWFTS-MW11-EM11     | N       | EM11  | 11,000                                 | 52,000                               | 16                                        | 1.2                                   | 5.48                                    |
| <b>SWFTS-MW11</b>  | 7/12/2018   | SWFTS-MW11-EM11-FD  | FD      | EM11  | 11,000                                 | 52,000                               | 16                                        | 1.2                                   | ---                                     |
| <b>SWFTS-MW11</b>  | 8/16/2018   | SWFTS-MW11-EM13     | N       | EM13  | 9,400                                  | 53,000                               | 16                                        | 1.7                                   | 2.83                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW11</b> | 8/16/2018   | SWFTS-MW11-EM13-FD | FD      | EM13  | 9,600                                  | 52,000                               | 16                                        | 1.8                                   | ---                                     |
| <b>SWFTS-MW11</b> | 9/12/2018   | SWFTS-MW11-EM14    | N       | EM14  | 11,000                                 | 52,000                               | 16                                        | 1.5                                   | 4.18                                    |
| <b>SWFTS-MW11</b> | 9/12/2018   | SWFTS-MW11-EM14-FD | FD      | EM14  | 11,000                                 | 52,000                               | 16                                        | 1.4                                   | ---                                     |
| <b>SWFTS-MW11</b> | 10/11/2018  | SWFTS-MW11-EM15    | N       | EM15  | 10,000                                 | 54,000                               | 17                                        | 1.6                                   | 3.59                                    |
| <b>SWFTS-MW11</b> | 10/11/2018  | SWFTS-MW11-EM15-FD | FD      | EM15  | 11,000                                 | 52,000                               | 17                                        | 1.7                                   | ---                                     |
| <b>SWFTS-MW11</b> | 1/2/2019    | SWFTS-MW11-EM16    | N       | EM16  | 8,600                                  | 44,000                               | 16                                        | 1.5                                   | 7.08                                    |
| <b>SWFTS-MW11</b> | 1/2/2019    | SWFTS-MW11-EM16-FD | FD      | EM16  | 8,400                                  | 45,000                               | 16                                        | 1.5                                   | ---                                     |
| <b>SWFTS-MW11</b> | 3/1/2019    | SWFTS-MW11-EM17    | N       | EM17  | 7,900 J+                               | 42,000                               | 17                                        | 1.5                                   | 5.23                                    |
| <b>SWFTS-MW11</b> | 3/1/2019    | SWFTS-MW11-EM17-FD | FD      | EM17  | 7,700 J+                               | 41,000                               | 17                                        | 1.6                                   | ---                                     |
| <b>SWFTS-MW11</b> | 4/12/2019   | SWFTS-MW11-EM18    | N       | EM18  | 7,700                                  | 41,000                               | 15                                        | 1.9                                   | 5.50                                    |
| <b>SWFTS-MW11</b> | 4/12/2019   | SWFTS-MW11-EM18-FD | FD      | EM18  | 7,800                                  | 42,000                               | 17                                        | 1.4                                   | ---                                     |
| <b>SWFTS-MW11</b> | 5/22/2019   | SWFTS-MW11-EM19    | N       | EM19  | 8,000                                  | 44,000                               | 14                                        | 1.7                                   | 5.09                                    |
| <b>SWFTS-MW11</b> | 5/22/2019   | SWFTS-MW11-EM19-FD | FD      | EM19  | 7,800                                  | 44,000                               | 16                                        | 1.8                                   | ---                                     |
| <b>SWFTS-MW11</b> | 7/3/2019    | SWFTS-MW11-EM20    | N       | EM20  | 7,100                                  | 43,000                               | 16                                        | 1.9                                   | 5.03                                    |
| <b>SWFTS-MW11</b> | 7/3/2019    | SWFTS-MW11-EM20-FD | FD      | EM20  | 7,500                                  | 43,000                               | 17                                        | 1.9                                   | ---                                     |
| <b>SWFTS-MW11</b> | 8/15/2019   | SWFTS-MW11-EM21    | N       | EM21  | 9,200                                  | 43,000                               | 16                                        | 1.8                                   | 4.95                                    |
| <b>SWFTS-MW11</b> | 8/15/2019   | SWFTS-MW11-EM21-FD | FD      | EM21  | 8,900                                  | 43,000                               | 16                                        | 1.8                                   | ---                                     |
| <b>SWFTS-MW12</b> | 9/19/2017   | SWFTS-MW12-EM01    | N       | EM01  | 5,100                                  | 36,000                               | 14                                        | 1.1                                   | 4.36                                    |
| <b>SWFTS-MW12</b> | 9/26/2017   | SWFTS-MW12-EM02    | N       | EM02  | 4,900                                  | 34,000                               | 14                                        | 1.6                                   | 2.98                                    |
| <b>SWFTS-MW12</b> | 10/3/2017   | SWFTS-MW12-EM03    | N       | EM03  | 5,400                                  | 34,000                               | 14 J-                                     | 0.78 J                                | 2.77                                    |
| <b>SWFTS-MW12</b> | 10/11/2017  | SWFTS-MW12-EM04    | N       | EM04  | 4,800                                  | 35,000                               | 13                                        | 0.93 J                                | 1.59                                    |
| <b>SWFTS-MW12</b> | 10/24/2017  | SWFTS-MW12-EM05    | N       | EM05  | 5,000                                  | 37,000                               | 14                                        | 1.2                                   | 5.09                                    |
| <b>SWFTS-MW12</b> | 11/14/2017  | SWFTS-MW12-EM06    | N       | EM06  | 4,700                                  | 33,000                               | 14                                        | 0.99 J                                | 2.52                                    |
| <b>SWFTS-MW12</b> | 12/14/2017  | SWFTS-MW12-EM07    | N       | EM07  | 4,900                                  | 30,000                               | 13                                        | 1.5                                   | 4.37                                    |
| <b>SWFTS-MW12</b> | 2/22/2018   | SWFTS-MW12-EM08    | N       | EM08  | 4,500                                  | 26,000                               | 12                                        | 1.6                                   | 5.95                                    |
| <b>SWFTS-MW12</b> | 3/28/2018   | SWFTS-MW12-EM09    | N       | EM09  | 6,400                                  | 39,000                               | 14                                        | 1.3                                   | 4.30                                    |
| <b>SWFTS-MW12</b> | 5/3/2018    | SWFTS-MW12-EM10    | N       | EM10  | 4,200                                  | 28,000                               | 13                                        | 0.89 J                                | 2.24                                    |
| <b>SWFTS-MW12</b> | 7/12/2018   | SWFTS-MW12-EM11    | N       | EM11  | 4,600                                  | 35,000                               | 13                                        | 0.69 J                                | 5.35                                    |
| <b>SWFTS-MW12</b> | 8/16/2018   | SWFTS-MW12-EM13    | N       | EM13  | 4,000                                  | 34,000                               | 14                                        | 1.2                                   | 2.75                                    |
| <b>SWFTS-MW12</b> | 9/12/2018   | SWFTS-MW12-EM14    | N       | EM14  | 4,800                                  | 36,000                               | 14                                        | 1.1                                   | 3.46                                    |
| <b>SWFTS-MW12</b> | 10/11/2018  | SWFTS-MW12-EM15    | N       | EM15  | 4,200                                  | 28,000                               | 14                                        | 1.3                                   | 5.11                                    |
| <b>SWFTS-MW12</b> | 1/2/2019    | SWFTS-MW12-EM16    | N       | EM16  | 5,800                                  | 55,000                               | 17                                        | 1.2                                   | 4.35                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|-----------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW12</b> | 2/28/2019   | SWFTS-MW12-EM17 | N       | EM17  | 3,700                                  | 29,000                               | 14                                        | 1.1                                   | 3.64                                    |
| <b>SWFTS-MW12</b> | 4/12/2019   | SWFTS-MW12-EM18 | N       | EM18  | 4,500                                  | 31,000                               | 14                                        | 1.2                                   | 3.50                                    |
| <b>SWFTS-MW12</b> | 5/22/2019   | SWFTS-MW12-EM19 | N       | EM19  | 4,400                                  | 32,000                               | 12                                        | 0.87 J                                | 3.81                                    |
| <b>SWFTS-MW12</b> | 7/5/2019    | SWFTS-MW12-EM20 | N       | EM20  | 4,300                                  | 33,000                               | 13 J+                                     | 1.2                                   | 3.56                                    |
| <b>SWFTS-MW12</b> | 8/16/2019   | SWFTS-MW12-EM21 | N       | EM21  | 4,200                                  | 31,000                               | 13                                        | 1.2                                   | 3.35                                    |
| <b>SWFTS-MW13</b> | 9/20/2017   | SWFTS-MW13-EM01 | N       | EM01  | 10,000                                 | 52,000                               | 17                                        | 1.1                                   | 5.20                                    |
| <b>SWFTS-MW13</b> | 9/26/2017   | SWFTS-MW13-EM02 | N       | EM02  | 6,200                                  | 53,000                               | 18                                        | 1.4                                   | 3.17                                    |
| <b>SWFTS-MW13</b> | 10/3/2017   | SWFTS-MW13-EM03 | N       | EM03  | 6,900                                  | 100                                  | 17 J-                                     | 1.1                                   | 5.57                                    |
| <b>SWFTS-MW13</b> | 10/10/2017  | SWFTS-MW13-EM04 | N       | EM04  | 6,300                                  | 51,000                               | 16                                        | 0.98 J                                | 2.40                                    |
| <b>SWFTS-MW13</b> | 10/24/2017  | SWFTS-MW13-EM05 | N       | EM05  | 6,100                                  | 52,000                               | 19                                        | 1.3                                   | 6.62                                    |
| <b>SWFTS-MW13</b> | 11/15/2017  | SWFTS-MW13-EM06 | N       | EM06  | 5,900                                  | 49,000                               | 16                                        | 0.93 J                                | 3.22                                    |
| <b>SWFTS-MW13</b> | 12/14/2017  | SWFTS-MW13-EM07 | N       | EM07  | 6,200                                  | 49,000                               | 16                                        | 1.2                                   | 3.79                                    |
| <b>SWFTS-MW13</b> | 2/22/2018   | SWFTS-MW13-EM08 | N       | EM08  | 5,800                                  | 50,000                               | 15                                        | 1.5                                   | 4.95                                    |
| <b>SWFTS-MW13</b> | 3/26/2018   | SWFTS-MW13-EM09 | N       | EM09  | 6,400                                  | 52,000                               | 16 J+                                     | 1.2                                   | 2.98                                    |
| <b>SWFTS-MW13</b> | 5/3/2018    | SWFTS-MW13-EM10 | N       | EM10  | 6,000                                  | 49,000                               | 18                                        | 1.1                                   | 8.17 E                                  |
| <b>SWFTS-MW13</b> | 7/12/2018   | SWFTS-MW13-EM11 | N       | EM11  | 6,300                                  | 49,000                               | 16                                        | 0.80 J                                | 6.45                                    |
| <b>SWFTS-MW13</b> | 8/16/2018   | SWFTS-MW13-EM13 | N       | EM13  | 5,200                                  | 54,000                               | 17                                        | 1.3                                   | 2.95                                    |
| <b>SWFTS-MW13</b> | 9/13/2018   | SWFTS-MW13-EM14 | N       | EM14  | 5,000                                  | 48,000                               | 16                                        | 1.2                                   | 3.44                                    |
| <b>SWFTS-MW13</b> | 10/11/2018  | SWFTS-MW13-EM15 | N       | EM15  | 5,800                                  | 55,000                               | 17                                        | 1.2                                   | 3.49                                    |
| <b>SWFTS-MW13</b> | 1/2/2019    | SWFTS-MW13-EM16 | N       | EM16  | 3,900                                  | 28,000                               | 13                                        | 1.1                                   | 6.89                                    |
| <b>SWFTS-MW13</b> | 2/28/2019   | SWFTS-MW13-EM17 | N       | EM17  | 5,500                                  | 53,000                               | 18                                        | 1.1                                   | 4.02                                    |
| <b>SWFTS-MW13</b> | 4/12/2019   | SWFTS-MW13-EM18 | N       | EM18  | 5,300                                  | 45,000                               | 18                                        | 1.2                                   | 5.30                                    |
| <b>SWFTS-MW13</b> | 5/22/2019   | SWFTS-MW13-EM19 | N       | EM19  | 5,300                                  | 45,000                               | 17                                        | 0.94 J                                | 5.32                                    |
| <b>SWFTS-MW13</b> | 7/5/2019    | SWFTS-MW13-EM20 | N       | EM20  | 5,600                                  | 48,000                               | 17                                        | 1.3                                   | 5.15                                    |
| <b>SWFTS-MW13</b> | 8/16/2019   | SWFTS-MW13-EM21 | N       | EM21  | 5,200                                  | 51,000                               | 18                                        | 1.3                                   | 4.55                                    |
| <b>SWFTS-MW14</b> | 9/20/2017   | SWFTS-MW14-EM01 | N       | EM01  | <9.5                                   | <100                                 | <0.55                                     | 100                                   | 0.39                                    |
| <b>SWFTS-MW14</b> | 9/26/2017   | SWFTS-MW14-EM02 | N       | EM02  | <4.8                                   | 2,400                                | <1.1                                      | 81                                    | 0.17                                    |
| <b>SWFTS-MW14</b> | 10/3/2017   | SWFTS-MW14-EM03 | N       | EM03  | 4.8                                    | <100                                 | <0.55 UJ                                  | 36                                    | 0.19                                    |
| <b>SWFTS-MW14</b> | 10/11/2017  | SWFTS-MW14-EM04 | N       | EM04  | <9.5                                   | <50                                  | <0.55                                     | 4.1                                   | 0.39                                    |
| <b>SWFTS-MW14</b> | 10/27/2017  | SWFTS-MW14-EM05 | N       | EM05  | 26                                     | <50                                  | <0.28                                     | 3.5                                   | 0.60                                    |
| <b>SWFTS-MW14</b> | 11/15/2017  | SWFTS-MW14-EM06 | N       | EM06  | 20 J+                                  | <50                                  | <0.55                                     | 3.1                                   | 0.83                                    |
| <b>SWFTS-MW14</b> | 12/12/2017  | SWFTS-MW14-EM07 | N       | EM07  | 1,600                                  | 2,400                                | <0.55                                     | 2.6                                   | 6.49                                    |

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**Groundwater Analytical Results**  
Seep Well Field Area Bioremediation Treatability Study

| Well              | Sample Date | Sample ID       | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|-----------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW14</b> | 2/20/2018   | SWFTS-MW14-EM08 | N       | EM08  | 2,200                                  | <100                                 | <1.1                                      | 670                                   | 3.12                                    |
| <b>SWFTS-MW14</b> | 3/26/2018   | SWFTS-MW14-EM09 | N       | EM09  | 5,500                                  | <50                                  | <0.28                                     | 220                                   | 4.03                                    |
| <b>SWFTS-MW14</b> | 4/30/2018   | SWFTS-MW14-EM10 | N       | EM10  | 4,300                                  | 26 J                                 | <0.55                                     | 91                                    | 0.45                                    |
| <b>SWFTS-MW14</b> | 7/10/2018   | SWFTS-MW14-EM11 | N       | EM11  | 6.5                                    | <25                                  | <0.55                                     | 180                                   | 0.90                                    |
| <b>SWFTS-MW14</b> | 7/26/2018   | SWFTS-MW14-EM12 | N       | EM12  | <95                                    | <10                                  | ---                                       | ---                                   | 2.26                                    |
| <b>SWFTS-MW14</b> | 8/14/2018   | SWFTS-MW14-EM13 | N       | EM13  | 8.2 J                                  | <10                                  | <0.55                                     | 130                                   | 0.47                                    |
| <b>SWFTS-MW14</b> | 9/11/2018   | SWFTS-MW14-EM14 | N       | EM14  | 6.4 J                                  | <10                                  | <0.55                                     | 91                                    | 0.25                                    |
| <b>SWFTS-MW14</b> | 10/9/2018   | SWFTS-MW14-EM15 | N       | EM15  | <0.95                                  | <20                                  | <1.1                                      | 80                                    | 0.81                                    |
| <b>SWFTS-MW14</b> | 12/20/2018  | SWFTS-MW14-EM16 | N       | EM16  | <0.95                                  | <10                                  | <0.28                                     | 16                                    | 0.46                                    |
| <b>SWFTS-MW14</b> | 2/26/2019   | SWFTS-MW14-EM17 | N       | EM17  | <0.95                                  | <10                                  | <0.55                                     | 6.2                                   | 0.67                                    |
| <b>SWFTS-MW14</b> | 4/9/2019    | SWFTS-MW14-EM18 | N       | EM18  | 38                                     | 150                                  | <0.55 UJ                                  | 5.3                                   | 0.65                                    |
| <b>SWFTS-MW14</b> | 5/21/2019   | SWFTS-MW14-EM19 | N       | EM19  | <0.95                                  | <20                                  | <0.55                                     | 6.3                                   | 0.35                                    |
| <b>SWFTS-MW14</b> | 7/2/2019    | SWFTS-MW14-EM20 | N       | EM20  | 2.8 J                                  | <4.0                                 | <0.11                                     | 6.5                                   | 0.35                                    |
| <b>SWFTS-MW14</b> | 8/13/2019   | SWFTS-MW14-EM21 | N       | EM21  | <0.50                                  | <10                                  | <0.55                                     | 6.7                                   | 0.22                                    |
| <b>SWFTS-MW15</b> | 9/20/2017   | SWFTS-MW15-EM01 | N       | EM01  | 11,000                                 | 40,000                               | 10                                        | 1.6                                   | 0.27                                    |
| <b>SWFTS-MW15</b> | 9/26/2017   | SWFTS-MW15-EM02 | N       | EM02  | 12,000                                 | 41,000                               | 11                                        | 1.5                                   | 0.30                                    |
| <b>SWFTS-MW15</b> | 10/4/2017   | SWFTS-MW15-EM03 | N       | EM03  | 11,000                                 | 39,000                               | 12                                        | 1.4                                   | 0.38                                    |
| <b>SWFTS-MW15</b> | 10/10/2017  | SWFTS-MW15-EM04 | N       | EM04  | 18,000                                 | 40,000                               | 11                                        | 1.6                                   | 0.21                                    |
| <b>SWFTS-MW15</b> | 10/27/2017  | SWFTS-MW15-EM05 | N       | EM05  | 13,000                                 | 38,000                               | 13                                        | 1.8                                   | 0.78                                    |
| <b>SWFTS-MW15</b> | 11/14/2017  | SWFTS-MW15-EM06 | N       | EM06  | 9,900                                  | 38,000                               | 12                                        | 1.8                                   | 1.08                                    |
| <b>SWFTS-MW15</b> | 12/13/2017  | SWFTS-MW15-EM07 | N       | EM07  | 13,000                                 | 38,000                               | 12                                        | 1.6                                   | 3.83                                    |
| <b>SWFTS-MW15</b> | 2/19/2018   | SWFTS-MW15-EM08 | N       | EM08  | 12,000                                 | 47,000                               | 11                                        | 1.6                                   | 3.24                                    |
| <b>SWFTS-MW15</b> | 3/26/2018   | SWFTS-MW15-EM09 | N       | EM09  | 12,000                                 | 52,000                               | 12                                        | 1.7                                   | 5.95                                    |
| <b>SWFTS-MW15</b> | 5/2/2018    | SWFTS-MW15-EM10 | N       | EM10  | 13,000                                 | 59,000                               | 14                                        | 1.4                                   | 1.09                                    |
| <b>SWFTS-MW15</b> | 7/11/2018   | SWFTS-MW15-EM11 | N       | EM11  | 9,300                                  | 45,000                               | 12 J-                                     | 3.5                                   | 6.10                                    |
| <b>SWFTS-MW15</b> | 7/26/2018   | SWFTS-MW15-EM12 | N       | EM12  | 6,800                                  | 39,000                               | ---                                       | ---                                   | 2.73                                    |
| <b>SWFTS-MW15</b> | 8/15/2018   | SWFTS-MW15-EM13 | N       | EM13  | 9,000                                  | 52,000                               | 16                                        | 1.9                                   | 0.97                                    |
| <b>SWFTS-MW15</b> | 9/11/2018   | SWFTS-MW15-EM14 | N       | EM14  | 7,800                                  | 48,000                               | 16                                        | 1.4                                   | 0.73                                    |
| <b>SWFTS-MW15</b> | 10/9/2018   | SWFTS-MW15-EM15 | N       | EM15  | 6,400                                  | 28,000                               | 7.5                                       | 3.3                                   | 1.09                                    |
| <b>SWFTS-MW15</b> | 12/20/2018  | SWFTS-MW15-EM16 | N       | EM16  | 5,300                                  | 33,000                               | 9.4                                       | 1.8                                   | 0.91                                    |
| <b>SWFTS-MW15</b> | 2/25/2019   | SWFTS-MW15-EM17 | N       | EM17  | 6,200                                  | 31,000                               | 9.2                                       | 3.0                                   | 0.00                                    |
| <b>SWFTS-MW15</b> | 4/9/2019    | SWFTS-MW15-EM18 | N       | EM18  | 9,700                                  | 53,000                               | 14 J-                                     | 1.4                                   | 1.14                                    |

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|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW15</b> | 5/20/2019   | SWFTS-MW15-EM19    | N       | EM19  | 9,200                                  | 48,000                               | 15                                        | 1.6                                   | 0.65                                    |
| <b>SWFTS-MW15</b> | 7/2/2019    | SWFTS-MW15-EM20    | N       | EM20  | 8,800                                  | 49,000                               | 13                                        | 2.0                                   | 0.59                                    |
| <b>SWFTS-MW15</b> | 8/13/2019   | SWFTS-MW15-EM21    | N       | EM21  | 6,400                                  | 50,000                               | 14                                        | 1.7                                   | 0.56                                    |
| <b>SWFTS-MW16</b> | 9/22/2017   | SWFTS-MW16-EM01    | N       | EM01  | 1,700                                  | 8,700                                | 3.3                                       | 120                                   | 0.71                                    |
| <b>SWFTS-MW16</b> | 9/26/2017   | SWFTS-MW16-EM02    | N       | EM02  | 1,300                                  | 8,800                                | 3.8                                       | 68                                    | 1.54                                    |
| <b>SWFTS-MW16</b> | 10/3/2017   | SWFTS-MW16-EM03    | N       | EM03  | 1,600                                  | 6,300                                | 2.7                                       | 92                                    | 1.30                                    |
| <b>SWFTS-MW16</b> | 10/12/2017  | SWFTS-MW16-EM04    | N       | EM04  | 1,100                                  | 5,800                                | 2.1                                       | 180                                   | 1.32                                    |
| <b>SWFTS-MW16</b> | 10/24/2017  | SWFTS-MW16-EM05    | N       | EM05  | 830                                    | 4,700                                | 1.5                                       | 180                                   | 1.03                                    |
| <b>SWFTS-MW16</b> | 11/16/2017  | SWFTS-MW16-EM06    | N       | EM06  | <0.95                                  | 4,000                                | 1.2                                       | 110                                   | 0.49                                    |
| <b>SWFTS-MW16</b> | 12/12/2017  | SWFTS-MW16-EM07    | N       | EM07  | 490                                    | 3,100                                | 1.1                                       | 5.9                                   | 0.56                                    |
| <b>SWFTS-MW16</b> | 2/21/2018   | SWFTS-MW16-EM08    | N       | EM08  | 620                                    | 2,800                                | <1.1                                      | 7.7                                   | 0.49                                    |
| <b>SWFTS-MW16</b> | 3/27/2018   | SWFTS-MW16-EM09    | N       | EM09  | 9,000                                  | 46,000                               | 12                                        | 1.5                                   | 0.49                                    |
| <b>SWFTS-MW16</b> | 5/2/2018    | SWFTS-MW16-EM10    | N       | EM10  | 1,500 J                                | 11,000                               | 3.5                                       | 2.3                                   | 0.15                                    |
| <b>SWFTS-MW16</b> | 7/11/2018   | SWFTS-MW16-EM11    | N       | EM11  | <4.8                                   | <5.0                                 | <0.55                                     | 7.9                                   | 5.38                                    |
| <b>SWFTS-MW16</b> | 7/26/2018   | SWFTS-MW16-EM12    | N       | EM12  | <0.95                                  | <4.0                                 | ---                                       | ---                                   | 1.99                                    |
| <b>SWFTS-MW16</b> | 8/15/2018   | SWFTS-MW16-EM13    | N       | EM13  | 12                                     | 67                                   | <0.28                                     | 3.2                                   | 0.98                                    |
| <b>SWFTS-MW16</b> | 9/10/2018   | SWFTS-MW16-EM14    | N       | EM14  | 200                                    | 1,400                                | 0.42 J                                    | 2.9                                   | 0.78                                    |
| <b>SWFTS-MW16</b> | 10/11/2018  | SWFTS-MW16-EM15    | N       | EM15  | 340                                    | 2,200                                | 0.76 J                                    | 2.8                                   | 3.73                                    |
| <b>SWFTS-MW16</b> | 12/19/2018  | SWFTS-MW16-EM16    | N       | EM16  | 270                                    | 2,300                                | 1.0 J                                     | 2.5                                   | 0.4                                     |
| <b>SWFTS-MW16</b> | 2/26/2019   | SWFTS-MW16-EM17    | N       | EM17  | <0.95                                  | <10                                  | <0.55                                     | 5.6                                   | 0.00                                    |
| <b>SWFTS-MW16</b> | 4/9/2019    | SWFTS-MW16-EM18    | N       | EM18  | <0.95                                  | <10                                  | <0.55 UJ                                  | 2.9                                   | 0.47                                    |
| <b>SWFTS-MW16</b> | 5/20/2019   | SWFTS-MW16-EM19    | N       | EM19  | <0.95 UJ                               | <10                                  | <0.55                                     | 3.5                                   | 0.53                                    |
| <b>SWFTS-MW16</b> | 7/1/2019    | SWFTS-MW16-EM20    | N       | EM20  | <0.95                                  | <10                                  | <0.55                                     | 4.0                                   | 0.20                                    |
| <b>SWFTS-MW16</b> | 8/13/2019   | SWFTS-MW16-EM21    | N       | EM21  | 19                                     | 100                                  | <0.55                                     | 3.6                                   | 0.35                                    |
| <b>SWFTS-MW17</b> | 9/19/2017   | SWFTS-MW17-EM01    | N       | EM01  | 2,600                                  | 18,000                               | 16                                        | 1.2                                   | 5.07                                    |
| <b>SWFTS-MW17</b> | 9/19/2017   | SWFTS-MW17-EM01-FD | FD      | EM01  | 2,600                                  | 18,000                               | 16                                        | 1.3                                   | ---                                     |
| <b>SWFTS-MW17</b> | 9/26/2017   | SWFTS-MW17-EM02    | N       | EM02  | 2,800                                  | 17,000                               | 17                                        | 1.5                                   | 4.04                                    |
| <b>SWFTS-MW17</b> | 9/26/2017   | SWFTS-MW17-EM02-FD | FD      | EM02  | 2,800                                  | 17,000                               | 17                                        | 1.5                                   | ---                                     |
| <b>SWFTS-MW17</b> | 10/3/2017   | SWFTS-MW17-EM03    | N       | EM03  | 3,300                                  | 19,000                               | 15                                        | 1.1                                   | 6.87                                    |
| <b>SWFTS-MW17</b> | 10/3/2017   | SWFTS-MW17-EM03-FD | FD      | EM03  | 3,300                                  | 19,000                               | 16                                        | 1.0                                   | ---                                     |
| <b>SWFTS-MW17</b> | 10/10/2017  | SWFTS-MW17-EM04    | N       | EM04  | 2,800                                  | 16,000                               | 16                                        | 1.3                                   | 3.90                                    |
| <b>SWFTS-MW17</b> | 10/24/2017  | SWFTS-MW17-EM05    | N       | EM05  | 2,700                                  | 15,000                               | 17                                        | 1.2                                   | 5.28                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW17</b> | 10/24/2017  | SWFTS-MW17-EM05-FD | FD      | EM05  | 2,700                                  | 15,000                               | 16                                        | 2.2                                   | ---                                     |
| <b>SWFTS-MW17</b> | 11/15/2017  | SWFTS-MW17-EM06    | N       | EM06  | 2,300                                  | 16,000                               | 17                                        | 1.3                                   | 4.91                                    |
| <b>SWFTS-MW17</b> | 11/15/2017  | SWFTS-MW17-EM06-FD | FD      | EM06  | 2,200                                  | 15,000                               | 17                                        | 1.2                                   | ---                                     |
| <b>SWFTS-MW17</b> | 12/13/2017  | SWFTS-MW17-EM07    | N       | EM07  | 2,200                                  | 14,000                               | 16                                        | 1.2                                   | 5.54                                    |
| <b>SWFTS-MW17</b> | 12/13/2017  | SWFTS-MW17-EM07-FD | FD      | EM07  | 2,300                                  | 13,000                               | 16                                        | 1.2                                   | ---                                     |
| <b>SWFTS-MW17</b> | 2/22/2018   | SWFTS-MW17-EM08    | N       | EM08  | 2,000                                  | 15,000                               | 16                                        | 2.1                                   | 3.65                                    |
| <b>SWFTS-MW17</b> | 3/28/2018   | SWFTS-MW17-EM09    | N       | EM09  | 2,000                                  | 14,000                               | 15                                        | 1.2                                   | 3.49                                    |
| <b>SWFTS-MW17</b> | 5/3/2018    | SWFTS-MW17-EM10    | N       | EM10  | 1,900 J-                               | 11,000                               | 15                                        | 1.1                                   | 4.08                                    |
| <b>SWFTS-MW17</b> | 7/11/2018   | SWFTS-MW17-EM11    | N       | EM11  | 1,300                                  | 11,000                               | 15                                        | 1.1                                   | 4.35                                    |
| <b>SWFTS-MW17</b> | 8/16/2018   | SWFTS-MW17-EM13    | N       | EM13  | 1,600                                  | 12,000                               | 16                                        | 1.4                                   | 4.56                                    |
| <b>SWFTS-MW17</b> | 9/12/2018   | SWFTS-MW17-EM14    | N       | EM14  | 1,900                                  | 13,000                               | 15                                        | 1.0                                   | 3.49                                    |
| <b>SWFTS-MW17</b> | 10/11/2018  | SWFTS-MW17-EM15    | N       | EM15  | 2,100                                  | 15,000                               | 16                                        | 1.6                                   | 3.33                                    |
| <b>SWFTS-MW17</b> | 1/2/2019    | SWFTS-MW17-EM16    | N       | EM16  | 1,700                                  | 11,000                               | 15                                        | 1.2                                   | 6.18                                    |
| <b>SWFTS-MW17</b> | 2/28/2019   | SWFTS-MW17-EM17    | N       | EM17  | 1,700                                  | 13,000                               | 15                                        | 1.3                                   | 4.83                                    |
| <b>SWFTS-MW17</b> | 4/11/2019   | SWFTS-MW17-EM18    | N       | EM18  | 1,700                                  | 12,000                               | 14                                        | 1.3                                   | 4.74                                    |
| <b>SWFTS-MW17</b> | 5/22/2019   | SWFTS-MW17-EM19    | N       | EM19  | 1,900                                  | 13,000                               | 14                                        | 1.1                                   | 4.85                                    |
| <b>SWFTS-MW17</b> | 7/5/2019    | SWFTS-MW17-EM20    | N       | EM20  | 1,800                                  | 13,000                               | 16                                        | 1.3                                   | 4.91                                    |
| <b>SWFTS-MW17</b> | 8/16/2019   | SWFTS-MW17-EM21    | N       | EM21  | 2,200                                  | 13,000                               | 16                                        | 1.4                                   | 5.02                                    |
| <b>SWFTS-MW18</b> | 9/21/2017   | SWFTS-MW18-EM01    | N       | EM01  | 9,700                                  | 34,000                               | 8.9                                       | 2.0                                   | 0.59                                    |
| <b>SWFTS-MW18</b> | 9/27/2017   | SWFTS-MW18-EM02    | N       | EM02  | 11,000                                 | 36,000                               | 12                                        | 2.2                                   | 0.40                                    |
| <b>SWFTS-MW18</b> | 10/3/2017   | SWFTS-MW18-EM03    | N       | EM03  | 8,100                                  | 30,000                               | 8.6                                       | 1.5                                   | 2.22                                    |
| <b>SWFTS-MW18</b> | 10/10/2017  | SWFTS-MW18-EM04    | N       | EM04  | 9,700                                  | 40,000                               | 12                                        | 1.7                                   | 0.31                                    |
| <b>SWFTS-MW18</b> | 10/23/2017  | SWFTS-MW18-EM05    | N       | EM05  | 8,200                                  | 38,000                               | 12                                        | 1.7                                   | 0.98                                    |
| <b>SWFTS-MW18</b> | 11/15/2017  | SWFTS-MW18-EM06    | N       | EM06  | 11,000                                 | 37,000                               | 11                                        | 1.8                                   | 1.37                                    |
| <b>SWFTS-MW18</b> | 12/13/2017  | SWFTS-MW18-EM07    | N       | EM07  | 9,100                                  | 39,000                               | 12                                        | 1.6                                   | 0.40                                    |
| <b>SWFTS-MW18</b> | 2/22/2018   | SWFTS-MW18-EM08    | N       | EM08  | 8,900                                  | 45,000                               | 12                                        | 2.3                                   | 0.51                                    |
| <b>SWFTS-MW18</b> | 3/27/2018   | SWFTS-MW18-EM09    | N       | EM09  | 2,000                                  | 11,000                               | 3.9                                       | 2.5                                   | 0.25                                    |
| <b>SWFTS-MW18</b> | 3/27/2018   | SWFTS-MW18-EM09-FD | FD      | EM09  | 2,100                                  | 11,000                               | 3.5                                       | 2.4                                   | ---                                     |
| <b>SWFTS-MW18</b> | 5/1/2018    | SWFTS-MW18-EM10    | N       | EM10  | 9,200                                  | 50,000                               | 13                                        | 1.5                                   | 0.43                                    |
| <b>SWFTS-MW18</b> | 7/11/2018   | SWFTS-MW18-EM11    | N       | EM11  | 6,900                                  | 41,000                               | 11                                        | 1.6                                   | 0.01                                    |
| <b>SWFTS-MW18</b> | 7/26/2018   | SWFTS-MW18-EM12    | N       | EM12  | 6,100                                  | 43,000                               | ---                                       | ---                                   | 2.81                                    |
| <b>SWFTS-MW18</b> | 8/15/2018   | SWFTS-MW18-EM13    | N       | EM13  | 5,900                                  | 41,000                               | 13                                        | 2.0                                   | 0.58                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW18</b> | 9/11/2018   | SWFTS-MW18-EM14    | N       | EM14  | 5,600                                  | 41,000                               | 13                                        | 1.6                                   | 0.79                                    |
| <b>SWFTS-MW18</b> | 10/11/2018  | SWFTS-MW18-EM15    | N       | EM15  | 5,300                                  | 41,000                               | 13                                        | 2.1                                   | 1.88                                    |
| <b>SWFTS-MW18</b> | 12/20/2018  | SWFTS-MW18-EM16    | N       | EM16  | 5,000                                  | 38,000                               | 15                                        | 1.8                                   | 0.67                                    |
| <b>SWFTS-MW18</b> | 2/26/2019   | SWFTS-MW18-EM17    | N       | EM17  | 4,600                                  | 28,000                               | 11                                        | 1.9                                   | 0.00                                    |
| <b>SWFTS-MW18</b> | 4/9/2019    | SWFTS-MW18-EM18    | N       | EM18  | 4,800                                  | 26,000                               | 11 J-                                     | 1.6                                   | 0.48                                    |
| <b>SWFTS-MW18</b> | 5/21/2019   | SWFTS-MW18-EM19    | N       | EM19  | 4,600                                  | 25,000                               | 12                                        | 1.5                                   | 0.65                                    |
| <b>SWFTS-MW18</b> | 7/1/2019    | SWFTS-MW18-EM20    | N       | EM20  | 4,300                                  | 29,000                               | 12                                        | 1.9                                   | 0.41                                    |
| <b>SWFTS-MW18</b> | 8/13/2019   | SWFTS-MW18-EM21    | N       | EM21  | 4,600                                  | 25,000                               | 12                                        | 1.8                                   | 0.39                                    |
| <b>SWFTS-MW19</b> | 9/21/2017   | SWFTS-MW19-EM01    | N       | EM01  | 1,400                                  | 220                                  | 0.51                                      | 2.3                                   | 0.43                                    |
| <b>SWFTS-MW19</b> | 9/28/2017   | SWFTS-MW19-EM02    | N       | EM02  | 1,400                                  | 260                                  | 0.74                                      | 2.8                                   | 6.39                                    |
| <b>SWFTS-MW19</b> | 10/5/2017   | SWFTS-MW19-EM03    | N       | EM03  | 1,400                                  | 220                                  | 0.63                                      | 2.6                                   | 5.16                                    |
| <b>SWFTS-MW19</b> | 10/12/2017  | SWFTS-MW19-EM04    | N       | EM04  | 1,400                                  | 220 J+                               | 0.70                                      | 2.2                                   | 0.28                                    |
| <b>SWFTS-MW19</b> | 10/27/2017  | SWFTS-MW19-EM05    | N       | EM05  | 1,900                                  | 250                                  | 0.77                                      | 2.6                                   | 0.38                                    |
| <b>SWFTS-MW19</b> | 11/16/2017  | SWFTS-MW19-EM06    | N       | EM06  | 1,500                                  | 270                                  | 0.97                                      | 2.3                                   | 0.73                                    |
| <b>SWFTS-MW19</b> | 12/12/2017  | SWFTS-MW19-EM07    | N       | EM07  | 2,000                                  | 410                                  | 1.2                                       | 2.4                                   | 0.92                                    |
| <b>SWFTS-MW19</b> | 2/20/2018   | SWFTS-MW19-EM08    | N       | EM08  | 1,900                                  | 610                                  | 0.73                                      | 2.6                                   | 1.25                                    |
| <b>SWFTS-MW19</b> | 3/27/2018   | SWFTS-MW19-EM09    | N       | EM09  | 1,800                                  | 650                                  | 0.71                                      | 2.2                                   | 1.09                                    |
| <b>SWFTS-MW19</b> | 4/30/2018   | SWFTS-MW19-EM10    | N       | EM10  | 1,800                                  | 820                                  | 0.70                                      | 2.2                                   | 0.56                                    |
| <b>SWFTS-MW19</b> | 4/30/2018   | SWFTS-MW19-EM10-FD | FD      | EM10  | 1,700                                  | 760                                  | 0.67                                      | 2.2                                   | ---                                     |
| <b>SWFTS-MW19</b> | 7/10/2018   | SWFTS-MW19-EM11    | N       | EM11  | 2,000                                  | 1,100                                | 0.52                                      | 1.9                                   | 2.80                                    |
| <b>SWFTS-MW19</b> | 7/10/2018   | SWFTS-MW19-EM11-FD | FD      | EM11  | 2,000                                  | 1,000                                | 0.52                                      | 1.9                                   | ---                                     |
| <b>SWFTS-MW19</b> | 7/26/2018   | SWFTS-MW19-EM12    | N       | EM12  | 1,800                                  | 890                                  | ---                                       | ---                                   | 1.11                                    |
| <b>SWFTS-MW19</b> | 7/26/2018   | SWFTS-MW19-EM12-FD | FD      | EM12  | 1,700                                  | 890                                  | ---                                       | ---                                   | ---                                     |
| <b>SWFTS-MW19</b> | 8/15/2018   | SWFTS-MW19-EM13    | N       | EM13  | 1,700                                  | 900                                  | 0.44                                      | 2.4                                   | 0.95                                    |
| <b>SWFTS-MW19</b> | 9/11/2018   | SWFTS-MW19-EM14    | N       | EM14  | 1,500                                  | 850                                  | 0.37                                      | 2.0                                   | 1.06                                    |
| <b>SWFTS-MW19</b> | 10/9/2018   | SWFTS-MW19-EM15    | N       | EM15  | 2,000                                  | 870                                  | 0.41 J                                    | 2.4                                   | 1.43                                    |
| <b>SWFTS-MW19</b> | 10/9/2018   | SWFTS-MW19-EM15-FD | FD      | EM15  | 1,700                                  | 870                                  | 0.40 J                                    | 2.4                                   | ---                                     |
| <b>SWFTS-MW19</b> | 12/27/2018  | SWFTS-MW19-EM16    | N       | EM16  | 1,400                                  | 760                                  | 0.36                                      | 2.4                                   | 1.43                                    |
| <b>SWFTS-MW19</b> | 12/27/2018  | SWFTS-MW19-EM16-FD | FD      | EM16  | 1,300                                  | 760                                  | 0.36                                      | 2.1                                   | ---                                     |
| <b>SWFTS-MW19</b> | 2/27/2019   | SWFTS-MW19-EM17    | N       | EM17  | 1,300                                  | 590                                  | 0.35                                      | 2.1                                   | 0.14                                    |
| <b>SWFTS-MW19</b> | 2/27/2019   | SWFTS-MW19-EM17-FD | FD      | EM17  | 1,300                                  | 560                                  | 0.38 J                                    | 2.1                                   | ---                                     |
| <b>SWFTS-MW19</b> | 4/10/2019   | SWFTS-MW19-EM18    | N       | EM18  | 1,500                                  | 530                                  | 0.33 J                                    | 2.2                                   | 1.27                                    |

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**Groundwater Analytical Results**  
Seep Well Field Area Bioremediation Treatability Study

| Well              | Sample Date | Sample ID          | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW19</b> | 4/10/2019   | SWFTS-MW19-EM18-FD | FD      | EM18  | 1,300                                  | 510                                  | 0.37 J                                    | 2.1                                   | ---                                     |
| <b>SWFTS-MW19</b> | 5/21/2019   | SWFTS-MW19-EM19    | N       | EM19  | 1,200                                  | 420                                  | 0.18 J                                    | 3.3                                   | 1.22                                    |
| <b>SWFTS-MW19</b> | 5/21/2019   | SWFTS-MW19-EM19-FD | FD      | EM19  | 1,200                                  | 400                                  | 0.24                                      | 3.2                                   | ---                                     |
| <b>SWFTS-MW19</b> | 7/2/2019    | SWFTS-MW19-EM20    | N       | EM20  | 1,100                                  | 340                                  | 0.11                                      | 2.9                                   | 1.54                                    |
| <b>SWFTS-MW19</b> | 7/2/2019    | SWFTS-MW19-EM20-FD | FD      | EM20  | 1,100                                  | 340                                  | 0.11                                      | 3.1                                   | ---                                     |
| <b>SWFTS-MW19</b> | 8/15/2019   | SWFTS-MW19-EM21    | N       | EM21  | 1,200                                  | 260                                  | <0.28                                     | 2.6                                   | 1.6                                     |
| <b>SWFTS-MW19</b> | 8/15/2019   | SWFTS-MW19-EM21-FD | FD      | EM21  | 1,200                                  | 260                                  | <0.28                                     | 2.6                                   | ---                                     |
| <b>SWFTS-MW20</b> | 9/21/2017   | SWFTS-MW20-EM01    | N       | EM01  | 17,000                                 | 30,000                               | 7.3                                       | 2.5                                   | 3.72                                    |
| <b>SWFTS-MW20</b> | 9/26/2017   | SWFTS-MW20-EM02    | N       | EM02  | 16,000                                 | 33,000                               | 7.6                                       | 3.0                                   | 0.49                                    |
| <b>SWFTS-MW20</b> | 10/4/2017   | SWFTS-MW20-EM03    | N       | EM03  | 19,000                                 | 38,000                               | 9.6                                       | 2.6                                   | 0.22                                    |
| <b>SWFTS-MW20</b> | 10/12/2017  | SWFTS-MW20-EM04    | N       | EM04  | 14,000                                 | 42,000                               | 8.5                                       | 2.2                                   | 0.23                                    |
| <b>SWFTS-MW20</b> | 10/12/2017  | SWFTS-MW20-EM04-FD | FD      | EM04  | 14,000                                 | 40,000                               | 9.1                                       | 2.2                                   | ---                                     |
| <b>SWFTS-MW20</b> | 10/25/2017  | SWFTS-MW20-EM05    | N       | EM05  | 17,000                                 | 40,000                               | 11                                        | 2.6                                   | 0.45                                    |
| <b>SWFTS-MW20</b> | 11/16/2017  | SWFTS-MW20-EM06    | N       | EM06  | 7,900                                  | 16,000                               | 4.0                                       | 3.0                                   | 0.74                                    |
| <b>SWFTS-MW20</b> | 12/12/2017  | SWFTS-MW20-EM07    | N       | EM07  | 16,000                                 | 43,000                               | 8.5                                       | 2.2                                   | 0.20                                    |
| <b>SWFTS-MW20</b> | 2/19/2018   | SWFTS-MW20-EM08    | N       | EM08  | 6,600                                  | 16,000                               | 3.2                                       | 2.5                                   | 2.54                                    |
| <b>SWFTS-MW20</b> | 3/27/2018   | SWFTS-MW20-EM09    | N       | EM09  | 11,000                                 | 24,000                               | 5.2                                       | 2.2                                   | 3.64                                    |
| <b>SWFTS-MW20</b> | 4/30/2018   | SWFTS-MW20-EM10    | N       | EM10  | 6,700                                  | 14,000                               | 3.3                                       | 2.3                                   | 0.19                                    |
| <b>SWFTS-MW20</b> | 7/11/2018   | SWFTS-MW20-EM11    | N       | EM11  | 6,700                                  | 16,000                               | 3.2                                       | 2.8                                   | 1.72                                    |
| <b>SWFTS-MW20</b> | 7/26/2018   | SWFTS-MW20-EM12    | N       | EM12  | 7,500                                  | 19,000                               | ---                                       | ---                                   | 1.88                                    |
| <b>SWFTS-MW20</b> | 8/15/2018   | SWFTS-MW20-EM13    | N       | EM13  | 4,300                                  | 5,600                                | 2.8                                       | 2.8                                   | 0.81                                    |
| <b>SWFTS-MW20</b> | 8/15/2018   | SWFTS-MW20-EM13-FD | FD      | EM13  | 4,300                                  | 5,700                                | 2.7                                       | 2.8                                   | ---                                     |
| <b>SWFTS-MW20</b> | 9/11/2018   | SWFTS-MW20-EM14    | N       | EM14  | 3,400                                  | 8,500                                | 2.3 J                                     | 2.6                                   | 0.51                                    |
| <b>SWFTS-MW20</b> | 9/11/2018   | SWFTS-MW20-EM14-FD | FD      | EM14  | 3,900                                  | 9,500                                | 6.9 J                                     | 2.6                                   | ---                                     |
| <b>SWFTS-MW20</b> | 10/9/2018   | SWFTS-MW20-EM15    | N       | EM15  | 4,000                                  | 5,900                                | 2.2                                       | 3.0                                   | 1.96                                    |
| <b>SWFTS-MW20</b> | 12/20/2018  | SWFTS-MW20-EM16    | N       | EM16  | 2,800                                  | 830                                  | 2.1                                       | 2.8                                   | 0.97                                    |
| <b>SWFTS-MW20</b> | 2/26/2019   | SWFTS-MW20-EM17    | N       | EM17  | 1,500                                  | 170                                  | 1.5 J                                     | 3.2                                   | 0.36                                    |
| <b>SWFTS-MW20</b> | 4/9/2019    | SWFTS-MW20-EM18    | N       | EM18  | 1,400                                  | 300                                  | 1.7 J                                     | 2.9                                   | 0.64                                    |
| <b>SWFTS-MW20</b> | 5/21/2019   | SWFTS-MW20-EM19    | N       | EM19  | 1,000                                  | 69 J                                 | 1.3 J                                     | 2.8                                   | 0.41                                    |
| <b>SWFTS-MW20</b> | 7/2/2019    | SWFTS-MW20-EM20    | N       | EM20  | 870                                    | 37 J                                 | 0.70 J                                    | 4.0                                   | 0.43                                    |
| <b>SWFTS-MW20</b> | 8/13/2019   | SWFTS-MW20-EM21    | N       | EM21  | 390                                    | 23 J                                 | 0.41 J                                    | 3.4                                   | 0.42                                    |
| <b>SWFTS-MW21</b> | 9/21/2017   | SWFTS-MW21-EM01    | N       | EM01  | 5,200                                  | 15,000                               | 3.9                                       | 7.5                                   | 4.90                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|--------------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW21</b> | 9/27/2017   | SWFTS-MW21-EM02    | N       | EM02  | 950                                    | 4,700                                | 1.8 J                                     | 19                                    | 0.28                                    |
| <b>SWFTS-MW21</b> | 10/5/2017   | SWFTS-MW21-EM03    | N       | EM03  | 1,100                                  | 7,700                                | 3.2                                       | 24                                    | 4.40                                    |
| <b>SWFTS-MW21</b> | 10/11/2017  | SWFTS-MW21-EM04    | N       | EM04  | 820                                    | 4,200                                | 1.8                                       | 25                                    | 0.28                                    |
| <b>SWFTS-MW21</b> | 10/27/2017  | SWFTS-MW21-EM05    | N       | EM05  | 890                                    | 5,000                                | 2.0                                       | 2.8                                   | 0.45                                    |
| <b>SWFTS-MW21</b> | 11/15/2017  | SWFTS-MW21-EM06    | N       | EM06  | 2,300                                  | 13,000                               | 3.7                                       | 2.1                                   | 3.07                                    |
| <b>SWFTS-MW21</b> | 12/13/2017  | SWFTS-MW21-EM07    | N       | EM07  | 3,500                                  | 26,000                               | 4.7                                       | 1.6                                   | 0.68                                    |
| <b>SWFTS-MW21</b> | 2/20/2018   | SWFTS-MW21-EM08    | N       | EM08  | 4,800                                  | 34,000                               | 11                                        | 1.6                                   | 0.24                                    |
| <b>SWFTS-MW21</b> | 2/20/2018   | SWFTS-MW21-EM08-FD | FD      | EM08  | 4,900                                  | 33,000                               | 11                                        | 1.6                                   | ---                                     |
| <b>SWFTS-MW21</b> | 3/27/2018   | SWFTS-MW21-EM09    | N       | EM09  | 4,600                                  | 32,000                               | 10                                        | 1.1                                   | 0.37                                    |
| <b>SWFTS-MW21</b> | 4/30/2018   | SWFTS-MW21-EM10    | N       | EM10  | 4,400                                  | 27,000                               | 10                                        | 1.3                                   | 0.00                                    |
| <b>SWFTS-MW21</b> | 7/12/2018   | SWFTS-MW21-EM11    | N       | EM11  | 1,300                                  | 7,900                                | 2.8                                       | 3.7                                   | 0.06                                    |
| <b>SWFTS-MW21</b> | 7/27/2018   | SWFTS-MW21-EM12    | N       | EM12  | 1,000                                  | 9,000                                | ---                                       | ---                                   | 8.98 E                                  |
| <b>SWFTS-MW21</b> | 8/15/2018   | SWFTS-MW21-EM13    | N       | EM13  | 1,300                                  | 2,900                                | 1.9                                       | 2.7                                   | 0.68                                    |
| <b>SWFTS-MW21</b> | 9/12/2018   | SWFTS-MW21-EM14    | N       | EM14  | 2,000                                  | 2,600                                | 1.3                                       | 2.2                                   | 0.35                                    |
| <b>SWFTS-MW21</b> | 10/9/2018   | SWFTS-MW21-EM15    | N       | EM15  | 2,700                                  | 2,600                                | 2.9                                       | 1.9                                   | 0.59                                    |
| <b>SWFTS-MW21</b> | 12/20/2018  | SWFTS-MW21-EM16    | N       | EM16  | 3,000                                  | 5,200                                | 7.5                                       | 1.6                                   | 1.11                                    |
| <b>SWFTS-MW21</b> | 2/26/2019   | SWFTS-MW21-EM17    | N       | EM17  | 2,800                                  | 2,500                                | 9.3                                       | 1.4                                   | 0.00                                    |
| <b>SWFTS-MW21</b> | 4/10/2019   | SWFTS-MW21-EM18    | N       | EM18  | 2,400                                  | 200                                  | 7.1                                       | 1.3                                   | 3.78                                    |
| <b>SWFTS-MW21</b> | 5/22/2019   | SWFTS-MW21-EM19    | N       | EM19  | 3,100                                  | 530                                  | 9.6                                       | 1.3                                   | 0.57                                    |
| <b>SWFTS-MW21</b> | 7/1/2019    | SWFTS-MW21-EM20    | N       | EM20  | 3,400                                  | 4,500                                | 11                                        | 1.8                                   | 0.25                                    |
| <b>SWFTS-MW21</b> | 8/13/2019   | SWFTS-MW21-EM21    | N       | EM21  | 4,000                                  | 5,400                                | 11                                        | 1.5                                   | 0.38                                    |
| <b>SWFTS-MW22</b> | 9/20/2017   | SWFTS-MW22-EM01    | N       | EM01  | 4,000                                  | 6,700                                | 1.7                                       | 2.2                                   | 0.32                                    |
| <b>SWFTS-MW22</b> | 9/27/2017   | SWFTS-MW22-EM02    | N       | EM02  | 3,800                                  | 6,300                                | 1.7                                       | 2.6                                   | 0.12                                    |
| <b>SWFTS-MW22</b> | 10/5/2017   | SWFTS-MW22-EM03    | N       | EM03  | 3,500                                  | 6,000                                | 1.7                                       | 2.7                                   | 0.41                                    |
| <b>SWFTS-MW22</b> | 10/12/2017  | SWFTS-MW22-EM04    | N       | EM04  | 2,600                                  | 5,700                                | 1.4                                       | 2.3                                   | 2.72                                    |
| <b>SWFTS-MW22</b> | 10/26/2017  | SWFTS-MW22-EM05    | N       | EM05  | 3,700                                  | 5,500                                | 1.6                                       | 2.6                                   | 0.29                                    |
| <b>SWFTS-MW22</b> | 11/16/2017  | SWFTS-MW22-EM06    | N       | EM06  | 3,000                                  | 4,400                                | 1.3                                       | 2.5                                   | 0.45                                    |
| <b>SWFTS-MW22</b> | 12/14/2017  | SWFTS-MW22-EM07    | N       | EM07  | 2,500                                  | 4,900                                | 1.4                                       | 2.6                                   | 1.31                                    |
| <b>SWFTS-MW22</b> | 2/21/2018   | SWFTS-MW22-EM08    | N       | EM08  | 2,000                                  | 2,400                                | 0.89 J                                    | 2.4                                   | 0.43                                    |
| <b>SWFTS-MW22</b> | 3/28/2018   | SWFTS-MW22-EM09    | N       | EM09  | 2,000                                  | 2,600                                | 0.83                                      | 2.4                                   | 0.65                                    |
| <b>SWFTS-MW22</b> | 4/30/2018   | SWFTS-MW22-EM10    | N       | EM10  | 1,900                                  | 1,800                                | <0.055                                    | 2.2                                   | 0.26                                    |
| <b>SWFTS-MW22</b> | 7/10/2018   | SWFTS-MW22-EM11    | N       | EM11  | 2,900                                  | 840                                  | 0.81                                      | 2.3                                   | 2.80                                    |

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**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 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|-----------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW22</b> | 7/27/2018   | SWFTS-MW22-EM12 | N       | EM12  | 2,200                                  | 3,600                                | ---                                       | ---                                   | 4.13                                    |
| <b>SWFTS-MW22</b> | 8/16/2018   | SWFTS-MW22-EM13 | N       | EM13  | 2,400                                  | 1,300                                | 0.95 J+                                   | 2.4                                   | 2.29                                    |
| <b>SWFTS-MW22</b> | 9/11/2018   | SWFTS-MW22-EM14 | N       | EM14  | 2,800                                  | 1,600 J+                             | 1.2                                       | 2.2                                   | 0.47                                    |
| <b>SWFTS-MW22</b> | 10/9/2018   | SWFTS-MW22-EM15 | N       | EM15  | 3,100                                  | 1,600                                | 1.2                                       | 2.7                                   | 0.28                                    |
| <b>SWFTS-MW22</b> | 12/27/2018  | SWFTS-MW22-EM16 | N       | EM16  | 2,400                                  | 1,700                                | 1.3                                       | 2.4                                   | 0.6                                     |
| <b>SWFTS-MW22</b> | 2/27/2019   | SWFTS-MW22-EM17 | N       | EM17  | 2,500                                  | 2,100                                | 1.5                                       | 2.4                                   | 0.07                                    |
| <b>SWFTS-MW22</b> | 4/11/2019   | SWFTS-MW22-EM18 | N       | EM18  | 2,500                                  | 2,700                                | 1.7                                       | 2.4                                   | 0.57                                    |
| <b>SWFTS-MW22</b> | 5/21/2019   | SWFTS-MW22-EM19 | N       | EM19  | 2,500                                  | 2,500                                | 1.6                                       | 3.4                                   | 0.49                                    |
| <b>SWFTS-MW22</b> | 7/2/2019    | SWFTS-MW22-EM20 | N       | EM20  | 2,300                                  | 2,200                                | 1.5                                       | 2.7                                   | 0.43                                    |
| <b>SWFTS-MW22</b> | 8/12/2019   | SWFTS-MW22-EM21 | N       | EM21  | 2,300                                  | 2,300                                | 1.3                                       | 2.6                                   | 0.4                                     |
| <b>SWFTS-MW23</b> | 9/22/2017   | SWFTS-MW23-EM01 | N       | EM01  | 1,700                                  | 160 J                                | 0.64                                      | 3.1                                   | 0.55                                    |
| <b>SWFTS-MW23</b> | 9/28/2017   | SWFTS-MW23-EM02 | N       | EM02  | 1,700                                  | 120                                  | 0.67                                      | 3.3                                   | 0.16                                    |
| <b>SWFTS-MW23</b> | 10/5/2017   | SWFTS-MW23-EM03 | N       | EM03  | 1,900                                  | <2,000                               | 0.79                                      | 3.2                                   | 0.79                                    |
| <b>SWFTS-MW23</b> | 10/11/2017  | SWFTS-MW23-EM04 | N       | EM04  | 4,000                                  | 220                                  | 0.88                                      | 2.9                                   | 1.87                                    |
| <b>SWFTS-MW23</b> | 10/26/2017  | SWFTS-MW23-EM05 | N       | EM05  | 2,400                                  | 270                                  | 1.2                                       | 2.8                                   | 0.38                                    |
| <b>SWFTS-MW23</b> | 11/15/2017  | SWFTS-MW23-EM06 | N       | EM06  | 2,400                                  | 270                                  | 1.4                                       | 3.0                                   | 0.49                                    |
| <b>SWFTS-MW23</b> | 12/12/2017  | SWFTS-MW23-EM07 | N       | EM07  | 2,800                                  | 370                                  | 1.5                                       | 2.7                                   | 0.23                                    |
| <b>SWFTS-MW23</b> | 2/21/2018   | SWFTS-MW23-EM08 | N       | EM08  | 2,800                                  | 300 J-                               | 1.6                                       | 3.1                                   | 5.42                                    |
| <b>SWFTS-MW23</b> | 3/28/2018   | SWFTS-MW23-EM09 | N       | EM09  | 2,100                                  | 180                                  | 0.83                                      | 2.8                                   | 2.59                                    |
| <b>SWFTS-MW23</b> | 5/2/2018    | SWFTS-MW23-EM10 | N       | EM10  | 1,400                                  | 120                                  | 0.43                                      | 2.8                                   | 0.30                                    |
| <b>SWFTS-MW23</b> | 7/10/2018   | SWFTS-MW23-EM11 | N       | EM11  | 1,000                                  | 18 J                                 | 0.11                                      | 2.7                                   | 0.44                                    |
| <b>SWFTS-MW23</b> | 8/16/2018   | SWFTS-MW23-EM13 | N       | EM13  | 870                                    | 28                                   | 0.055 J                                   | 3.2                                   | 2.48                                    |
| <b>SWFTS-MW23</b> | 9/12/2018   | SWFTS-MW23-EM14 | N       | EM14  | 1,300                                  | 52                                   | 0.11                                      | 2.7                                   | 0.64                                    |
| <b>SWFTS-MW23</b> | 10/11/2018  | SWFTS-MW23-EM15 | N       | EM15  | 1,500                                  | 95 J                                 | <0.28                                     | 3.2                                   | 1.68                                    |
| <b>SWFTS-MW23</b> | 12/28/2018  | SWFTS-MW23-EM16 | N       | EM16  | 1,700                                  | 110                                  | 0.46                                      | 2.9                                   | 0.97                                    |
| <b>SWFTS-MW23</b> | 2/27/2019   | SWFTS-MW23-EM17 | N       | EM17  | 1,400                                  | 66                                   | 0.30                                      | 2.9                                   | 0.05                                    |
| <b>SWFTS-MW23</b> | 4/11/2019   | SWFTS-MW23-EM18 | N       | EM18  | 1,400                                  | 76                                   | 0.26                                      | 3.3                                   | 0.57                                    |
| <b>SWFTS-MW23</b> | 5/22/2019   | SWFTS-MW23-EM19 | N       | EM19  | 1,400                                  | 100                                  | 0.35                                      | 2.9                                   | 0.08                                    |
| <b>SWFTS-MW23</b> | 7/3/2019    | SWFTS-MW23-EM20 | N       | EM20  | 1,800                                  | 160                                  | 0.73                                      | 3.4                                   | 0.50                                    |
| <b>SWFTS-MW23</b> | 8/14/2019   | SWFTS-MW23-EM21 | N       | EM21  | 2,500                                  | 250                                  | 1.2                                       | 3.1                                   | 0.42                                    |
| <b>SWFTS-MW24</b> | 9/22/2017   | SWFTS-MW24-EM01 | N       | EM01  | 9,400                                  | 32,000                               | 9.0                                       | 1.7                                   | 1.31                                    |
| <b>SWFTS-MW24</b> | 9/28/2017   | SWFTS-MW24-EM02 | N       | EM02  | 5,200                                  | 12,000                               | 4.5                                       | 4.3                                   | 0.48                                    |

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Seep Well Field Area Bioremediation Treatability Study

| Well              | Sample Date | Sample ID       | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|-----------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW24</b> | 10/5/2017   | SWFTS-MW24-EM03 | N       | EM03  | 7,800                                  | 34,000                               | 9.4                                       | 2.0                                   | 0.76                                    |
| <b>SWFTS-MW24</b> | 10/11/2017  | SWFTS-MW24-EM04 | N       | EM04  | 4,400                                  | 17,000                               | 4.7                                       | 1.9                                   | 3.88                                    |
| <b>SWFTS-MW24</b> | 10/26/2017  | SWFTS-MW24-EM05 | N       | EM05  | 7,000                                  | 24,000                               | 7.9                                       | 2.0 J-                                | 3.06                                    |
| <b>SWFTS-MW24</b> | 11/15/2017  | SWFTS-MW24-EM06 | N       | EM06  | 4,100                                  | 14,000                               | 3.9                                       | 1.9                                   | 1.39                                    |
| <b>SWFTS-MW24</b> | 12/12/2017  | SWFTS-MW24-EM07 | N       | EM07  | 6,600                                  | 26,000                               | 6.1                                       | 1.5                                   | 1.11                                    |
| <b>SWFTS-MW24</b> | 2/21/2018   | SWFTS-MW24-EM08 | N       | EM08  | 6,100                                  | 22,000                               | 6.9                                       | 2.0                                   | 0.95                                    |
| <b>SWFTS-MW24</b> | 3/28/2018   | SWFTS-MW24-EM09 | N       | EM09  | 4,800                                  | 15,000                               | 5.4                                       | 1.6                                   | 0.55                                    |
| <b>SWFTS-MW24</b> | 5/2/2018    | SWFTS-MW24-EM10 | N       | EM10  | 4,800                                  | 12,000                               | 6.6                                       | 1.5                                   | 0.00                                    |
| <b>SWFTS-MW24</b> | 7/12/2018   | SWFTS-MW24-EM11 | N       | EM11  | 5,000                                  | 6,100                                | 7.3                                       | 1.3                                   | 0.10                                    |
| <b>SWFTS-MW24</b> | 7/27/2018   | SWFTS-MW24-EM12 | N       | EM12  | 4,000                                  | 7,100                                | ---                                       | ---                                   | 5.09                                    |
| <b>SWFTS-MW24</b> | 8/15/2018   | SWFTS-MW24-EM13 | N       | EM13  | 4,000                                  | 4,800                                | 7.6                                       | 1.9                                   | 1.83                                    |
| <b>SWFTS-MW24</b> | 9/12/2018   | SWFTS-MW24-EM14 | N       | EM14  | 3,700                                  | 3,500                                | 6.1                                       | 1.6                                   | 0.75                                    |
| <b>SWFTS-MW24</b> | 10/10/2018  | SWFTS-MW24-EM15 | N       | EM15  | 3,500                                  | 2,700                                | 6.5                                       | 2.0                                   | 2.95                                    |
| <b>SWFTS-MW24</b> | 1/2/2019    | SWFTS-MW24-EM16 | N       | EM16  | 3,500                                  | 2,000                                | 7.7                                       | 1.7                                   | 1.55                                    |
| <b>SWFTS-MW24</b> | 2/27/2019   | SWFTS-MW24-EM17 | N       | EM17  | 3,400                                  | 2,100                                | 7.8                                       | 1.5                                   | 1.29                                    |
| <b>SWFTS-MW24</b> | 4/10/2019   | SWFTS-MW24-EM18 | N       | EM18  | 2,700                                  | 1,100                                | 6.1                                       | 1.5                                   | 1.24                                    |
| <b>SWFTS-MW24</b> | 5/22/2019   | SWFTS-MW24-EM19 | N       | EM19  | 2,700                                  | 1,900                                | 5.8                                       | 1.6                                   | 1.18                                    |
| <b>SWFTS-MW24</b> | 7/1/2019    | SWFTS-MW24-EM20 | N       | EM20  | 2,800                                  | 1,900                                | 5.1                                       | 2.0                                   | 0.65                                    |
| <b>SWFTS-MW24</b> | 8/14/2019   | SWFTS-MW24-EM21 | N       | EM21  | 3,400                                  | 5,500                                | 6.9                                       | 1.9                                   | 0.63                                    |
| <b>SWFTS-MW25</b> | 9/22/2017   | SWFTS-MW25-EM01 | N       | EM01  | 280                                    | <200                                 | <0.55                                     | 13                                    | 0.50                                    |
| <b>SWFTS-MW25</b> | 9/28/2017   | SWFTS-MW25-EM02 | N       | EM02  | 370                                    | 130                                  | <0.55                                     | 4.8                                   | 0.14                                    |
| <b>SWFTS-MW25</b> | 10/5/2017   | SWFTS-MW25-EM03 | N       | EM03  | 230                                    | <500                                 | <0.55                                     | 3.3                                   | 0.96                                    |
| <b>SWFTS-MW25</b> | 10/11/2017  | SWFTS-MW25-EM04 | N       | EM04  | 140                                    | 160                                  | <0.55                                     | 2.7                                   | 0.26                                    |
| <b>SWFTS-MW25</b> | 10/26/2017  | SWFTS-MW25-EM05 | N       | EM05  | 420                                    | 170                                  | <0.28                                     | 2.6                                   | 0.98                                    |
| <b>SWFTS-MW25</b> | 11/15/2017  | SWFTS-MW25-EM06 | N       | EM06  | 440                                    | 630                                  | <0.55                                     | 2.5                                   | 1.11                                    |
| <b>SWFTS-MW25</b> | 12/12/2017  | SWFTS-MW25-EM07 | N       | EM07  | 2,300                                  | 1,700                                | <0.55                                     | 2.3                                   | 0.63                                    |
| <b>SWFTS-MW25</b> | 2/21/2018   | SWFTS-MW25-EM08 | N       | EM08  | 2,800                                  | 4,700                                | <1.1                                      | 2.4                                   | 0.32                                    |
| <b>SWFTS-MW25</b> | 3/28/2018   | SWFTS-MW25-EM09 | N       | EM09  | 4,600                                  | 11,000                               | 2.8                                       | 2.0                                   | 0.20                                    |
| <b>SWFTS-MW25</b> | 5/3/2018    | SWFTS-MW25-EM10 | N       | EM10  | 5,700                                  | 3,600                                | 4.2                                       | 1.9                                   | 0.00                                    |
| <b>SWFTS-MW25</b> | 7/10/2018   | SWFTS-MW25-EM11 | N       | EM11  | 4,300                                  | 2,100                                | 3.6                                       | 1.7                                   | 3.00                                    |
| <b>SWFTS-MW25</b> | 7/27/2018   | SWFTS-MW25-EM12 | N       | EM12  | 3,500                                  | 2,300                                | ---                                       | ---                                   | 2.49                                    |
| <b>SWFTS-MW25</b> | 8/15/2018   | SWFTS-MW25-EM13 | N       | EM13  | 4,500                                  | 4,300                                | 5.2                                       | 2.3                                   | 1.91                                    |

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| Well              | Sample Date | Sample ID       | QC Type | Event | Perchlorate by USEPA Method 314.0 ug/L | Chlorate by USEPA Method 300.1B ug/L | Nitrate (as N) by USEPA Method 300.0 mg/L | Total Organic Carbon by SM 5310B mg/L | Dissolved Oxygen Field Measurement mg/L |
|-------------------|-------------|-----------------|---------|-------|----------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------|
| <b>SWFTS-MW25</b> | 9/12/2018   | SWFTS-MW25-EM14 | N       | EM14  | 5,200                                  | 6,800                                | 6.9                                       | 1.9                                   | 0.47                                    |
| <b>SWFTS-MW25</b> | 10/11/2018  | SWFTS-MW25-EM15 | N       | EM15  | 5,000                                  | 7,600                                | 7.9                                       | 2.0                                   | 1.25                                    |
| <b>SWFTS-MW25</b> | 1/2/2019    | SWFTS-MW25-EM16 | N       | EM16  | 6,300                                  | 11,000                               | 8.7                                       | 2.0                                   | 0.97                                    |
| <b>SWFTS-MW25</b> | 2/27/2019   | SWFTS-MW25-EM17 | N       | EM17  | 4,000                                  | 6,400                                | 4.9                                       | 2.0                                   | 0.05                                    |
| <b>SWFTS-MW25</b> | 4/11/2019   | SWFTS-MW25-EM18 | N       | EM18  | 5,300                                  | 13,000                               | 7.4                                       | 2.1                                   | 0.81                                    |
| <b>SWFTS-MW25</b> | 5/22/2019   | SWFTS-MW25-EM19 | N       | EM19  | 5,700                                  | 15,000                               | 9.2                                       | 1.9                                   | 0.12                                    |
| <b>SWFTS-MW25</b> | 7/3/2019    | SWFTS-MW25-EM20 | N       | EM20  | 5,600                                  | 15,000                               | 8.1                                       | 2.2                                   | 0.47                                    |
| <b>SWFTS-MW25</b> | 8/14/2019   | SWFTS-MW25-EM21 | N       | EM21  | 6,600                                  | 19,000                               | 8.2                                       | 2.5                                   | 0.39                                    |

Notes:

mg/L - milligrams per liter

ug/L - micrograms per liter

-- not analyzed

< The analyte was tested 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. The associated numerical value is the approximate concentration of the analyte in the sample.

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.