



DEPARTMENT OF THE ARMY
CAMP STANLEY STORAGE ACTIVITY, MCAPP
25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

May 21, 2019

U-032-19

SUBJECT: Annual Status Report (Month 133 – Month 144, May 1, 2018 - April 30, 2019) of the Pilot Study Class V Aquifer Remediation Injection Wells at Camp Stanley Storage Activity, Boerne, Texas, TCEQ Authorization No. 5X2600431; WWC12002216; CN602728206/RN104431655

Mr. Bryan Smith
Texas Commission on Environmental Quality
Industrial and Hazardous Waste Permits Section
P.O. Box 13087 (MC-130)
Austin, TX 78711-3087

Dear Mr. Smith:

The Camp Stanley Storage Activity (CSSA), McAlester Army Ammunition Plant, U.S. Army Field Support Command, Army Material Command, U.S. Army, is submitting this annual report summarizing the injection activities performed at the on-post Solid Waste Management Unit (SWMU) B-3 site. The activities performed are part of the planned SWMU B-3 Corrective Measures to treat chlorinated compounds in groundwater via enhanced anaerobic biodegradation (EAB). Bioreactor activities include the injection of recovered groundwater into mulch/gravel filled bioreactor trenches and monitoring. Additional activities associated with this authorization include the injection of substrates, including lactate and emulsified vegetable oil (EVO), within bioreactor trenches and injection wells.

This annual report contains data as specified by the Texas Commission on Environmental Quality (TCEQ) Underground Injection Control (UIC) permit for the months of May 2018 through April 2019 (Months 133-144). The annual reporting data includes quarterly samples of the injected groundwater for volatile organic concentrations (VOCs), total dissolved solids (TDS), and field collected parameters including injection volumes, injection pressures and the pH of recovered groundwater, and volumes of injected substrates within injection wells. Data indicates that concentrations of contaminants did not exceed limits specified in 40 CFR §261.24 Table 1 as referenced in CSSA's UIC permit authorization.

Between May 1, 2018 and April 30, 2019 approximately 20,812,000 gallons of groundwater from wells CS-MW16-CC (~2,929,000 gallons), CS-MW16-LGR (~1,127,000 gallons), B3-EXW-01 (~2,951,000 gallons), B3-EXW-02 (~707,000 gallons), B3-EXW-03 (~5,133,000 gallons), B3-EXW-04 (~2,983,000 gallons), and B3-EXW-05 (~4,982,000 gallons) were injected into operational SWMU B-3 bioreactor

trenches 1, 2, and 6. A total of 227,241,540 gallons of recovered groundwater from CS-MW16-CC, CS-MW16-LGR, B3-EXW-01, B3-EXW-02, B3-EXW-03, B3-EXW-04, and B3-EXW-05 have been injected into trenches 1 through 6 since normal bioreactor operations began. Samples of the injected groundwater were collected during this reporting period on June 7, September 10, and December 6, 2018, and March 27, 2019. Analytical results are summarized in the attached Table 1. Field forms which contain operational pressures and pH readings for the reporting period are also attached. No substrate injections were performed within bioreactor trenches or injection wells associated with this Authorization (wells B3-MW01 through B3-MW04) during the reporting period.

Planned activities for the next reporting period, May 1, 2019 through April 30, 2020, include continued monthly, quarterly, and semi-annual monitoring, deciduous mulch refresh in trenches 1 and 2, and application of lactate within operational trenches and/or injection wells.

If you have any questions regarding the information contained in this letter, please feel free to contact me at (210) 295-7416 or Adrien Lindley, Parsons, at (512) 719-6052, adrien.lindley@parsons.com.

Sincerely,



Jason D. Shirley
Installation Manager

Enclosures

cc: Margarita Loya, CSSA Environmental Program Manager
Greg Lyssy, USEPA Region 6
Julie Burdey, Parsons (ltr only)
Ken Rice, Parsons
File: 640149.110093.04000

Table 1
Analytical Summary Data

Table 1

B3-UIC Analytical Results
March 2018 - March 2019

| | Sample ID | | Sample Date | | Sample Type | | Sampling Method | | Lab ID | | B3-UIC | | B3-UIC | | B3-UIC | | B3-UIC | | |
|------------------|-----------|---------|-------------|----------------------|-------------|----------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Lab MDL | Lab PQL | Lab PQL | Criteria (RCRA Haz.) | 03/21/18 | 06/07/18 | 09/10/18 | 12/06/18 | 03/27/19 | 03/21/18 | 06/07/18 | 09/10/18 | 12/06/18 | 03/27/19 | 03/21/18 | 06/07/18 | 09/10/18 | 12/06/18 | 03/27/19 |
| SW8260B (µg/L) | | | | | | | | | | | | | | | | | | | |
| cis-DCE | 0.07 | 1.2 | -- | -- | 53 | 1 | 1 | 64 | 1 | 1 | 18 | 1 | 102 | 1 | 66 | 1 | 66 | 1 | 1 |
| trans-DCE | 0.08 | 0.6 | -- | -- | 1.9 | 1 | 1 | 2.1 | 1 | 1 | 0.08 | U | 1.9 | 1 | 1.2 | 1 | 1.2 | 1 | 1 |
| TCE | 0.05 | 1.0 | 500 | | 57 | 1 | 1 | 56 | 1 | 1 | 19 | 1 | 90 | 1 | 68 | 1 | 68 | 1 | 1 |
| PCE | 0.06 | 1.4 | 700 | | 45 | 1 | 1 | 46 | 1 | 1 | 17 | 1 | 74 | 1 | 49 | 1 | 49 | 1 | 1 |
| Toluene | 0.06 | 1.1 | -- | | 0.06 | U | 1 | 0.06 | U | 1 | 0.06 | U | 0.06 | 1 | 0.06 | U | 0.06 | U | 1 |
| Vinyl chloride | 0.08 | 1.1 | 200 | | 0.08 | U | 1 | 0.08 | U | 1 | 0.08 | U | 0.08 | 1 | 0.08 | U | 0.08 | U | 1 |
| EPA 160.1 (mg/L) | | | | | | | | | | | | | | | | | | | |
| TDS | 4.4 | 10 | -- | | 375 | 1 | 1 | 410 | 2 | 2 | 293 | 1 | 300 | 1 | 353 | 1 | 353 | 1 | 1 |

Tables present all laboratory results for analytes.

Data packages for laboratory results are presented in Attachment 1.

All samples were analyzed by APPL Laboratory Services.

pH results reported were field measured.

UIC criteria specified in 40 CFR 261.24 Table 1.

Data Qualifiers:

U - The analyte was analyzed for, but not detected. The associated numeric

Abbreviations:

MDL Method Detection Limit

PQL Practical Quantitation Limit

N1 Environmental Sample

UIC Underground Injection Control

Field Forms

Semi-Annual Bioreactor Sampling

Personnel: B. Dietert / S. Elliott

| Sump ID | Sump Depth (ft B TOC) | Sample Date | Sample Time | Water Level (ft B TOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP | DO (mg/L) | Trench Currently Being Used | Notes |
|---------|-----------------------|-------------|-------------|------------------------|------|----------------|-----------------|--------|-----------|-----------------------------|-------|
| B3-T1-1 | 15.95 | 3/19/18 | 1450 | 12.10 | 6.56 | 22.06 | 1.122 | -96.6 | 2.50 | ✓ | |
| B3-T1-2 | 15.52 | 3/21/18 | 0945 | 11.47 | 6.65 | 22.06 | 1.129 | -122.6 | 0.45 | | |
| B3-T1-3 | 14.97 | 3/19/18 | 1430 | 10.75 | 6.46 | 23.35 | 0.828 | -106.1 | 0.21 | | |
| B3-T2-1 | 11.78 | 3/19/18 | N/A | 11.11 | 6.42 | 20.62 | 1.031 | 39.9 | 0.41 | | |
| B3-T2-2 | 11.12 | 3/19/18 | N/A | 10.81 | 6.49 | 22.57 | 0.741 | -104.2 | 1.16 | | |
| B3-T3-1 | 11.05 | 3/19/18 | N/A | Dry | | | | | | | |
| B3-T3-2 | 7.40 | 3/19/18 | N/A | Dry | | | | | | | |
| B3-T4-1 | 8.42 | 3/19/18 | N/A | Dry | | | | | | | |
| B3-T5-1 | 11.55 | 3/19/18 | N/A | 11.18 | 6.40 | 21.84 | 0.976 | 73.3 | 1.51 | | |
| B3-T5-2 | 11.04 | 3/19/18 | N/A | Dry | | | | | | | |
| B3-T6-1 | 14.63 | 3/19/18 | 1318 | 12.78 | 6.90 | 22.09 | 0.715 | 30.5 | 1.80 | ✓ | |
| B3-T6-2 | 15.56 | 3/19/18 | 0840 | 11.98 | 6.81 | 22.20 | 0.691 | -137.0 | 0.22 | | |
| B3-UIC | | 3/21/18 | 1050 | | 7.18 | 21.27 | 0.635 | 254.0 | 5.62 | | |

| Well ID | Pump Depth (ft. B TOC) | Sample Date | Sample Time | Water Level (ft. B TOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP (mV) | DO (mg/L) | Notes |
|------------|------------------------|-------------|-------------|-------------------------|------|----------------|-----------------|----------|-----------|-----------------------------------|
| B3-MW01 | 287 | | | | | | | | | (15-month) |
| CS-D | 253 | 3/5/18 | N/A | 256.3 | | | | | | Water Level Below Pump: No Sample |
| CS-MW1-LGR | 302 | 3/5/18 | 1345 | N/A | 7.03 | 21.86 | 0.590 | 288.8 | N/A | |
| CS-MW5-LGR | 407 | 3/21/18 | 1500 | N/A | 7.05 | 22.79 | 0.566 | 308.5 | N/A | |

| Westbay/Zone | Sampling Port (ft B TOC) | Sample Date | Sample Time | TOC Pressure (psi) | Pressure in MP (psi) | Zone Pressure |
|----------------|--------------------------|-------------|-------------|--------------------|----------------------|---------------|
| CS-WB05-LGR03B | 262 | 3/15/18 | 0926 | 14.09 | 23.85 | 14.71 |
| CS-WB06-LGR03B | 260 | 3/15/18 | 1110 | 14.16 | 26.49 | 42.97 |
| CS-WB07-LGR03B | 257 | 3/19/18 | 0938 | 14.05 | 14.20 | 34.12 |
| CS-WB08-LGR03B | 273 | 3/19/18 | Dry | 14.05 | 23.53 | 14.31 |

Semi-Annual Bioreactor Sampling

| Personnel: B. Dietert / S. Elliott | | | | | | | | | | | | |
|------------------------------------|----------------------|-------------|-------------|-----------------------|------|----------------|-----------------|--------|-----------|---------------------------------|-------|--|
| Sump ID | Sump Depth (ft BTOC) | Sample Date | Sample Time | Water Level (ft BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP | DO (mg/L) | Trench Currently Being Used (Y) | Notes | |
| B3-T1-1 | 15.95 | 6/4/18 | N/A | 12.08 | 6.56 | 22.06 | 1.122 | -96.6 | 2.50 | | | |
| B3-T1-2 | 15.52 | 6/4/18 | N/A | 11.87 | 6.65 | 22.06 | 1.129 | -122.6 | 0.45 | ✓ | | |
| B3-T1-3 | 14.97 | 6/4/18 | N/A | 11.09 | 6.46 | 23.35 | 0.828 | -106.1 | 0.21 | | | |
| B3-T2-1 | 11.78 | 6/4/18 | N/A | 11.06 | 6.42 | 20.62 | 1.031 | 39.9 | 0.41 | | | |
| B3-T2-2 | 11.12 | 6/4/18 | N/A | 10.75 | 6.49 | 22.57 | 0.741 | -104.2 | 1.16 | | | |
| B3-T3-1 | 11.05 | 6/4/18 | N/A | Dry | | | | | | | | |
| B3-T3-2 | 7.40 | 6/4/18 | N/A | Dry | | | | | | | | |
| B3-T4-1 | 8.42 | 6/4/18 | N/A | Dry | | | | | | | | |
| B3-T5-1 | 11.55 | 6/4/18 | N/A | 11.03 | 6.62 | 23.97 | 0.916 | -31.4 | 4.07 | | | |
| B3-T5-2 | 11.04 | 6/4/18 | N/A | Dry | | | | | | | | |
| B3-T6-1 | 14.63 | 6/4/18 | N/A | 11.62 | 7.16 | 23.99 | 0.714 | -174.5 | 0.63 | ✓ | | |
| B3-T6-2 | 15.56 | 6/4/18 | N/A | 11.45 | 6.97 | 24.13 | 0.727 | -211.7 | 0.20 | | | |
| B3-UIC | | 6/7/18 | 6.94 | | 6.94 | 24.64 | 0.580 | 262.1 | 12.33 | | | |

| Well ID | Pump Depth (ft. BTOC) | Sample Date | Sample Time | Water Level (ft. BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP (mV) | DO (mg/L) | Notes |
|------------|-----------------------|-------------|-------------|------------------------|----|----------------|-----------------|----------|-----------|-------------|
| B3-MW01 | 287 | | | | | | | | | (15-month) |
| CS-D | 253 | | | | | | | | | Semi-Annual |
| CS-MW1-LGR | 302 | | | | | | | | | Semi-Annual |
| CS-MW5-LGR | 407 | | | | | | | | | Semi-Annual |

| Westbay Zone | Sampling Port (ft. BTOC) | Sample Date | Sample Time | TOC Pressure (psi) | Pressure in MP (psi) | Zone Pressure (psi) |
|----------------|--------------------------|-------------|--------------|--------------------|----------------------|---------------------|
| CS-WB05-LGR03B | 262 | 6/14/18 | Profile Only | 14.17 | 21.84 | 14.94 |
| CS-WB06-LGR03B | 260 | 6/18/18 | Profile Only | 14.09 | 24.46 | 43.64 |
| CS-WB07-LGR03B | 257 | 6/18/18 | Profile Only | 14.12 | 14.25 | 33.76 |
| CS-WB08-LGR03B | 273 | 6/21/18 | Profile Only | 14.1 | 21.54 | 14.11 |

Semi-Annual Bioreactor Sampling

| Personnel: B. Dietert / S. Elliott | | | | | | | | | | | | |
|------------------------------------|-----------------------|-------------|-------------|------------------------|------|----------------|-----------------|--------|-----------|-----------------------------|-------|--|
| Sump ID | Sump Depth (ft B TOC) | Sample Date | Sample Time | Water Level (ft B TOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP | DO (mg/L) | Trench Currently Being Used | Notes | |
| B3-T1-1 | 15.95 | 9/20/18 | 1110 | 4.60 | 6.78 | 24.61 | 1.149 | 42.5 | 0.10 | ✓ | | |
| B3-T1-2 | 15.52 | 9/24/18 | 0810 | 4.03 | 6.88 | 25.81 | 1.440 | -186.2 | 0.39 | | | |
| B3-T1-3 | 14.97 | 9/20/18 | 0950 | 2.65 | 7.04 | 26.00 | 1.427 | 36.3 | 0.43 | | | |
| B3-T2-1 | 11.78 | 9/20/18 | N/A | 5.05 | 6.73 | 30.11 | 1.239 | 18.8 | 0.17 | | | |
| B3-T2-2 | 11.12 | 9/20/18 | N/A | 4.31 | 6.78 | 29.37 | 1.177 | -210.5 | 0.35 | | | |
| B3-T3-1 | 11.05 | 9/20/18 | N/A | 6.79 | 6.45 | 27.58 | 2.819 | -204.1 | 0.15 | | | |
| B3-T3-2 | 7.40 | 9/20/18 | N/A | 5.77 | 7.23 | 29.61 | 0.930 | 40.4 | 0.33 | | | |
| B3-T4-1 | 8.42 | 9/20/18 | N/A | 7.32 | 7.04 | 29.80 | 0.989 | 22.9 | 0.30 | | | |
| B3-T5-1 | 11.55 | 9/20/18 | N/A | 10.17 | 6.81 | 23.62 | 0.564 | 73.7 | 0.80 | | | |
| B3-T5-2 | 11.04 | 9/20/18 | N/A | 7.82 | 6.84 | 31.73 | 1.439 | -97.0 | 0.44 | | | |
| B3-T6-1 | 14.63 | 9/20/18 | 0855 | 12.51 | 6.85 | 23.48 | 0.560 | -135.8 | 0.41 | ✓ | | |
| B3-T6-2 | 15.56 | 9/20/18 | 0915 | 11.45 | 6.77 | 23.15 | 0.570 | 54.7 | 0.20 | | | |
| B3-UIC | | 9/10/18 | 1410 | | 7.02 | 22.82 | 0.477 | 189.8 | 5.53 | | | |

| Well ID | Pump Depth (ft. B TOC) | Sample Date | Sample Time | Water Level (ft. B TOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP (mV) | DO (mg/L) | Notes |
|------------|------------------------|-------------|-------------|-------------------------|------|----------------|-----------------|----------|-----------|------------|
| B3-MW01 | 287 | | | | | | | | | (15-month) |
| CS-D | 253 | 9/6/18 | 1013 | N/A | 7.13 | 22.39 | 0.491 | 150.2 | 3.74 | |
| CS-MW1-LGR | 302 | 9/6/18 | 0808 | N/A | 7.09 | 21.64 | 0.536 | 139.7 | 0.86 | |
| CS-MW5-LGR | 407 | 9/6/18 | 1106 | N/A | 7.04 | 22.48 | 0.500 | -30.4 | 1.76 | |

| Westbay Zone | Sampling Port (ft B TOC) | Sample Date | Sample Time | TOC Pressure (psi) | Pressure in MP (psi) | Zone Pressure |
|----------------|--------------------------|-------------|-------------|--------------------|----------------------|---------------|
| CS-WB05-LGR03B | 262 | 9/18/18 | 1332 | 14.14 | 21.53 | 76.04 |
| CS-WB06-LGR03B | 260 | 9/19/18 | 0828 | 14.13 | 24.51 | 61.09 |
| CS-WB07-LGR03B | 257 | 9/19/18 | 1030 | 14.15 | 14.28 | 85.17 |
| CS-WB08-LGR03B | 273 | 9/19/18 | 1255 | 14.12 | 21.62 | 77.31 |

Semi-Annual Bioreactor Sampling

| Personnel: B. Dietert / S. Elliott | | | | | | | | | | | | |
|------------------------------------|----------------------|-------------|-------------|-----------------------|------|----------------|-----------------|--------|-----------|---------------------------------|-------|--|
| Sample ID | Sump Depth (ft BTOC) | Sample Date | Sample Time | Water Level (ft BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP | DO (mg/L) | Trench Currently Being Used (N) | Notes | |
| B3-T1-1 | 15.95 | 12/27/18 | N/A | 5.68 | 7.10 | 20.94 | 0.672 | 41.5 | 0.73 | | | |
| B3-T1-2 | 15.52 | 12/27/18 | N/A | 5.40 | 6.96 | 20.11 | 0.629 | 23.7 | 0.28 | ✓ | | |
| B3-T1-3 | 14.97 | 12/27/18 | N/A | 3.88 | 7.19 | 17.69 | 0.733 | -347.7 | 0.20 | | | |
| B3-T2-1 | 11.78 | 12/27/18 | N/A | 6.10 | 6.80 | 20.08 | 0.863 | 112.2 | 0.23 | ✓ | | |
| B3-T2-2 | 11.12 | 12/27/18 | N/A | 5.40 | 6.87 | 20.67 | 0.786 | -37.7 | 0.17 | | | |
| B3-T3-1 | 11.05 | 12/27/18 | N/A | 7.45 | 6.78 | 20.83 | 0.742 | 36.8 | 0.23 | | | |
| B3-T3-2 | 7.40 | 12/27/18 | N/A | 6.31 | 6.83 | 19.72 | 0.812 | 81.1 | 1.62 | | | |
| B3-T4-1 | 8.42 | 12/27/18 | N/A | 6.96 | 6.69 | 20.89 | 0.774 | 138.5 | 1.36 | | | |
| B3-T5-1 | 11.55 | 12/27/18 | N/A | 7.60 | 6.99 | 20.63 | 0.607 | 168.2 | 1.15 | | | |
| B3-T5-2 | 11.04 | 12/27/18 | N/A | 7.25 | 6.60 | 20.97 | 0.860 | 154.6 | 0.44 | | | |
| B3-T6-1 | 14.63 | 12/27/18 | N/A | 7.49 | 7.00 | 19.85 | 0.623 | 177.4 | 1.18 | ✓ | | |
| B3-T6-2 | 15.56 | 12/27/18 | N/A | 7.25 | 7.19 | 20.67 | 0.612 | 173.1 | 3.51 | | | |
| B3-UIC | | 12/6/18 | 1400 | | 7.13 | 21.56 | 0.591 | 78.0 | 6.96 | | | |

| Well ID | Pump Depth (ft. BTOC) | Sample Date | Sample Time | Water Level (ft. BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP (mV) | DO (mg/L) | Notes |
|------------|-----------------------|-------------|-------------|------------------------|----|----------------|-----------------|----------|-----------|-------------|
| B3-MW01 | 287 | | | | | | | | | (15-month) |
| CS-D | 253 | | | | | | | | | Semi-Annual |
| CS-MW1-LGR | 302 | | | | | | | | | Semi-Annual |
| CS-MW5-LGR | 407 | | | | | | | | | Semi-Annual |

| Westbay Zone | Sampling Port (ft BTOC) | Sample Date | Sample Time | TOC Pressure (psi) | Pressure in MP (psi) | Zone Pressure (psi) |
|----------------|-------------------------|-------------|--------------|--------------------|----------------------|---------------------|
| CS-WB05-LGR03B | 262 | 12/10/18 | Profile Only | 14.33 | 22.58 | 81.19 |
| CS-WB06-LGR03B | 260 | 12/10/18 | Profile Only | 14.33 | 24.66 | 86.26 |
| CS-WB07-LGR03B | 257 | 12/10/18 | Profile Only | 14.33 | 14.47 | 84.42 |
| CS-WB08-LGR03B | 273 | 12/10/18 | Profile Only | 14.32 | 21.79 | 81.8 |

Semi-Annual Bioreactor Sampling

Personnel: B. Dietert / S. Elliott

| Sump ID | Sump Depth (ft. BTOC) | Sample Date | Sample Time | Water Level (ft. BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP | DO (mg/L) | Trench Currently Being Used | Notes |
|---------|-----------------------|-------------|-------------|------------------------|------|----------------|-----------------|--------|-----------|-----------------------------|-------|
| B3-T1-1 | 15.95 | 4/3/19 | 1045 | 6.27 | 7.00 | 21.63 | 0.654 | 69.3 | 2.03 | | |
| B3-T1-2 | 15.52 | 3/27/19 | 1305 | 6.41 | 6.84 | 21.36 | 0.833 | -158.2 | 0.57 | ✓ | |
| B3-T1-3 | 14.97 | 4/3/19 | 0945 | 4.99 | 7.04 | 21.02 | 0.752 | -4.5 | 0.61 | | |
| B3-T2-1 | 11.78 | 3/27/19 | 1025 | 6.89 | 6.78 | 20.26 | 0.842 | 42.6 | 1.67 | ✓ | |
| B3-T2-2 | 11.12 | 4/3/19 | 1015 | 6.05 | 6.67 | 20.30 | 0.770 | -165.8 | 0.69 | | |
| B3-T3-1 | 11.05 | 3/27/19 | N/A | 8.05 | 6.71 | 18.67 | 0.787 | 140.4 | 1.32 | | |
| B3-T3-2 | 7.40 | 3/27/19 | N/A | Dry | | | | | | | |
| B3-T4-1 | 8.42 | 3/27/19 | N/A | Dry | | | | | | | |
| B3-T5-1 | 11.55 | 3/27/19 | N/A | 7.85 | 7.14 | 20.82 | 0.695 | 413.2 | 3.65 | | |
| B3-T5-2 | 11.04 | 3/27/19 | N/A | 10.38 | 6.52 | 22.02 | 1.135 | -198.2 | 4.38 | | |
| B3-T6-1 | 14.63 | 3/27/19 | 1000 | 8.32 | 7.00 | 21.46 | 0.712 | 458.0 | 1.85 | | |
| B3-T6-2 | 15.56 | 3/27/19 | 0820 | 8.21 | 7.01 | 21.30 | 0.711 | 394.3 | 0.64 | ✓ | |
| B3-UIC | | 3/27/19 | 1415 | | 7.02 | 22.49 | 0.711 | 93.5 | 6.56 | | |

| Well ID | Pump Depth (ft. BTOC) | Sample Date | Sample Time | Water Level (ft. BTOC) | pH | Temp. (deg. C) | SpCond. (mS/cm) | ORP (mV) | DO (mg/L) | Notes |
|------------|-----------------------|-------------|-------------|------------------------|------|----------------|-----------------|----------|-----------|------------|
| B3-MW01 | 287 | | | | | | | | | (15-month) |
| CS-D | 253 | 3/6/19 | 0830 | N/A | 7.12 | 18.79 | 0.465 | 180.6 | 9.32 | |
| CS-MW1-LGR | 302 | 3/6/19 | 1310 | N/A | 7.04 | 19.79 | 0.491 | 113.1 | 3.50 | |
| CS-MW5-LGR | 407 | 3/6/19 | 1125 | N/A | 7.06 | 20.30 | 0.484 | 127.9 | 8.81 | |

| Westbay Zone | Sampling Port (ft. BTOC) | Sample Date | Sample Time | TOC Pressure (psi) | Pressure in MP (psi) | Zone Pressure |
|----------------|--------------------------|-------------|-------------|--------------------|----------------------|---------------|
| CS-WB05-LGR03B | 262 | 3/20/19 | 0807 | 14.15 | 21.22 | 79.56 |
| CS-WB06-LGR03B | 260 | 3/21/19 | 1320 | 14.14 | 23.51 | 85.02 |
| CS-WB07-LGR03B | 257 | 3/20/19 | 1447 | 14.14 | 14.45 | 82.42 |
| CS-WB08-LGR03B | 273 | 3/22/19 | 1357 | 14.16 | 21.56 | 80.08 |