JUNIPER RIDGE LANDFILL

Operated By
NEWSME Landfill Operations, LLC

April 29, 2021

Susan Parmelee
Department of Environmental Protection
Bureau of Remediation and Waste Management
17 State House Station
Augusta, ME 04333-0017

Re: Juniper Ridge Landfill 2020 Annual Report

Dear Ms. Parmelee:

Enclosed for your review is the Juniper Ridge Landfill 2020 Annual Report and supporting documentation as required.

Should you require additional information or clarification, please do not hesitate to contact me at 207-249-8025 or Wayne Boyd at 207-862-4200 ext. 224.

Respectfully submitted,

NEWSME Landfill Operations, LLC.

Jeffrey Pelletier
Environmental Manager

Enclosure

Cc: Lou Pizzuti, BGS
William Mayo, City of Old Town

2020 ANNUAL REPORT

JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

MEDEP LIC. #S-020700-7A-A-N,
Amendment #S-020700-WD-N-A, and
MEDEP LIC. #S-020700-WD-BI-N

April 2021

JUNIPER RIDGE LANDFILL

Operated by NEWSME Landfill Operations, LLC

2828 Bennoch Road, Old Town, Maine 04468 • (207) 394-4372

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1.0 INTRODUCTION

Pursuant to the requirements of 38 MRS §1310-N(6-D), this document, and associated attachments, serve as the 2020 Annual Report for the Juniper Ridge Landfill (JRL) located off Route 16 in Old Town, Maine. The information contained in this report also addresses the requirements of:

- Section 401.4.D of Maine Solid Waste Management Rules;
- Condition 19 of Solid Waste Order #S-020700-WD-N-A;
- Condition 4 of Solid Waste Order #S-020700-WD-W-M;
- Conditions 12, 14, 15, and 20 of Solid Waste Order #S-020700-WD-BI-N;
- Condition 2 of Solid Waste Orders #S-20700-WD-BW-M;
- Conditions 1 and 3 of Solid Waste Order #S-020700-WD-BM-Z; and
- Conditions 1 and 2 of Solid Waste Orders #S-20700-WD-BZ-C.

As the contracted operator of the Juniper Ridge Landfill, NEWSME Landfill Operations, LLC (NEWSME), an indirect subsidiary of Casella Waste Systems, Inc. (CWS) is submitting this annual report to the Maine Department of Environmental Protection (MEDEP) on behalf of the Maine Bureau of General Services (BGS). Pursuant to P.L. 2011, Chapter 655, Sec. GG-69, on July 1, 2012 the Bureau of General Services in the Department of Administrative and Financial Services became the owner and licensee of JRL. Prior to July 1, the State Planning Office (SPO) owned JRL and held its licenses. The SPO was abolished on July 1, 2012.

1.1 Overview

JRL property consists of a 780-acre site accessed off Route 16 in Alton, with a physical address of 2828 Bennoch Road, Old Town, Maine. The licensed solid waste footprint of the JRL is approximately 122 acres. A location map of the JRL site and the surrounding facilities is shown on Figure 1-1. The JRL was originally licensed (#S-020700-7A-A-N) by the Board of Environmental Protection on July 28, 1993 as a generator-owned landfill for disposal of pulp and papermaking residuals generated by the Fort James Paper Mill located in Old Town, Maine. The original approved capacity of the facility was approximately 3 million cubic yards. Landfill operations began in Cell 1 in December 1996.

In June 2003, the Maine legislature passed Resolve 2003, Chapter 93, which authorized the State of Maine to pursue the purchase of the JRL from Fort James Operating Company. The final purchase agreement between SPO and Fort James would provide disposal capacity for the mill's waste for a 30-year period. On October 30, 2003, the SPO submitted an amendment application to the MEDEP to increase the approved final elevation of the landfill, and to dispose of additional waste streams at the facility.

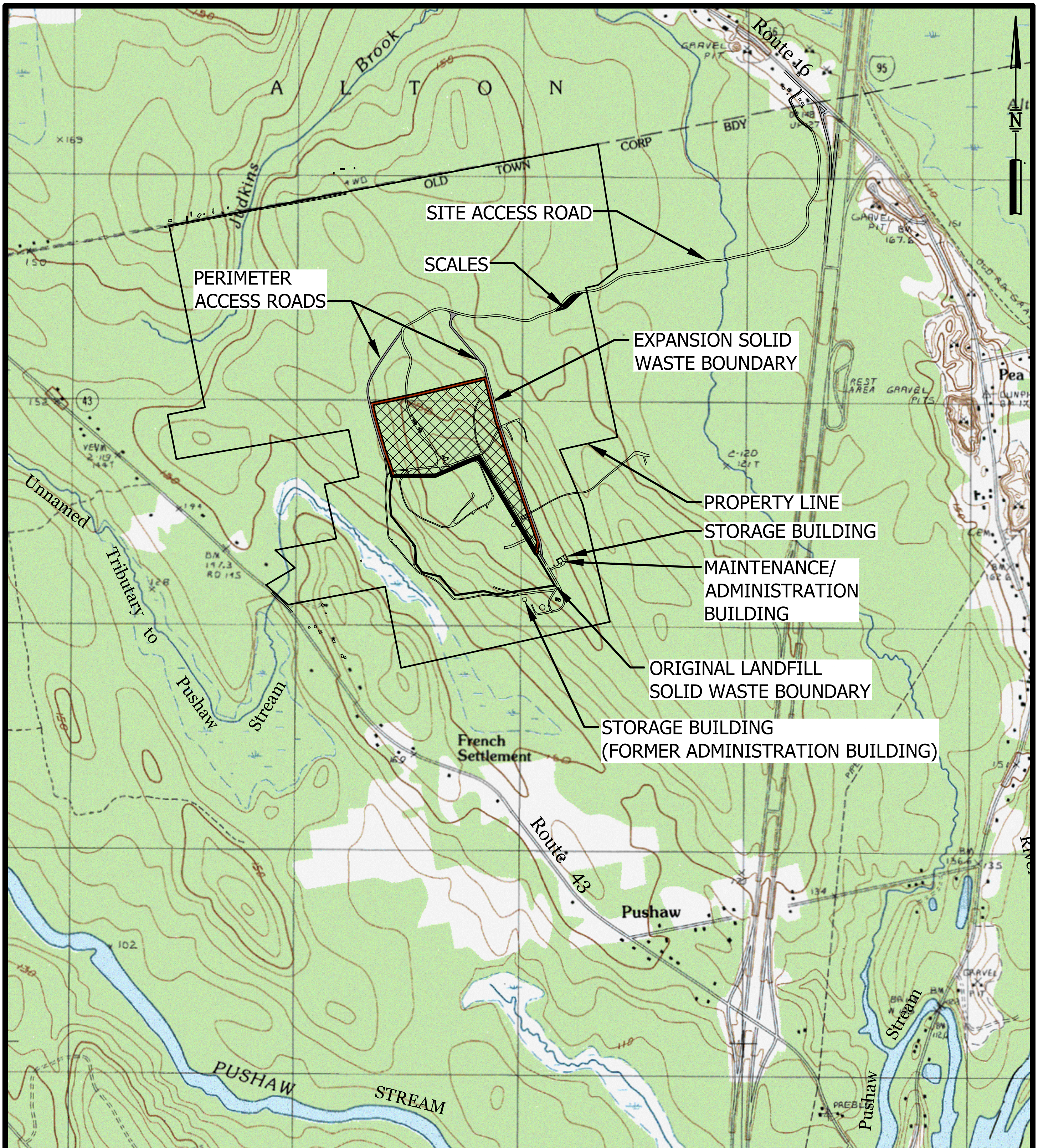
On February 5, 2004, SPO formally purchased the JRL property from Fort James and signed an Operating Services Agreement with NEWSME to operate the facility for a 30-year period. At the same time, previously approved MEDEP operating licenses for the JRL were transferred to the SPO. On April 9, 2004, the MEDEP approved the amendment application and issued permit #S-020700-WD-N-A to the SPO to increase the original JRL capacity from approximately 3.3 million cubic yards to approximately 10.2 million cubic yards. An expansion of an additional 9.35 million cubic yards of capacity was approved for the site by the Maine Board of Environmental Protection (MEBEP) on June 1, 2017 with Board Order #S-020700-WD-BI-N and #L-19015-TG-D-N.

Since the execution of the Operating Services Agreement, NEWSME has been operating the site and is responsible for costs associated with development, operation and closure/post-closure activities at the JRL.

To date, Cells 1, 2, 3A, 3B, 4, 5, 6, 7, 8, 9, and 10 of the 2004 amendment license have been constructed; this accounts for the 68-acre landfill approved by the MEDEP Solid Waste Order #S-020700-WD-N-A. The last phase of filling the originally permitted landfill includes filling over the eastern and northern outer waste side slopes of the originally permitted landfill cells to achieve final waste grades of the 2004 permitted footprint. It is NEWSME's intent to fill this capacity in conjunction with the filling of expansion cells.

To date, Cells 11 and 12 have been constructed as part of the 54 acre JRL expansion, approved by MEBEP Board Order #S-020700-WD-BI-N and #L-19015-TG-D-N. Cell 11 was constructed in 2018, followed by Cell 12 in 2020. Approval to commence waste placement in Cell 12 was issued by the MEDEP on September 4, 2020. In 2020 filling occurred primarily in Cell 11 and 12, along with other adjacent cells located in the 2004 permitted footprint. Intermediate cover was placed once final waste grades were reached.

As of December 31, 2020, 7,458,799 cubic yards of total permitted capacity remained at the JRL. Of that total permitted capacity, 895,289 cubic yards remained in the previously constructed Cells 1 – 10 of the 2004 permitted footprint (#S-020700-WD-N-A), 645,310 cubic yards remained in the previously constructed Cells 11 and 12 (the first two of seven landfill cells to be built as part of the JRL expansion footprint (#S-020700-WD-BI-N)), and 6,563,510 cubic yards remained entire JRL expansion footprint (#S-020700-WD-BI-N).



NOTE:

BASE MAP ADAPTED FROM 7.5 MIN
USGS TOPOGRAPHIC QUADRANGLE
OLD TOWN, MAINE-1988

1000 0 2000 4000 FEET

DWG: SITELOC LMN: SITELOC CTB: SME-STD REV: 4/3/2020

FIGURE 1-1
SITE LOCATION MAP
JUNIPER RIDGE LANDFILL EXPANSION
OLD TOWN, MAINE

SME
Sevee & Maher Engineers, Inc.
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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1.2 Annual Report Format

This Annual Report contains the information required by Section 401.4.D of the Maine Solid Waste Management Rules (Rules), including a general summary of activities during 2020, a compliance evaluation performed by JRL's environmental manager, a summary of 2020 operations and operational information, a summary of facility site changes, a summary of the site monitoring performed at and around the site during 2020, an update of the costs and documentation of changes to the closure and post-closure funding of the facility, and a summary of best efforts by CWS to divert MSW from landfilling at the JRL to the greatest extent practicable.

2.0 SUMMARY OF SITE ACTIVITIES

2.1 Site Activities

The following landfill related site activities occurred at JRL during 2020:

- Construction of Cell 12 and associated infrastructure;
- Placement of soft layer/frost layer material in Cell 12, along with routine waste material placement in both Cells 11 and 12 of the expansion footprint;
- Continuance of placing waste material in the 2004 permitted footprint;
- Completed the rough coat (binder) on the access road adjacent to Cell 12;
- Completed Detention Pond 10;
- Relocated the clean water loading rack near the lined stormwater pond;
- Completed the relocation of the old scales to the new scale house;
- Excavation and stockpiling of soils from the borrow area;
- Continued placement of intermediate cover on the 2004 permitted footprint and the side slopes of Cell 11 as waste grades were achieved;
- Continued installation of new landfill gas collection components on the original 2004 permitted footprint and Cells 11 and 12 of the expansion. Components installed included new vertical LFG extraction wells, gas collection trenches, 12" header piping, and lateral extraction piping;
- Relocated the former office building for future use as a storage building; and
- Completed drilling of Cell 13 Baseline Monitoring wells.

2.2 Summary of Applications Submitted and/or Approved at JRL in 2020

The following MEDEP, Local, and Federal applications were submitted and/or approved during 2020 relating to operations at JRL:

Table 2-1 Summary of Applications Submitted and/or Approved at JRL, 2020

Application Description	Agency	Permit/License Number
Application for Sales and Use Tax Exemption Certification (Water/Air Pollution Control Facilities)	MEDEP	A-921-75-G-X / W-009230-64-A-N
Permission to Relocate the Former JRL Office Building to the South End of JRL for Future Use as Cold Storage	MEDEP	Approved (no permit issued)
One Time Waste Disposal – Gravel, Soil, and RR Ballast Stone with Sika (GAC Chemical Corporation)	MEDEP	S-020700-WT-CC-N
On-going disposal of Various Special Wastes and Revisions to On-going Special Waste Licenses	MEDEP	S-020700-WU-CD-N
Maine Construction General Permit - Cell 12 Construction Area, Detention Pond 10, Clearing Future Cell 13, and a portion of Cell 14	MEDEP	Approved (after 14 day waiting period)
Federal Fish & Wildlife Permit Renewal (Bird Depredation)	US Department of Fish and Wildlife	No License decision by 12/31/20
One Time Waste Disposal – Soil Impacted with Pulp Sludge and Ash (Rowe School - Yarmouth)	MEDEP	S-020700-WT-CE-N
Application for Order of Compliance with a Solid Waste Condition (License Amendment #S-020700-WD-BL-A and #S-020700-WD-BM-Z- Condition #7)	MEDEP	S-020700-WD-BZ-C
Submittal of the Cell 12 Construction Design Report	MEDEP	S-020700-WD-CB-C
Submittal of 8 permit change orders,test pad results, and construction documentaion report for Cell 12 construction	MEDEP	Approved (no permit issued)
One Time Waste Disposal – PCB/Lead Paint Building Debris (St. John's Church - South Portland)	MEDEP	S-020700-WT-CF-N
Request to Eliminate VOA Sampling on Cell 12 Baseline Monitoring Wells after Two Sampling Rounds (MW-04-09A, MW-04-09B, and MW-502)	MEDEP	Approved (no permit issued)
One Time Waste Disposal – Lead Stabilized Soil (Stanley's Boat Yard - Southwest Harbor)	MEDEP	S-020700-WT-CH-N
Request for Approval to Commence Operations in Cell 12	MEDEP	Approved (no permit issued)
One Time Waste Disposal – PCB Contaminated Plywood (MT. Ararat High School-Topsham)	MEDEP	S-020700-WT-CJ-N
One Time Waste Disposal – Graphite and Carbon Dust (Fiber Materials - Biddeford)	MEDEP	S-020700-WT-CI-N
Submittal to Use Existing Well PW-80-01 (as a Replacement for MW-504A), During the Cell 13 Baseline Monitoring	MEDEP	No decision by 12/31/20
One Time Waste Disposal – Contaminated Solid (CMP Utility Pole Storage Area - Bridgton)	MEDEP	S-020700-WT-CK-N
Minor Revision Application for JRL Air License A-921-70-B-R to Reflect the Update in Applicable USEPA Standards for MWS Landfills (from NSPS Subpart WWW to NSPS Subpart XXX and NESHAP Subpart AAAA	MEDEP	No License decision by 12/31/20

2.3 Compliance Self-Audit

As required by Section 401.4.D (1) (b) of the Rules, JRL performed an annual evaluation of landfill operations for calendar year 2020. A copy of the Audit is included as Attachment A of this report.

3.0 SUMMARY OF OPERATIONS

3.1 Types of Wastes Received at JRL during 2020

During calendar year (CY) 2020, JRL received and disposed of a total of 835,261 tons of waste material. Table 3-1 summarizes the waste types received, along with their corresponding tonnages.

In compliance with JRL's permit condition, wastes going to the landfill were screened in advance to prevent out-of-state wastes from being accepted at the facility.

3.2 Estimates of Capacity Utilized during 2020 and Remaining Capacity

Based on the June 26, 2020 aerial survey results, approximately -171,021 cubic yards of capacity was utilized from Cells 1 – 10 of the 2004 permitted footprint (#S-020700-WD-N-A), while approximately 1,286,021 cubic yards was utilized in Cells 11 and 12 of the JRL expansion footprint (#S-020700-WD-BI-N) during 2020. Capacity gained in the 2004 permitted footprint was due to routine settlement.

As of December 31, 2020, 7,458,799 cubic yards of total permitted capacity remained at the JRL. Of that total permitted capacity, 895,289 cubic yards remained in the previously constructed Cells 1 – 10 of the 2004 permitted footprint (#S-020700-WD-N-A), 645,310 cubic yards remained in the previously constructed Cells 11 and 12, the first two of seven landfill cells to be built as part of the JRL expansion footprint (#S-020700-WD-BI-N), and 6,563,510 cubic yards remained entire JRL expansion footprint (#S-020700-WD-BI-N).

These remaining capacity totals are based on survey data through June 26, 2020 and an estimate of the capacity consumed for the remainder of the year using a compaction rate of 0.93 tons/cubic yard applied to the over-the-scale tonnage. Since the survey data for the entire site is utilized to estimate the capacity consumed and remaining, these values account for capacity gained due to settlement, compaction, and/or decomposition of the waste within the landfill up until the date of the survey. Future settlement and compaction rates may vary.

Table 3-1 Summary of Wastes Accepted at JRL, 2020

Summary of Wastes Accepted at Juniper Ridge Landfill Report Year 2020				
Waste Type #	**Waste Types**	**Total (tons)**	**Origin**	**% Total Waste**
1	Bypass MSW[6]	110,866	Maine	13.3
2	CDD/MSW Processing Residue - OBW (Disposed of in the Original 2004 Permitted Footprint)	1,685	Maine	0.2
3	CDD/MSW Processing Residue - OBW (Disposed of in the Expansion Permitted Footprint)[5]	84,350	Maine	10.1
4	CDD Processing Residue - Fines[1]	100,134	Maine	12.0
5	FEPR	-	Maine	0.0
6	Mixed CDD	322,636	Maine	38.6
7	MSW[4]	55,470	Maine	6.6
8	Wood from CDD[2]	2,107	Maine	0.3
9	Residue/Trash from Single Stream	6,800	Maine	0.8
	Special Wastes Types			
10	Burn Pile Ash and/or Hot Loads Area Ash	614	Maine	0.1
11	Catch Basin Grit & Street Sweeping	692	Maine	0.1
12	Coal, Oil & Multi-fuel Boiler Ash	6,253	Maine	0.7
13	Contaminated Soil & Debris	7,432	Maine	0.9
14	Dredged Spoils	129	Maine	0.0
15	Graphite/Carbon Dust	4	Maine	0.0
16	Industrial WWTP Sludge	17,964	Maine	2.2
17	Leather Scraps	29	Maine	0.0
18	Lime Mud/Grit	1,039	Maine	0.1
19	MSW Incinerator Ash	31,265	Maine	3.7
20	Municipal WWTP/POTW Sludge	64,443	Maine	7.7
21	Non-Friable Asbestos	840	Maine	0.1
22	Non-Hazardous Chemical Related	2,239	Maine	0.3
23	Oil Spill Debris	5,130	Maine	0.6
24	Polyethylene & Cellulose Trimmings	9,616	Maine	1.2
25	Pulp Mill Waste	946	Maine	0.1
26	Sandblast Grit	487	Maine	0.1
27	Spoiled Foods	526	Maine	0.1
28	Sulfur Scrubbing Residues	792	Maine	0.1
29	Water/Air Filtration Media	41	Maine	0.0
30	WWTP Grit Screenings	734	Maine	0.1
SUBTOTAL WASTE TYPES 1-9		684,048	Maine	81.9
SUBTOTAL WASTE TYPES 10-30		151,213	Maine	18.1
GRAND TOTAL WASTE RECEIVED[3]		**835,261**	Maine	

1. Used as alternative daily cover (ADC).

2. Wood from CDD was received at the Juniper Ridge Landfill wood storage facility (ADC).

3. Total derived from sum of higher significant digit numbers, not rounded whole numbers as provided in the above table.

4. Non-bypass MSW was limited to 81,800 tons in the Original 2004 Permitted Footprint from 04/01/19 - 03/31/20. During this time frame 80,366 tons were disposed of. An additional six month was also granted for the same area, allowing an additional 40,900 tons between 04/01/20 - 09/30/20. During this time frame 40,886 tons were disposed of. Numbers reported above are for calendar year 2020.

5. On 12/20/19, MEDEP approved an increase of OBW in the Expansion area. The previous limit of 65,000 tons per year, set by expansion license #S-020700-WD-BI-N, was modified through solid waste minor revision #S-020700-WD-BW-M. The minor revision approved additional disposal of OBW to 85,000 tons for calendar year 2020.

6. CRM/MRC 8,357.94 tons, ecomaine 8,258.87 tons, PERC 94,249.25 tons

3.3 Estimates of the Amount of Cover Material Placed

During 2020, a mixture of synthetic and soil cover was utilized as final waste grades were reached. Approximately 6 acres of synthetic cover (30 and 40-mil) was placed on the side slopes of Cell 11. Approximately 14 acres of soil cover was utilized on the top of the 2004 permitted footprint and the top of Cell 11, where previous soil cover had been removed to add additional waste material to reach final waste grade elevations.

Throughout 2020 operational areas received alternate daily cover (ADC). ADC is also used as a bedding layer on the waste side slopes prior to placement of the intermediate cover. Approved ADC materials utilized throughout the year included: CDD processing residue wood fines and clean wood from CDD after being chipped. Total ADC usage for 2020 amounted to 102,241 tons. Utilization of waste-related materials for daily cover and bedding for the intermediate cover obviated the use of virgin soil material.

3.4 Summary of Changes to the Facility's Operations Manual

Included as Attachment C are updated sections to include in the JRL Expansion Operations Manual (April 2020). Once included the Operations Manual will be complete and will be considered the April 2021 revision. The updates sections for the 2021 revision are listed below:

- Binder Cover/Spline Label
- JRL Expansion Operations Manual Narrative Section
- Appendix A - MEDEP Operating Permits
- Appendix C - Operator Training Program Outline
- Appendix D - Cell Development Plans for Cell 13 (to be added)
- Appendix F – Updated JRL SWPPP

3.5 Proposed Changes to the Operations Manual or Other Landfill Operations

During 2021, JRL staff plan to continue updating the revised April 2021 JRL Expansion Operations Manual as changes arise. Changes will likely occur with the addition of Cell 13, set to be constructed during the 2021 construction season.

In 2021 JRL will continue filling/shaping Cell 11 and 12 until Cell 13 is constructed. Once constructed, due to the lack of availability of MSW for disposal at the JRL (except for bypass MSW if available), the preferred source of soft layer material, the Cap 1 Area will once again be mined as a source of soft layer material for Cell 13.

The Cap 1 final cover installation is currently scheduled to occur sometime in 2022, along with the construction of Cell 14.

3.6 Responses to Spills, Fires, Accidents or Unusual Events at the Landfill

During 2020, the JRL facility experienced spills, fires, and waste related events. All spills were properly cleaned up by JRL Staff or a 3rd party environmental services company. Further details of the events are listed below.

Petroleum Related Spills

One (1) Small hydraulic fluid spill occurred in 2020. The spill occurred when a 3rd party hauler's trailer detached from his truck while turning onto the landfill access road from Route 16. During the event, a hydraulic hose from the truck ruptured. The MEDEP spill hotline was contacted regarding the spill.

Leachate Related Spills

Two (2) Leachate related spills occurred in 2020. One small leachate spill occurred near a concrete manhole structure next to the lined stormwater pond (formerly the leachate pond). The other small leachate spill occurred on the JRL Perimeter Access Road where it meets with the bottom of the West Road. The MEDEP was contacted regarding both spills.

Waste Related Fires

During 2020, on-site waste-related fires occurred at JRL. All fires were resolved by JRL site personnel. Of the fire events, several occurred in both active waste placement areas and/or areas where synthetic intermediate cover was installed. The MEDEP Project Manager was notified when the fires occurred and was made aware of their causes and resolutions.

Active waste placement fires were typically extinguished with the use of both water and/or soil to cool and eliminate air. Fires where Intermediate cover was placed were typically resolved using a combination of fire extinguishers, a bentonite slurry, water and soil cover, and then making the necessary synthetic cover repairs.

Damaged Intermediate Cover

During 2020, several small areas of synthetic immediate cover were damaged around landfill gas (LFG) infrastructure due to heavy rain/wind events. 3rd party crews were called in to make necessary repairs. JRL site personnel continuously try new things to better secure the cover material to prevent reoccurrences.

Waste Related Events

Two (2) Waste related events occurred at JRL in 2020. The first occurred on the dates of 08-06-20 thru 08-07-20 and the second on 09-07-20 and 09-14-20. After these two events, the MEDEP was notified and informed of each occurrence. Additional information was provided if requested.

3.7 Updated Cell Development Plans

Cell 11 and 12 plans will remain in the JRL Expansion Operations Manual, along with the future plans for Cell 13. Cell 13 is set to be constructed during the 2021 construction season and will represent the third cell of the 9.35 million cubic yard permitted expansion.

3.8 Copies of Reports Prepared in Accordance with the Landfill's Hazardous and Special Waste Handling and Exclusion Plan

During 2020, JRL submitted monthly special waste activity reports to the BGS, the Landfill Advisory Committee, and the City of Old Town, and placed these reports on the BGS's JRL website for the public and the MEDEP to access.

3.9 Inspections and Testing

During 2020, JRL personnel performed routine inspections of the landfill and infrastructure as outlined in the JRL Operations Manual. Copies of quarterly (routine) and weekly inspection reports may be found on file in the Environmental Manager's Office. Completed sample inspection sheets are included in Attachment D of this Annual Report.

3.10 Description of System Failures and/or Repairs

Routine and non-routine maintenance activities were performed on the leachate and landfill gas collection infrastructure, access roads, stormwater structures, and cover systems during 2020. Leachate maintenance activities are listed chronologically in Attachment E. A summary of other identified landfill maintenance activities are in Attachment D.

During report year 2020, the following routine maintenance and/or repair functions were performed at the facility:

- Leachate maintenance and cleaning activities occurred as needed and in accordance with the Facility's Operations Manual;
- On-site stormwater structures were cleaned and/or repaired in accordance with standard BMP's to maintain erosion & sedimentation control during rain events;
- Various repairs were made to the existing 30/40-mil intermediate cover systems due to tears, rips, and/or holes from movement, settlement, or wind;
- Gas collection piping was repaired in multiple locations to accommodate for normal settlement and operations;
- Landfill gas (LFG) wellheads were repaired throughout the year due to normal wear and tear; and
- Access roads were graded and maintained as necessary to allow access to the facility.

4.0 FACILITY SITE CHANGES

During 2020, the following minor facility site changes not requiring Department approval occurred:

- Mowing, brush cutting, and other site maintenance and upkeep activities.

During 2021, the following minor facility site changes not requiring Department approval are planned:

- Continued safety and visual upgrades of the landfill paved access road;
- Continued improvements to stormwater control systems; and
- Continued efforts to mitigate wind-damage of landfill synthetic intermediate cover materials.

5.0 MONITORING

Water Quality

The 2020 Annual Water Quality Report for JRL is included as Attachment F of this report and includes an evaluation of the environmental monitoring data for the JRL site. During 2020, water quality samples were collected at JRL in accordance with the Environmental Monitoring Program (EMP), during April, July, and October.

Leachate Quality

Leachate quality was also evaluated and included as part of the 2020 Water Quality Report, Attachment F of this report. Below in Table 5-1, are leachate volumes of each pump station, along with total leachate hauled for 2019 and 2020 are compared. As seen, leachate flows decreased for 2020. This decrease was largely attributed to a lower total rainfall in 2020 as compared to 2019, and an increase of installed synthetic intermediate cover material on Cell 11.

Table 5-1 Leachate Total Comparison, 2019 & 2020

Total Leachate Pumped By Cell Pump Stations					
	Cell 4	**Cell 5**	**Cell 8**	**Cell 11**	**Cell 12**
2020	7,328,981	2,656,795	3,928,875	619,838	1,051,635
2019	7,998,140	3,970,689	5,218,911	2,734,562	0
Difference	-9%	-49%	-33%	-341%	100%

Total Leachate Produced (Hauled) By Month			
	2020	**2019**	**Difference**
January	1,665,470	1,949,915	-17%
February	1,048,445	1,312,876	-25%
March	1,585,340	1,895,360	-20%
April	1,302,425	2,573,450	-98%
May	1,166,005	2,006,565	-72%
June	1,057,245	1,829,710	-73%
July	1,152,965	1,647,955	-43%
August	1,001,035	2,342,420	-134%
September	987,085	1,480,785	-50%
October	1,303,400	1,668,845	-28%
November	1,311,335	1,447,460	-10%
December	2,405,515	2,031,960	16%
TOTAL	15,986,265	22,187,301	-39%

Landfill Gas Monitoring

The 2020 Landfill Gas Monitoring Evaluation for JRL is included as Attachment G of this report. This routine landfill gas monitoring took place at various on-site gas management locations with results being submitted via electronic deliverable documents to the MEDEP as required.

The 2020 monitoring data associated with the landfill gas collection and treatment system indicates that the system is operating in accordance with the facility's air license.

Air Monitoring

The 2020 Air Monitoring Evaluation for JRL is included as Attachment H of this report. Two types of air monitoring activities occurred on-site during 2020; (1) hydrogen sulfide (H_2S) monitoring with stationary continuous monitors, and (2) quarterly methane (CH_4) emission surface scans on the landfill intermediate cover. Additionally, odor complaints from the 24-hour JRL odor complaint hotline provided an opportunity to evaluate the effectiveness of odor control measures at the JRL.

Geotechnical Monitoring

The 2020 Annual Geotechnical Monitoring Report for JRL is included as Attachment I of this report. During 2020, JRL continued to monitor site settlement and stability as in the past with the assistance of Dr. Richard Wardwell.

The report describes the geotechnical activities performed in accordance with the current Geotechnical Monitoring Plan (Appendix N of the Operations Manual) and the Stability and Settlement Monitoring Plan (Section 3.1.5 of the Design Report), prepared and included as part of the JRL Expansion Application for a new solid waste license, as approved by the MEBEP under Solid Waste License #S-020700-WD-BI-N and Natural Resources Protection Act #L-19015-TG-D-N dated 06/01/2017.

Results of this monitoring verifies the consistency of the landfill's geotechnical performance with design parameters and assumptions, and with the goals of the JRL Expansion Operations Manual (NEWSME 2020). Specifically, geotechnical monitoring during 2020 included: (1) visual observation of landfill slope stability, settlement, and general landfill conditions, (2) assessment of site aerial topographic surveys; (3) a review of waste types, quantities, location of waste placement, and filling sequences, and (4) evaluation of fluid levels in the leachate collection layer of Cell 11.

6.0 <u>FINANCIAL ASSURANCE</u>

The closure and post-closure costs have been recalculated to reflect those Cells that, as of the end of calendar year 2020, have been or will be constructed, but have not received final cover. A copy of the revised closure and post-closure costs may be found in Attachment J of this report. Following approval of the estimates, a revised financial assurance package will be submitted to the MEDEP under a separate cover.

7.0 <u>MSW DIVERSION</u>

In accordance with Condition #5 of Solid Waste Order #S-020700-WD-BC-A, a summary of best efforts by CWS to divert MSW from landfilling at JRL to the greatest extent practicable has been completed and may be found in Attachment K of this report.

ATTACHMENT A

Compliance Self Audit

JUNIPER RIDGE LANDFILL
COMPLIANCE SELF-AUDIT EVALUATION
REPORT YEAR 2020

This Compliance Self-Audit Evaluation is to be used to perform an annual audit of landfill operations as required by of Chapter 401, Section 4.D. (1) (b) of the State of Maine Solid Waste Management Rules. The purpose of this audit is to verify general compliance with the site operations manual, licenses and regulatory requirements. Qualified facility personnel performed the audit.

Facility Name..................	**Juniper Ridge Landfill (JRL)**
Location.........................	**Old Town, Maine**
Audit for Calendar Year.....	**2020**
Compliance Auditor...........	**Jeffrey M Pelletier**
Title..............................	**Environmental Manager**
Signature of Auditor..........	Jeff P

GENERAL EVALUATION:

1. Are active facility licenses kept on file at the facility?

Copies of active MEDEP licenses may be found in the Environmental Manager's office located at Pine Tree Landfill. Licenses are also available electronically to the landfill supervisor and staff at the JRL site.

2. Do the facility licenses have special license conditions relating to landfill operations?

Yes, a number of conditions are laid out in various licenses held by the facility. MEDEP licensed conditions are entered into a company Environmental Compliance Database that allows the division manager and compliance manager to monitor compliance with submission deadlines and fee requirements.

3. What pending licenses or approvals were sought from the MEDEP at the time of this audit.

- Part 70 Air License Renewal (submitted on 04-04-19).
- Cell 13 Design Report Review (submitted on 03-12-21).

4. Date of payment of MEDEP Annual Report/License Fees.

- MEDEP 2020 annual report fee invoice will be paid once received.
- MEDEP 2020 annual license fee of $15,011.00 was paid on July 07, 2020.

5. Date of submittal of previous MEDEP Annual Report & Report/License Fees.

- MEDEP 2019 annual report was submitted on April 29, 2020.
- MEDEP 2019 annual report fee of $3,885.00 was paid on February 27, 2020.
- MEDEP 2019 annual license fee of $14,623.00 was paid on July 29, 2019.

6. Does the facility have a Host Community Agreement in-place and on file?

A Host Community Compensation and Facility Oversight Agreement was signed with the City of Old Town on December 8, 2005. Although not a host community, a Community Benefits Agreement also was signed with the Town of Alton on October 6, 2005. Copies of these agreements may be found in the Division Manager's Office.

7. Does the facility have a current liability insurance policy in-place and on file at the facility?

Yes, a copy of the policy is available in the Division Manager's Office.

8. Has the facility submitted an executed financial assurance instrument for closure and post closure care along with updated closure/post closure cost estimates to the MEDEP?

Yes, performance bonds were initially provided to the MEDEP on February 19, 2004. An updated financial assurance package for the closure/post-closure care is provided to the MEDEP within the annual report.

9. Last date a certified copy of the facility Operations Manual was updated.

A complete re-issue of the JRL Expansion Operations manual, with all of the sections updated, was distributed in April 2020 alongside the 2019 Annual Report.

10. MEDEP approval date of last updated Operations Manual.

The facility Operations Manual was formally approved on June 01, 2017 as part of Solid Waste Order #S-020700-WD-BI-N.

11. Number and locations of the Certified Copies of the Operations Manual.

Certified copies of the Operations Manual may be found at the following locations:

- The Augusta Office of the MEDEP
- The Municipal Office of the City of Old Town
- JRL's Environmental Compliance Manager's Office
- JRL's Operations Supervisor's Office
- Manager of State Landfills at the Maine Bureau of General Services

12. Operational personnel who received landfill training during audit year.

During 2020, operations personnel received monthly training sessions on a variety of topics relating to safety, environmental compliance, and landfill operations. Records relating to the ongoing training of landfill personnel are kept on file in the Landfill Supervisor's office.

13. Are only solid wastes or special wastes as allowed in the landfill's current license accepted and are those wastes handled as described in the landfill's Operations Manual?

Yes, only approved non-hazardous special and solid wastes from Maine are being accepted at JRL and are being characterized according to the conditions laid out in the facility's Waste Characterization Plan.

14. Are solid wastes and special wastes permitted for acceptance characterized on an ongoing basis in conformance with the characterization plan approved by the Department?

Yes, those wastes are being characterized at the required intervals and/or tonnage rates. Records associated with waste acceptance are kept on file electronically.

15. Is access to the facility controlled so that the public is not exposed to potential health and safety hazards and access is only permitted when an attendant is on duty?

Yes, an attendant is located at the scale house during operational hours. During non-operational hours the facility is manned by security personnel that perform regular site inspections. For public safety reasons, non-employee visitors entering the site during operational hours must first stop at the scalehouse and check in prior to further entry. The site is secured with fencing. Doors and gates around the site are secured unless in use.

16. Are the hours of operation and other limitations for access and use prominently posted at the entrance to the landfill?

Yes, the facility has the required signage in-place at the entrance to the landfill prior to and at the scale house. Additional signage is placed in prominent areas throughout the landfill.

17. Are the access roads within the facility maintained?

Yes, roads from the entrance to the active landfill are maintained year-round to accommodate passage of vehicles.

18. Are any access roads into the active cell of the landfill constructed and maintained to prevent migration of leachate outside of the cell.

Yes, the main access road into the active cell is designed to prevent leachate from migrating outside of the cell.

19. Is a road maintenance program appropriately implemented to prevent the accumulation of dust, mud, or wastes from the facility access, public, or private roads?

Yes, paved roads are mechanically swept, scraped, and/or plowed as needed to prevent accumulation of undesirable material on the roads. Roads are additionally watered seasonally as necessary as a further dust control measure.

20. Are the appropriate signs posted or other approved means implemented to indicate clearly where solid waste is to be unloaded and the location of any separate handling areas?

Yes, drivers are directed by the scale house attendant and/or landfill operators to the proper staging/unloading area where they are then given further instructions via radio communications with the operators. Delivery vehicles utilizing the site are required to be equipped with a means of radio communication. Hand-held radios are made available as needed.

21. Are the setbacks and buffer strips approved by the Department being maintained?

Yes, required setbacks and buffers are being maintained as required.

22. Are the cell development plans up-to-date and submitted with the annual report?

Yes, cell development plans are included for Cell 13 which will be constructed throughout the 2021 construction season.

23. Is compaction performed at least once per operating day and more often as necessary unless otherwise approved by the Department?

Compaction is currently being achieved at JRL with the use of compactors that are operated in a manner to achieve favorable compaction rates.

24. Has cover been placed as outlined in the operations manual?

Yes, suitable waste materials, (i.e., alternate daily cover) are primarily being utilized as daily cover as necessary. Intermediate soil/synthetic cover materials are being installed as slopes reach appropriate elevation & grades.

25. Have storm water management and erosion control measures been implemented as outlined in the operations manual?

Yes, storm water management & erosion control measures are being utilized as outlined in JRL's Storm Water Pollution Prevention Plan, located in the Operations Manual.

26. Are leachate management systems including collection, transport, storage, and pumping systems maintained in accordance with the site Operations Manual?

Yes, systems receive regularly scheduled maintenance and are inspected at pre-determined intervals in accordance with the site Operations Manual.

27. Are landfill gas systems installed and maintained as outlined in the Operations Manual?

Yes, the landfill maintains an active gas collection system consisting of horizontal gas collection piping, vertical wells, and a flare.

28. Is a methane gas-monitoring program implemented to verify the concentration of explosive gases generated by the landfill, and if an exceedance is triggered, appropriate steps are taken to protect human health and the Department notified of the occurrence and the protective steps that were taken?

Yes, methane gas monitoring is being performed as required at the groundwater quality wells, landfill surfaces, at landfill structures, and LFG wellheads as required. The facility has developed a plan of action that needs to be followed should elevated levels be detected. Two elevated levels of H_2S (a separate component of LFG) were detected in 2020. They were recorded on two separate occasions and were in non-LFG collection infrastructure. The MEDEP was notified of the occurrences and they were also noted as required in both the JRL Monthly/Annual Reports.

29. Are routine inspections of the landfill facilities performed as outlined in the Operations Manual, and are records of the inspections kept on file at the facility?

Yes, routine inspections are performed at pre-determined frequencies in compliance with the site Operations Manual, with records of inspections kept on file in the Environmental Manager's office.

30. Does the facility have a fire protection plan in-place and is it outlined in the operations manual?

Yes, fire protection procedures are located in the JRL Operations Manual, and are being followed as required.

31. Does the facility have a hazardous and special waste handling and exclusion plan and is it implemented at the facility?

Yes, the hazardous and special waste handling and exclusion plan may be found in the Operations Manual. Appropriate response procedures are followed as required.

32. Does the facility have a litter control plan and is it implemented as outlined in the Operations Manual?

Yes, the facility controls off-site litter through the use of strategically placed fencing and regular litter patrols.

33. Has the Environmental Monitoring Program been implemented as outlined in the Operations Manual?

Yes, requirements as laid out in the environmental monitoring plan are being adhered to and are located in the Operations Manual.

34. Environmental sampling events being conducted as required and results reported to the MEDEP.

A record of environmental sampling events with corresponding dates may be found in the annual water quality report being submitted to the MEDEP as part of the Annual Report. Site water quality monitoring was completed on a tri annual basis in April, July, and October, with monitoring reports from those events submitted to the MEDEP.

35. Are waste staging and storage areas maintained as outlined in the Operations Manual?

Yes, staging and storage areas are being operated and maintained in accordance with the site Operations Manual.

36. Is a vector control program in-place and implemented as outlined in the operations manual?

Yes, a pest control service regularly visits the site and maintains control devices. Additionally, the facility utilizes lethal & non-lethal means of deterring bird populations.

37. Does the facility accept asbestos wastes?

The facility is only licensed to accept non-friable asbestos containing wastes and manages the material in a manner that minimizes exposure during offloading.

ATTACHMENT B

Annual Solid Waste Management Report

ANNUAL SOLID WASTE MANAGEMENT REPORT FOR LICENSED LANDFILLS

FACILITY NAME: Juniper Ridge Landfill Report For Year: 2020

DEP LICENSE NUMBER #S-020700-WD-N-A & #S-020700-WD-BI-N

This report includes information on solid waste handling and disposal per 06-096 C.M.R. ch. 401, § 4(D) and § 7(G)(21), as applicable, for the following facility and/or municipalities, as applicable (please list all users):

CONTACT PERSON: Jeffrey Pelletier Title: Environmental Manager
Mailing Address: 358 Emerson Mill Rd.
City/Town: Hampden Zip Code: 04444
Phone: 207-249-8025 E-mail: jeffrey.pelletier@casella.com

LANDFILL MANAGER: Wayne Boyd
Mailing Address: 358 Emerson Mill Rd.
City/Town: Hampden Zip Code: 04444
Phone: 207-862-4200 x224 E-mail: wayne.boyd@casella.com

☒ **Please check here if a stand-alone annual report is being submitted. If so, submit this cover sheet only along with your report.**

I have examined this report to the best of my knowledge and believe this report is true, accurate and complete.

Signature of person completing this form: Jeff P Date Signed 04/29/21

Printed name of person completing this form: Jeffrey Pelletier

Please return two (2) paper copies and an electronic copy of your completed form with the required annual report fee by April 30 of the reporting year to:

Geraldine Travers
Maine Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017

ATTACHMENT C

Updated Operations Manual Sections

Included in this attachment are revised documents meant to update the previous JRL Expansion Operations Manual (Revised in April 2020). These new documents supersede previous versions and incorporates JRL's current operations of both the 2004 permitted footprint and the landfill expansion. The following appendices were reviewed and updated in April 2021. Digital versions of these documents are included as a separate file that includes the completely revised JRL Expansion Operations Manual (Revised in April 2021).

Updated documents include:

C1 - Binder Cover/Spline Label
C2 - JRL Expansion Operations Manual Narrative Section
C3 - Appendix A (MEDEP Operating Permits)
C4 - Appendix C (Operator Training Program Outline)
C5 - Appendix D (Cell Development Plans for Cell 13)
C6 - Appendix F (Updated JRL SWPPP)

ATTACHMENT D

Facility Inspection Reports/

Other Maintenance Activities

Appendices included within Attachment D:

D-1 Weekly/Monthly/Quarterly Site Inspection Reports
D-2 JRL Other Maintenance Activities

Weekly/Monthly Site Inspection Reports

STI SP001 MONTHLY ABOVEGROUND TANK AND CONTAINER CHECKLIST
Juniper Ridge Landfill in Old Town, ME

INSPECTOR'S SIGNATURE:	DATE:	INSPECTOR'S TITLE:
Andrew Burnett	3/25/2020	LFG Facility Manager

checklist shall be completed on a monthly basis and be retained with the SPCC Plan for at least 3 years.

TANK #:	1	2	3	4	5	6	7	8	9
LOCATION:	Inside Maintenance Building		Active Cell of Landfill				Office Building*	Near Leachate Tank	Thiopaq Transformer
CONTENTS:	350-GAL Motor Oil	350-GAL Hydraulic Oil	1,000-GAL Gasoline	500-GAL Diesel	275-GAL Hydraulic Oil	2,500-GAL Diesel	275-GAL Heating Oil	366-GAL Diesel	270-GAL Mineral Oil
TANK CONTAINMENT:									
Water in primary tank, secondary containment, interstice, or spill container?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	NA	NA	NA	☐ Yes ☐ No	☐ Yes ☑ No	NA
Debris or fire hazard in containment?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No	☐ Yes ☑ No	NA
Drain valves operable and in a closed position?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No	NA
Containment egress pathways clear and gates/doors operable?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	NA	☐ Yes ☐ No	☑ Yes ☐ No	NA
Concrete intact and in good condition with no cracks?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	NA	NA	NA	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
LEAK DETECTION:									
Visible signs of leakage around the tank, concrete pad, containment, ring wall or ground?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
TANK ATTACHMENTS AND APPURTANCES:									
Ladder and platform structure secure with no sign of severe corrosion or damage?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Tank liquid level gauge readable and in good condition?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No	NA
Tank openings properly sealed?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
GENERAL HOUSEKEEPING:									
Fire extinguisher nearby?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Spill equipment nearby?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	NA	NA	NA	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

TANK #:	9	10
	Inside Maintenance Building	Inside Rubb Storage Building
	55-GAL Drums & 220-GAL Tote	55-GAL Drum
PORTABLE CONTAINERS:		
Are portable containers in designated storage area?	☑ Yes ☐ No	☑ Yes ☐ No
Debris, spill, or other fire hazards in containment or storage area?	☐ Yes ☑ No	☐ Yes ☑ No
Water in outdoor secondary containment?	☐ Yes ☑ No	☐ Yes ☑ No
Drain valves operable and in a closed position?	☑ Yes ☐ No	☑ Yes ☐ No
Egress pathways clear and gates/doors operable?	☑ Yes ☐ No	☑ Yes ☐ No
Container distorting, buckling, denting, or bulging?	☐ Yes ☑ No	☐ Yes ☑ No
Visible signs of leakage around the container or storage area?	☐ Yes ☑ No	☐ Yes ☑ No

COMMENTS / REPAIRS / MAINTENANCE:

* Office building oil tank has been removed.

COMMENT ON MAINTENANCE OR REPAIR NEEDED ABOVE FOR ANY MARKED RED UNDERLINED CHECK BOX.

WEEKLY/MONTHLY INSPECTION FORM

Site Name/Company	Juniper Ridge Landfill/NEWSME Landfill Operations, LLC
Location	2828 Bennoch Road, Alton, Maine
Date of Visit	6/12/2020
Inspector Name/Signature	Andrew Bennett Andrew Bennett

Note: For weekly inspections, only Table 1 and Table 3 need to be completed. For monthly inspections, Table 1, Table 2 and Table 3 need to be completed.

Table 1
Inspection of Active Areas at the Facility

Active Areas at the Facility			
Leachate	Is leachate observed on the ground, or leaking from tanks or piping, with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Access Roads	Are industrial materials, residue or trash observed on roads where vehicles enter or exit the active landfill with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
MSW and CDD (windblown debris)	Is MSW and/or CDD on ground, tracking, blowing or whirling with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☑ Comments (see below)
Borrow Pit	Is there evidence of tracking or erosion from site soil borrow areas with potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Mobile Equipment	Is mobile equipment leaking oil or other liquids with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Comments	2 laborers are picking litter. South road was repaired.		

Table 2
Inspection of Stabilized Areas at the Facility

Stabilized Active Areas at the Facility			
Leachate	Is leachate observed on the ground, or leaking from tanks or piping, with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Access Roads	Are industrial materials, residue or trash observed on roads where vehicles enter or exit the active landfill with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
MSW and CDD (windblown debris)	Is MSW and/or CDD on ground, tracking, blowing or whirling with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☑ Comments (see below)
Comments	2 labores are pickinglitter		

Table 3
Inspection of Stormwater BMPs, Conveyances and Outfalls

BMP	**Describe where any of the following were observed:** • **Any evidence that the BMP is not functioning properly.**
Detention Pond 1	None
Geomembrane Lined Storage Pond	None
Detention Pond 2	Now
Detention Pond 6	None
Litter Fence	None

Table 3
Inspection of Stormwater BMPs, Conveyances and Outfalls

BMP	Describe where any of the following were observed: • Any evidence that the BMP is not functioning properly.
Lechate Storage Tank Containment Area	None
Leachate Storage Tank Containment Area Riprap Outlet	None
Leachate Loading Rack Catch Basin	None
Detention Pond 9	None
2,000-Gallon Underground Storage Tank	None
Detention Pond 5	None
Outfall No. 1	None
Outfall No. 2	None
Outfall No. 3	None
Outfall No. 4	None
Outfall No. 5	None

Table 4
New Potential Pollutant Source and/or Recommendations for Additional BMPs

Reference	Description	Schedule

Certification

☑ Site is in compliance with SWPPP and MSGP. ☐ Site is not in compliance with SWPPP and MSGP and either structural control measure maintenance, additional controls, or modifications to the SWPPP are required.
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Andrew Bennett	**Telephone:** 249-3536
Signature: Andrew Bennett	**Date:** 6/12/2020

Quarterly
Site Inspection
Reports

Standard Operating Procedure
Bureau of Water Quality
Attachment B
Date: April 20, 2006
Revised: June 12, 2017
Doc Number: DEPLW0768

Visual Monitoring Form

Facility Name: Junper Ridge Landfill
Facility Address: 2828 Bennoch Rd
Old Town, ME 04468

Sampler's Name: Andrew Bennett
MSGP Permit Number: MER05[redacted]B477

72 Hours Since last Qualifying Storm? Yes or No (circle)

Measurable Discharge from outfall? Yes or No (circle)

Outfall Number	#1	#2	#3	#4	#5	
Observation Time	7:45 am	7:15 am	~~8~~ 7:52 am	8:10 am	7:57 am	
Est. Time from Onset of Discharge	< 1 hr	< 1 hr	< 1 hr	< 1 hr	< 1 hr	
Discharge Type (rain, snow melt or ice melt)	Rain + snow melt	Rain + snow melt	Rain + snow melt	Rain + snow melt	Rain + snow melt	
Sample Volume (ml)	1000	1000	1000 ml	1000 ml	1000 ml	
Color	clear	clear	Clear	clear	clear	
Odor	none	none	none	none	none	
Clarity	clear	clear	clear	clear	clear	
Floating Solids*	None	None	None	none	~~none~~ slight	(green, organic material)
Settled Solid*	None	None	None	none	none	
Suspended Solid*	None	None	None	none	none	
Foam	None	None	None	none	None	
Oil Sheen	None	None	None	none	None	
Possible Source of Any Observed Contamination	NA	NA	NA	NA	NA	

*Enter a description of corresponding criteria for each outfall and any corrective actions in the General Comments section of this document.

Signature of Responsible Official: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and compete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowingly violating the law.

Name: Andrew Bennett Date: 3/13/2020

Signature: andrew Bennett Date: 3/13/2020

General Comments

In the comments section, enter physical description of floating, settled, and suspended solids for each outfall sampled. Enter general comments on the condition and appearance of each outfall in the comments as well as any corrective actions taken as indicated in the instructions.	
Outfall 1	Comments: Snow turned to rain around 7:30 am, Ground is still mostly Frozen
Outfall 2	Comments:
Outfall 3	Comments:
Outfall 4	Comments:
Outfall 5	Comments:
~~Outfall 6~~	Comments:

ROUTINE INSPECTION REPORT

Site Name/Company	Juniper Ridge Landfill/NEWSME Landfill Operations, LLC
Location	2828 Bennoch Road, Alton, Maine
Date of Visit	3/25/2020
Inspector Name/Signature	Andrew Benett Andrew Bennett
Weather	Partly Cloudy

Does this inspection qualify as the one required annual inspection conducted during qualifying storm event? ☐ Yes ☑ No

Are there any new discharges or pollutants at the site? ☐ Yes ☑ No

Table 1
Inspection of Potential Pollutant Sources (PPS)

Industrial Activity or Area	**Description** **Describe where any of the following were observed:** • **Any discharges present at the time of inspection;** • **Any evidence of pollutants entering the drain system or outfalls;** • **The condition of the outfalls, including any restricted flow;** • **Industrial materials, residue or trash on the ground;** • **Leaks or spills from industrial equipment, drums, barrels, tanks or other containers;** • **Offsite tracking of industrial or waste materials or sediment; and** • **Tracking or blowing of raw, final, or waste materials.**
Scale House and Scale	None
Office Building	Building has been removed.
Soil Stockpile Areas	None
Borrow Pit	None
Wood Waste Handling Area	None

Table 1
Inspection of Potential Pollutant Sources (PPS)

Maintenance Building	None
Rubb Building	None
LFG Treatment Facility	None
Leachate Storage Tank	None
Leachate Loading Rack	None
Leachate Collection System	None
Gravel Laydown Area	None
Employee Parking Area	None
1,500-Gallon Gasoline Tank	None
1,500-Gallon Diesel Tank	None
2,500-Gallon Diesel Delivery Truck	None
Access Roads	None

Table 2
Inspection of Structural Control Measures and Outfalls

BMP	Describe where any of the following were observed: • Any evidence that the BMP is not functioning properly; • Any evidence of erosion; and • Industrial materials, residue, or trash.
Detention Pond 1	None
Geomembrane Lined Storage Pond	None
Detention Pond 2	None
Detention Pond 6	None
Litter Fence	Some litter against fence.
Leachate Storage Tank Containment Area	None
Leachate Storage Tank Containment Area Riprap Outlet	None
Leachate Loading Rack Catch Basin	None
Detention Pond 9	None
2,000-Gallon Underground Storage Tank	None
Detention Pond 5	None
Outfall No. 1	None
Outfall No. 2	None

Table 2
Inspection of Structural Control Measures and Outfalls

Outfall No. 3	None
Outfall No. 4	None
Outfall No. 5	None

Table 3
Corrective Actions Required for PPS(s) and/or Existing Structural Control Measures

Reference	Description/Schedule	Date Completed

Table 4
Recommendation for New PPS(s) and/or Structural Control Measures

Reference	Description/Schedule	Date Completed

Table 5
Modifications Required to SWPPP or Site Plan

Reference	Description

Certification

☑ Site is in compliance with SWPPP and MSGP.

☐ Site is not in compliance with SWPPP and MSGP and either structural control measure maintenance, additional controls, or modifications to the SWPPP are required.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Andrew Bennett	**Telephone:** 207-249-3536
Signature: Andrew Bennett	**Date:** 3/25/2020

2020 Juniper Ridge Landfill Other Maintenance Activities

Below is a list of all other maintenance activities that occurred throughout 2020. A list of all leachate maintenance and cleaning activities is chronologically listed in Attachment E of the 2020 JRL Annual Report.

Access Road Maintenance	
●	Access roads going to the top of the landfill and around the north, west, and south sides of the landfill perimeter were graded as necessary. All access roads were swept and watered as necessary.
Landfill Cover System Maintenance	
●	Various repairs were made to the existing 30/40 mil intermediate cover system due to tears, rips, and holes from liner movement, settlement, and the wind.
Landfill Gas System (LFG) Maintenance	
●	Roughly 278 improvements were made to the LFG system throughout 2020. These improvements included: well/gas collection trench installations/extensions, maintenance to all collection well head components (valves, ports, hoses), and torn well boots.
●	The flare flame arrestor was cleaned periodically.
●	Routine maintenance was performed at the JRL Thiopaq Facility in accordance with the Facility's operations manual.
●	Condensate knockout pots (KOP) were cleaned as necessary.
Other Site Maintenance	
●	The old office/operators breakroom building was relocated to the south end of the landfill for future use as a cold storage building. A new office/operators breakroom was constructed as an addition to the shop.
●	A new fiber optic line was installed to update landfill communication.
●	The water loadout rack was relocated from its former location (near the old office building) to a new location next to Detention Pond 1A.
Scale House Maintenance	
●	A new scale house and two scales were installed. One of the scales was new and the other was relocated from the previous scale location.
●	Scales were cleaned, de-iced, and calibrated as necessary.
Stormwater Maintenance	
●	The geomembrane lined storage pond that feeds into Detention Pond 1A was cleaned along with its associated structures.
●	All stormwater ditches on the north, west, and south sides of the landfill were cleaned. Culverts were cleaned as necessary.
●	Both sides of Detention Pond #5 were cleaned with new drainage sand installed.
●	Seeding and mulching occurred as necessary to prevent erosion. New erosion control mix was added around the level lip spreader and prior to Outfall #2.
●	Continuous litter patrols were performed by 3rd party temporary personnel.

ATTACHMENT E

Leachate Collection Maintenance Activities

2020 Juniper Ridge Landfill Leachate Maintenance and Repairs	
01/31/20	Emptied surface water from the leachate force main manholes. Inspected the manholes and pressure gauges.
04/10/20	Drained the leachate force main to relocate the water loadout rack. Inspected the force main for buildup.
04/15/20	Cleaned the pump station and valve pit near the lined stormwater pond. Removed valves and installed blind flanges.
06/12/20	Emptied surface water from the leachate force main manholes. Inspected the manholes and pressure gauges.
07/24/20	Cleaned leachate collection lines around the east side of the landfill.
08/03/20	Cleaned leachate collection lines around the southeast side of the landfill.
09/15/20	Removed and cleaned leachate collection pumps #1 & #2 in Cell 11 pump station. Relocated the pumps to Cell 12 pump station for future use.
09/22/20	Cleaned leachate collection lines around the north, west, and south sides of the landfill.
09/30/20	Emptied surface water from the leachate force main manholes. Inspected the manholes and pressure gauges.
10/15/20	Temporarily removed leachate collection pump #2 from both the Cell 5 and Cell 8 pump stations. Cleaned the pumps, hoses, discharge lines, valves, sumps, and transducers.
10/20/20	Emptied surface water from the leachate force main manholes. Inspected the manholes and pressure gauges.
10/27/20	Temporarily removed leachate collection pump #1 from both the Cell 5 and Cell 8 pump stations. Cleaned the pumps, hoses, discharge lines, valves, sumps, and transducers.
11/11/20	Temporarily removed leachate collection pump #2 in Cell 8 pump station. Cleaned and repaired an electrical issue.
11/16/20	Temporarily removed leachate collection pumps #1 & #2 from the Cell 4 pump station. Cleaned the pumps, hoses, discharge lines, valves, sumps, and transducers.
11/25/20	Temporarily removed leachate collection pump #2 in Cell 4 pump station. Cleaned and repaired an electrical issue.
12/07/20	Repaired a leachate collection discharge line in the Cell 12 pump station.
12/23/20	Temporarily removed leachate collection pump #2 in Cell 8 pump station. Cleaned and repaired an electrical issue.

ATTACHMENT F

Water Quality Monitoring Report

2020 ANNUAL WATER QUALITY REPORT
JUNIPER RIDGE LANDFILL

Prepared for

NEWSME LANDFILL OPERATIONS, LLC

April 2021

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SME
SEVEE & MAHER
ENGINEERS

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2020 ANNUAL WATER QUALITY REPORT
JUNIPER RIDGE LANDFILL

EXECUTIVE SUMMARY

Water quality samples were obtained in April, July, and October 2020 at the Juniper Ridge Landfill (JRL) in accordance with the current site Environmental Monitoring Plan. The 2020 water quality data for the JRL monitoring locations are consistent with the historical data for the site and with the setting of monitoring locations among the construction and operational activities of the landfill. Site groundwater and surface water quality data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. The evaluation of site water quality, which incorporates the 2020 water quality data, identifies trends at multiple locations and for a number of parameters, both upgradient and downgradient from the landfill. Historical groundwater quality data through 2020 indicate that these trends, however, are largely attributable to landfill operations and changes in redox conditions, which occur as expected around the landfill due to the construction of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate any significant landfill related impacts to water quality from malfunction of the landfill liners.[1]

Leachate from monitoring location LT-C4LR during 2020 and historically since July 2013 is generally characterized by high parameter values. In 2020, the annual maximum value of specific conductance in JRL leachate (i.e., monitoring location LT-C4LR) was 25,800 µmhos/cm in July 2020. The annual maximum concentrations of chloride and arsenic at monitoring location LT-C4LR were 13,000 mg/L (July 2020) and 0.33 mg/L (July 2020), respectively. Generally, at a given water quality monitoring location, if landfill leachate were present, there would be a notable, significant increase in specific conductance values and chloride and arsenic concentrations (in conjunction with changes in other parameter concentrations) due to their presence at high concentrations in the JRL leachate.

There was no flow at JRL underdrain monitoring locations LF-UD-1, LF-UD-3A,B, LF-UD-4, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, and LP-UD-1 during any of the three 2020 monitoring events; thus, no samples were obtained at these locations during 2020. The eight underdrain monitoring locations with no flow during any of the three 2020 monitoring events is more than the four locations with no flow during any of the three 2019 monitoring events, which is likely attributed to the lower precipitation total in 2020 compared to 2019 (i.e., 37.60 inches in 2020 compared to 52.00 inches in 2019). There were also no samples obtained from LF-UD-5and6 and LF-UD-6 in October 2020. These occurrences of no flow at these underdrain monitoring locations are consistent with previous observed patterns.

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[1] The MEDEP agreed with this assessment in its review of the 2017 Annual Report. MEDEP, February 20, 2018, Memorandum regarding the 2017 Annual Report, Juniper Ridge Landfill, Old Town, Maine, MEDEP Lic. #S-020700-7A-A-N and Amendment #S-020700-WD-N-A, Prepared by Sevee and Maher Engineers, Inc., April 2015.

Where there was flow during 2020 from underdrain monitoring locations (LF-UD-2, LF-UD-5and6, LF-UD-6, and LP-UD-2), the underdrain monitoring data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. The greatest specific conductance value measured during 2020 was at LF-UD-6 (579 µmhos/cm in April 2020); however, this value is lower than the historical maximum value at this location (919 µmhos/cm in August 2013) and there is currently a statistically significant decreasing trend (95% confidence level) for specific conductance at this location for the past five years. Specific conductance was measured at an annual low value of 225 µmhos/cm at LF-UD-6 in February 2020. There were no specific conductance values above 500 µmhos/cm at the remaining underdrain monitoring locations monitored in 2020. Specific conductance values for all underdrain locations monitored in 2020 were below their respective historical maximum values.

During 2020, annual maximum chloride concentrations from the sampled underdrain monitoring locations (ranging from less than the laboratory reporting limit of 2.0 mg/L at LF-UD-6 to 10 mg/L at LF-UD-2) were low relative to the JRL leachate and do not indicate influence from the presence of landfill leachate. The arsenic concentrations in the underdrain monitoring locations sampled during 2020 were low (ranging from less than the laboratory reporting limit of 0.005 mg/L at LF-UD-2, LF-UD-5and6, LF-UD-6, and LP-UD-2 to 0.005 mg/L at LF-UD-2) and generally consistent with those at groundwater monitoring wells across the site, including multiple upgradient monitoring locations. There were no volatile organic compounds (VOCs) detected in 2020 above laboratory reporting limits at any of the sampled underdrain locations.

Based on review of 2020 and historical data, SME has identified 18 of the 28 site-wide groundwater monitoring locations with water quality that: (1) do not indicate influence from landfill leachate; and (2) show limited influence from landfill construction operations. The annual maximum specific conductance values at these wells range from 98 µmhos/cm to 419 µmhos/cm. The annual maximum chloride concentrations at these monitoring locations were very low and ranged from 1.5 mg/L to 11 mg/L.

More pronounced water quality changes have been observed at 10 of the site groundwater monitoring locations (see Table 7-3), which include wells both upgradient and downgradient from the landfill. These changes are evidenced at some monitoring locations by the statistically significant trends (95% confidence level) for multiple parameters and monitoring locations. These trends are largely attributable to changes in redox conditions, which occur as expected around the landfill due to the construction and operations of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate landfill-related impacts to water quality from malfunction of the landfill liners. These monitoring locations are discussed in detail in Section 7.3 and comprise: (1) upgradient monitoring locations MW12-303R and P-206A; (2) side-gradient monitoring location MW-302R; (3) downgradient monitoring locations MW-223A, MW223B, MW-301; and (4) OW-06-03, OW-601A, OW-602B, and MW-501, which are downgradient from Cell 11 of the landfill expansion. These monitoring locations are not interpreted to be influenced by performance of the landfill cells or leachate collection and transport systems. This is supported by the current values and trends of key indicator parameters at the landfill underdrain monitoring locations.

Arsenic is the only parameter analyzed in groundwater monitoring wells that was detected above a maximum contaminant level (MCL) in 2020. During 2020, arsenic concentrations were generally low at the site-wide monitoring locations. There were only four monitoring wells in the detection monitoring analytical program with arsenic concentrations detected above its MCL (0.01 mg/L) during 2020. The maximum arsenic concentration detected at site-wide monitoring locations was 0.028 mg/L at MW-401B in July 2020. There were no arsenic concentrations detected above its MCL at pore-water sampling locations in 2020. There were no arsenic exceedances of the Maine Freshwater Criterion Continuous Concentration (MFCCC) during 2020 at surface water monitoring locations SW-1, SW-2, and SW-3.

The 2020 surface water, stormwater, and pore-water monitoring data are generally characterized by low values of key indicator parameters by comparison to the JRL leachate (i.e., LT-C4LR). This is generally consistent with historical data at these locations. One exception to this were the anomalously high specific conductance value and chloride concentration (among other parameters) at SW-DP1 during the April 2020 monitoring event. This was likely due to an overboard discharge from the active landfill in the vicinity of SW-DP1. MEDEP was notified of the discharge and residual material was removed by NEWSME. The July and October 2020 monitoring results indicate that the affected parameters at SW-DP1 are returning to values consistent with those prior to April 2020. With the exception of SW-DP1 in April 2020, all specific conductance values and chloride and arsenic concentrations at the surface water, stormwater, and pore-water monitoring locations were within their respective historical ranges.

2020 was the eighth year of supplemental monitoring for dissolved methane at monitoring well MW-223B and the sixth year of supplemental monitoring for dissolved methane at the three pore-water sampling locations. Dissolved methane was not detected above its laboratory reporting limit of 20 µg/L at MW-223B in April, July, and October 2020. The 2020 dissolved methane concentrations were within their respective historical ranges at PWS10-1 and PWS10-2. The July 2020 dissolved methane concentration at PWS10-3 (4,000 µg/L) was greater than the previous historical maximum concentration of 280 µg/L in July 2019. The historical dissolved methane detections at these locations are consistent with their hydrologic setting in a freshwater wetland and are attributed to anaerobic biological processes in the saturated wetland soils. Studies of freshwater wetlands in the southeastern portion of the United States show wetland pore-water samples with dissolved methane concentrations of more than 20,000 µg/L in the top 25 centimeters of saturated soils[2]. The lower dissolved methane concentrations at JRL wetlands are likely attributed to the cooler climate in the northeastern portion of the United States, which limits anaerobic

[2] Schipper LA, Reddy KR (1994) Methane production and emissions from four reclaimed and pristine wetlands of southeastern U.S. *Soil Science Society of America Journal* 58, 1270-1275.

biological activity. The greatest concentration of dissolved methane detected at pore-water monitoring locations in 2020 (4,000 µg/L at PWS10-3) occurred during the July monitoring event.

Baseline analytical monitoring for Cell 12 monitoring wells was performed in 2020. These locations were analyzed for the baseline monitoring parameters listed in Table 3-2. Samples were collected during February, April, June, and August 2020. As allowed by the Maine Solid Waste Management Rules, Chapter 405, Section 2.C.(3)(c), some parameters were discontinued from the program prior to completion of all four baseline monitoring events. These discontinuations were based on the absence of analytes at levels above laboratory practical quantitation limits. The baseline analytical monitoring program for Cell 12 monitoring wells is summarized in this report.

1.0 INTRODUCTION

The Juniper Ridge Landfill (JRL) is a secure landfill located on a 780-acre parcel in Old Town, Maine. It is owned by the Maine Bureau of General Services (BGS) and is operated by NEWSME Landfill Operations, LLC (NEWSME). Since 2004, JRL has been an integral part of the State of Maine's overall solid waste management program, providing environmentally sound disposal capacity for non-hazardous solid waste generated throughout the State of Maine. Figure 1-1 shows the location of the site. Figures 1-2 and 1-3 show the general site layout and monitoring locations of the site in 2020.

Water quality has been monitored at the site since 1990 when the site was first selected for a landfill.[3] This report describes the results of the water quality sampling and an analysis of site water quality in 2020 completed by Sevee & Maher Engineers, Inc. (SME). The analysis compares the 2020 results to historical water quality at the Site, using statistical and graphical evaluations of trends in the data by sample location, and to State and Federal water quality standards. The analysis also looks at the water quality data in terms of the site conditions that exist at the JRL.

Sampling during 2020 was completed in general accordance with the current Environmental Monitoring Plan (EMP) for the JRL (revised April 2016) and the EMP for the JRL expansion (revised June 2017).[4,5] Descriptions of the 2020 water quality monitoring results are provided in this report. There were supplemental components to the 2020 water quality monitoring program, consisting of sampling and analyses for dissolved methane at one monitoring well and three pore-water sampling locations.

In addition to EMP and supplemental monitoring, baseline analytical monitoring for Cell 12 monitoring wells MW-04-09A, MW-04-09B, and MW-502 was performed in 2020.

Descriptions of the site setting, facility layout, monitoring locations, analytical parameters, and 2020 site activities are also included herein. This report was preceded by a similar report prepared by SME in 2020 evaluating the 2019 site water quality.[6]

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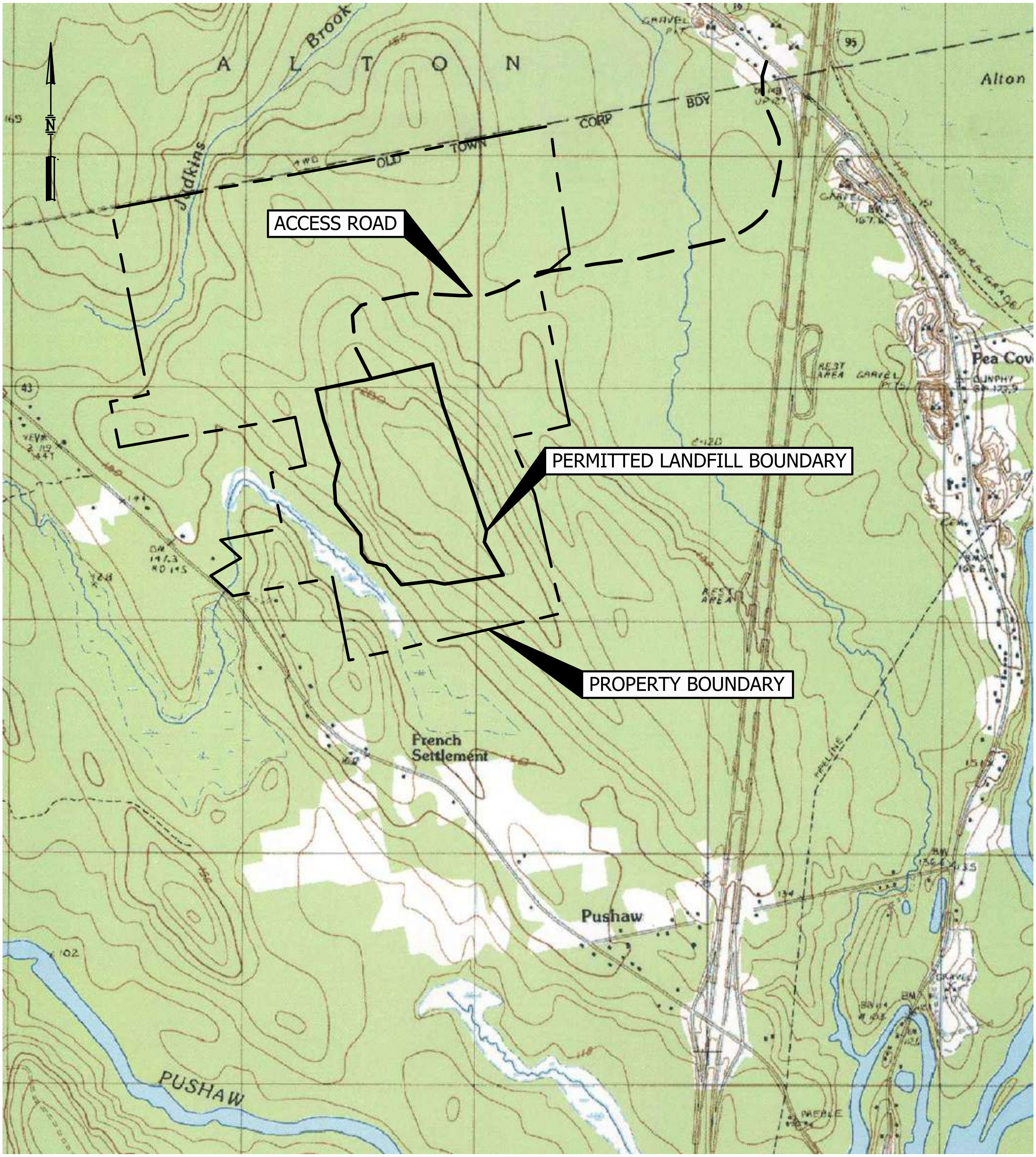
[3] The JRL was formerly known as the West Old Town Landfill and was owned and operated by Georgia-Pacific (previously known as Fort James and James River Paper Company) as a secure, non-hazardous, generator-owned waste disposal facility. A comprehensive description of the site setting and hydrogeology is contained in the 1991 report by SME entitled: *James River Paper Company Inc., West Old Town Landfill Project, Old Town Maine, Volume III, Site Investigation and Hydrogeologic Evaluation, August 1991*).

[4] SME, April 2016, Environmental Monitoring Plan, Juniper Ridge Landfill, Old Town, Maine, Prepared for NEWSME Landfill Operations LLC, Revised April 2016.

[5] SME, June 2017, Juniper Ridge Landfill Expansion Application Environmental Monitoring Plan, Submitted by: State of Maine Bureau of General Services, as Owner and NEWSME Landfill Operations, LLC, as Operator, July 2015 (Revised June 2017).

[6] SME, April 2020, 2019 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.



BASE MAP ADAPTED FROM 7.5 MIN
USGS TOPOGRAPHIC QUADRANGLE
OLD TOWN, MAINE-1988

1000 0 2000 FEET

FIGURE 1-1
SITE LOCATION MAP
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SME
SEVEE & MAHER
ENGINEERS

DWG: SITELOC LMN: FIG 1 CTB: HPSTD REV: 3/5/2019

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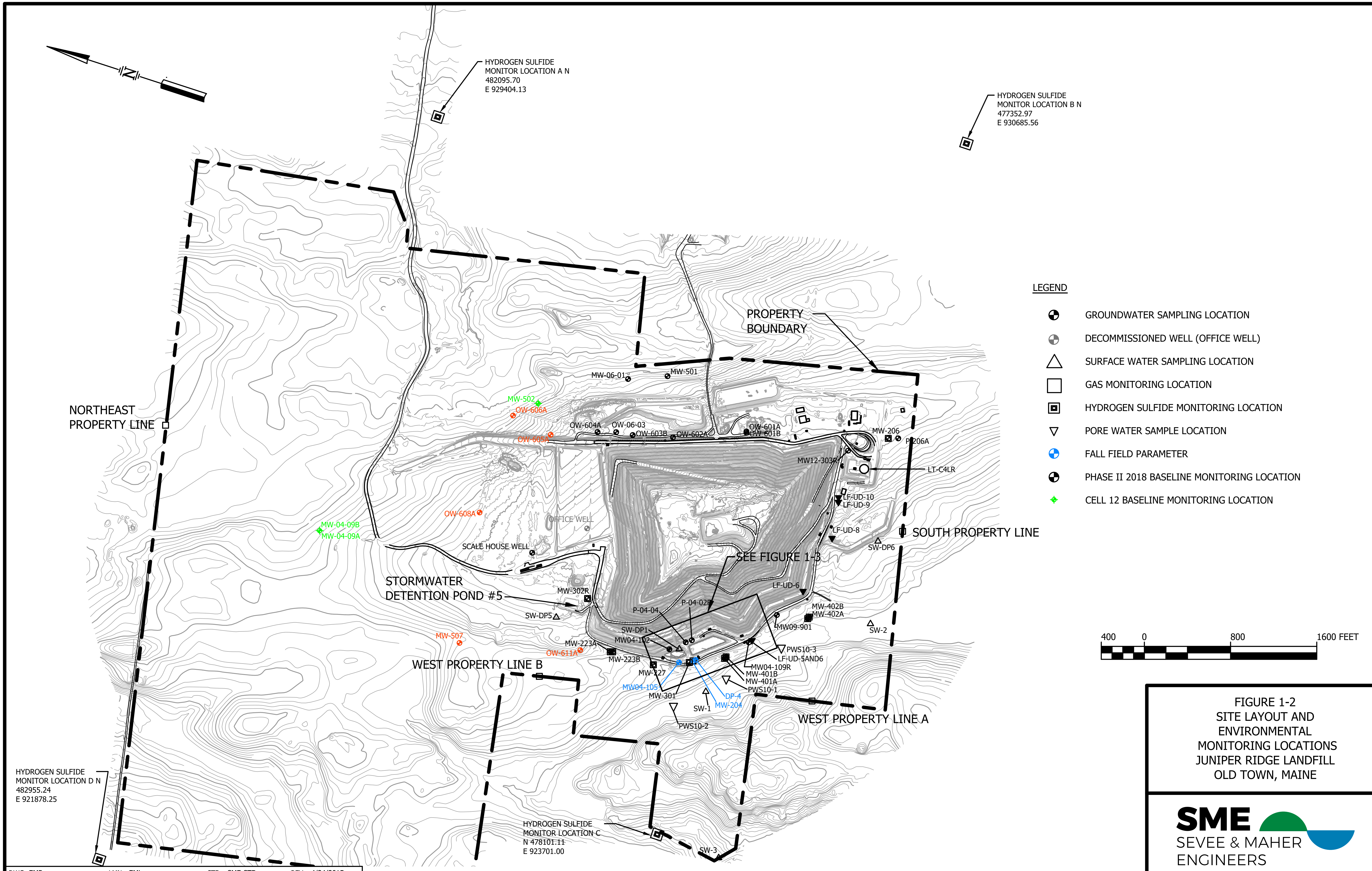

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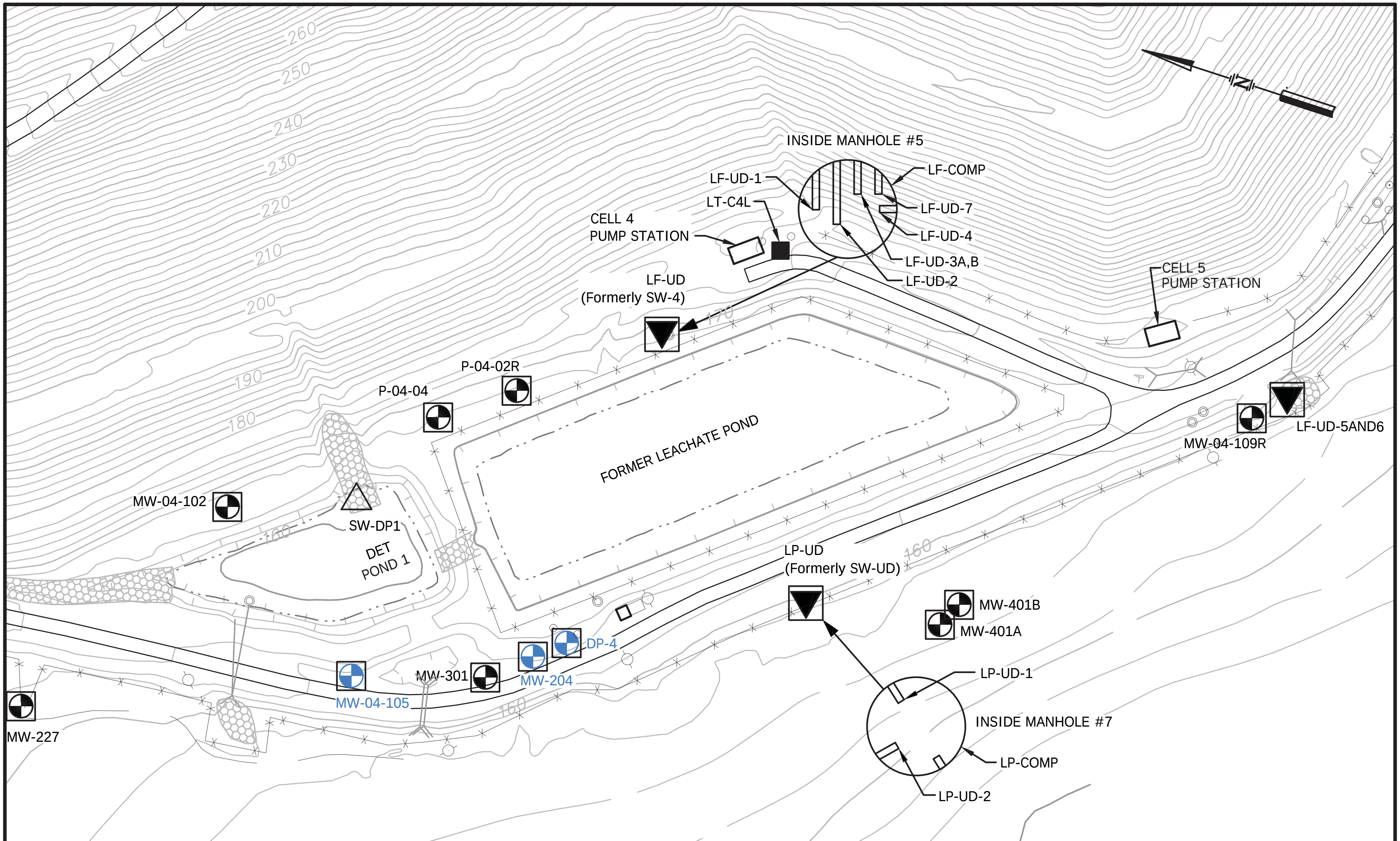

NOTE

USE OF LEACHATE POND TO STORE LEACHATE DISCONTINUED WITH CONSTRUCTION OF CELL 4 IN 2008.

50 0 100 FEET

LEGEND

- GROUNDWATER MONITORING LOCATION
- SURFACE WATER MONITORING LOCATION
- UNDERDRAIN MONITORING LOCATION
- GAS MONITORING LOCATION
- LEACHATE PUMP STATION
- FALL FIELD PARAMETER ONLY

FIGURE 1-3
ENVIRONMENTAL MONITORING LOCATIONS
ADJACENT TO
FORMER LEACHATE POND
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SME
SEVEE & MAHER
ENGINEERS

DWG: EMP LMN: EML-100 CTB: EML REV: 2/21/2018

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1.1 Landfill Conditions

The JRL is designed and constructed as a secure waste disposal facility in that the groundwater beneath and adjacent to the site is protected by a composite liner and a leachate collection system. Leachate generated at the site in 2020 was collected and stored in an on-site storage tank and then transported to either the MEDEP licensed wastewater treatment facility at the Old Town Mill owned by Nine Dragons Paper or the City of Brewer's treatment facility for treatment.

Cells 1, 2, 3A, 3B, 4, 5, 6, 7, 8, 9, and 10 have been constructed; this accounts for the 68-acre landfill approved by the Maine Department of Environmental Protection (MEDEP) Solid Waste Order #S-020700-WD-N-A. A landfill expansion was approved by Board Order #S-020700-WD-BI-N and includes expansion Cells 11 through 17. Cell 11 was constructed in 2018 and Cell 12 was constructed in 2020. Development of Cell 12 included site grading, construction of the landfill perimeter dike and temporary pump station, installation of a new leachate force main and landfill gas header, abandonment of the former administration building water supply well and the former scale house building water supply well (the latter to be completed in 2021), and modifications to perimeter stormwater drainage ditches east and north of the landfill. Intermediate cover and landfill gas collection piping and wells were installed within several areas of the active landfill cells in 2020.

Waste filling in 2020 occurred primarily in Cell 7, 9, 10, 11, and 12. In 2020, JRL received 835,261 tons of non-hazardous waste including, but not limited to, construction and demolition debris (CDD), municipal solid waste, front end process residue (FEPR), incinerator and boiler ashes, sludges, CDD fines, contaminated soils, oil spill debris, and other solid waste for which the facility has either blanket or individual permits. As of December 2020, approximately 895,289 cubic yards of permitted capacity remains in Cells 1-10 and approximately 6,563,510 cubic yards of permitted capacity remains in Cells 11-17.

1.2 Hydrogeologic Setting

The existing JRL facility is located on the southwestern side of a northwest-southeast trending drumlin. The natural topography in the landfill area slopes downward to the southwest towards a large wetland and an unnamed stream that empties into Pushaw Stream (Class B). Pushaw Stream empties into the Stillwater River (Class B), which flows to the Penobscot River (Class B). Groundwater beneath the landfill is interpreted to follow the natural surficial topography and, therefore, generally flows towards the southwest and towards the unnamed stream. The large change in elevation from northeast to southwest across the landfill area results in upward groundwater seepage gradients near the unnamed stream and wetland area. Horizontal groundwater seepage gradients on the western side of the stream indicate that groundwater also moves from the west towards the stream; thus, the stream acts as a hydrologic barrier for groundwater flow from the landfill beyond the east side of the stream.

The site is underlain primarily by glacial till with marine clay of the Presumpscot Formation in the lower topographic areas (e.g., the wetlands in the southwestern portion of the site). Throughout the site, the glacial till generally consists of a very dense brown till grading to very dense gray till with depth. The till typically ranges from 20 to 50 feet thick beneath the landfill and thus provides a natural containment layer for the landfill. At a few locations outside of the landfill boundary, bedrock outcrops are exposed at the ground surface. In addition, there were several isolated, discontinuous, washed till zones found beneath the till. However, these discontinuous washed till zones are often found within finer grained glacial tills.

Bedrock beneath the facility has been identified as a light gray and brown metagraywacke and metaquartzite interbedded with dark gray phyllite. The metasediments are typically competent and unfoliated, except for zones within the phyllite. The bedrock is mostly unweathered, although some discontinuous weathered zones have been observed. No faulting has been observed in bedrock cores and there are no faults mapped in the vicinity of the site. The bedrock surface beneath the landfill is locally variable; however, the surface generally slopes towards the southeast towards a bedrock trough that exists in the vicinity of the wetlands and unnamed stream at the southwest corner of the site.

The interpreted shallow groundwater phreatic surface and upper bedrock groundwater potentiometric surface contour maps for the JRL site are provided in Appendix B. These maps represent interpretations of the potentiometric surfaces using site data from 2007 and 2008. As expected, the groundwater elevations at the site monitoring wells have declined since then as a result of the cut-off of recharge from precipitation in the area of the landfill liner systems. The 2020 site groundwater level conditions do not result in a significant change to the interpreted groundwater flow directions or the groundwater flow divides at the site, particularly with regard to monitoring groundwater and surface water. Linear trendlines of groundwater elevations later than 2007 were calculated (see Appendix B) for twenty-four of the site's twenty-eight current groundwater monitoring locations to evaluate water level changes during this period. The average slopes of linear trendlines during this period were used to quantify the approximate rates of groundwater elevation changes at site groundwater monitoring locations, which are summarized in Table 1-1.

TABLE 1-1

2020 SUMMARY OF SITE GROUNDWATER ELEVATION TRENDS

Location Designation [1]	Position Relative to Landfill	Date Range for Analysis	Average Groundwater Elevation Change During Date Range for Analysis (feet-NGVD)	Rate of Groundwater Elevation Change (feet/year)
OW-602A	Downgradient (Expansion)	Apr-18 to Oct-20	-6.9	-2.703
OW-603B	Downgradient (Expansion)	Apr-18 to Oct-20	-5.5	-2.115
OW-604A	Downgradient (Expansion)	Apr-18 to Oct-20	-5.5	-2.115
OW-601A	Downgradient (Expansion)	Apr-18 to Oct-20	-4.5	-1.753
OW-601B	Downgradient (Expansion)	Apr-18 to Oct-20	-4.4	-1.717
P-206A	Upgradient	Jul-13 to Oct-20	-6.3	-0.877
OW-06-03	Downgradient (Expansion)	Apr-18 to Oct-20	-2.0	-0.767
MW12-303R	Upgradient	Oct-12 to Oct-20	-4.4	-0.548
MW-302R	Side-Gradient	May-08 to Oct-20	-4.5	-0.365
MW-206	Upgradient	May-07 to Oct-20	-1.5	-0.110
MW04-102	Downgradient	May-07 to Oct-20	-1.5	-0.110
P-04-04	Downgradient	May-07 to Oct-20	-1.5	-0.110
MW04-105	Downgradient	May-07 to Oct-20	-1.0	-0.073
MW-223B	Downgradient	May-07 to Oct-20	-1.0	-0.073
MW-223A	Downgradient	May-07 to Oct-20	-1.0	-0.073
MW-204	Downgradient	May-07 to Oct-20	-0.5	-0.037
MW-401A	Downgradient	May-07 to Oct-20	-0.4	-0.033
MW-227	Downgradient	May-07 to Oct-20	-0.3	-0.026
MW-402B	Downgradient	May-07 to Oct-20	-0.3	-0.026
MW04-109R	Downgradient	Dec-09 to Oct-20	-0.2	-0.018
MW-401B	Downgradient	May-07 to Oct-20	-0.2	-0.018
DP-4	Downgradient	May-07 to Oct-20	-0.1	-0.011
P-04-02R	Downgradient	Jul-15 to Oct-20	-0.02	-0.004
MW09-901	Downgradient	Dec-09 to Oct-20	+1.2	+0.110

<u>Notes</u>:
1 Site monitoring locations are described in Section 2.0.

As shown in Table 1-1, twenty-three of the twenty-four monitoring wells included in this analysis have downward water level trends for data collected later than 2007. Six of the monitoring locations included in Table 1-1 (OW-06-03, OW-601A, OW-601B, OW-602A, OW-603B, and OW-604B) are located downgradient of Cell 11 of the landfill expansion and have now been monitored since 2018. Early monitoring of groundwater elevation trends at these locations shows that the cut-off of recharge from precipitation by the Cell 11 landfill liner system has resulted in groundwater elevation change rates ranging from -2.703 feet per year (feet/year) at OW-602A to -0.767 feet/year at OW-06-03.

The remaining monitoring locations are upgradient or downgradient from all or a portion of Cells 1 through 10 of the JRL. The cut-off of recharge from precipitation by the landfill liner systems has generally resulted in the greatest rates of groundwater elevation decline at the three upgradient monitoring locations. The upgradient monitoring locations have a range in groundwater elevation change rates from -0.877 feet/year at P-206A to -0.110 feet/year at MW-206. Thirteen of the fourteen downgradient monitoring locations analyzed for groundwater elevation trends for data collected later than 2007 have declining groundwater elevation trends, but at lesser rates than at the upgradient monitoring locations. These downgradient monitoring locations have a range in groundwater elevation decrease rates from -0.110 feet/year at MW04-102 and P-04-04 to -0.004 feet/year at P-04-02R. The one downgradient monitoring location with an increasing groundwater elevation trend is MW09-901, which is a deep groundwater well located west of Cell 5. Side-gradient monitoring location MW-302R has a greater rate of groundwater elevation decline than the downgradient monitoring locations; however, the declining groundwater elevation rate of -0.365 feet/year at MW-302R is partly attributed to the lining of the adjacent Detention Pond #5 in 2013.

The site monitoring wells that are not included in the analysis summarized in Table 1-1 include MW-301, MW-402A, MW06-01, and MW-501. Monitoring locations MW-301, MW-402A, and MW06-01 also show indications of declining water levels but were not included since the rates of decline cannot be quantified with available data. Monitoring well MW-501 has been flowing during each of the monitoring events in 2018 through 2020.

Monitoring well MW-301 is located downgradient from the JRL and the former leachate pond. Groundwater elevation data from MW-301 shows slight declines from 2007 through 2012. MW-301 was found to be damaged during the April 2013 monitoring round. It was repaired prior to the July 2013 monitoring round and since that time has had reported average groundwater elevations in the order of 4 feet higher than values prior to the repair. Groundwater elevation data from MW-301 does show slight declines from 2013 through 2019.

Monitoring well MW-402A is located downgradient from the JRL and the former leachate pond. Groundwater from MW-402A was reported as flowing from the top of the well casing from when it was first sampled in April 2009 through October 2012. Since then, the groundwater has been reported as intermittently flowing. These observations signify an overall decline of groundwater elevations at MW-402A from 2009 through 2020. Similarly, groundwater intermittently flows from monitoring well MW06-01. The groundwater elevations appear to be trending down for water levels measured below the top of the well casing at MW06-01.

In addition to the cut-off of recharge from precipitation by the landfill liner systems, groundwater elevations at the site are affected by the amount of precipitation that falls on the site. Preliminary monthly climate data from the National Climatic Data Center (NCDC) for Bangor, Maine indicates a 2020 total precipitation of 37.60 inches, which is 4.33 inches below the normal precipitation reported by the NCDC for Bangor, Maine. The average groundwater elevations were generally lower in 2020 at most groundwater monitoring wells compared to 2019, when there was a total precipitation of 52.00 inches.

2.0 MONITORING LOCATIONS

Sampling during 2020 was completed in general accordance with the current EMP for the JRL (revised April 2016) and the EMP for the JRL expansion (revised June 2017).[7,8]

2.1 2020 Monitoring Locations

Sampling events during 2020 were completed in April, July, and October 2020. In 2020, water quality samples for the detection monitoring program were obtained by SME from 28 groundwater monitoring wells and piezometers,[9] three pore-water sample locations, three surface water locations, three stormwater locations, four underdrain locations,[10] and one leachate monitoring location. Measurement of field parameters (e.g., temperature and specific conductance) at the underdrain locations that contained water were completed on a monthly basis by NEWSME personnel.

The site monitoring points are summarized in Table 2-1 and Table 2-2 and their locations are shown on Figures 1-2 and 1-3. Information on the geologic formation in which each monitoring well is screened, as well as the elevation and distance below ground of each monitoring well screened interval, is listed in Table 2-1.

The sampling frequencies and monitoring parameters for each monitoring location are listed in Table 2-3. Monitoring parameters are discussed in Section 3.0.

During 2020, SME also performed baseline water quality monitoring at the Cell 12 monitoring wells. Groundwater samples were collected from three groundwater monitoring wells in February, April, June, and August 2020. The locations of the wells are shown on Figure 1-2 and they are summarized in Table 2-5. The baseline water quality monitoring is further discussed in Sections 2.9, 3.2, and 7.5.

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[7] SME, April 2016, Environmental Monitoring Plan, Juniper Ridge Landfill, Old Town, Maine, Prepared for NEWSME Landfill Operations LLC, Revised April 2016.

[8] SME, June 2017, Juniper Ridge Landfill Expansion Application Environmental Monitoring Plan, Submitted by: State of Maine Bureau of General Services, as Owner and NEWSME Landfill Operations, LLC, as Operator, July 2015 (Revised June 2017).

[9] Three of the site groundwater monitoring wells (DP-4, MW04-105, and MW-204) are sampled only during the fall monitoring event, and for field parameters only. Six of the site groundwater monitoring wells (OW-06-03, OW-601A, OW-601B, OW-602A, OW-603B, and OW-604A) are sampled for detection monitoring parameters only during the summer monitoring event and are monitored for field parameters only during the spring and fall monitoring events.

[10] Samples were obtained from four underdrain monitoring locations during one or more of the three 2020 sampling events. Eight additional locations were not sampled due to dry conditions (LF-UD-1, LF-UD-3A,B, LF-UD-4, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, and LP-UD-1). No composite samples were required to be taken at Manhole #5 (LF-COMP) and Manhole #7 (LP-COMP).

TABLE 2-1

2020 GROUNDWATER MONITORING LOCATIONS

Location Designation	Position Relative to Landfill	Screen Depth Interval (feet below ground surface)	Ground Surface Elevation (feet-NGVD)	Screen Interval Elevation (feet-NGVD)	Geologic Formation Screened
MW-204 [1]	Downgradient	13.8 – 18.8	164.0	150.2 – 145.2	Till
MW-206	Upgradient	15.0 – 20.0	200.9	185.9 – 180.9	Till
P-206A	Upgradient	85.5 – 90.5	201.5	116.0 – 111.0	Bedrock
MW-223A	Downgradient	28.0 – 33.0	173.4	145.4 – 140.4	Bedrock
MW-223B	Downgradient	12.6 – 17.6	173.3	160.7 – 155.7	Till
MW-227	Downgradient	15.0 – 20.0	160.8	145.8 – 140.8	Till
MW-301	Downgradient	162.7 – 182.7	163.5	0.8 – -19.2	Bedrock
MW-302R	Side-gradient	19.5 – 29.5	204.5	185.0 – 175.0	Bedrock
MW12-303R	Upgradient	30.4 – 40.4	206.1	175.7 – 165.7	Till
MW-401A	Downgradient	98.8 – 108.8	153.6	54.8 – 44.8	Bedrock
MW-401B	Downgradient	10.0 – 20.0	154.2	144.2 – 134.2	Till
MW-402A	Downgradient	95.5 – 105.5	149.3	53.8 – 43.8	Bedrock
MW-402B	Downgradient	12.0 – 22.0	149.7	137.7 – 127.7	Till
DP-4 [1]	Downgradient (In proximity of former leachate pond)	18.5 – 24.5	165.5	147.0 – 141.0	Till
P-04-02R	Downgradient (In proximity of former leachate pond)	27.1 – 32.1	168.0	140.9 – 135.9	Till
P-04-04	Downgradient (In proximity of former leachate pond)	27.2 – 32.2	166.7	142.1 – 137.1	Till
MW04-102	Downgradient (In proximity of former leachate pond)	10.0 – 15.0	167.0	157.0 – 152.0	Till
MW04-105 [1]	Downgradient (In proximity of former leachate pond)	14.8 – 19.8	162.2	147.4 – 142.4	Till
MW04-109R	Downgradient (In proximity of former leachate pond)	15.0 – 20.0	157.1	142.1 – 137.1	Till
MW09-901	Downgradient	15.0 – 20.0	161.9	146.9 – 141.9	Till
OW-06-03 [1]	Downgradient Expansion (Cell 11)	10.0 – 15.0	203.0	188.0 – 193.0	Overburden
OW-601A [1]	Downgradient Expansion (Cell 11)	88.0 – 98.0	214.9	116.9 – 126.9	Bedrock
OW-601B [1]	Downgradient Expansion (Cell 11)	51.0 – 61.0	214.5	153.5 – 163.5	Overburden
OW-602A [1]	Downgradient Expansion (Cell 11)	52.0 – 62.0	211.7	149.7 – 159.7	Bedrock
OW-603B [1]	Downgradient Expansion (Cell 11)	34.0 – 44.0	205.1	161.1 – 171.1	Overburden
OW-604A [1]	Downgradient Expansion (Cell 11)	39.0 – 49.0	195.8	146.8 – 156.8	Bedrock
MW-501	Downgradient Expansion (Cell 11)	57.0 – 67.0	163.2	96.2 – 106.2	Shallow Bedrock
MW06-01	Downgradient Expansion (Cell 11)	10.0 – 20.0	163.3	143.3 – 153.3	Overburden

Notes

[1] MW-204, DP-4, and MW04-105 were sampled only during the fall sampling event for field parameters only. Six of the site groundwater monitoring wells (OW-06-03, OW-601A, OW-601B, OW-602A, OW-603B, and OW-604A) are sampled for detection monitoring parameters only during the summer monitoring event and are monitored for field parameters only during the spring and fall monitoring events.

TABLE 2-2

2020 SURFACE WATER, STORMWATER, LEACHATE, AND UNDERDRAIN MONITORING LOCATIONS

Location Designation	Water Body Description
SW-1	Unnamed tributary of Pushaw Stream
SW-2	Unnamed tributary of Pushaw Stream
SW-3	Unnamed tributary of Pushaw Stream
SW-DP1	Stormwater Detention Pond #1
SW-DP5	Stormwater Detention Pond #5
SW-DP6	Stormwater Detention Pond #6
PWS10-1	Downgradient Stream Alluvium
PWS10-2	Downgradient Stream Alluvium
PWS10-3	Downgradient Stream Alluvium
LF-UD-1	Cell 1 underdrain at MH #5
LF-UD-2	Cell 2 underdrain at MH #5
LF-UD-3A,B	Cell 3A & Cell 3B underdrain at MH #5
LF-UD-4	Cell 4 underdrain at MH #5
LF-UD-5and6	Cell 5 & Cell 6 Underdrain (combined flow)
LF-UD-6	Cell 6 Underdrain
LF-UD-7	Cell 7 Underdrain at MH #5
LF-UD-8	Cell 8 Underdrain
LF-UD-9	Cell 9 Underdrain
LF-UD-10	Cell 10 Underdrain
LP-UD-1	Former leachate pond underdrain south end at MH #7
LP-UD-2	Former leachate pond underdrain north end at MH #7
LF-COMP	Composite sample of LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, and LF-UD-7 when water level in manhole covers the inlet pipes at MH #5
LP-COMP	Composite sample of LP-UD-1 and LP-UD-2 when water level in manhole covers both of the inlet pipes at MH #7
LT-C4LR	Leachate – On-site leachate storage tank

TABLE 2-3

2020 SAMPLING FREQUENCY

Sample Type	Location Designation	Monitoring: Detection Parameters (D) Field Parameters Only (FP)			Field Parameters Monthly
		Spring	Summer	Fall	
Groundwater	MW-204			FP	
	MW-206	D	D	D	
	P-206A	D	D	D	
	MW-223A	D	D	D	
	MW-223B	D	D	D	
	MW-227	D	D	D	
	MW-301	D	D	D	
	MW-302R	D	D	D	
	MW12-303R	D	D	D	
	MW-401A	D	D	D	
	MW-401B	D	D	D	
	MW-402A	D	D	D	
	MW-402B	D	D	D	
	DP-4			FP	
	P-04-02R	D	D	D	
	P-04-04	D	D	D	
	MW04-102	D	D	D	
	MW04-105			FP	
	MW04-109R	D	D	D	
	MW09-901	D	D	D	
	OW-06-03	FP	D	FP	
	OW-601A	FP	D	FP	
	OW-601B	FP	D	FP	
	OW-602A	FP	D	FP	
	OW-603B	FP	D	FP	
	OW-604A	FP	D	FP	
	MW-501	D	D	D	
	MW-06-01	D	D	D	
Surface Water	SW-1	D	D	D	
	SW-2	D	D	D	
	SW-3	D	D	D	
Stormwater Detention Pond	SW-DP1	D	D	D	
	SW-DP5	D	D	D	
	SW-DP6	D	D	D	
Pore-Water	PWS10-1	D	D	D	
	PWS10-2	D	D	D	
	PWS10-3	D	D	D	

TABLE 2-3 (cont'd)

Sample Type	Location Designation	Monitoring: Detection Parameters (D) Field Parameters Only (FP)			Field Parameters Monthly
		Spring	Summer	Fall	
Underdrains[1]	LF-UD-1	D	D	D	X
	LF-UD-2	D	D	D	X
	LF-UD-3A,B	D	D	D	X
	LF-UD-4	D	D	D	X
	LF-UD-5and6	D	D	D	X
	LF-UD-6	D	D	D	X
	LF-UD-7	D	D	D	X
	LF-UD-8	D	D	D	X
	LF-UD-9	D	D	D	X
	LF-UD-10	D	D	D	X
	LP-UD-1	D	D	D	X
	LP-UD-2	D	D	D	X
	LF-COMP	D	D	D	X
	LP-COMP	D	D	D	X
Leachate	LT-C4LR	D	D	D	

Notes
[1] Juniper Ridge personnel complete monthly underdrain and leak detection monitoring.

2.2 Groundwater Locations

Groundwater monitoring wells MW-206, P-206A, and MW12-303R are positioned upgradient of the landfill.

Groundwater monitoring wells MW-204, MW-223A, MW-223B, MW-227, MW-301, MW-401A, MW-401B, MW-402A, MW-402B, and MW09-901 are positioned downgradient of the landfill. Groundwater monitoring wells P-04-02R, P-04-04, MW04-102, MW04-105, MW04-109R, and DP-4 are located in the proximity of the former leachate pond[11] and are also downgradient of the landfill. Monitoring well MW-302R is considered to be side-gradient to the landfill and directly adjacent to Detention Pond #5.

Groundwater monitoring wells MW-501, OW-06-01, OW-06-03, OW-601A, OW-601B, OW-602A, OW-603B, and OW-604A are positioned northeast and downgradient of Cell 11 of the landfill expansion.

[11] The former leachate pond has been used as a stormwater storage pond since the summer of 2008.

2.3 Surface Water and Stormwater Locations

Surface water monitoring locations SW-1, SW-2, and SW-3 are located in the unnamed tributary to Pushaw Stream. SW-1 and SW-3 are located downstream of the landfill while SW-2 is located upstream of the landfill. Stormwater sample monitoring locations SW-DP1, SW-DP5, and SW-DP6 are located at the discharge locations of Detention Pond #1, Detention Pond #5, and Detention Pond #6, respectively.

2.4 Pore-Water Locations

Stream-based pore-water sample locations PWS10-1, PWS10-2, and PWS10-3 are located downgradient of the landfill along the unnamed tributary to Pushaw Stream and represent water in the overburden adjacent to the stream.

2.5 Leachate Sample Location

During the 2020 sampling events, leachate samples were obtained from the on-site leachate storage tank (i.e., LT-C4LR). Leachate samples associated with compliance monitoring for off-site wastewater treatment are also obtained at the same location. The sampling location at the leachate storage tank, LT-C4LR, is shown on Figure 1-2.

2.6 Underdrain Monitoring

The sample locations where underdrain samples were obtained in 2020 are shown on Figures 1-2 and 1-3 and a diagram of the underdrain collection system is included on Figure 2-1. By design, the sampling of the landfill underdrain system provides a means to monitor for landfill cell leakage as the underdrains underlie the landfill liner system. Manhole MH #5, located northeast of the former leachate pond, is the sample location which receives groundwater entering the underdrains beneath Cells 1, 2, 3A, 3B, 4, and 7. The sampling location for the underdrain for Cell 6 (LF-UD-6) is from a stilling well in the underdrain line. The base grades for Cell 5 and Cell 6 were designed such that the Cell 5 underdrain would also accommodate flow from the Cell 6 underdrain. The combined flow from the Cell 5 and Cell 6 underdrains then drain to a 6-inch diameter pipe outfall located on the southern perimeter of the landfill. Beginning in June 2010, samples obtained from this 6-inch diameter pipe outfall are now a composite sample from the Cell 5 and Cell 6 underdrains (LF-UD-5and6); prior to June 2010, samples obtained from this 6-inch diameter outfall pipe were for the Cell 5 underdrain only (LF-UD-5).

The underdrain for Cell 8 was constructed in 2012 at a discrete location shown on Figure 2-1. LF-UD-8 was added to the monitoring program during the April 2013 sampling event as the underdrain monitoring location for Cell 8. The underdrain for Cell 9, LF-UD-9, was constructed in 2015 and was added to the monitoring program during the April 2016 sampling event. With the construction of Cell 10 in 2017, the

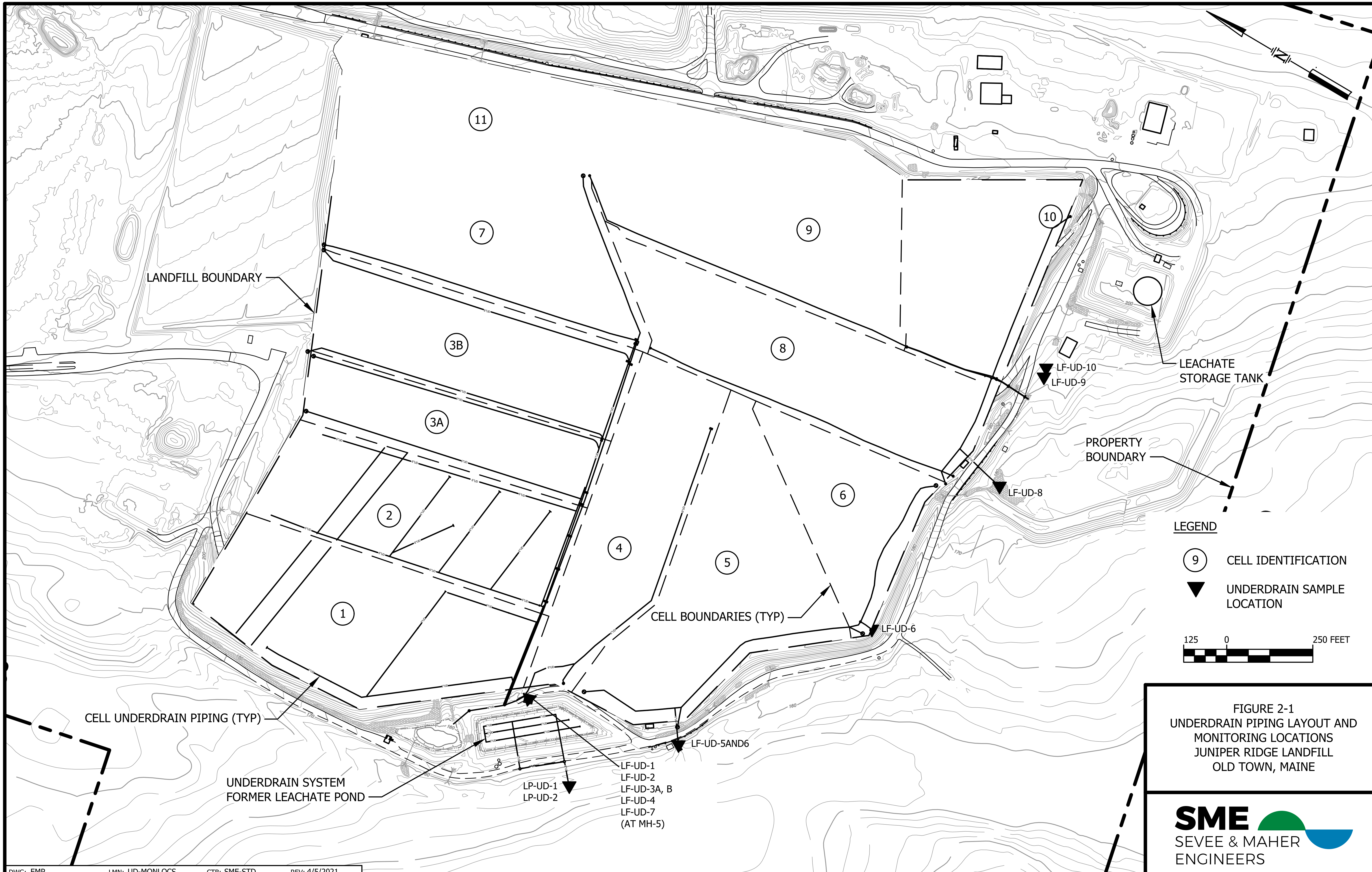


FIGURE 2-1
UNDERDRAIN PIPING LAYOUT AND
MONITORING LOCATIONS
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

\\Nserver\cfs\Casella\OldTownLandfill\GeneralSiteInfo\EMP\Acad\EMP.dwg, 4/5/2021 9:49:27 AM, sjm underdrain piping and sample collection location for the underdrain for LF-UD-9, which was located in a temporary underdrain manhole adjacent to Cell 9, was extended to the south outside of the Cell 10 perimeter berm. The underdrain for Cell 10, LF-UD-10, was constructed in 2017 outside of the southern perimeter berm of Cell 10 and was added to the monitoring program during the October 2017 sampling event.

Manhole location MH #7, which is located southwest of the former leachate pond, is the sample location for LP-UD-1 and LP-UD-2, which monitor groundwater entering the southern and northern underdrains, respectively, of the former leachate pond.

Underdrain samples were obtained by SME as part of routine monitoring and analyzed for the detection monitoring parameters. Samples were also obtained monthly by NEWSME for field parameters. The underdrain sample locations LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5and6, LF-UD-6, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, LP-UD-1, and LP-UD-2 were sampled during 2020, unless those locations were dry or their sample pipe inverts were submerged.

Historically, during times when LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, and LF-UD-7 were not able to be sampled separately due to pipe invert submergence, LF-COMP has been obtained from the manhole MH #5. This sample provides a composite sample of the aforementioned underdrain locations. Sample pipe submergence did not occur during the three 2020 detection monitoring events. LF-COMP samples were obtained from manhole MH #5 and analyzed for field parameters during each of the twelve 2020 monthly monitoring events.

Composite LP-COMP samples were not obtained during the routine monitoring events in 2020 because pipe invert submergence did not occur at individual sample locations LP-UD-1 and LP-UD-2, which were therefore sampled separately; however, LP-COMP samples were obtained and analyzed for field parameters during each of the twelve 2020 monthly monitoring events.

2.7 Annual Monitoring Well Specific Conductance Measurements

Specific conductance measurements were taken in 2020 from an expanded list of monitoring wells surrounding the existing landfill operations at JRL during the October monitoring event. This specific conductance sampling has occurred since 2008 when the MEDEP made a request that these samples be obtained. Locations measured annually for specific conductance are listed in Table 2-3 and shown on Figure 2-2. The results of the 2020 and historical fall specific conductance measurements are included in Appendix C.

TABLE 2-4

2020 MONITORING WELL AND PIEZOMETER LOCATIONS
USED FOR ANNUAL SPECIFIC CONDUCTANCE MEASUREMENTS

Location Designation	
DP-4	MW-402B
MW04-101 [1]	P-04-02R
MW04-102	P-04-04
MW04-104	P-201A
MW04-105	P-201B
MW04-109R	P-201C
MW12-303R	P-201D
MW-204	P-201E
MW-206	P-202A
MW-216BR	P-202B
MW-223A	P-206A [2]
MW09-901	P-209A
MW-223B	P-209B
MW-227	P-209C [3]
MW-301	P-211A
MW-302R	P-211B
MW-401A	P-220A [4]
MW-401B	P-220B [4]
MW-402A	

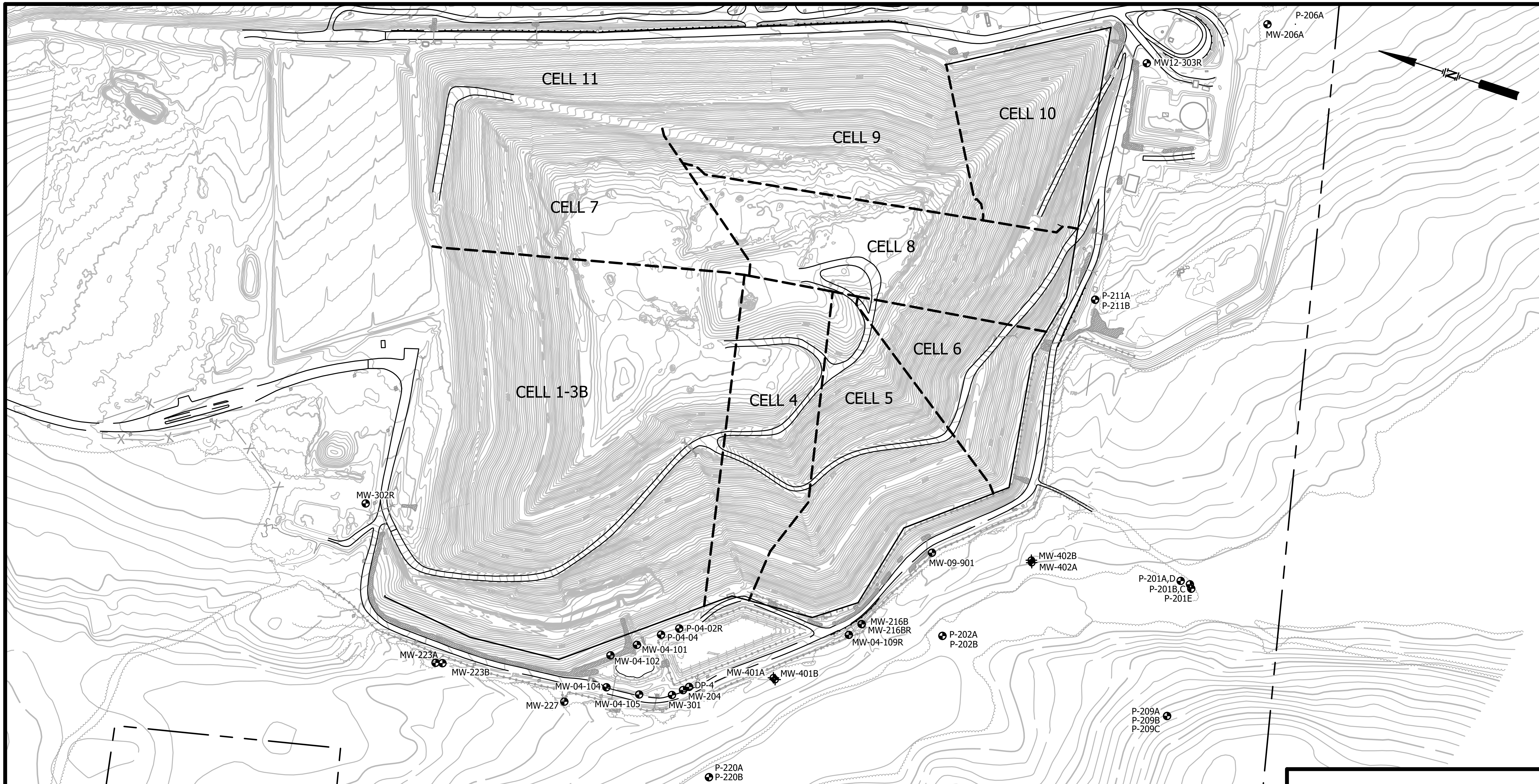
Notes:

1 Location damaged or destroyed. Specific conductance was not measured in October 2020.

2 Water level in P-206A was not high enough to pump in October 2020 and specific conductance was not measured at this location.

3 P-209C was dry in October 2020 and specific conductance was not measured at this location.

4 P-220A and P-220B were inaccessible in October 2020 and specific conductance was not measured at these locations.



NOTES

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC., NORRIDGEWOCK, MAINE. PHOTO DATE 6/28/2018. VERTICAL DATUM: BRASS PLUG AT PUMP STATION AND AT THE ADMINISTRATION BUILDING. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC, CUMBERLAND, MAINE.
CONTOURS WITHIN EXISTING CELL LINER LIMIT FROM LOW ALTITUDE AERIAL PHOTOGRAMMETRIC MAPPING PERFORMED BY SEVEE & MAHER ENGINEERS, INC. (SME) OF CUMBERLAND, MAINE, DATED NOVEMBER 15,2019. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC (SME) OF CUMBERLAND, MAINE USING PROPELLER AEROPOINTS, DATED NOVEMBER 15, 2019:
HORIZONTAL DATUM - NAD83 MAINE, EAST, US FT.
VERTICAL DATUM - NAVD 88, US FT.

2. PROPERTY LINE LOCATIONS ARE A RESULT OF FIELD SURVEY PERFORMED BY HERRICK AND SALSBURY, INC. LAND SURVEYORS, ELLSWORTH, MAINE FOR TRYTON TREE FARM PROJECT, PATTEN CORPORATION-DOWNEAST, OLD TOWN, MAINE, FEBRUARY 23, 1988, REVISED APRIL 7, 1988.

3. LOCATIONS OF EXPLORATIONS ARE APPROXIMATE.

150 0 300 FEET

FIGURE 2-2
MONITORING WELL LOCATIONS USED FOR ANNUAL CONDUCTIVITY MEASUREMENTS
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE

SME
SEVEE & MAHER ENGINEERS

DWG: GW LMN: FIG3-3 CONDUCTIVITY CTB: CONDUCTIVITY REV: 4/5/2021

\\Nserver\cfs\Casella\OldTown\Landfill\General\SiteInfo\EMP\Acad\GW.dwg, 4/5/2021 10:01:03 AM, sjm

2.8 Water Quality Landfill Gas Monitoring Program

Concurrent with the routine water quality monitoring events in 2020, site monitoring wells, underdrain locations, leachate manholes, a leak detection manhole, and JRL site property boundaries were monitored for the presence of landfill-related gases using a hand-held GEM 2000 gas meter. Figures 1-2 and 1-3 show the gas monitoring locations associated with the landfill's water quality monitoring program. The results of the 2020 and historical landfill gas monitoring are included in Appendix H.

2.9 Baseline Water Quality Monitoring Wells for Cell 12

Baseline water quality for Cell 12 monitoring wells was completed in 2020. Baseline monitoring locations are shown in Table 2-5. The locations of these wells are shown on Figure 1-2 and well construction details are summarized in Table 2-5.

TABLE 2-5

2020 BASELINE WATER QUALITY MONITORING WELLS FOR CELL 12

Monitoring Well	Implementation Schedule	Screen Depth Interval (feet-BGS)	Ground Surface Elevation (feet-NGVD)	Screen Interval Elevation (feet-NGVD)	Geologic Formation Screened
MW-04-09A	Cell 12	38.0 – 39.0	167.0	129.0 – 128.0	Till
MW-04-09B	Cell 12	14.0 – 15.0	167.0	153.0 – 152.0	Bedrock
MW-502	Cell 12	38.0 – 43.0	TBD	TBD	Bedrock

3.0 MONITORING PARAMETERS

3.1 Detection Monitoring Program

Table 2-3 shows the monitoring locations where detection monitoring was performed in 2020. Sampling during 2020 was completed in general accordance with the current EMP for the JRL (revised April 2016) and the EMP for the JRL expansion (SME, 2016; SME, 2017). The detection monitoring parameters are listed in Table 3-1. In instances where Table 2-3 shows a monitoring location is monitored for field parameters only, measurements are taken for groundwater elevation, specific conductance, dissolved oxygen, pH, temperature, turbidity, monitoring well pumping rate, and surface water flow rate.

Analysis for volatile organic compounds (VOCs) was included during the April monitoring event for multiple locations (LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5and6, LF-UD-6, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, LP-UD-1, LP-UD-2, and MW-401B), provided that there was sufficient water available to sample at these locations. The leachate samples from LT-C4LR were analyzed for the same VOCs list during the April, July, and October monitoring events. The leachate location (LT-C4LR) was also analyzed for the parameters listed in Appendix A, Column 3 of the Chapter 405 MEDEP Solid Waste Regulations during the April 2020 monitoring event.

A supplementary addition to the 2020 monitoring program included sampling and analysis for dissolved methane at monitoring well MW-223B and pore-water sampling locations PWS10-1, PWS10-2, and PWS10-3 in April, July, and October 2020. The results of the supplementary dissolved methane monitoring are discussed in Sections 7.3 and 7.4.

TABLE 3-1

2020 DETECTION MONITORING ANALYTICAL PROGRAM

Water Quality Parameter[1]	Method	Practical Quantitation Limit (PQL)[2] (mg/L)
Total Dissolved Solids	SM 2540C	10
Total Suspended Solids	SM 2540D	2.5
Arsenic (As)	SW846/6010B/3010A	0.005
Calcium (Ca)	SW846/6010B/3010A	0.3
Iron (Fe)	SW846/6010B/3010A	0.05
Magnesium (Mg)	SW846/6010B/3010A	0.3
Manganese (Mn)	SW846/6010B/3010A	0.05
Potassium (K)	SW846/6010B/3010A	0.3
Sodium (Na)	SW846/6010B/3010A	0.3
Total Organic Carbon (TOC)	SW846/9060A	2.0
Chloride (Cl)	SW846/9056	1.0
Bromide (Br)	SW846/9056	0.1
Sulfate (SO_4)	SW846/9056	1.0
Nitrate Plus Nitrite (NO_3-N/NO_2-N)	U.S. EPA 353.2	0.05
Bicarbonate (HCO_3-$CaCO_3$)	SM 2320B	1.5
Volatile Organic Compounds (VOCs)[4,8]	U.S.EPA 8260B	0.0005 – 0.02
Total Kjeldahl Nitrogen (TKN)[5]	US EPA 351.2	0.25
Total Phosphorous[6]	U.S.EPA 365.3	0.04
Biochemical Oxygen Demand (BOD)[7]	SM 5210B	1.0
Field Parameters Groundwater Elevation	Field Measurement	NA [3]
Specific Conductance	Field Measurement	NA
Dissolved Oxygen (DO)	Field Measurement	NA
pH	Field Measurement	NA
Eh	Field Measurement	NA
Temperature	Field Measurement	NA
Turbidity	Field Measurement (APHA 2130)	NA
Surface Water Flow Rate	Field Measurement	NA
Field Observations	Visual Observations	NA
Total Alkalinity (as $CaCO_3$) [9]	Field Measurement	NA

Notes:

1 In April 2020, leachate samples from LT-C4LR were analyzed for Appendix A, Column 3 parameters (from Chapter 405 MEDEP Solid Waste Regulations).
2 At dilution factor of unity. Some PQLs may differ for surface and stormwater analysis.
3 NA = Not Applicable.
4 VOCs are the 47 organic constituents listed in Appendix I of 40 CFR Part 258. Diethyl ether and tetrahydrofuran were added to the list of VOCs in 2016 at the request of MEDEP. PQLs for VOCs are reported at a dilution factor of unity.
5 Monitoring wells and leachate only.
6 Surface waters, stormwater, pore-water, and underdrain only.
7 Surface waters only (excluding stormwater detention ponds and underdrains).
8 In April 2020, LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5and6, LF-UD-6, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, LP-UD-1, LP-UD-2, and MW-401B were analyzed for VOC compounds, unless those locations were dry.
9 Underdrain monitoring locations only.

3.2 Baseline Analytical Program for Monitoring Wells for Cell 12

Baseline analytical monitoring for Cell 12 monitoring wells was performed in 2020 at the locations shown in Table 2-4. These locations were analyzed for the baseline monitoring parameters listed in Table 3-2. Samples were collected during February, April, June, and August 2020. As allowed by the Maine Solid Waste Management Rules Chapter 405, Section 2.C.(3)(c), and as described in Table 3-2, some parameters were discontinued from the program prior to completion of all four baseline monitoring events. These discontinuations were based on the absence of analytes at levels above laboratory practical quantitation limits. The changes in the parameters and locations included in the baseline program were reviewed with the Maine Department of Environmental Projection prior to making the changes. The results of the baseline analytical monitoring are summarized in Section 7.5.

TABLE 3-2

2020 BASELINE ANALYTICAL PROGRAM FOR MONITORING WELLS FOR CELL 12

Water Quality Parameter	Method	PQL[1] (mg/L)
Total Dissolved Solids	SM 2540C	10
Total Suspended Solids	SM 2540D	2.5
Arsenic (As)	SW846/6010B/3010A	0.005
Calcium (Ca)	SW846/6010B/3010A	0.3
Boron (B) [5]	SW846/6010B/6010C	0.05
Copper (Cu)	SW846/6010B/3010A	0.003
Iron (Fe)	SW846/6010B/3010A	0.05
Magnesium (Mg)	SW846/6010B/3010A	0.3
Manganese (Mn)	SW846/6010B/3010A	0.05
Potassium (K)	SW846/6010B/3010A	0.3
Sodium (Na)	SW846/6010B/3010A	0.3
Total Organic Carbon (TOC)	SW846/9060A	2.0
Chloride (Cl)	SW846/9056	1.0
Bromide (Br)	SW846/9056	0.1
Sulfate (SO_4)	SW846/9056	1.0 to 2.0
Sulfide (S^{2-})	8131 HACH	0.1
Ammonia (NH_3)	SM 4500 NH3-B/SM 4500 NH3-C	0.5
Nitrate Plus Nitrite (NO_3-N/NO_2-N)	U.S. EPA 353.2	0.05
Alkalinity ($CaCO_3$)	SM 2320B	1.5
Volatile Organic Compounds (VOCs) [3,4]	U.S.EPA 8260B	0.0005 – 0.02
Dissolved Methane [5]	8015mod/RSK-175	0.020
Total Kjeldahl Nitrogen (TKN)	US EPA 351.2	0.25
Total Phosphorous [5]	U.S.EPA 365.3	0.04
Biochemical Oxygen Demand (BOD) [5]	SM 5210B	1.0
<u>Field Parameters</u> Groundwater Elevation	Field Measurement	NA [2]
Specific Conductance	Field Measurement	NA
Dissolved Oxygen (DO)	Field Measurement	NA
pH	Field Measurement	NA
Eh	Field Measurement	NA
Temperature	Field Measurement	NA
Turbidity	Field Measurement (APHA 2130)	NA
Field Observations	Visual Observations	NA

Notes:

1 At dilution factor of unity. Some PQLs may differ for surface and stormwater analysis.

2 NA = Not Applicable.

3 VOCs are the 47 organic constituents listed in Appendix I of 40 CFR Part 258 plus diethyl ether and tetrahydrofuran. PQLs for VOCs are reported at a dilution factor of unity.

4 With agreement from MEDEP, MW-502 and MW-04-09B were sampled for VOCs only in February and April 2020 since there were no detections of VOCs above their respective PQLs. MW-04-09A was sampled for VOCs in February, April, June, and August 2020. The only VOC detection above a laboratory reporting limit at MW-04-09A was a one-time detection of m,p-xylene at 1.1 µg/L in April 2020.

5 Boron, dissolved methane, total phosphorous, and BOD were inadvertently omitted from baseline sampling at the Cell 12 monitoring wells. Boron, dissolved methane, total phosphorous, and BOD will be included in the 2021 monitoring program for MW04-09A, MW-04-09B, and MW-502.

4.0 SAMPLING TECHNIQUES

4.1 Monitoring Wells

Groundwater samples from monitoring wells and piezometers are obtained utilizing the low-flow sample collection techniques in general accordance with the EMP for the JRL. The low-flow sampling program includes dedication of 1/8-inch diameter (I.D.) polyethylene tubing in each well. The tubing is secured at the top of the well such that the inlet of the tubing is placed approximately at the middle of the screen zone in each well. Prior to sampling, the static water level is measured in each well. A peristaltic pump with an adjustable flow rate is used to purge and sample monitoring wells with relatively shallow water tables. Monitoring wells with water tables greater than 28 feet below ground surface are sampled with dedicated submersible pumps rather than a peristaltic pump due to the depth of the groundwater.

The low-flow sampling procedure at the JRL consists of purging the monitoring wells at approximately 100 to 200 milliliters per minute. While the wells are purged, water levels and measurements of specific conductance, temperature, pH, Eh, dissolved oxygen, and turbidity are taken through a flow-through-cell at regular intervals. Field parameters and water level measurements are monitored to determine if parameter stabilization has occurred as outlined in the EMP. Once stabilization of the field parameters has occurred, in particular water levels and turbidity, a sample is obtained for chemical analysis. Several of the wells have very low recharge rates and, therefore, do not stabilize even under these low purge rates. For these wells, a sample is obtained after purging the liquid present in the sampling tube and pump.

4.2 Surface Water, Stormwater, Underdrain, and Leachate Sampling Locations

Grab samples are obtained at the surface water, stormwater, underdrain, and leachate sampling locations, which is consistent with historical sampling methods and in accordance with the EMP. These samples are not filtered prior to analysis.

4.3 Pore-Water Sampling Locations

The pore-water samples are obtained in the following manner:

1. The pore-water sampling apparatus (i.e., pore-water sampler) is decontaminated with an Alconox® and deionized water solution followed by several deionized water rinses.
2. The area to be sampled is entered from an area downstream from the sample point. Caution is used not to disrupt the area where the pore-water sampler will be used.
3. The pore-water sampler is gently pushed approximately two feet into the soil surface in the sampling location area specified in the EMP. The inner rod remains inside of the pore-water

sampler as it is pushed into the soil surface in order to maintain the integrity of the pore-water sample.

4. Once the pore-water sampler is advanced approximately two feet into the soil surface, the inner rod is removed and a new, clean piece of polyethylene tubing is attached to the top of the pore-water sampler using a new, clean silicone tube coupling.
5. Water is pumped from the pore-water sampler at a rate of approximately 100 to 200 milliliters per minute with a peristaltic pump.
6. Field parameters are monitored at a regular interval until stabilization criteria are met, or until the pore-water sampler runs out of water. If the pore-water sampler runs out of water, it is allowed to recharge and samples are then obtained for laboratory analyses.
7. After sampling is complete, the pore-water sampler is removed from the soils and a labeled grade stake is installed at the sampling location that clearly identifies the location for future sample collection from the same general location.

4.4 Water Quality Landfill Gas Monitoring

Gas monitoring at the monitoring wells, underdrain locations/manholes, leak detection manhole, and JRL site property boundaries is done using a GEM 2000 gas meter manufactured by Landtec of Colton, California with an auxiliary H_2S pod. Measurement of headspace gas in the monitoring wells is accomplished by placing the probe tip into the upper few inches of the well casing immediately after the well cap is removed. Gas measurements at underdrain and leak detection manhole locations are measured by placing the probe at the manhole opening where samples are obtained. The meter is calibrated daily before use. Methane-equivalent, carbon dioxide, and oxygen are reported as percent by volume. Hydrogen sulfide is reported in parts per million by volume.

4.5 Sample Handling and Chain-of-Custody

After obtaining the water quality samples in 2020, the samples were preserved on ice in coolers and shipped by SME to Maine Environmental Laboratory (MEL) of Yarmouth, Maine for analyses. Eastern Analytical, Inc. of Concord, New Hampshire, under subcontract to MEL, performed the nitrate plus nitrite, dissolved methane, and VOC analyses. Katahdin Analytical Services (Katahdin) of Scarborough, Maine, under subcontract to MEL, performed the analyses for total Kjeldahl nitrogen, semi-volatile organic compounds (SVOC), herbicides, pesticides, and polychlorinated biphenyls (PCBs). Chain-of-custody sheets prepared by the sampling personnel accompanied the samples and contain the signatures documenting the transfer of the water quality samples from the field sampler to the receiving laboratory.

5.0 DATA VALIDATION AND QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC)

QA/QC activities associated with sampling include the utilization of standardized collection procedures and sample data records, calibration of field instruments, and the use of chain-of-custody procedures. SME followed the EMP procedures to ensure that both the field instruments and protocols employed generate data that are reliable and provide valid analysis results. Instruments were calibrated, analyses were conducted to determine potential matrix interference as necessary, precision and accuracy were checked, and hold-times were verified. Analytical QA/QC involves the use of approved analytical protocols by a qualified laboratory. Water quality samples were all analyzed within the required hold-times.

Data validation and laboratory quality control procedures were followed and documented as described in the MEDEP Solid Waste Management Rules, Chapter 405. During 2020 monitoring events, duplicate water quality samples were obtained from several monitoring locations, as discussed in water quality data submittals for each round. Reports on Relative Percent Difference (RPD), calculated ratios of total dissolved solids to specific conductance, and values falling outside of historical ranges for each monitoring event were presented in each of the three data transmittals provided in 2020.

6.0 DATA ANALYSIS

Detailed discussion and evaluations of the water quality from sampling locations are presented in Section 7.0. Appendix D contains tables of historical water quality data collected over the past ten years, including 2020, for the sampling locations and parameters identified in this report. Water quality data for the site have been quantitatively evaluated using the methods described below and qualitatively evaluated based on the knowledge of the site hydrogeologic conditions developed from the extensive site investigations completed onsite and the status of site development and operations. Conclusions about site water quality are based on a combination of the quantitative and qualitative methods used to evaluate the water quality data.

6.1 Concentrations above MCL, MEG, MFCCC

Parameters measured at the site groundwater monitoring wells and pore-water sample locations that were above their respective U.S.EPA Maximum Contamination Levels (MCLs) or Maine Maximum Exposure Guidelines (MEGs) during 2020 are identified in detail in Sections 7.3 and 7.4. Parameters measured at the site surface water and stormwater monitoring locations that were above their Maine Freshwater Criterion Continuous Concentrations (MFCCCs) are identified in detail in Section 7.4.

6.2 Key Indicator Parameters for Comparison to JRL Leachate

For each of the site monitoring locations, specific conductance, chloride, and arsenic concentrations are summarized as key indicator parameters for comparison to JRL leachate concentrations. Generally, at a given water quality monitoring location, if landfill leachate were present, there would be a notable, significant, increase in specific conductance values and chloride and arsenic concentrations (in conjunction with changes in other parameter concentrations) due to their presence at high concentrations in the JRL leachate. In 2020, the annual maximum value of specific conductance in JRL leachate (i.e., monitoring location LT-C4LR) was 25,800 µmhos/cm in July 2020. The annual maximum concentrations of chloride and arsenic at monitoring location LT-C4LR were 13,000 mg/L (July 2020) and 0.33 mg/L (July 2020), respectively.

Specific conductance gives an indication of the total dissolved constituents at each monitoring location. Chloride is useful in assessing the site water quality in comparison to JRL leachate due to its conservative nature in terms of adsorption, precipitation, and degradation in the groundwater environment. It is important to note that increases in chloride may also be due to runoff and recharge from salting or dust control of nearby roadways. Therefore, increases in chloride levels also need to be reviewed in terms of site conditions.

Currently, there are limited occurrences of arsenic MCL/MEG (0.01 mg/L) exceedances in site groundwater that are attributed to reducing conditions associated with decreasing groundwater recharge from site development. These reducing conditions are interpreted to favor reductive dissolution of arsenic and iron hydroxides that are present naturally in the soils and bedrock, which results in the release and mobility of dissolved arsenic in the groundwater. The highest arsenic concentration at JRL water quality monitoring locations in 2020 (0.028 mg/L at MW-401B in July 2020) is approximately an order of magnitude lower than in the JRL leachate in 2020. The historical maximum arsenic concentration in the JRL leachate is 0.6 mg/L (July 2017). The occurrence of arsenic concentration increases in JRL water quality monitoring locations, accompanied by increases in specific conductance values and chloride concentrations, may be a reliable indicator of landfill impacts resulting from the presence of JRL leachate.

6.3 Box and Whisker Plots and Data Summary Sheets

Water quality data for each monitoring location are summarized in the data summary sheets contained in Appendix E of this document. The summary sheet prepared for each sampling location contains a map and description of the monitoring point, a 2020 water quality data summary, and a statistical summary of the historical data prior to 2020. Parameter concentrations that exceeded historical minimum and maximum concentration values in 2020 at site monitoring locations are identified on the individual water quality summary sheets contained in Appendix E.

Also included in Appendix E are box and whisker plots of select monitoring parameter data for each of the sampling locations. The box and whisker plots graphically illustrate the annual concentration ranges and annual median value for the analytical results of each parameter shown and also provide a useful way to visually identify long-term and short-term trends in the water quality data. Where trends occur in the data, the trends can be seen visually on the plots. Plotting the range of annual values on the box and whisker plots also provides a sense of the variability of the annual data (statistically expressed as a standard deviation) and whether or not an apparent trend may be real or lies within the inherent variability of the data. Visual observation of water quality trends over time using the historical data (including 2020 data) is aided by using a fast-Fourier transform regression of each of the select parameter annual mean concentration values. Graphs of the fast-Fourier regression are part of the box and whisker plots in Appendix E.

6.4 Mann-Kendall Trend Analyses

Mann-Kendall trend analyses were run for the JRL water quality data to screen for potential statistically significant changes in water quality parameter concentrations over time. The Mann-Kendall analysis was chosen because it is nonparametric and is robust to outliers, missing data, and non-detects. Time-series plots of water quality parameter concentrations often contain multiple trends over time, due to various factors. In order to evaluate current trends for this annual report, the Mann-Kendall trend analyses were run for the site data over two time periods; from the end of 2020 back five years and three years. The three-year and five-year timeframes are suitable for evaluating changes in water quality related to more recent conditions, and to identify ongoing longer trends.

The Mann-Kendall test was run with a 0.05 Type-I error (i.e., 95% confidence level). For this evaluation, we consider a statistically significant trend to be one in which the potential Type-I error (i.e., false positive) is less than 0.05. The Mann-Kendall results for groundwater, surface water, stormwater, leachate, and underdrain locations are included in Appendix F and are discussed by location in Section 7.0. It should be noted that individual parameter trend analysis calculations using analytical data that are typically non-detect are at times positive for increasing or decreasing trend screenings due to changes in the laboratory reporting limit. In those cases, trends are interpreted and reported as no trends; these instances are identified in Appendix F. This occurrence is somewhat frequent for JRL site water quality due to the generally low parameter concentrations in groundwater at the site. Parameters for which this occurred at some monitoring locations in 2020 analyses are five-year statistically significant decreasing trends (95% confidence level) for total suspended solids, total Kjeldahl nitrogen, and bromide, which are consistently or mostly non-detect at some groundwater monitoring locations but had decreases in reporting limits over the past five years.

Although rapid increases in concentrations of multiple parameters at a monitoring location may reflect site operational impacts such as spillage of leachate or landfill liner leakage, changes in multiple parameter values at a given monitoring location can also result from changes in groundwater conditions unrelated to the landfill leachate. As an example, decreases in natural precipitation recharge to the groundwater will change redox, alkalinity, and pH conditions, which results in the release of various constituents such as iron, manganese, and arsenic from soils and bedrock into the groundwater. Nearly all chemical constituents are subject to changes in concentrations resulting from interactions between soil, rock, and groundwater.

Increases in multiple (four or more) parameters, especially when including key indicator parameters, are noted in our evaluation of the water quality in the site monitoring locations. [12] At locations where this criterion is met, further assessment of water quality data and site conditions is completed to ascertain the potential causes for the change in water quality.

The trend analyses are used as a screening tool to review the water quality and must be viewed in conjunction with other factors such as the specific parameters exhibiting trends and the parameter concentrations detected at the monitoring locations (i.e., a specific parameter could have an increasing

[12] Water temperatures, water elevations at groundwater monitoring locations, and flow rates at underdrain monitoring locations are included in the Mann-Kendall results in Appendix F but are not included in discussions related to water quality changes based on the number of parameters with increasing or decreasing trends at a given location.

trend, but remain within a range consistent with upgradient concentrations). The results of the trend screening analyses are compared visually with the time-series plots (box and whisker plots) described above to aid in assessing the actual significance of a statistical trend.

6.5 Bromide Analysis

Bromide was added to the monitoring program during 2013. Section 7.1 includes an evaluation of the chloride to bromide ratios for the JRL leachate during 2020 and how they compare to chloride to bromide ratios for site monitoring locations during 2020.

6.6 Stiff and Piper Diagram Construction

Stiff and Piper Diagrams were constructed for several of the monitoring locations to assist in the evaluation of water quality at these locations in 2020. These diagrams are graphical representations of select parameters that display the major ion composition of a water quality sample. They were used at several of the monitoring locations to compare the ionic composition of the water quality samples to other sample results such as upgradient locations and/or the landfill leachate to assess potential sources of water at the wells. This can be a valuable tool to compare water quality between various locations since it can be used to "fingerprint" ionic ratios, independent of concentration. See Appendix G for Stiff and Piper diagrams.

7.0 WATER QUALITY EVALUATION

Groundwater, surface water, stormwater, leachate, and underdrain water quality samples were obtained in 2020 at monitoring locations as described in Section 2.0 of this report. Samples were obtained during April, July, and October 2020. Laboratory analytical reports, field data sheets, and data validation documentation have been presented in tri-annual data submittals forwarded to the MEDEP during 2020 for each monitoring event.

The 2020 water quality data for the JRL is generally consistent with the historical data for the site. The 2020 water quality data from monitoring locations at the JRL are consistent with their setting among the construction and operational activities of the landfill. Site groundwater, surface water, and underdrain quality data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. Water quality changes have been observed at the JRL, both upgradient and downgradient from the landfill, as evidenced by the statistically significant trends discussed in this section for multiple parameters and monitoring locations. These trends are largely attributable to landfill operations and changes in redox conditions, which occur as expected around the landfill due to the construction of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate any significant landfill related impacts to water quality from malfunction of the landfill liners.[13]

Only one of the parameters analyzed in groundwater monitoring wells, arsenic, was detected above an MCL in 2020. During 2020, arsenic concentrations were generally low at the site-wide monitoring locations. There were only four monitoring wells in the detection monitoring analytical program with arsenic concentrations detected above its MCL (0.01 mg/L) during 2020. The maximum arsenic concentration detected at site-wide monitoring locations was 0.028 mg/L at MW-401B in July 2020. There were no arsenic concentrations detected above its MCL at pore-water sampling locations in 2020. There were no arsenic MFCCC exceedances during 2020 at surface water monitoring locations SW-1, SW-2, and SW-3.

The low arsenic concentrations at the JRL in 2020 are a continuation since 2017 of generally site-wide lower concentrations of arsenic compared to recent previous concentrations. In contrast to 2020 arsenic data, all routine monitoring wells (19 at the time) and two of the three pore-water sampling locations had arsenic MCL exceedances during one or more sampling event in 2016.

The limited presence of arsenic at JRL monitoring locations in 2020 is attributed to reducing conditions associated with decreasing groundwater recharge from site development. These reducing conditions are

[13] The MEDEP agreed with this assessment in its review of the 2017 Annual Report. MEDEP, February 20, 2018, Memorandum regarding the 2017 Annual Report, Juniper Ridge Landfill, Old Town, Maine, MEDEP Lic. #S-020700-7A-A-N and Amendment #S-020700-WD-N-A, Prepared by Sevee and Maher Engineers, Inc., April 2015.

interpreted to favor reductive dissolution of arsenic and iron hydroxides that are present naturally in the soils and bedrock, which results in the release and mobility of dissolved arsenic in the groundwater.

Observations relative to the site water quality data for 2020, in terms of historical and regulatory comparisons and site setting, are discussed below for: leachate (Section 7.1); underdrains (Section 7.2); groundwater (Section 7.3); and surface water, stormwater, and pore-water (Section 7.4) monitoring locations. Water quality parameter data not specifically discussed in this report are considered to be consistent with the previously obtained water quality data for the JRL. The baseline analytical monitoring results of three new monitoring locations downgradient from Cell 12 in 2020 are discussed in Section 7.5.

7.1 Leachate

The landfill leachate is sampled and analyzed as part of the ongoing water quality monitoring program. Leachate samples were obtained from the on-site leachate storage tank (i.e., LT-C4LR) during 2020. Leachate sampling location LT-C4LR replaced the former leachate sampling location in July 2013 in order to obtain leachate samples that are representative of leachate from all of the landfill cells. The leachate at LT-C4LR was sampled for the parameters in the detection monitoring analytical program (see Table 3-1) in July 2020 and October 2020 and was sampled for the parameters listed in Appendix A, Column 3 of the Chapter 405 MEDEP Solid Waste Rules during the April 2020 monitoring event. Leachate samples associated with compliance monitoring for off-site wastewater treatment are also obtained at the leachate storage tank when transport tanker trucks are being loaded. During 2020, approximately 16.0 million gallons of leachate were loaded into tanker trucks and transported from JRL for off-site treatment.

Leachate parameter values during 2020 and historically since July 2013 are generally characterized by high parameter values. Leachate parameter values during 2020 were generally consistent with historical values. There was only one parameter (temperature) with a new historical maximum value in 2020 and two parameters (iron and manganese) with new historical minimum concentrations (see Appendix E). The specific conductance values recorded at LT-C4LR in 2020 ranged from 17,490 µmhos/cm in April 2020 to 25,800 µmhos/cm in July 2020. Chloride concentrations at LT-C4LR in 2020 ranged from 7,400 mg/L in October 2020 to 13,000 mg/L in July 2020. Arsenic concentrations at LT-C4LR in 2020 ranged from 0.24 mg/L in October 2020 to 0.33 mg/L in July 2020. The 2020 data from the leachate monitoring location is included in Appendix D.

There are not multiple (four or more) parameters for LT-C4LR with statistically significant increasing or decreasing trends (95% confidence level) over the past three years or five years.

Leachate was monitored for VOCs, SVOCs, herbicides, pesticides, and PCBs during the April 2020 monitoring event at LT-C4LR and for VOCs during the July 2020 and October 2020 monitoring events at

LT-C4LR. Appendix D includes the monitoring results at LT-C4LR for 2020 and the results of VOC, SVOC, herbicide, pesticide, and PCB parameters detected at levels above their respective laboratory reporting limits are summarized below:

- Methylene chloride (1.2 µg/L in July 2020, 30 µg/L in October 2020);
- Acetone (1,200 µg/L in April 2020, 560 µg/L in July 2020, 1,700 µg/L in October 2020);
- 1,2-dichloroethane (1.8 µg/L in July 2020);
- Methyl ethyl ketone (1,000 µg/L in April 2020, 300 µg/L in July 2020, 2,100 µg/L in October 2020);
- Benzene (5.0 µg/L in July 2020);
- 4-methyl-2-pentanone (20 µg/L in July 2020);
- Toluene (26 µg/L in April 2020, 16 µg/L in July 2020, 24 µg/L in October 2020);
- Ethylbenzene (7.8 µg/L in July 2020);
- m,p-xylene (9.1 µg/L in July 2020, 12 µg/L in October 2020);
- o-xylene (5.3 µg/L in July 2020);
- Tetrahydrofuran (420 µg/L in April 2020, 490 µg/L in July 2020, 350 µg/L in October 2020);
- Cis-1,2-dichloroethene (1.5 µg/L in July 2020);
- 1,4-dichlorobenzene (1.0 µg/L in July 2020);
- Diethyl ether (6.5 µg/L in July 2020);
- Phenol (190 µg/L in April 2020);
- Naphthalene (20 µg/L in April 2020);
- 3&4-methylphenol (540 µg/L in April 2020); and
- Acenaphthene (14 µg/L in April 2020).

There were no detections of the VOC parameters listed above in groundwater or underdrain samples obtained during 2020.[14] The VOC and SVOC parameters shown above have previously been detected above laboratory reporting limits at LT-C4LR and/or LT-C4L (i.e., the former leachate collection location). There were no herbicides, pesticides, or PCBs parameters detected above the laboratory reporting limits in April 2020.

[14] This excludes the detection of m,p-xylene at a concentration of 1.1 µg/L in April 2020 at Cell 12 baseline monitoring location MW-04-09A.

Bromide was present in the leachate (LT-C4LR) samples obtained during 2020 at concentrations ranging from 52 mg/L in April 2020 to 120 mg/L in July 2020. The chloride to bromide ratio for the leachate and site monitoring locations is being evaluated for its potential to be a useful screening tool for assessing possible leachate influence in water samples obtained from site monitoring locations. The chloride to bromide ratios for the leachate during 2020 were approximately 160 to 1 in April 2020, 108 to 1 in July 2020, and 96 to 1 in October 2020.

While the ratio of chloride to bromide can be used to differentiate a variety of bromide sources,[15] the bromide concentrations in the JRL water quality sampling locations in 2020 were either non-detect or at very low values, with the exception of an anomalously high bromide concentration of 1.1 mg/L detected at stormwater monitoring location SW-DP1 in April 2020. This exceeded the previous historical maximum value of 0.13 mg/L at SW-DP1 in April 2013. This new historical maximum value was likely due to an overboard discharge from the active landfill in the vicinity of SW-DP1, which is discussed further in Section 7.4. MEDEP was notified of the discharge and residual material was removed by NEWSME. The bromide concentration at SW-DP1 decreased to a concentration of 0.22 mg/L in July 2020 and was not detected above the laboratory reporting limit of 0.1 mg/L in October 2020.

Other than SW-DP1, the highest bromide concentration detected at the JRL water quality monitoring locations in 2020 was 0.32 mg/L at MW09-901 in April 2020.

In addition to SW-DP1, there were seven other monitoring locations (LF-UD-5and6, LP-UD-2, MW09-901, MW-223A, OW-604A, SW-1, and SW-3) with bromide detected at new historical maximum values in 2020, but only at slightly higher values than previous historical maximum values.

The 2020 bromide detections and chloride to bromide ratios are summarized in Table 7-1. The bromide concentrations above the laboratory reporting limits during 2020 are generally within the range of naturally occurring bromide concentrations in Maine, particularly in locations such as the JRL site that were in the area of post-glacial sea submergence.[16] The chloride to bromide ratios summarized in Table 7-1 ranged from 14 to 1 at LF-UD-5and6 in April and July 2020 to 253 to 1 at MW-223B in April and October 2020, with a median ratio of approximately 69 to 1. The range of the chloride to bromide ratio results in 2020 is generally similar to those calculated for previous years.

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[15] Panno, S.V., Hackley, K.C., Hwang, H.H., Greenberg, S.E., Krapac, I.G., Landsbergger, S., and O'Kelly, D.J., 2006, Characterization and identification of Na-Cl sources in ground water. Ground Water. 2006 Mar-Apr; 44(2):129.

[16] Snow, M.S., Kahl, J.S., Norton, S.A., Olson, C., 1990. Geochemical determination of salinity sources in ground water wells in Maine. Proc., Focus Conference on Eastern Regional Ground Water Issues, Ground Water, Management No. 3, 1990, pp. 313-327.

Based on a study on 32 locations across 24 states in the United States, potable groundwater that has less than 10 mg/L chloride (which is a similar concentration range to most JRL sampling locations) had chloride to bromide ratios ranging from 43 to 1 to 285 to 1 with a median value of 101 to 1.[17] These values are consistent with JRL leachate and for site monitoring locations where bromide was detected at low concentrations (see Table 7-1).

Unless site chloride concentrations become greater, the presence of bromide at low concentrations at some monitoring locations is currently of limited value for the chloride to bromide ratio analysis. However, this analysis is a helpful tool for future monitoring in the event that a monitoring location exhibits increasing concentrations for bromide and/or chloride and it should continue to be included in the monitoring program.

TABLE 7-1

SUMMARY OF CHLORIDE TO BROMIDE RATIOS FOR 2020 BROMIDE DETECTIONS ABOVE LABORATORY REPORTING LIMITS

Location Designation	Date	Chloride Concentration (mg/L)	Bromide Concentration (mg/L)	Chloride to Bromide Ratio
LT-C4LR	April 2020	8,300	52	160:1
	July 2020	13,000	120	108:1
	October 2020	7,400	77	96:1
LF-UD-2	April 2020	10	0.11	91:1
	July 2020	6.9	0.10	69:1
LF-UD-5and6	April 2020	2.3	0.17	14:1
	July 2020	2.5	0.18	14:1
LP-UD-2	July 2020	4.2	0.13	32:1
	October 2020	8.4	0.12	70:1
MW04-109R	April 2020	4.2	0.16	26:1
	July 2020	3.6	0.23	16:1
	October 2020	2.8	0.14	20:1
MW09-901	April 2020	6.0	0.32	19:1
	July 2020	4.4	0.29	15:1
	October 2020	3.3	0.15	22:1
MW-223A	April 2020	32	0.15	213:1
	July 2020	31	0.23	135:1
	October 2020	31	0.13	238:1
MW-223B	April 2020	38	0.15	253:1
	July 2020	38	0.22	173:1
	October 2020	38	0.15	253:1
MW-227	July 2020	1.5	0.10	15:1
MW-301	July 2020	25	0.11	227:1
MW-401B	April 2020	9.4	0.15	63:1
	July 2020	8.4	0.21	40:1
	October 2020	7.2	0.19	38:1
MW-501	July 2020	24	0.10	240:1
OW-601A	July 2020	20	0.13	154:1

[17] Davis, S.N., Fabryka-Martin, J.T., Wolfsberg, L.E., 2004. Variations of bromide in potable groundwater in the United States. Groundwater 42 (6), 902-909.

Location Designation	Date	Chloride Concentration (mg/L)	Bromide Concentration (mg/L)	Chloride to Bromide Ratio
OW-601B	July 2020	44	0.24	183:1
OW-604A	July 2020	4.7	0.10	47:1
SW-1	July 2020	12	0.13	92:1
SW-3	October 2020	18	0.11	164:1
SW-DP1	April 2020	79	1.1	72:1
	July 2020	12	0.22	55:1
Note: U = not detected above indicated laboratory reporting limit				

7.2 Underdrains

The JRL underdrain monitoring locations for the landfill and former leachate pond are listed in Table 7-2. There was no flow at LF-UD-1, LF-UD-3A,B, LF-UD-4, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, and LP-UD-1 during any of the three 2020 monitoring events; thus, no samples were obtained at these locations during 2020. The eight underdrain monitoring locations with no flow during any of the three 2020 monitoring events is more than the four locations with no flow during any of the three 2019 monitoring events, which is likely attributed to the lower precipitation total in 2020 compared to 2019 (i.e., 37.60 inches in 2020 compared to 52.00 inches in 2019). There were also no samples obtained from LF-UD-5and6 and LF-UD-6 in October 2020. These occurrences of no flow at these underdrain monitoring locations are consistent with previous observed patterns.

The 2020 annual maximum specific conductance values and chloride and arsenic concentrations for underdrain monitoring locations are summarized in Table 7-2. The Mann-Kendall analyses results for statistically significant trends (95% confidence level) for these parameters are also provided in Table 7-2. The complete results for Mann-Kendall analyses are provided in Appendix F.

TABLE 7-2

2020 ANNUAL MAXIMUM SPECIFIC CONDUCTANCE VALUES AND CHLORIDE AND ARSENIC CONCENTRATIONS AT UNDERDRAIN MONITORING LOCATIONS

Location Designation	Specific Conductance (25,800 µmhos/cm in JRL Leachate in July 2020)			Chloride (13,000 mg/L in JRL Leachate in July 2020)			Arsenic (0.33 mg/L in JRL Leachate in July 2020)		
	µmhos/cm	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)	
		3-Year	5-Year		3-Year	5-Year		3-Year	5-Year
LF-COMP	485	Decreasing	–	NS	I	I	NS	I	I
LF-UD-1	NS	I	I	NS	I	I	NS	I	I
LF-UD-2	439	Decreasing	Increasing	10	Decreasing	Decreasing	0.005	–	–
LF-UD-3A,B	NS	I	I	NS	I	I	NS	I	I
LF-UD-4	NS	I	I	NS	I	I	NS	I	I
LF-UD-5and6	326	Decreasing	–	2.5	–	–	0.005 U	–	–
LF-UD-6	579	–	Decreasing	2 U	–	–	0.005 U	–	Decreasing

Location Designation	Specific Conductance (25,800 µmhos/cm in JRL Leachate in July 2020)			Chloride (13,000 mg/L in JRL Leachate in July 2020)			Arsenic (0.33 mg/L in JRL Leachate in July 2020)		
	µmhos/cm	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)	
		3-Year	5-Year		3-Year	5-Year		3-Year	5-Year
LF-UD-7	NS	I	I	NS	I	I	NS	I	I
LF-UD-8	NS	I	I	NS	I	I	NS	I	I
LF-UD-9	NS	I	I	NS	I	I	NS	I	I
LF-UD-10	NS	I	I	NS	I	I	NS	I	I
LP-COMP	303	Decreasing	–	NS	I	I	NS	I	I
LP-UD-1	NS	I	I	NS	I	I	NS	I	I
LP-UD-2	310	Decreasing	–	8.4	–	Decreasing	0.005 U	–	Decreasing

Notes:
U = not detected above indicated laboratory reporting limit
NS = not sampled in 2020
– = no trend
I = insufficient data

Specific conductance values from the sampled underdrain monitoring locations were low relative to the JRL leachate (specific conductance values ranged from 17,490 µmhos/cm in April 2020 to 25,800 µmhos/cm in July 2020 at LT-C4LR). The greatest specific conductance value measured during 2020 was at LF-UD-6 (579 µmhos/cm in April 2020); however, this value is lower than the historical maximum value at this location (919 µmhos/cm in August 2013) and there is currently a statistically significant decreasing trend (95% confidence level) for specific conductance at this location for the past five years. Specific conductance was measured at an annual low value of 225 µmhos/cm at LF-UD-6 in February 2020. There were no specific conductance values above 500 µmhos/cm at the remaining underdrain monitoring locations in 2020. Specific conductance values for all underdrain locations monitored in 2020 were below their respective historical maximum values.

During 2020, chloride concentrations from the sampled underdrain monitoring locations were low relative to the JRL leachate (chloride was detected in leachate at a concentration of 13,000 mg/L at LT-C4LR in July 2020) and do not indicate influence from the presence of landfill leachate.

The arsenic concentrations in the underdrain monitoring locations sampled during 2020 were low and generally consistent with those at groundwater monitoring wells across the site, including multiple upgradient monitoring locations.

For underdrain monitoring locations with sufficient data for analysis, the Mann-Kendall trend analyses for specific conductance, chloride, and arsenic indicate generally improving or stable water quality conditions. Six of the landfill underdrain monitoring locations (LF-COMP, LF-UD-2, LF-UD-5and6, LF-UD-6, LP-COMP, and LP-UD-2) have statistically significant decreasing trends (95% confidence level) for specific conductance for either the past three or five years. The remaining underdrain monitoring locations have insufficient data for statistically significant trend analyses (95% confidence level) over the past three and five years. The only noted statistically significant increasing trend (95% confidence level) for specific conductance, chloride, or arsenic at underdrain monitoring locations is for specific conductance at LF-UD-2 over the past five years; however, there is also a statistically significant decreasing trend (95% confidence level) for specific conductance over the past three years at LF-UD-2 and 2020 specific conductance measurements at LF-UD-2 are within historical range.

Sample pipe submergence conditions did not occur for the LF-COMP and LP-COMP sampling locations during the three 2020 monitoring events for field parameters and the detection monitoring analytical parameters, so those locations did not require sampling. LF-COMP and LP-COMP samples were obtained and analyzed by JRL for field parameters during each month of 2020.

There were insufficient data for three-year and/or five-year trend analyses at multiple underdrain monitoring locations due to those locations being always or intermittently dry during sampling events. Those instances are identified in Appendix F. At locations with sufficient data, Mann-Kendall trend analyses were run to determine the presence of three-year and five-year statistically significant increasing and/or decreasing trends (95% confidence level) for parameters analyzed at the landfill and former leachate pond underdrain locations. There were no underdrain monitoring locations with statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) over the past three years. There were two underdrain monitoring locations with statistically significant increasing trends (95% confidence level) for multiple parameters (i.e., four or more) over the past five years. There was one underdrain monitoring location with statistically significant decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) over the past five years. Underdrain sampling locations with statistically significant trends (95% confidence level) for multiple parameters (i.e., four or more) over the past five years are:

- LF-UD-2 – Four parameters (specific conductance, Eh, sodium, and bicarbonate) have statistically significant increasing trends (95% confidence level) over the past five years. Visual review of the historical specific conductance and Eh data indicate that the values measured for these parameters over the past several years are generally consistent with their previous historical values and 2020 specific conductance values (ranging from 302 µmhos/cm in March 2020 to 439 µmhos/cm in April 2020) remain comparable to or modestly greater than at monitoring locations upgradient from the JRL. Visual review of sodium and bicarbonate concentrations at LF-UD-2 do show increasing values over the past decade or more. All historical sodium concentrations at LF-UD-2 remain below the MEG of 20 mg/L.
- LF-UD-5and6 – Four parameters (Eh, bromide, turbidity, and nitrate plus nitrite) have statistically significant increasing trends (95% confidence level) over the past five years.

- LF-UD-6 – Seven parameters (specific conductance, pH, arsenic, calcium, magnesium, sodium, and bicarbonate) have statistically significant decreasing trends (95% confidence level) over the past five years.

VOCs were analyzed at all sampled underdrain locations (both landfill and former leachate pond underdrains) in April 2020. There were no VOCs detected in 2020 above laboratory reporting limits at any of the sampled underdrain locations.

7.3 Groundwater Quality

During 2020, routine water quality samples were obtained from 28 detection monitoring well locations at the JRL during April, July, and October 2020.[18] With few exceptions, historical water quality data from groundwater monitoring locations at the JRL are consistent with their setting, the groundwater flow conditions at the monitoring locations, and normal construction and operational activities of the landfill. Site groundwater data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. The 2020 water quality data remain consistent with these interpretations.

Comparison of Key Indicator Parameters to JRL Leachate and Summary of Statistically Significant Trend (95% Confidence Level) Results

A summary of site-wide groundwater quality in 2020 at the JRL is provided in Table 7-3. The table contains a comparison of 2020 values of key indicator parameters (i.e., specific conductance, chloride, and arsenic) from leachate monitoring location LT-C4LR to the site's 28 groundwater monitoring locations and current statistically significant trends (95% confidence level) of the key indicator parameters. The table also includes a summary of locations identified with statistically significant trends (95% confidence level) for multiple (i.e., four or more) parameters. The complete results of the Mann-Kendall trend analyses are provided in Appendix F. The groundwater monitoring locations shown in Table 7-3 are listed in order of 2020 annual maximum specific conductance values from high to low.

[18] MW-204, DP-4, and MW04-105 were sampled only during the fall sampling event for field parameters only. Six of the site groundwater monitoring wells (OW-06-03, OW-601A, OW-601B, OW-602A, OW-603B, and OW-604A) are sampled for detection monitoring parameters only during the summer monitoring event and are monitored for field parameters only during the spring and fall monitoring events.

TABLE 7-3

2020 ANNUAL MAXIMUM SPECIFIC CONDUCTANCE VALUES AND CHLORIDE AND ARSENIC CONCENTRATIONS AT GROUNDWATER MONITORING LOCATIONS

Location Designation	Position Relative to Landfill	Material Screened	Specific Conductance (25,800 µmhos/cm in JRL Leachate in July 2020)			Chloride (13,000 mg/L in JRL Leachate in July 2020)			Arsenic (0.33 mg/L in JRL Leachate in July 2020)			Multiple Parameters with Decreasing Trends [1]		Multiple Parameters with Increasing Trends [1]	
			µmhos/cm	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)					
				3-Year	5-Year		3-Year	5-Year		3-Year	5-Year	3-Year	5-Year	3-Year	5-Year
OW-06-03 [2]	**Downgradient Expansion (Cell 11)**	**Overburden**	**778**	**Increasing**	**I**	**NS**	**I [3]**	**I**	**NS**	**I [3]**	**I**	**No [3]**	**I**	**No [3]**	**I**
MW-223A	**Downgradient**	**Bedrock**	**583**	**–**	**Increasing**	**32**	**–**	**Decreasing**	**0.005 U**	**–**	**Decreasing**	**No**	**Yes (4)**	**No**	**Yes (9)**
MW12-303R	**Upgradient**	**Overburden**	**577**	**–**	**–**	**77**	**–**	**–**	**0.005 U**	**–**	**–**	**No**	**No**	**No**	**No**
MW-302R	**Side-gradient**	**Bedrock**	**562**	**–**	**–**	**47**	**–**	**–**	**0.005 U**	**–**	**–**	**No**	**No**	**No**	**No**
MW-223B	**Downgradient**	**Overburden**	**505**	**–**	**Increasing**	**38**	**–**	**–**	**0.005 U**	**–**	**–**	**No**	**No**	**Yes (4)**	**Yes (10)**
P-04-02R	Downgradient (in proximity of former leachate pond)	Overburden	419	Decreasing	Decreasing	2.8	–	Decreasing	0.008	–	–	Yes (8)	Yes (8)	No	No
OW-601A	**Downgradient Expansion (Cell 11)**	**Bedrock**	**415**	**–**	**I**	**20**	**–**	**I**	**0.005 U**	**–**	**I**	**No**	**I**	**Yes (4)**	**I**
MW04-109R	Downgradient (in proximity of former leachate pond)	Overburden	408	Decreasing	–	4.2	Decreasing	Decreasing	0.005 U	–	Decreasing	Yes (5)	Yes (4)	No	No
OW-601B	**Downgradient Expansion (Cell 11)**	**Overburden**	**403**	**–**	**I**	**44**	**–**	**I**	**0.005 U**	**–**	**I**	**No**	**I**	**No**	**I**
MW09-901	Downgradient	Overburden	348	Decreasing	–	6.0	Decreasing	–	0.005 U	–	Decreasing	Yes (6)	Yes (5)	No	No
MW-501	**Downgradient Expansion (Cell 11)**	**Bedrock**	**310**	**–**	**I**	**24**	**–**	**I**	**0.005 U**	**–**	**I**	**No**	**I**	**No**	**I**
MW-401B	Downgradient	Overburden	296	–	–	9.4	–	–	0.028	–	–	No	No	No	No
MW04-105	Downgradient (in proximity of former leachate pond)	Overburden	276	I	–	NS	I	I [3]	NS	I	I [3]	Not Assessed			
MW-204	Downgradient	Overburden	265	I	–	NS	I	I [3]	NS	I	I [3]	Not Assessed			
DP-4	Downgradient (in proximity of former leachate pond)	Overburden	249	I	–	NS	I	I [3]	NS	I	I [3]	Not Assessed			
MW-301	**Downgradient**	**Bedrock**	**248**	**–**	**Increasing**	**25**	**–**	**Increasing**	**0.006**	**–**	**Decreasing**	**No**	**Yes (4)**	**No**	**Yes (5)**
P-206A	**Upgradient**	**Bedrock**	**244**	**–**	**Increasing**	**22**	**–**	**Increasing**	**0.006**	**Decreasing**	**Decreasing**	**No**	**No**	**No**	**Yes (8)**
MW04-102	Downgradient (in proximity of former leachate pond)	Overburden	235	–	Decreasing	1.6	–	Decreasing	0.005 U	–	Decreasing	No	No	No	No
P-04-04	Downgradient (in proximity of former leachate pond)	Overburden	197	–	–	7.5	Increasing	Increasing	0.008	–	Decreasing	No	No	No	Yes (4)
MW-227	Downgradient	Overburden	184	Decreasing	Decreasing	1.5	–	Decreasing	0.016	–	–	No	No	No	No
OW-602A	Downgradient Expansion (Cell 11)	Bedrock	171	–	I	11	–	I	0.005 U	–	I	No	I	No	I
OW-604A	Downgradient Expansion (Cell 11)	Bedrock	160	Increasing	I	4.7	–	I	0.005 U	–	I	No	I	No	I
MW-402B	Downgradient	Overburden	157	–	–	1.5	–	Decreasing	0.018	–	Decreasing	No	No	No	No
MW-206	Upgradient	Overburden	148	–	–	2.8	–	Increasing	0.006	Decreasing	Decreasing	No	No	No	No
MW-401A	Downgradient	Bedrock	147	–	–	5.3	Increasing	Increasing	0.007	–	–	No	No	No	No
MW-402A	Downgradient	Bedrock	134	–	–	1.8	–	–	0.020	–	–	No	No	No	No
OW-603B	Downgradient Expansion (Cell 11)	Overburden	130	Decreasing	I	NS	I [3]	I	NS	I [3]	I	No [3]	I	No [3]	I
MW06-01	Downgradient Expansion (Cell 11)	Overburden	98	–	I	7.8	–	I	0.005 U	–	I	No	I	No	I

Notes:

1. Number of parameters with trends shown in parenthesis for analyses with four or more trends (95% confidence level). Locations monitored for field parameters only (i.e., DP-4, MW04-105, MW-204) are not assessed for multiple (i.e., four or more) parameters.
2. Locations shown with non-bold text have water quality that: (1) does not indicate influence from landfill leachate; and (2) shows limited influence from landfill construction operations. Locations shown with bold text currently have more pronounced water quality changes that are largely attributable to changes in redox conditions related to construction of the landfill and/or landfill operations, and do not indicate significant landfill related impacts to water quality from malfunction of landfill liners.
3. Insufficient data for detection monitoring parameters (i.e., trends available for field parameters only).

U = not detected above indicated laboratory reporting limit
NS = not sampled in 2020
– = no trend
I = insufficient data

Arsenic concentrations at nine of the twenty-three groundwater quality monitoring locations with sufficient data for Mann-Kendall trend analyses indicate that there are statistically significant decreasing trends (95% confidence level) for arsenic over the past three and/or five years. Arsenic concentrations site-wide are generally low with values less than the MCL and MEG of 0.01 mg/L at 19 of the 23 monitoring locations where arsenic was sampled in 2020. At the four groundwater monitoring locations where arsenic did exceed the MCL and MEG, MW-227, MW-401B, MW-402A, and MW-402B, arsenic concentrations were only detected as high as 0.028 mg/L (at MW-401B in July 2020). The noted exceedances did not occur in conjunction with elevated or increasing chloride concentrations (see Table 7-3).

Based on review of Table 7-3 and a visual review of plotted 2020 and historical data, SME has identified 18 of the 28 site-wide groundwater monitoring locations with water quality that: (1) does not indicate influence from landfill leachate; and (2) currently shows limited influence from landfill construction operations. These 18 groundwater monitoring locations are identified on Table 7-3 as the locations with non-bold text. The 2020 annual maximum specific conductance values at these wells range from 98 µmhos/cm to 419 µmhos/cm. The 2020 annual maximum chloride concentrations at these monitoring locations were very low and ranged from 1.5 mg/L to 11 mg/L. These wells also exhibit limited to no statistically significant increasing trends (95% confidence level). For these reasons, extended discussion on these wells is not warranted at this time.

More pronounced water quality changes have been observed at multiple groundwater monitoring locations, both upgradient and downgradient from the landfill. These changes are evidenced at some monitoring locations by the statistically significant trends (95% confidence level), as summarized in Table 7-3, for multiple parameters and monitoring locations. These trends are largely attributable to landfill operations and changes in redox conditions, which occur as expected around the landfill due to the construction of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate any significant landfill related impacts to water quality from malfunction of the landfill liners.

SME has identified 10 of the site monitoring locations that currently warrant additional discussions. These monitoring locations, shown by bold text in Table 7-3, comprise: (1) upgradient monitoring locations MW12-303R and P-206A; (2) side-gradient monitoring location MW-302R; (3) downgradient monitoring locations MW-223A, MW223B, and MW-301; and (4) OW-06-03, OW-601A, OW-601B, and MW-501, which are downgradient from Cell 11 of the landfill expansion. Groundwater quality at these monitoring locations is discussed below.

Extended Discussion on JRL Groundwater Quality

Upgradient Monitoring Locations MW12-303R and P-206A: Groundwater monitoring locations MW12-303R and P-206A are categorized as upgradient from the JRL; however, as the east side of the JRL (i.e., the upslope edge) is situated along the crest of a northwest-southeast trending drumlin, these upgradient monitoring locations are not fully hydraulically isolated from the landfill and operations outside of the area of landfill construction (see interpreted phreatic surface and groundwater potentiometric surface maps in Appendix B).

P-206A is a bedrock piezometer located southeast from the landfill and outside of the area of landfill construction. P-206A was added to the monitoring program during the July 2013 sampling event to provide an additional upgradient bedrock monitoring location. Review of the water quality data at P-206A shows that there were increases for several parameters over the past several years at P-206A; however, the groundwater quality at P-206A is still characterized by low parameter concentrations. The 2020 annual maximum values for parameters identified with current or recent increasing trends are shown below:

- Specific conductance (244 µmhos/cm in April 2020);
- Calcium (24 mg/L in April 2020);
- Magnesium (6.5 mg/L in April and July 2020);
- Potassium (1.3 mg/L in July 2020);
- Total dissolved solids (135 mg/L in April 2020);
- Sulfate (3.4 mg/L in July 2020);
- Bicarbonate (83 mg/L in July 2020); and
- Chloride (22 mg/L in July 2020).

There were no MCL and/or MEG exceedances for parameters analyzed at P-206A during 2020. The Mann-Kendall analyses indicate that there are not statistically significant decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) at P-206A for the past three-year and five-year periods or increasing trends for multiple parameters (i.e., four or more) the past three years. The Mann-Kendall analyses indicate that there are statistically significant increasing trends (95% confidence level) for eight parameters at P-206A for the past five years (specific conductance, calcium, magnesium, potassium, total dissolved solids, sulfate, bicarbonate, and chloride). The recent trends appear to be stabilizing over the past two to three years for specific conductance, calcium, total dissolved solids, and chloride.

The noted increasing parameter values at P-206A appear to have subsided in 2020 compared to 2018. Where there were eight parameters at P-206A with new historical maximum values (specific conductance, pH, calcium, magnesium, sodium, total dissolved solids, bicarbonate, and chloride) in 2018, only magnesium and bicarbonate had new historical maximum values detected in 2020.

Since groundwater quality at P-206A is still characterized by low parameter concentrations and the increasing water quality trends appear to be subsiding, the current water quality at P-206A is not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. Monitoring location P-206A is located proximate to the looped road that accesses the JRL leachate storage tank. SME recommends that on-site snow removal and winter roadway maintenance practices minimize stockpiling of snow around this well.

MW12-303R is located in an area that historically has been influenced by roadway maintenance and runoff and from site construction activities. Water quality at MW12-303R was generally consistent with that at upgradient well MW-206 from when it was first sampled in 2012 until between 2015 and 2016. Since that time, multiple water quality parameters at MW12-303R have increased. Previous investigations at the site are discussed in previous annual water quality reports to assess three ancillary landfill structures related to landfill leachate and gas condensate in the vicinity of the well as potential sources responsible for the change in water quality at MW12-303R.[19] This program identified that the water quality at MW12-303R was not associated with these three structures.

After review of the April 2018 water quality sampling results at MW12-303R, when there were eight water quality parameters detected at new historical maximum values, SME further investigated the water quality changes at MW12-303R. Visual observations of the area surrounding the well indicated the well was located in a topographic depression and that it is located near the beginning of the access road to Cell 10, which began receiving waste in October 2017. It is likely that stormwater runoff from the vicinity of the access road had contributed to the water quality changes at MW12-303R. It was also determined that plowed snow was piled in the area surrounding MW12-303R during the winter of 2018 and during previous years.

The water quality signature at MW12-303R and the timing of the April 2018 monitoring event is consistent with what would be anticipated from impacts associated with surface water. Increases in dissolved oxygen and sulfate concentrations (see Appendix E) in this well suggest that MW12-303R was being influenced by an oxygenated source such as stormwater from precipitation and/or spring snow melting. In early summer of 2018, the access roadway and the area surrounding MW12-303R were regraded to divert stormwater runoff away from the well and the well was purged.

In general, the recent water quality parameter value increases observed at MW12-303R appear to be stabilizing or improving. Where there were seven parameters identified with statistically significant increasing trends (95% confidence level) for data from 2013 through 2017, which included specific conductance and chloride among other parameters, there are no parameters for the past three years and five years with statistically significant increasing trends (95% confidence level). There are not statistically

[19] SME, August 2015, Juniper Ridge Landfill, June 2015 Supplemental Water Quality Data and July 2015 Water Quality Data Results.

significant decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) over the past three years or five years at MW12-303R.

There were two parameters (nitrate plus nitrite and organic carbon) at MW12-303R with new historical maximum values detected in October 2020. Each of these parameters had substantially lower values in April and July 2020. The organic carbon concentration in October 2020 at MW12-303R (34 mg/L) is likely elevated due to an identified laboratory instrumentation malfunction, as indicated by the laboratory analytical report. The organic carbon concentrations at MW12-303R in April and July 2020 were 4.4 mg/L and less than the laboratory reporting limit of 2.0 mg/L, respectively. The nitrate plus nitrite concentrations at MW12-303R in April and July 2020 were 0.58 mg/L and 0.17 mg/L, respectively.

Specific conductance, chloride, and arsenic values have declined substantially since they were recently reported at historical maximum values, which are shown in Table 7-4.

TABLE 7-4

SUMMARY OF 2020 KEY INDICATOR PARAMETER VALUES AT MW12-303R

Parameter	October 2012 Value	Historical Maximum Value	2020 Range of Values
Specific Conductance (µmhos/cm)	189	1,711 (April 2018)	280 (July 2020) to 577 (October 2020)
Chloride (mg/L)	4.9	220 (April 2018)	29 (July 2020) to 77 (October 2020)
Arsenic (mg/L)	0.005 U	0.036 mg/L (July 2016)	0.005 U (April, July, October 2020)

Notes:
U = not detected above indicated laboratory reporting limit

Sodium exceeded its MEG of 20 mg/L at MW12-303R only in October 2020 with a concentration of 24 mg/L. The nitrate plus nitrite concentration in October 2020 at MW12-303R (12 mg/L) indicates exceedance of the 10 mg/L MCL and MEG for nitrate and/or 1 mg/L MCL and MEG for nitrite. There were no other parameters analyzed at MW12-303R with MCL and/or MEG exceedances in 2020.

The recent water quality trends at MW12-303R and P-206A are not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. This is supported by the current values and trends of key indicator parameters at the landfill underdrain monitoring locations (see Section 7.2).

Down- and Side-gradient Monitoring Locations MW-223A, MW-223B, MW-302R: Groundwater monitoring wells MW-223A and MW223B monitor the bedrock and overburden groundwater, respectively, hydraulically downgradient and northwest of the JRL. Bedrock groundwater monitoring location MW-302R is located northwest from the JRL and categorized as being side-gradient from the landfill; however, as the JRL is situated along the crest of a northwest-southeast trending drumlin, this side-gradient monitoring location is not fully hydraulically isolated from the landfill and surrounding operations (see interpreted phreatic surface and groundwater potentiometric surface maps in Appendix B). Monitoring well MW-302R is located directly adjacent to one of the site's stormwater detention ponds.

In previous years' site water quality evaluations, SME has specifically addressed monitoring wells MW-302R, MW-223A, and MW-223B, located along the northwest perimeter of the landfill, and potential site activities responsible for the water quality in these wells.[20,21] Additional insight into the water quality changes at these wells was discussed in the 2016 through 2019 site water quality evaluations, with the sampling of the Scale House Well and Office Well during those years.[22,23,24,25] The evaluation determined that similarities exist among the Scale House Well, the Office Well, MW-302R, MW-223A, and MW-223B, and showed that they are distinct from the chemical signature of the leachate from LT-C4LR. The similarities in water quality in these wells are consistent with the known hydrogeology in this area of the site. Bedrock pumping tests completed between March 17, 2009 and March 19, 2009 at pumping well PW-08-02,[26] located proximate to the Scale House Well, showed preferential drawdown patterns in the surrounding wells that demonstrated a preferential groundwater flow direction exists from northeast to southwest from the vicinity of the Scale House (i.e., in the direction from the Scale House Well toward MW-302R, MW-223A, and MW-223B). This suggests that water quality in MW-302R, MW-223A, and MW-223B may in part be associated with upgradient water quality in the vicinity of the Office Well and Scale House Well in addition to the sources previously identified. A former topsoil and stump stockpile area and a subsurface wastewater disposal field are also located along this preferential groundwater flow direction. The Office Well and Scale House Well were not sampled again during 2020. As part of the landfill expansion construction, the Office Well was decommissioned in 2020. The Scale House Well will be decommissioned in 2021 with a vibrating wire piezometer installed in it.

Table 7-5 summarizes the 2020 annual maximum water quality parameter results for nine parameters at MW-302R, MW-223A, and MW-223B that are elevated with respect to upgradient groundwater quality.

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[20] SME, April 2015. 2014 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.

[21] SME, April 2016, 2015 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.

[22] SME, March 2017. 2016 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.

[23] SME, April 2018. 2017 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations, LLC.

[24] SME, April 2019, 2018 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.

[25] SME, April 2020, 2019 Annual Water Quality Report, Juniper Ridge Landfill, prepared for NEWSME Landfill Operations LLC.

[26] SME, May 13, 2016, Letter to MEDEP regarding Juniper Ridge Landfill Expansion Application, MEDEP #S-020700WD-BI-N, follow-up to Department Staff's responses to the March 4, 2016 submittal on Staff's review comments as presented in the Department's April 5, 2016 letter (Attachment SME-D3, Figures U-14B- Bedrock Amended and Figure U-14B- Till Amended).

TABLE 7-5

SUMMARY OF 2020 ANNUAL MAXIMUM WATER QUALITY PARAMETER VALUES AT MW-302R, MW-223A, AND MW-223B

Parameter	MW-302R	MW-223A	MW-223B	Upgradient Comparison (MW-206)
Specific Conductance (µmhos/cm)	562	583	505	148
Arsenic (mg/L)	0.005 U	0.005 U	0.005 U	0.006
Calcium (mg/L)	54	100	67	18
Magnesium (mg/L)	4.6	11	17	5.2
Sodium (mg/L)	27	6.2	6.1	4.7
Total Dissolved Solids (mg/L)	254	376	326	101
Sulfate (mg/L)	29	22	16	2.6
Bicarbonate (mg/L)	120	250	190	74
Chloride (mg/L)	47	32	38	2.8

Notes:
U – not detected above the indicated laboratory reporting limit

Piper and Stiff diagrams were plotted using April 2020 data for MW-302R, MW-223A, MW-223B, upgradient monitoring well MW-206, and the leachate sampled at LT-C4LR. The Piper and Stiff diagrams for these locations, which are included in Appendix G, show similar chemical signatures among for MW-223A and MW-223B, and show that MW-223A, MW-223B, and MW-302R are distinct from the chemical signature of the leachate from LT-C4LR and upgradient water quality at MW-206.

The water quality at MW-302R is characterized by a relatively large seasonal variation in parameter values, including groundwater levels. The groundwater levels are influenced by stormwater levels in adjacent Detention Pond #5. There is typically a correlation between low groundwater level elevations, when MW-302R is less influenced by stormwater from Detention Pond #5, and higher values for multiple parameters (see box and whisker plots in Appendix E). During these periods, the higher parameter concentrations at MW-302R are more characteristic of the upgradient water quality at the Scale House Well and Office Well.

Aside from the seasonal fluctuation in water quality data at MW-302R, the water quality is generally stable. Organic carbon and pH were the only parameters analyzed at MW-302R with new historical maximum values in 2020. The organic carbon concentration in October 2020 at MW-302R (24 mg/L) is anomalously higher than the previous historical maximum value of 3.1 mg/L and is reported (i.e., flagged) to likely be elevated due to an identified laboratory instrumentation malfunction. The pH value is near neutral (7.1 standard units in July 2020) and was preceded by a new historical minimum value (5.7 standard units in April 2020). There are not statistically significant increasing or decreasing trends (95% confidence level) at MW-302R for multiple parameters (i.e., four or more) over the past three years or five years.

Visual review of water quality trends at MW-223A and MW-223B show distinct increases in parameter concentrations since about 2005 or later. There are statistically significant increasing trends (95% confidence level) at MW-223A for nine parameters (specific conductance, calcium, magnesium, potassium, sodium, sulfate, bicarbonate, bromide, and nitrate plus nitrate) over the past five years. There are statistically significant decreasing trends (95% confidence level) for four parameters (pH, dissolved oxygen, arsenic, and chloride) at MW-223A over the past five years. There are not statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) at MW-223A over the past three years.

There are statistically significant increasing trends (95% confidence level) at MW-223B for four parameters (iron, total dissolved solids, bicarbonate, and bromide) over the past three years, and for ten parameters (specific conductance, calcium, magnesium, potassium, sodium, total dissolved solids, sulfate, bicarbonate, bromide, and nitrate plus nitrate) over the past five years. There are not statistically significant decreasing trends (95% confidence level) for multiple parameters (i.e., four or more) at MW-223B over the past three years or five years

Previous increasing concentrations of chloride have generally been decreasing over the past two years at MW-223A and have generally been stable at MW-223B.

There were five groundwater quality parameters detected at new historical maximum values at MW-223A in 2020: calcium (100 mg/L in April and October 2020), total dissolved solids (376 mg/L in July 2020), bicarbonate (250 mg/L in October 2020), bromide (0.23 mg/L in July 2020), and organic carbon (44 mg/L in October 2020). The organic carbon concentration in October 2020 at MW-223A is anomalously higher than the previous historical maximum value of 3.4 mg/L and is reported (i.e., flagged) to likely be elevated due to an identified laboratory instrumentation malfunction. There were two groundwater quality parameters detected at new historical maximum values at MW-223B in 2020: bicarbonate (190 mg/L in October 2020) and organic carbon (47 mg/L in October 2020). The organic carbon concentration in October 2020 at MW-223B is anomalously higher than the previous historical maximum value of 8.0 mg/L and is reported (i.e., flagged) to likely be elevated due to an identified laboratory instrumentation malfunction.

There were no MCL or MEG exceedances of analyzed parameters at MW-223A and MW-223B in 2020. Sodium exceeded its MEG of 20 mg/L at MW-302R in July 2020 (22 mg/L) and October 2020 (27 mg/L). Sodium has previously exceeded its MEG at MW-302R. There were no other MCL or MEG exceedances of analyzed parameters at MW-302R in 2020.

The recent water quality and noted trends at MW-223A, MW-223B, and MW-302R are not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. This is supported by the current values and trends of key indicator parameters at the landfill underdrain monitoring locations (see Section 7.2).

Downgradient location MW-301: MW-301 is a deep bedrock monitoring well (screened between 162.7 and 182.7 feet below ground surface) located downgradient from the landfill in proximity of the former leachate pond. The groundwater quality at MW-301 is consistent with its setting as a monitoring location downgradient from the landfill. There are no current concerns with water quality results at this location related to the performance of landfill cells or leachate collection and transport systems.

There were no parameters analyzed at MW-301 that exceeded MCL or MEG standards in 2020. Although parameter concentrations at MW-301 remained relatively low during 2020, the Mann-Kendall analyses indicate that there are five parameters (specific conductance, calcium, magnesium, total dissolved solids, and chloride) at MW-301 with statistically significant increasing trends (95% confidence level) for the past five years. Review of the 2020 data for these parameters shows that their values are steadily increasing. The specific conductance values at MW-301 range from 228 µmhos/cm to 248 µmhos/cm during 2020, remaining generally consistent with those at upgradient monitoring location MW-206, which has a historical maximum value of 269 µmhos/cm (April 2018). Chloride concentrations at MW-301 have been increasing relatively sharply since about 2013. While the 2013 chloride concentrations at MW-301 were 2.3 mg/L (July 2013) and 3.1 mg/L (October 2013), the annual maximum chloride concentration was 25 mg/L in July 2020.

There were four parameters at MW-301 (pH, arsenic, total Kjeldahl nitrogen, and total suspended solids) with statistically significant decreasing trends (95% confidence level) over the past five years. There were not multiple parameters (i.e., four or more) with statistically significant increasing or decreasing trends (95% confidence level) at MW-301 for the past three years.

Review of water quality data at MW-301 suggests that there may be a correlation between the noted parameter value increases and a repair of the well in 2013. MW-301 was reported damaged in April 2013 and was not sampled. Following repairs to MW-301 (prior to the July 2013 monitoring event), there was a distinct increase in reported groundwater elevations at MW-301 in the order of approximately 4 feet. Since the repairs, multiple parameters began to increase at MW-301. The parameters with the most evident changes starting in 2013 are specific conductance, calcium, magnesium, sodium, and chloride.

OW-06-03, OW-601A, OW-601B, and MW-501, downgradient from Cell 11: Monitoring locations OW-06-03, OW-601A, OW-601B, and MW-501 are four of the eight new monitoring locations downgradient from Cell 11 of the landfill expansion. Groundwater quality monitoring began at these locations in 2018.

Chloride concentrations at monitoring locations OW-601A, OW-601B, and MW-501 are somewhat greater than at monitoring locations upgradient from the JRL. Detection monitoring parameters are sampled and analyzed only during the summer (i.e., July 2020) at OW-06-03, OW-601A, and OW-601B. The July 2020 chloride concentrations at OW-601A and OW-601B were 20 mg/L and 44 mg/L, respectively. There was insufficient groundwater to sample OW-06-03 in July 2020. Monitoring location MW-501 was sampled in April, July, and October 2020 and the annual maximum chloride concentration was 24 mg/L (July 2020).

Monitoring locations OW-06-03, OW-601A, OW-601B, and MW-501 were sampled four times for baseline monitoring in 2018. Annual maximum chloride concentrations in 2018 at OW-601A (27 mg/L in August 2018) and OW-601B (61 mg/L in August 2018) were greater than chloride concentrations detected at these locations in 2020. The chloride concentrations detected at MW-501 during the baseline monitoring in 2018 were somewhat lower than the chloride concentrations detected in 2020. So far, there has only been sufficient groundwater for sampling detection monitoring parameters at OW-06-03 in April 2018. The chloride concentration at OW-06-03 was 1.6 mg/L in April 2018.

Specific conductance values at OW-601A, OW-601B, and MW-501 during 2020 and since 2018 have generally been consistent with other groundwater monitoring locations downgradient from the JRL. The annual maximum specific conductance values measured at OW-601A, OW-601B, and MW-501 during 2020 were 415 µmhos/cm, 403 µmhos/cm, and 310 µmhos/cm, respectively. Specific conductance values measured at OW-06-03 have increased since it was first sampled in April 2018 (193 µmhos/cm) to 2020 (641 µmhos/cm in April 2020 and 778 µmhos/cm in October 2020).

Arsenic was not detected above the laboratory reporting limit of 0.005 mg/L at OW-601A, OW-601B, and MW-501 during 2020.

2020 is the first year that there is sufficient groundwater quality data for performing three-year Mann-Kendall trend analyses at OW-06-03, OW-601A, OW-601B, and MW-501. At OW-06-03, there is only sufficient data for three-year Mann-Kendall analyses for field parameters. Specific conductance and turbidity have three-year statistically significant increasing trends (95% confidence level) at OW-06-03. For OW-601B and MW-501, there are not multiple parameters (i.e., four or more) with statistically significant increasing or decreasing trends (95% confidence level) over the past three years. There are four parameters (potassium, sodium, total dissolved solids, and sulfate) with statistically significant increasing trends (95% confidence level) at OW-601A over the past three years.

There were no MCL exceedances for parameters analyzed at OW-06-03, OW-601A, OW-601B, and MW-501 during 2020. The only MEG exceedance for parameters analyzed at OW-06-03, OW-601A, OW-601B, and MW-501 during 2020 was a sodium concentration of 25 mg/L at OW-601A in July 2020.

Monitoring locations OW-06-03, OW-601A, and OW-601B are located in close proximity to the landfill access road and may be influenced by winter road salting. Additionally, OW-06-03, OW-601A, OW-601B, and MW-501 are likely influenced by the recent construction of the Cell 11 liner system. Additional monitoring data from these locations over time will be useful for evaluating groundwater quality influences from the construction of Cell 11.

VOCs

VOCs were analyzed at MW-401B in April 2020. No VOCs were detected above the laboratory reporting limits at MW-401B in 2020.

MCL and MEG Exceedances

Parameters detected at concentrations that were above MCLs or MEGs at groundwater monitoring locations in 2020 are identified in Table 7-6.

TABLE 7-6

2020 MCL AND MEG EXCEEDANCES AT GROUNDWATER MONITORING LOCATIONS

Location Designation	Manganese (mg/L) (0.3 mg/L MEG)	Sodium (mg/L) (20 mg/L MEG)	Arsenic (mg/L) (0.01 mg/L MCL and MEG)
MW04-109R	0.37 (April 2020) 0.96 (July 2020) 1.3 (October 2020)	–	–
MW12-303R	–	24 (October 2020)	–
MW-227	–	–	0.016 (April 2020) 0.013 (July 2020) 0.012 (October 2020)
MW-302R	–	22 (July 2020) 27 (October 2020)	–
MW-401B	–	–	0.023 (April 2020) 0.028 (July 2020) 0.016 (October 2020)
MW-402A	–	–	0.020 (April 2020) 0.018 (July 2020) 0.015 (October 2020)
MW-402B	–	–	0.017 (April 2020) 0.018 (July 2020) 0.016 (October 2020)
OW-601A	–	25 (July 2020)	–
P-04-02R	–	49 (April 2020) 47 (July 2020) 43 (October 2020)	–

With the exception of the sodium MEG exceedance in 2020 at OW-601A, which has only been monitored since 2018, each of the MCL and/or MEG exceedances listed in Table 7-6 have occurred at their respective locations in the past. The occurrence of arsenic MCL and MEG exceedances in groundwater is largely attributable to reducing conditions associated with landfill operations and decreasing groundwater recharge from site development. They are not interpreted to be related to landfill liner system performance.

Dissolved Methane

Samples were obtained for dissolved methane analysis at monitoring well MW-223B during the April, July, and October 2020 monitoring rounds, as recommended by the MEDEP. Dissolved methane was not detected above the laboratory reporting limit of 20 µg/L at MW-223B in April, July, and October 2020.

7.4 Surface Water, Stormwater, and Pore-Water

Surface water at the site was monitored in 2020 at three locations on the southwest side of the landfill along an unnamed tributary to Pushaw Stream (SW-1, SW-2, and SW-3). Stormwater was monitored at three stormwater detention ponds (SW-DP1, SW-DP5, and SW-DP6) during 2020. Additionally, three pore-water sampling locations were monitored in 2020 at PWS10-1, PWS10-2, and PWS10-3, which are located along the landfill side of the bank of the unnamed tributary to Pushaw Stream.

The 2020 annual maximum specific conductance values and chloride and arsenic concentrations for the JRL surface water, stormwater, and pore-water monitoring locations are summarized in Table 7-7. The Mann-Kendall analyses results for statistically significant trends (95% confidence level) for these parameters are also provided in Table 7-7. The complete results for Mann-Kendall analyses are provided in Appendix F.

TABLE 7-7

2020 ANNUAL MAXIMUM SPECIFIC CONDUCTANCE VALUES AND CHLORIDE AND ARSENIC CONCENTRATIONS AT SURFACE WATER, STORMWATER, AND PORE-WATER MONITORING LOCATIONS

Location Designation	Specific Conductance (25,800 µmhos/cm in JRL Leachate in July 2020)			Chloride (13,000 mg/L in JRL Leachate in July 2020)			Arsenic (0.33 mg/L in JRL Leachate in July 2020)		
	µmhos/cm	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)		mg/L	Statistically Significant Trend (95% Confidence Level)	
		3-Year	5-Year		3-Year	5-Year		3-Year	5-Year
SW-1	241	–	–	17	Increasing	–	0.005 U	–	–
SW-2	77	–	–	12	–	–	0.005 U	–	–
SW-3	94	–	–	18	–	–	0.005 U	–	–
SW-DP1	439	Increasing	–	79	Increasing	–	0.005 U	–	–
SW-DP5	173	–	I	6.8	–	I	0.005 U	–	I
SW-DP6	91	–	–	4.3	–	Decreasing	0.005 U	–	–
PWS10-1	346	–	–	13	Increasing	–	0.005	–	–
PWS10-2	142	–	–	17	Increasing	Increasing	0.005	–	Decreasing
PWS10-3	197	–	–	7.8	–	–	0.007	–	–

Notes:
U = not detected above indicated laboratory reporting limit
– = no trend
I = insufficient data

The 2020 surface water, stormwater, and pore-water monitoring location data are generally characterized by low values of key indicator parameters by comparison to the JRL leachate (i.e., LT-C4LR). This is generally consistent with historical data at these locations. One exception to this was the anomalously high specific conductance value and chloride concentration at SW-DP1 during the April 2020 monitoring event, which is discussed further below. With the exception of SW-DP1 in April 2020, all specific conductance values and chloride and arsenic concentrations at the surface water, stormwater, and pore-water monitoring locations were within their respective historical ranges and the noted statistically significant increasing trends (95% confidence level) appear to be consistent with typical historical water quality changes over time (see box and whisker plots in Appendix E).

Further description of the JRL surface water, stormwater, and pore-water sampling locations and notable observations from their 2020 water quality data are provided below.

Surface Water Monitoring Locations: Along the unnamed tributary to Pushaw Stream, surface water quality at SW-1, SW-2, and SW-3 has been very consistent since sampling began at these locations in the early 1990s. Parameter concentrations during the 2020 sampling events at downstream locations SW-1 and SW-3 were generally similar to those measured at SW-2, which is located upstream from the landfill. Parameters analyzed at SW-1 and SW-3, located downstream from the landfill, remain at relatively low values that do not indicate influence from landfill leachate. The few parameter concentrations at SW-1, SW-2, and SW-3 that exceeded historical minimum and maximum concentration values for these monitoring locations in 2020 are identified on the individual water quality summary sheets contained in Appendix E.

The iron concentrations at SW-1, SW-2, and SW-3 exceeded the MFCCC standard of 1 mg/L during the July 2020 monitoring event at concentrations of 4.3 mg/L, 1.2 mg/L, and 1.4 mg/L, respectively. Iron also exceeded its MFCCC in October 2020 at SW-1 with a concentration of 2.3 mg/L. MFCCC exceedances for iron have occurred historically at these locations, and the 2020 iron concentrations at each of these locations were below their respective historical maximum concentrations. Iron concentrations were below the MFCCC standard at SW-1, SW-2, and SW-3 in April 2020 and SW-2 and SW-3 in October 2020. There were no other MFCCC exceedances at SW-1, SW-2, and SW-3 for parameters analyzed during 2020.

There were not multiple parameters (i.e., four or more) with statistically significant increasing or decreasing trends (95% confidence level) at SW-2 and SW-3 over the past three years and five years. There were four parameters (magnesium, potassium, sodium, and total dissolved solids) with statistically significant increasing trends (95% confidence level) at SW-1 over the past five years. Magnesium, potassium, sodium, and total dissolved solids concentrations at SW-1 during 2020 were within their respective historical ranges.

Stormwater Monitoring Locations: Samples from SW-DP1 are obtained from a stormwater detention pond at the downstream western edge of the JRL site. Samples from SW-DP5 are obtained from an outfall on the west side of Detention Pond #5. Samples from SW-DP6 are obtained from a stormwater detention pond sampling location at the southern end of the site.

The historical range of parameter concentrations at SW-DP1 have generally been low since sampling began at this location in 2004 and have not indicated influences from landfill leachate or landfill operations. The April 2020 monitoring data indicated a spike in many parameter values. The most pronounced increases in parameter values in April 2020 at SW-DP1 were for specific conductance, calcium, manganese, potassium, total dissolved solids, sodium, chloride, and bromide. Specific conductance, sodium, chloride, and bromide were all detected at new historical maximum values during April 2020. The values of these parameters decreased during the July and October 2020 monitoring events. Table 7-8 provides a summary of the April 2020 stormwater quality in comparison to the previous monitoring event and the July and October 2020 monitoring events.

TABLE 7-8

SUMMARY OF RECENT STORMWATER QUALITY CHANGES AT SW-DP1

Parameter	October 2019	April 2020	July 2020	October 2020
Specific Conductance (µmhos/cm)	106	439	206	148
Calcium (mg/L)	15	24	31	23
Manganese (mg/L)	0.14	0.11	0.69	0.32
Potassium (mg/L)	2.1	12	2.9	5.3
Total Dissolved Solids (mg/L)	84	251	164	114
Sodium (mg/L)	1.6	27	8.8	3.2
Chloride (mg/L)	2.2	79	12	6.3
Bromide (mg/L)	0.1 U	1.1	0.22	0.1 U

Notes:
U – not detected above the indicated laboratory reporting limit

An overboard discharge occurred in from the active landfill in the vicinity of SW-DP1 prior to sample collection in April 2020. The MEDEP was notified of the discharge and residual material was removed by NEWSME. The April 2020 parameter value increases at SW-DP1 can likely be attributed to the overboard discharge. The July and October 2020 monitoring results indicate that the affected parameters at SW-DP1 are returning to values consistent with those prior to April 2020.

Stormwater quality monitoring at SW-DP5 began in April 2013. The 2020 water quality from SW-DP5 included low parameter values that do not indicate influences from landfill leachate or landfill operations. There were new historical maximum values for pH, manganese, and organic carbon in 2020 at SW-DP5; however, there had only been twelve rounds of sampling data for comparison prior to 2020. Additionally, the organic carbon concentration in October 2020 at SW-DP5 is reported (i.e., flagged) to likely be elevated due to an identified laboratory instrumentation malfunction.

Stormwater quality monitoring at SW-DP6 began in October 2009. The stormwater quality at SW-DP6 during 2020 is characterized by continued low parameter concentrations that do not indicate influences from landfill leachate or landfill operations. All monitored parameters at SW-DP6 were within their respective historical ranges during 2020 with the exception of a new historical minimum value for total dissolved solids in April 2020.

The iron concentrations at SW-DP1 and SW-DP5 exceeded the MFCCC standard of 1 mg/L during the October 2020 monitoring event. The exceedances are summarized below:

- 1.5 mg/L iron in October 2020 at SW-DP1; and
- 1.2 mg/L iron in October 2020 at SW-DP5.

MFCCC exceedances for iron have occurred historically at these locations. There were no other MFCCC exceedances at SW-DP1, SW-DP5, and SW-DP6 for parameters analyzed during 2020.

There were not multiple parameters (i.e., four or more) with statistically significant increasing or decreasing trends (95% confidence level) at SW-DP5 and SW-DP6 over the past three years and five years. There were eleven parameters with statistically significant increasing trends (95% confidence level) at SW-DP1 over the past three years. These trends are attributed to the abovementioned April 2020 spike in multiple parameter values. The increase in parameter values was likely due to the overboard discharge that occurred from the active landfill and have since begun to decrease.

Pore-Water Monitoring Locations: Pore-water sample locations PWS10-1, PWS10-2, and PWS10-3, which are located along the landfill side of the bank of the unnamed tributary to Pushaw Stream, have been sampled since 2010. These sampling locations are intended to be representative of groundwater quality as it discharges to the stream. Due to their local hydrologic setting (i.e., shallow fluctuating water table with high natural organic matter associated with the wetland and stream), they are characterized by iron and total organic carbon concentrations that are typically greater than in groundwater from other areas of the site. Groundwater quality has been generally consistent at all three pore-water sampling locations since sampling began at these locations in 2010 and does not indicate influences from landfill leachate or landfill operations.

While visual review of the 2020 and historical pore-water quality data indicates generally stable water quality, there are multiple parameter concentrations at PWS10-1, PWS10-2, and PWS10-3 that were outside of the range of historical minimum and maximum concentration values for these monitoring locations in 2020. These occurrences are identified on the individual water quality summary sheets contained in Appendix E.

There were not multiple parameters (95% confidence level) at PWS10-1 and PWS10-3 with statistically significant decreasing or increasing trends (95% confidence level) over the past three years and five years. There were four parameters (potassium, sodium, sulfate, and chloride) with statistically significant increasing trends (95% confidence level) over the past five years at PWS10-2. There were not multiple parameters (95% confidence level) at PWS10-2 with statistically significant decreasing trends (95% confidence level) over the past three and five years or increasing trends over the past three years.

The pore-water samples were analyzed for dissolved methane during the April, July, and October 2020 monitoring events, as recommended by the MEDEP. The dissolved methane concentrations for pore-water samples in 2020 are summarized in Table 7-9.

TABLE 7-9

2020 DISSOLVED METHANE CONCENTRATIONS AT PORE-WATER MONITORING LOCATIONS

Location Designation	April 2020 (µg/L)	July 2020 (µg/L)	October 2020 (µg/L)
PWS10-1	270	45	20 U
PWS10-2	20 U	38	300
PWS10-3	20 U	4,000	44

Notes:
U – not detected above the indicated laboratory reporting limit

The 2020 dissolved methane concentrations are lower than the historical maximum concentrations detected at PWS10-1 and PWS10-2 in July 2015: 4,600 µg/L dissolved methane at PWS10-1 and 690 µg/L at PWS10-2. The July 2020 dissolved methane concentration at PWS10-3 was greater than the previous historical maximum concentration of 280 µg/L in July 2019. The historical methane detections at these locations are consistent with their hydrologic setting in a freshwater wetland and are attributed to anaerobic biological processes in the saturated wetland soils. Studies of freshwater wetlands in the southeastern portion of the United States show wetland pore-water samples with dissolved methane concentrations of more than 20,000 µg/L in the top 25 centimeters of saturated soils[27]. The lower dissolved methane concentrations at JRL wetlands are likely attributed to the cooler climate in the northeastern portion of the United States, which limits anaerobic biological activity. The greatest concentration of dissolved methane detected at pore-water monitoring locations in 2020 (4,000 µg/L at PWS10-3) occurred during the July monitoring event.

While the pore-water sampling locations are grouped with surface water and stormwater monitoring locations, the samples are obtained from soil and the sampling results from these locations are compared to MCL and MEG standards for groundwater. There were no MCL exceedances during 2020 at the

[27] Schipper LA, Reddy KR (1994) Methane production and emissions from four reclaimed and pristine wetlands of southeastern U.S. *Soil Science Society of America Journal* 58, 1270-1275.

pore-water monitoring locations for the parameters analyzed. The MEG exceedances for parameters analyzed during 2020 at the pore-water monitoring locations are summarized as follows:

- Manganese was above its MEG of 0.3 mg/L in 2020 at PWS10-1 (2.3 mg/L in April 2020, 2.6 mg/L in July 2020, 0.41 mg/L in October 2020);
- Manganese was above its MEG of 0.3 mg/L in 2020 at PWS10-2 (0.61 mg/L in July 2020);
- Manganese was above its MEG of 0.3 mg/L in 2020 at PWS10-3 (2.8 mg/L in July 2020, 1.0 mg/L in October 2020);
- Iron was above its MEG of 5.0 mg/L in 2020 at PWS10-1 (8.1 mg/L in April 2020, 13 mg/L in July 2020); and
- Iron was above its MEG of 5.0 mg/L in 2020 at PWS10-3 (13 mg/L in July 2020).

7.5 Baseline Water Quality Monitoring Wells for Cell 12

During 2020, SME performed baseline water quality monitoring at the Cell 12 monitoring wells. Groundwater samples were collected from groundwater monitoring wells MW-04-09A, MW-04-09B, and MW-502 in February, April, June, and August 2020. The locations of these wells are shown in Figure 1-2 and well construction details are summarized in Table 2-5. These locations were analyzed for the baseline monitoring parameters listed in Table 3-2. Boron, dissolved methane, total phosphorous, and BOD were inadvertently omitted from baseline sampling at the Cell 12 monitoring wells; analysis for these parameters will be included in the 2021 monitoring program for MW-04-09A, MW-04-09B, and MW-502.

The baseline water quality monitoring data results from the Cell 12 monitoring wells were submitted to MEDEP in 2020.[28,29] The results are briefly summarized below.

- The 2020 annual maximum specific conductance values and chloride concentrations at the baseline water quality monitoring wells for Cell 12 are shown in Table 7-10.

[28] SME, 2020. Letter from SME to MEDEP with subject: *Juniper Ridge Landfill, Cell 12 Baseline Monitoring Wells – Sampling Results and Request to Modify Sampling Program*, dated June 11, 2020.

[29] SME, 2020. Letter from SME to MEDEP with subject: *Juniper Ridge Landfill, Cell 12 Baseline Monitoring Wells – Sampling Results,* dated October 7, 2020.

TABLE 7-10

2020 ANNUAL MAXIMUM SPECIFIC CONDUCTANCE VALUES AND CHLORIDE CONCENTRATIONS AT BASELINE WATER QUALITY MONITORING WELLS FOR CELL 12

Monitoring Well	Specific Conductance (µmhos/cm)	Chloride (mg/L)	Implementation Schedule
MW-04-09A	389	5.7	Cell 12
MW-04-09B	127	3.4	Cell 12
MW-502	389	21	Cell 12

- The only MCL and/or MEG exceedances from the baseline water quality monitoring data results from the Cell 12 monitoring wells were manganese and sodium in MW-04-09A (manganese 0.32 mg/L in April; sodium 26 mg/L in April, 43 mg/L in June, and 53 mg/L in August).
- Groundwater samples from groundwater quality monitoring wells MW-04-09B and MW-502 were analyzed for VOCs during the February and April 2020 monitoring events. There were no VOCs detected above laboratory reporting limits during these monitoring events at MW-04-09B and MW-502.

  Groundwater samples from groundwater quality monitoring well MW-04-09A were analyzed for VOCs during the February, April, June, and August 2020 monitoring events. M,p-xylene was detected at a concentration of 1.1 µg/L in April 2020 at MW-04-09A; all other VOCs were non-detect at laboratory reporting limits. There were no VOCs detected above laboratory reporting limits at MW-04-09A during the February, June, and August 2020 monitoring events.

Monitoring wells MW-04-09A, MW-04-09B, and MW-502 will be incorporated into the EMP in 2021 to monitor the operations of Cell 12. The baseline and 2021 water quality data from these wells will be incorporated into the 2021 Annual Water Quality Report for the JRL.

7.6 Leak Detection System

The approved permitted landfill expansion liner system for Cell 11 through Cell 16 includes a leak detection layer under the primary liner system. The 2015 Liner Action Plan (LAP) describes the methods to monitor the performance of the primary liner system of Cell 11 through Cell 16 and outlines response actions should action levels be exceeded in the leak detection layer. The LAP uses a calculated Leak Detection System Action Level (LDSAL) to determine the need for additional actions. The LDSAL formula is based on the flow measured in the leak detection layer and the specific conductance measured in the leachate and leak detection layers. The LDSAL is compared to the leak detection specific conductance that is measured each month. If the LDSAL is equal to or greater than the leak detection specific conductance, no further action is needed. The Cell 11 leak detection system was monitored throughout 2020 in accordance with the LAP and there were no LDSAL exceedances.

8.0 WATER QUALITY GAS MONITORING

As part of the 2020 environmental monitoring program, methane gas was measured during the collection of water quality samples at the site monitoring well standpipes, underdrain outfalls, leachate collection system, leak detection system, and JRL site property boundaries using a hand-held gas meter. With one exception during 2020, all methane gas monitoring results were below the meter detection limit. Methane was detected at 13 percent methane by volume in the headspace of monitoring location OW-06-03 during the July 2020 monitor event but was below the meter detection limit during the April and October 2020 monitoring events.

Hydrogen sulfide (H_2S) was also monitored at the above-mentioned locations in 2020 and was not detected at any of the locations.

Historical and 2020 gas monitoring results for the site are included in Appendix H. With the exception of the methane gas detection at OW-06-03 during the July 2020 monitoring event, the 2020 gas monitoring results indicate no landfill-related gases are present at the monitored locations.

9.0 SUMMARY AND RECOMMENDATIONS

9.1 Summary

Water quality samples were obtained in April, July, and October 2020 at the JRL in accordance with the current site EMP. The 2020 water quality data for the JRL is consistent with the historical data for the site and with the setting of monitoring locations among the construction and operational activities of the landfill. Site groundwater and surface water quality data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. The evaluation of site water quality, which incorporates the 2020 water quality data, identifies trends at multiple locations and for a number of parameters, both upgradient and downgradient from the landfill. Historical groundwater quality data through 2020 indicate that these trends, however, are largely attributable to landfill operations and changes in redox conditions, which occur as expected around the landfill due to the construction of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate any significant landfill related impacts to water quality from malfunction of the landfill liners.[30]

Leachate parameter values from monitoring location LT-C4LR during 2020 and historically since July 2013 are generally characterized by high parameter values. Generally, at a given water quality monitoring location, if landfill leachate were present, there would be a notable, significant increase in specific conductance values and chloride and arsenic concentrations (in conjunction with changes in other parameter concentrations) due to their presence at high concentrations in the JRL leachate. In 2020, the annual maximum value of specific conductance in JRL leachate (i.e., monitoring location LT-C4LR) was 25,800 µmhos/cm in July 2020. The annual maximum concentrations of chloride and arsenic at monitoring location LT-C4LR were 13,000 mg/L (July 2020) and 0.33 mg/L (July 2020), respectively.

There was no flow at JRL underdrain monitoring locations LF-UD-1, LF-UD-3A,B, LF-UD-4, LF-UD-7, LF-UD-8, LF-UD-9, LF-UD-10, and LP-UD-1 during any of the three 2020 monitoring events; thus, no samples were obtained at these locations during 2020. The eight underdrain monitoring locations with no flow during any of the three 2020 monitoring events is more than the four locations with no flow during any of the three 2019 monitoring events, which is likely attributed to the lower precipitation total in 2020 compared to 2019 (i.e., 37.60 inches in 2020 compared to 52.00 inches in 2019). There were also no samples obtained from LF-UD-5and6 and LF-UD-6 in October 2020. These occurrences of no flow at these underdrain monitoring locations are consistent with previous observed patterns.

Where there was flow during 2020 from underdrain monitoring locations (LF-UD-2, LF-UD-5and6, LF-UD-6, and LP-UD-2), the underdrain monitoring data do not show adverse effects from the performance of the landfill cells or leachate collection and transport systems. The greatest specific

[30] The MEDEP agreed with this assessment in its review of the 2017 Annual Report. MEDEP, February 20, 2018, Memorandum regarding the 2017 Annual Report, Juniper Ridge Landfill, Old Town, Maine, MEDEP Lic. #S-020700-7A-A-N and Amendment #S-020700-WD-N-A, Prepared by Sevee and Maher Engineers, Inc., April 2015.

conductance value measured during 2020 was at LF-UD-6 (579 µmhos/cm in April 2020); however, this value is lower than the historical maximum value at this location (919 µmhos/cm in August 2013) and there is currently a statistically significant decreasing trend (95% confidence level) for specific conductance at this location for the past five years. Specific conductance was measured at an annual low value of 225 µmhos/cm at LF-UD-6 in February 2020. There were no specific conductance values above 500 µmhos/cm at the remaining underdrain monitoring locations monitored in 2020. Specific conductance values for all underdrain locations monitored in 2020 were below their respective historical maximum values.

During 2020, annual maximum chloride concentrations from the sampled underdrain monitoring locations (ranging from less than the laboratory reporting limit of 2.0 mg/L at LF-UD-6 to 10 mg/L at LF-UD-2) were low relative to the JRL leachate and do not indicate influence from the presence of landfill leachate.

The arsenic concentrations in the underdrain monitoring locations sampled during 2020 were low (ranging from less than the laboratory reporting limit of 0.005 mg/L at LF-UD-2, LF-UD-5and6, LF-UD-6, and LP-UD-2 to 0.005 mg/L at LF-UD-2) and generally consistent with those at groundwater monitoring wells across the site, including multiple upgradient monitoring locations.

VOCs were analyzed at all sampled underdrain locations (both landfill and former leachate pond underdrains) in April 2020. There were no VOCs detected in 2020 above laboratory reporting limits at any of the sampled underdrain locations.

Based on review of 2020 and historical data, SME has identified 18 of the 28 site-wide groundwater monitoring locations with water quality that: (1) does not indicate influence from landfill leachate; and (2) shows limited influence from landfill construction operations (see Table 7-3). The annual maximum specific conductance values at these wells range from 98 µmhos/cm to 419 µmhos/cm. The annual maximum chloride concentrations at these monitoring locations were very low and ranged from 1.5 mg/L to 11 mg/L. These wells also exhibit limited to no statistically significant increasing trends (95% confidence level).

More pronounced water quality changes have been observed at 10 of the site groundwater monitoring locations (see Table 7-3), which include wells both upgradient and downgradient from the landfill. These changes are evidenced as some monitoring locations by the statistically significant trends (95% confidence level) for multiple parameters and monitoring locations. These trends are largely attributable to changes in redox conditions, which occur as expected around the landfill due to the construction and operations of the landfill (e.g., from removal of vegetation, disturbance of native soils, and the cutoff of precipitation in the landfill area), and do not indicate landfill related impacts to water quality from malfunction of the landfill liners. These monitoring locations are discussed in detail in Section 7.3 and include: (1) upgradient monitoring locations MW12-303R and P-206A; (2) side-gradient monitoring location MW-302R; (3)

downgradient monitoring locations MW-223A, MW223B, and MW-301; and (4) OW-06-03, OW-601A, OW-602B, and MW-501 which are downgradient from Cell 11 of the landfill expansion. Current and recent water quality at these locations are discussed in detail in Section 7.3 and summarized below:

- <u>Upgradient Monitoring Locations MW12-303R and P-206A</u>: Despite recent increasing parameter values at upgradient monitoring location P-206A, its groundwater quality is still characterized by low parameter concentrations and the increasing water quality trends appear to be subsiding. Annual maximum values for specific conductance, chloride, and arsenic at P-206A during 2020 were 244 µmhos/cm, 22 mg/L, and 0.006 mg/L, respectively. There were no MCL and/or MEG exceedances for parameters analyzed at P-206A during 2020, and recent increasing trends appear to be stabilizing over the past two to three years for specific conductance, calcium, total dissolved solids, and chloride. The noted increasing parameter values at P-206A appear to have subsided in 2020 compared to 2018. In 2018 monitoring, there were eight parameters at P-206A with new historical maximum values (specific conductance, pH, calcium, magnesium, sodium, total dissolved solids, bicarbonate, and chloride), and in 2020 only magnesium and bicarbonate had new historical maximum values detected.

  Since groundwater quality at P-206A is still characterized by low parameter concentrations and the increasing water quality trends appear to be subsiding, the current water quality at P-206A is not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. Monitoring location P-206A is located proximate to the looped road that accesses the JRL leachate storage tank. SME recommends that on-site snow removal and winter roadway maintenance practices minimize stockpiling of snow around this well.

  Upgradient monitoring location MW12-303R is located in an area that historically has been influenced by roadway maintenance and runoff, and from site construction activities. Water quality at MW12-303R was generally consistent with that at upgradient well MW-206 from when it was first sampled in 2012 until between 2015 and 2016. Since that time, multiple water quality parameters at MW12-303R have increased. Previous investigations at the site identified that the water quality at MW12-303R is not associated with three nearby ancillary landfill structures related to landfill leachate and gas condensate. After review of the April 2018 water quality sampling results at MW12-303R, when there were eight water quality parameters detected at new historical maximum values, SME further investigated the water quality changes at MW12-303R. The water quality at MW12-303R and visual observations of the area surrounding the well indicated the well was likely being influence by stockpiled snow from plowing and stormwater runoff from the access road to Cell 10, which began receiving waste in October 2017. In early summer of 2018, the access roadway and the area surrounding MW12-303R were regraded to divert stormwater runoff away from the well and the well was purged.

  The recent water quality parameter value increases observed at MW12-303R appear to be stabilizing or improving. Specific conductance, chloride, and arsenic values have declined substantially since they were recently reported at historical maximum values. Specific conductance values at MW12-303R have decreased from an historical maximum value of 1,711 µmhos/cm in April 2018 to values ranging from 280 µmhos/cm to 577 µmhos/cm during 2020. Chloride concentrations at MW12-303R have decreased from an historical maximum value of 220 mg/L in April 2018 to values ranging from 29 mg/L to 77 mg/L during 2020. Arsenic concentrations at MW12-303R have decreased from an historical maximum value of 0.036 mg/L in July 2016 to not detected above the laboratory reporting limit of 0.005 mg/L during 2020.

The recent water quality trends at MW12-303R and P-206A are not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. This is supported by the current values and trends of key indicator parameters at the landfill underdrain monitoring locations.

MW-223A, MW-223B, MW-302R: As discussed in Section 7.3, previous water quality evaluations addressed water quality and identified similarities among the Scale House Well, the Office Well, MW-302R, MW-223A, and MW-223B, and showed that they are distinct from the chemical signature of the leachate from LT-C4LR. Water quality assessment, the results of bedrock pumping tests conducted in 2009, and the established hydrogeology in this area indicate that water quality in MW-302R, MW-223A, and MW-223B may in part be associated with upgradient water quality in the vicinity of the Office Well and Scale House Well in addition to the sources previously identified. A former topsoil and stump stockpile area and a subsurface wastewater disposal field are also located along this preferential groundwater flow direction. The Office Well and Scale House Well were not sampled during 2020. As part of the landfill expansion construction, the Office Well was decommissioned in 2020. The Scale House Well will be decommissioned in 2021 with a vibrating wire piezometer installed in it.

The water quality at MW-302R is characterized by a relatively large seasonal variation in parameter values associated with seasonal stormwater levels in adjacent Detention Pond #5. Aside from the seasonal fluctuation in water quality data at MW-302R, the water quality is generally stable. Annual maximum specific conductance values and chloride and arsenic concentrations at MW-302R during 2020 were 562 µmhos/cm, 47 mg/L, and less than the laboratory reporting limit of 0.005 mg/L, respectively.

Visual review of water quality trends at MW-223A and MW-223B show distinct increases in multiple parameter concentrations since about 2005 or later. Previously increasing concentrations of chloride have generally been decreasing over the past two years at MW-223A and have generally been stable at MW-223B. Annual maximum specific conductance values and chloride and arsenic concentrations at MW-223A during 2020 were 583 µmhos/cm, 32 mg/L, and less than the laboratory reporting limit of 0.005 mg/L, respectively. Annual maximum specific conductance values and chloride and arsenic concentrations at MW-223B during 2020 were 505 µmhos/cm, 38 mg/L, and less than the laboratory reporting limit of 0.005 mg/L, respectively.

There were no MCL and/or MEG exceedances for parameters analyzed at MW-223A and MW-223B during 2020. Sodium was the only parameter with an MCL and/or MEG exceedance at MW-302R during 2020.

The recent water quality and noted trends at MW-223A, MW-223B, and MW-302R are not interpreted to be related to the performance of landfill cells or leachate collection and transport systems. This is supported by the current values and trends of key indicator parameters at the landfill underdrain monitoring locations.

<u>MW-301</u>: The groundwater quality at MW-301 is consistent with its setting as a monitoring location downgradient from the landfill. There are no current concerns with water quality results at this location related to the performance of landfill cells or leachate collection and transport systems. Although parameter concentrations at MW-301 remained relatively low during 2020, as noted in Section 7.3, there are increasing trends in the water quality data. Review of water quality data at MW-301 suggests that there may be a correlation between the parameter value increases discussed in detail in Section 7.3, and a repair of the well in 2013. Following repairs to MW-301, there was a distinct increase in reported groundwater elevations at MW-301 in the order of approximately 4 feet. Since the repairs, multiple parameters began to increase at MW-301.

The specific conductance values at MW-301 (e.g., ranging from 228 µmhos/cm to 248 µmhos/cm during 2020) remain generally consistent with those at upgradient monitoring location MW-206, which has a historical maximum value of 269 µmhos/cm (April 2018). Chloride concentrations at MW-301 have been increasing relatively sharply since about 2013. While the 2013 chloride concentrations at MW-301 were 2.3 mg/L (July 2013) and 3.1 mg/L (October 2013), the annual maximum chloride concentration was 25 mg/L in July 2020.

There were no parameters analyzed at MW-301 that exceeded MCL or MEG standards in 2020.

- <u>OW-06-03, OW-601A, OW-601B, and MW-501</u>: Monitoring locations OW-06-03, OW-601A, OW-601B, and MW-501 are four of the eight new monitoring locations downgradient from Cell 11 of the landfill expansion. Groundwater quality monitoring began at these locations in 2018.

  Chloride concentrations at monitoring locations OW-601A, OW-601B, and MW-501 are somewhat greater than at monitoring locations upgradient from the JRL. The 2020 annual maximum chloride concentrations at OW-601A, OW-601B, and MW-501 were 20 mg/L, 44 mg/L, and 24 mg/L, respectively. There was insufficient groundwater to sample OW-06-03 in 2020.

  Specific conductance values at OW-601A, OW-601B, and MW-501 during 2020 and since 2018 have generally been consistent with other groundwater monitoring locations downgradient from the JRL. The annual maximum specific conductance values measured at OW-601A, OW-601B, and MW-501 during 2020 were 415 µmhos/cm, 403 µmhos/cm, and 310 µmhos/cm, respectively. Specific conductance values measured at OW-06-03 have increased since it was first sampled in April 2018 (193 µmhos/cm) to 2020 (641 µmhos/cm in April 2020 and 778 µmhos/cm in October 2020).

There were no MCL exceedances for parameters analyzed at OW-06-03, OW-601A, OW-601B, and MW-501 during 2020. The only MEG exceedance for parameters analyzed at OW-06-03, OW-601A, OW-601B, and MW-501 during 2020 was a sodium concentration of 25 mg/L at OW-601A in July 2020.

Monitoring locations OW-06-03, OW-601A, and OW-601B are located in close proximity to the landfill access road and may be influenced by winter road salting. Additionally, OW-06-03, OW-601A, OW-601B, and MW-501 are likely influenced by the construction of the Cell 11 liner system. Additional monitoring data from these locations over time will be useful for evaluating groundwater quality influences from the recent construction of Cell 11.

Arsenic is the only parameter analyzed in groundwater monitoring wells detected above its MCL in 2020. There were only four monitoring wells in the detection monitoring analytical program with arsenic concentrations detected above its MCL (0.01 mg/L) during 2020. The maximum arsenic concentration detected at site-wide monitoring locations was 0.028 mg/L at MW-401B in July 2020. There were no arsenic concentrations detected above its MCL at pore-water or surface water sampling locations in 2020.

The 2020 surface water, stormwater, and pore-water monitoring location data are generally characterized by low values of key indicator parameters by comparison to the JRL leachate (i.e., LT-C4LR). This is generally consistent with historical data at these locations. One exception to this were the anomalously high specific conductance value and chloride concentration (among other parameters) at SW-DP1 during the April 2020 monitoring event. The July and October 2020 monitoring results indicate that the affected parameters at SW-DP1 are returning to values consistent with those prior to April 2020. With the exception of SW-DP1 in April 2020, all specific conductance values and chloride and arsenic concentrations at the surface water, stormwater, and pore-water monitoring locations were within their respective historical ranges. As noted in Section 7.3, the elevated values at SW-DP1 were due to an overboard discharge from the active landfill and this was addressed with MEDEP and resolved prior to sampling in July and October 2020.

2020 was the eighth year of supplemental monitoring for dissolved methane at monitoring well MW-223B and the sixth year of supplemental monitoring for dissolved methane at the three pore-water sampling locations. Dissolved methane was not detected above its laboratory reporting limit of 20 µg/L at MW-223B in 2020. The 2020 dissolved methane concentrations were within their respective historical ranges at PWS10-1 and PWS10-2. The July 2020 dissolved methane concentration at PWS10-3 (4,000 µg/L) was greater than the previous historical maximum concentration of 280 µg/L in July 2019. The historical and 2020 dissolved methane detections at these locations are consistent with their hydrologic setting in a freshwater wetland and are attributed to anaerobic biological processes in the saturated wetland soils. Studies of freshwater wetlands in the southeastern portion of the United States show wetland pore-water samples with dissolved methane concentrations of more than 20,000 µg/L in the top 25 centimeters of saturated soils[31]. The lower dissolved methane concentrations at JRL wetlands are likely attributed to the cooler climate in the northeastern portion of the United States, which limits anaerobic biological activity. The greatest concentration of dissolved methane detected at pore-water monitoring locations in 2020 (4,000 µg/L at PWS10-3) occurred during the July monitoring event.

During 2020, SME performed baseline water quality monitoring at the Cell 12 monitoring wells, as noted in Section 7.5. Groundwater samples were collected from groundwater monitoring wells MW-04-09A, MW-04-09B, and MW-502 in February, April, June, and August 2020. Baseline monitoring wells were analyzed for the monitoring parameters listed in Table 3-2 of this report. The baseline water quality monitoring data results from the Cell 12 monitoring wells were submitted to MEDEP in 2020. Monitoring locations MW-04-09A, MW-04-09B, and MW-502 will be incorporated into the EMP in 2021 for monitoring Cell 12. The baseline and 2021 water quality data from these wells will be incorporated into the 2021 Annual Water Quality Report for the JRL.

9.2 Closure and Recommendations

Upgradient monitoring location P-206A is located proximate to the looped road that accesses the JRL leachate storage tank. SME recommends that on-site snow removal and winter roadway maintenance practices minimize stockpiling of snow around this well.

SME recommends continuing with the current site monitoring program in 2021, which will include water quality monitoring for Cell 12 monitoring wells MW-04-09A, MW-04-09B, and MW-502.

[31] Schipper LA, Reddy KR (1994) Methane production and emissions from four reclaimed and pristine wetlands of southeastern U.S. *Soil Science Society of America Journal* 58, 1270-1275.

APPENDIX A

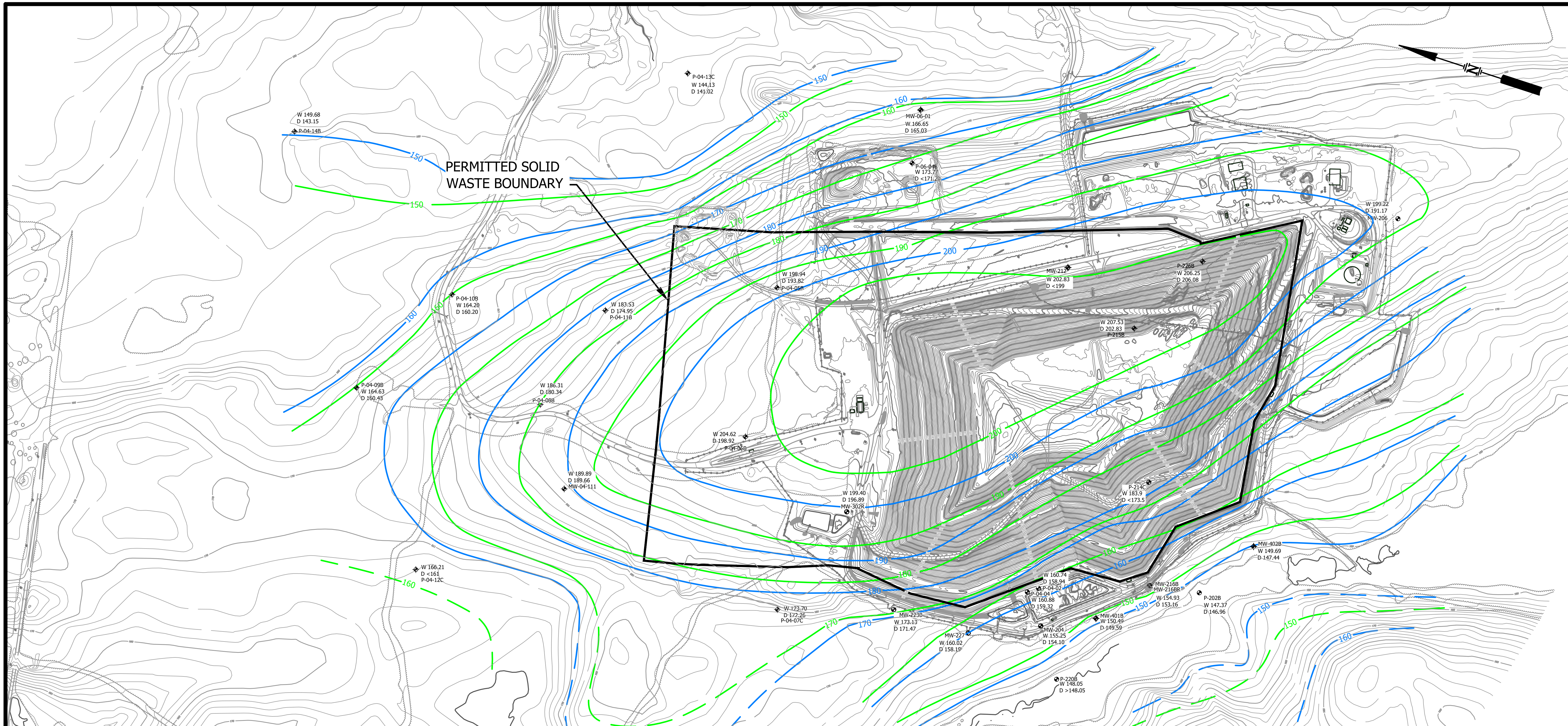
RESPONSES TO MEDEP COMMENTS REGARDING THE PREVIOUS ANNUAL WATER QUALITY REVIEW (NONE RECEIVED)

SME
SEVEE & MAHER
ENGINEERS

APPENDIX B

INTERPRETED SHALLOW GROUNDWATER PHREATIC SURFACE AND UPPER BEDROCK POTENTIOMETRIC SURFACE CONTOUR MAPS AND 2020 QUANTITATIVE ANALYSIS OF MEASURED CHANGES IN GROUNDWATER ELEVATIONS AT MONITORING LOCATIONS

SME
SEVEE & MAHER
ENGINEERS



NOTES

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC., NORRIDGEWOCK, MAINE. PHOTO DATE 7/5/17. VERTICAL DATUM: BRASS PLUG AT PUMP STATION AND AT THE ADMINISTRATION BUILDING. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC, CUMBERLAND, MAINE.
CONTOURS WITHIN EXISTING CELL LINER LIMIT FROM LOW ALTITUDE AERIAL PHOTOGRAMMETRIC MAPPING PERFORMED BY SEVEE & MAHER ENGINEERS, INC. (SME) OF CUMBERLAND, MAINE, DATED DECEMBER 1, 2018. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC (SME) OF CUMBERLAND, MAINE USING PROPELLER AEROPOINTS, DATED DECEMBER 1, 2018: HORIZONTAL DATUM - NAD83 MAINE, EAST, US FT.
VERTICAL DATUM - NAVD 88, US FT.

2. PROPERTY LINE LOCATIONS ARE A RESULT OF FIELD SURVEY PERFORMED BY HERRICK AND SALSBURY, INC. LAND SURVEYORS, ELLSWORTH, MAINE FOR TRYTON TREE FARM PROJECT, PATTEN CORPORATION-DOWNEAST, OLD TOWN, MAINE, FEBRUARY 23, 1988, REVISED APRIL 7, 1988.

3. LOCATIONS OF EXPLORATIONS ARE APPROXIMATE.

4. GROUNDWATER CONTOURS BASED ON WATER LEVEL MEASUREMENTS RECORDED DURING SPRING AND FALL OF 2007 (WET AND DRY SEASONS RESPECTIVELY). SUMMER DATA FROM 2008 (WET AND DRY SEASONS RESPECTIVELY).

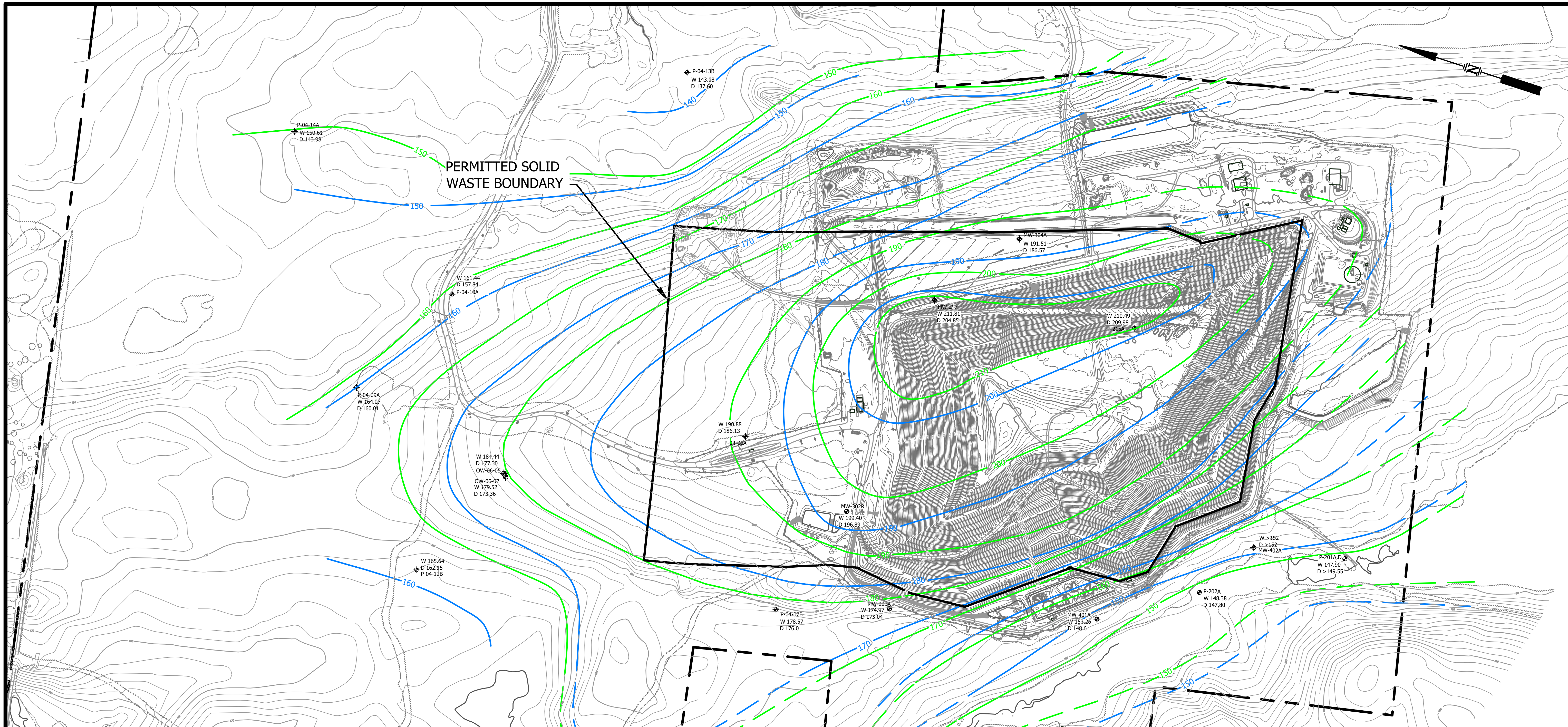
LEGEND

150	INTERPRETED WET-SEASON POTENTIOMETRIC SURFACE, (2007) IN BEDROCK (ELEVATION IN FEET NGVD).
150	INTERPRETED DRY-SEASON POTENTIOMETRIC SURFACE, (2007), IN BEDROCK (ELEVATION IN FEET NGVD).
MW-227 W 160.02 D 158.19	WELL/PIEZOMETER LOCATION WITH ELEVATION OF GROUNDWATER FOR WET (W) AND DRY (D) SEASON.

FIGURE 5-1
INTERPRETED PHREATIC SURFACE
SEASONAL HIGH CONDITIONS
JUNIPER RIDGE LANDFILL EXPANSION
OLD TOWN, MAINE

SME
SEVEE & MAHER
ENGINEERS

DWG: GW LMN: PHREATIC-2007 CTB: OVERBURDEN REV: 3/19/2019



NOTES

1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC., NORRIDGEWOCK, MAINE. PHOTO DATE 7/5/17. VERTICAL DATUM: BRASS PLUG AT PUMP STATION AND AT THE ADMINISTRATION BUILDING. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC, CUMBERLAND, MAINE.
CONTOURS WITHIN EXISTING CELL LINER LIMIT FROM LOW ALTITUDE AERIAL PHOTOGRAMMETRIC MAPPING PERFORMED BY SEVEE & MAHER ENGINEERS, INC. (SME) OF CUMBERLAND, MAINE, DATED DECEMBER 1, 2018. GROUND CONTROL BY SEVEE & MAHER ENGINEERS, INC (SME) OF CUMBERLAND, MAINE USING PROPELLER AEROPOINTS, DATED DECEMBER 1, 2018:
HORIZONTAL DATUM - NAD83 MAINE, EAST, US FT.
VERTICAL DATUM - NAVD 88, US FT.
2. PROPERTY LINE LOCATIONS ARE A RESULT OF FIELD SURVEY PERFORMED BY HERRICK AND SALSBURY, INC. LAND SURVEYORS, ELLSWORTH, MAINE FOR TRYTON TREE FARM PROJECT, PATTEN CORPORATION-DOWNEAST, OLD TOWN, MAINE, FEBRUARY 23, 1988, REVISED APRIL 7, 1988.
3. LOCATIONS OF EXPLORATIONS ARE APPROXIMATE.
4. GROUNDWATER CONTOURS BASED ON WATER LEVEL MEASUREMENTS RECORDED DURING SPRING AND FALL OF 2007 (WET AND DRY SEASONS RESPECTIVELY). SUMMER DATA FROM 2008 (WET AND DRY SEASONS RESPECTIVELY).

LEGEND

150	INTERPRETED WET-SEASON UPPER BEDROCK POTENTIOMETRIC SURFACE CONTOUR (ELEVATION IN FEET NGVD).
150	INTERPRETED DRY-SEASON UPPER BEDROCK POTENTIOMETRIC SURFACE CONTOUR (ELEVATION IN FEET NGVD).
MW-223A W 174.97 D 173.04	WELL/PIEZOMETER LOCATION WITH ELEVATION OF GROUNDWATER FOR WET (W) AND DRY (D) SEASON.

250 0 500 FEET

FIGURE 5-8
INTERPRETED GROUNDWATER
POTENTIOMETRIC SURFACE
IN UPPER BEDROCK
JUNIPER RIDGE LANDFILL EXPANSION
OLD TOWN, MAINE

SME
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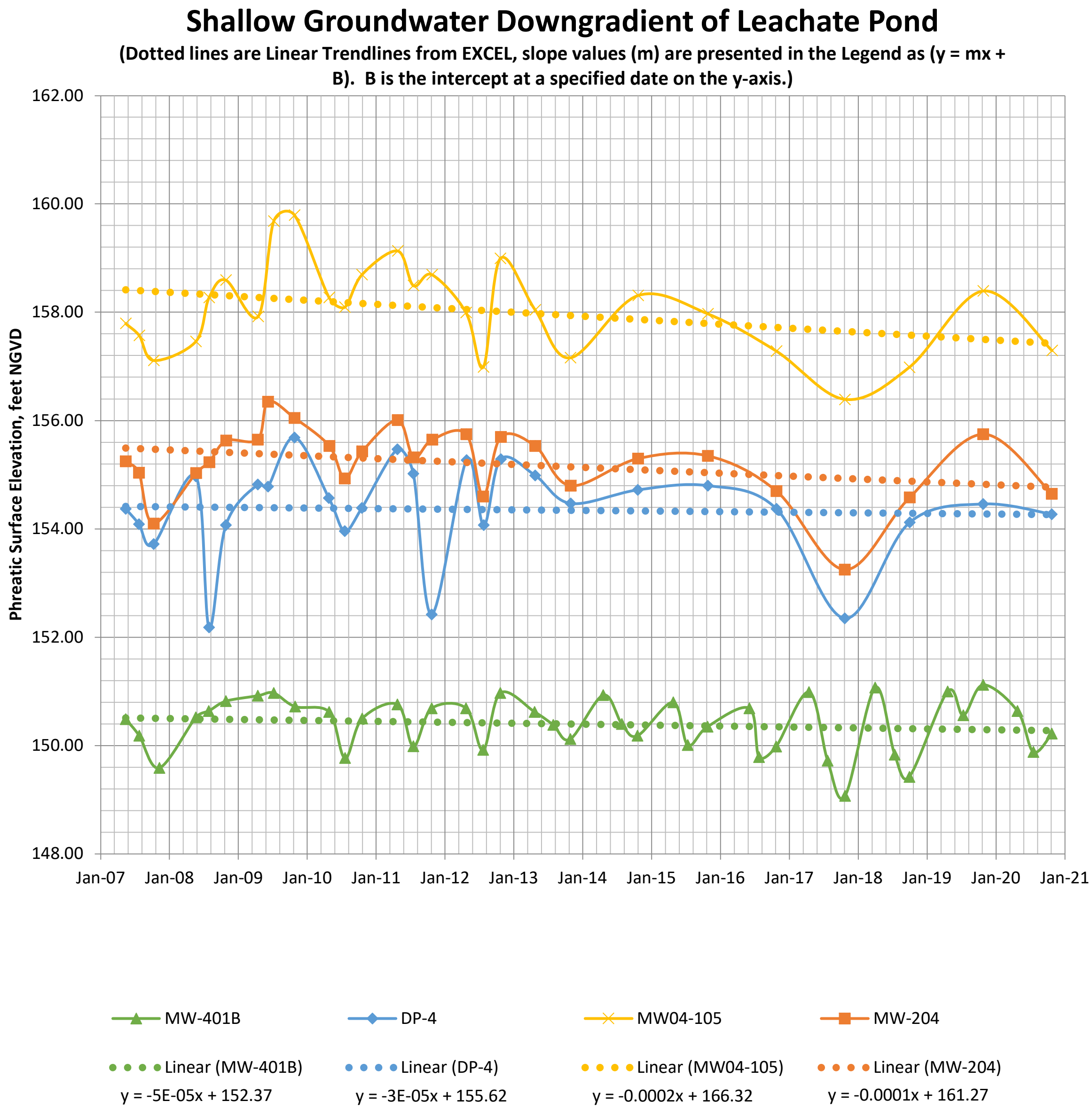
ENGINEERS

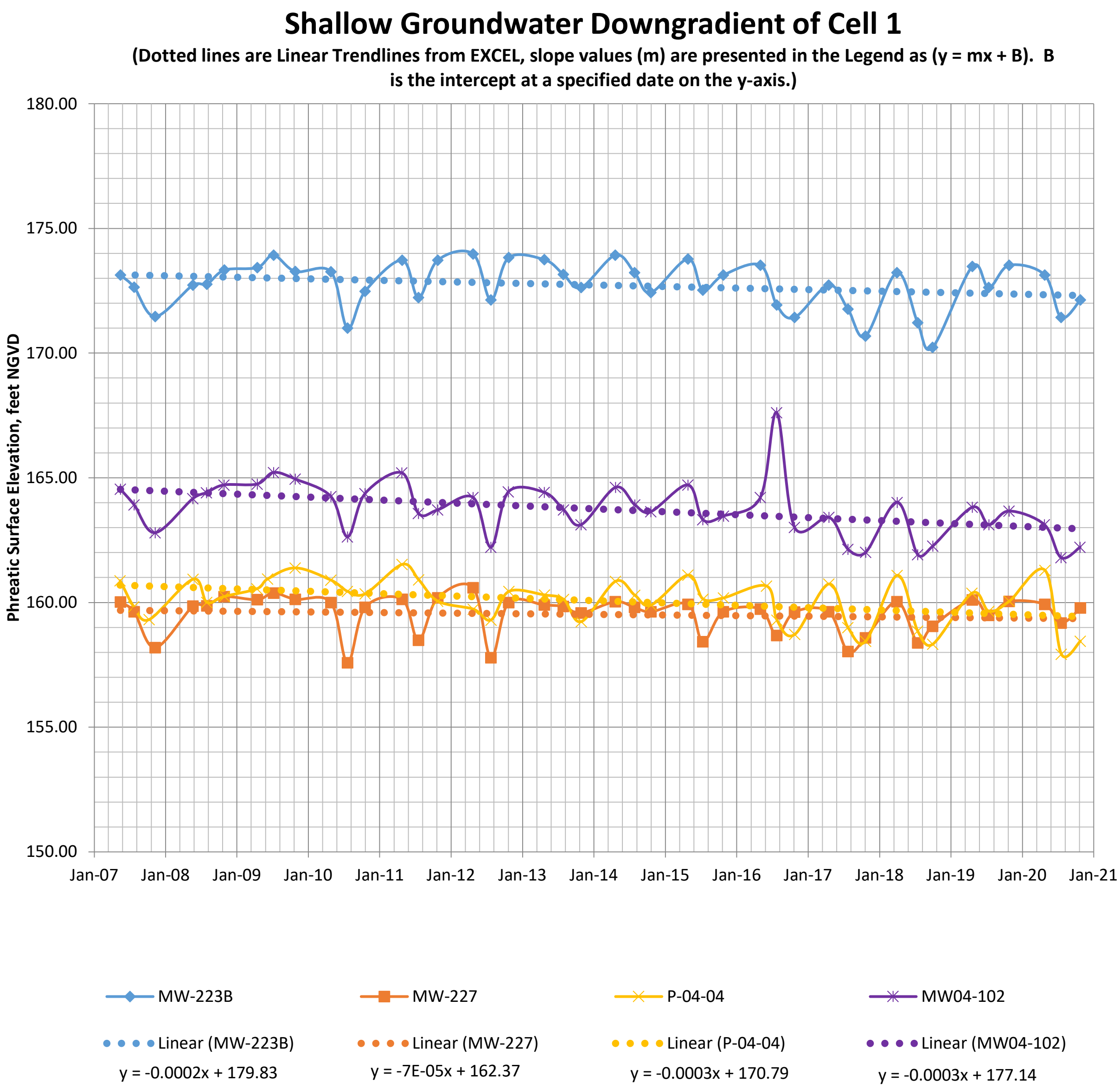
DWG: GW LMN: POTENTIO-BEDROCK CTB: OVERBURDEN REV: 3/19/2019

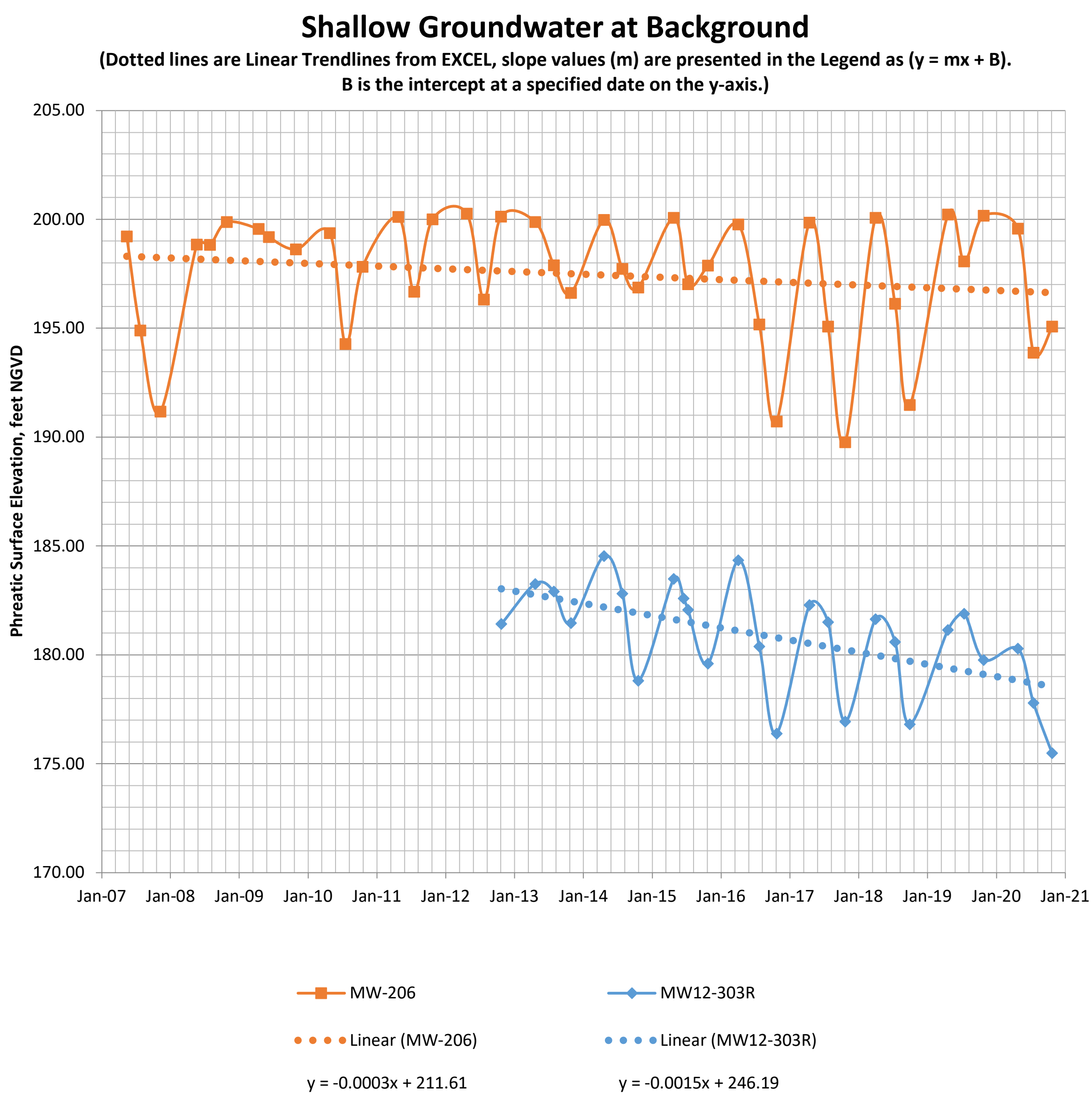
\\Nserver\cfs\Casella\OldTownLandfill\GeneralSiteInfo\EMP\Acad\GW.dwg, 3/19/2019 7:58:54 AM, sjm



Shallow Groundwater Downgradient of Leachate Pond
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B). B is the intercept at a specified date on the y-axis.)
Phreatic Surface Elevation, feet NGVD
162.00
160.00
158.00
156.00
154.00
152.00
150.00
148.00
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
MW-401B
DP-4
MW04-105
MW-204
Linear (MW-401B)
Linear (DP-4)
Linear (MW04-105)
Linear (MW-204)
y = -5E-05x + 152.37
y = -3E-05x + 155.62
y = -0.0002x + 166.32
y = -0.0001x + 161.27

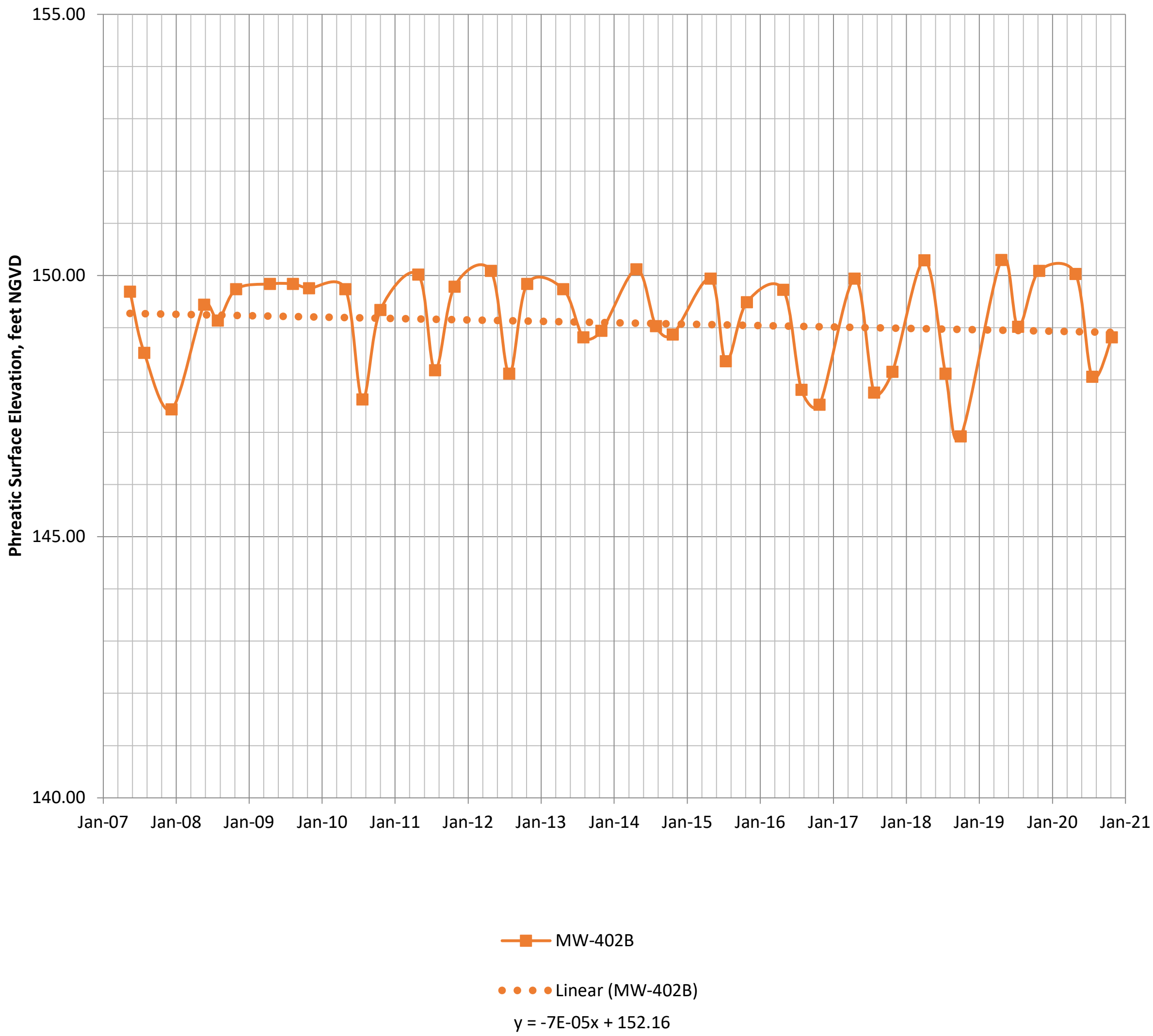
Quantitative Analysis of Groundwater at JRL




Shallow Groundwater at Background
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B).
B is the intercept at a specified date on the y-axis.)
Phreatic Surface Elevation, feet NGVD
205.00
200.00
195.00
190.00
185.00
180.00
175.00
170.00
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
MW-206
MW12-303R
Linear (MW-206)
Linear (MW12-303R)
y = -0.0003x + 211.61
y = -0.0015x + 246.19

Shallow Groundwater Downgradient of Cell 5/6

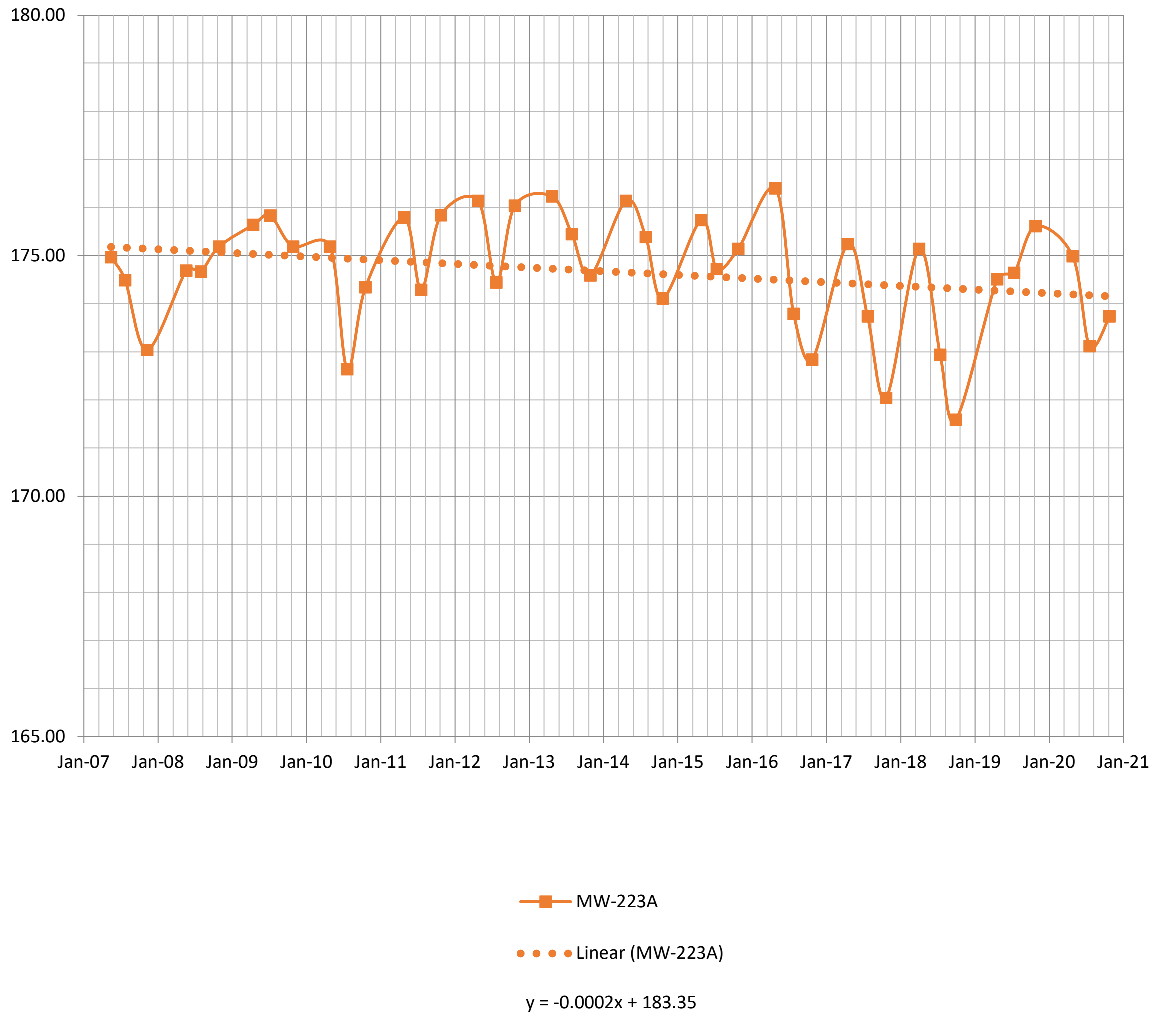
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B). B is the intercept at a specified date on the y-axis.)

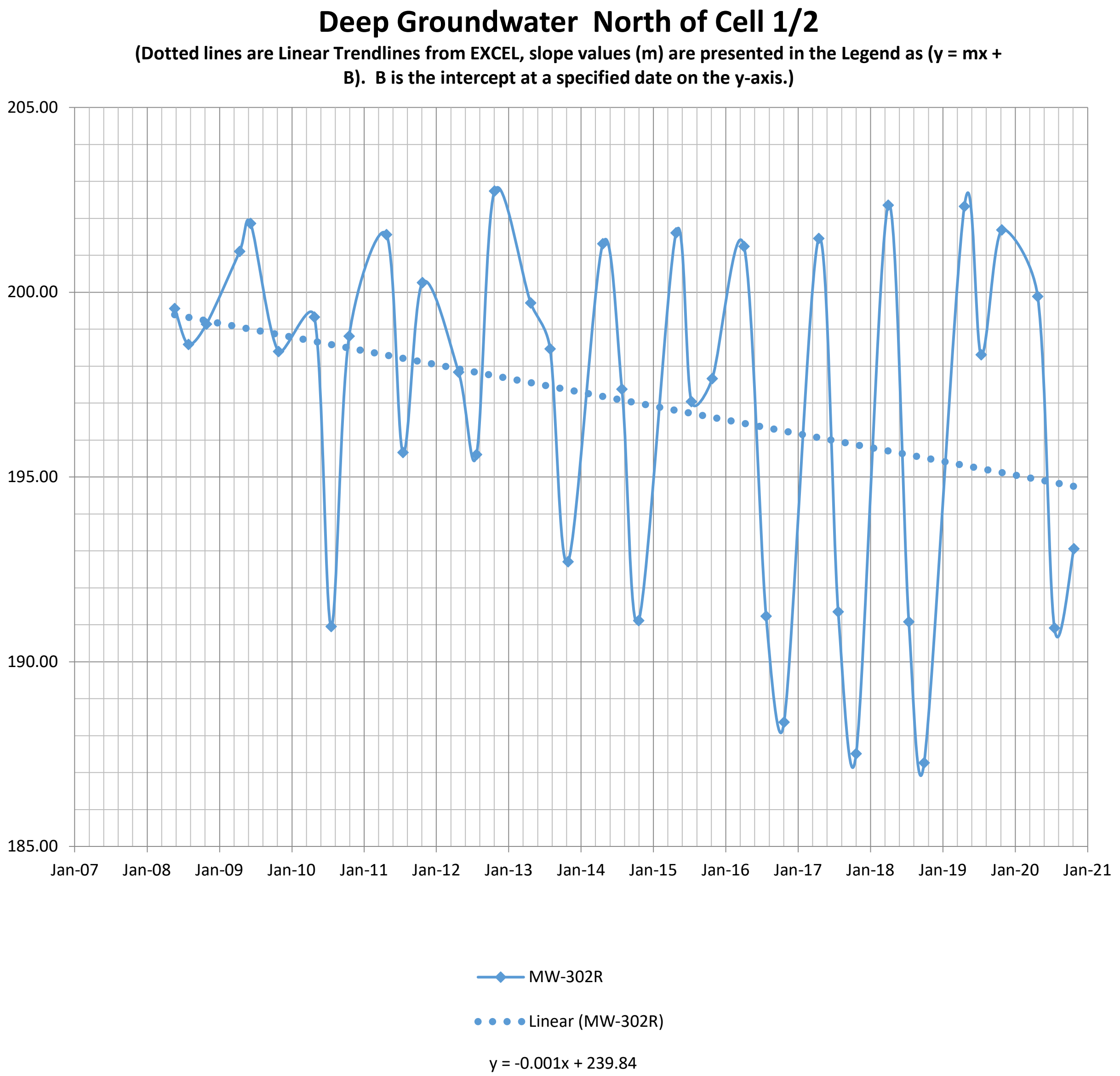


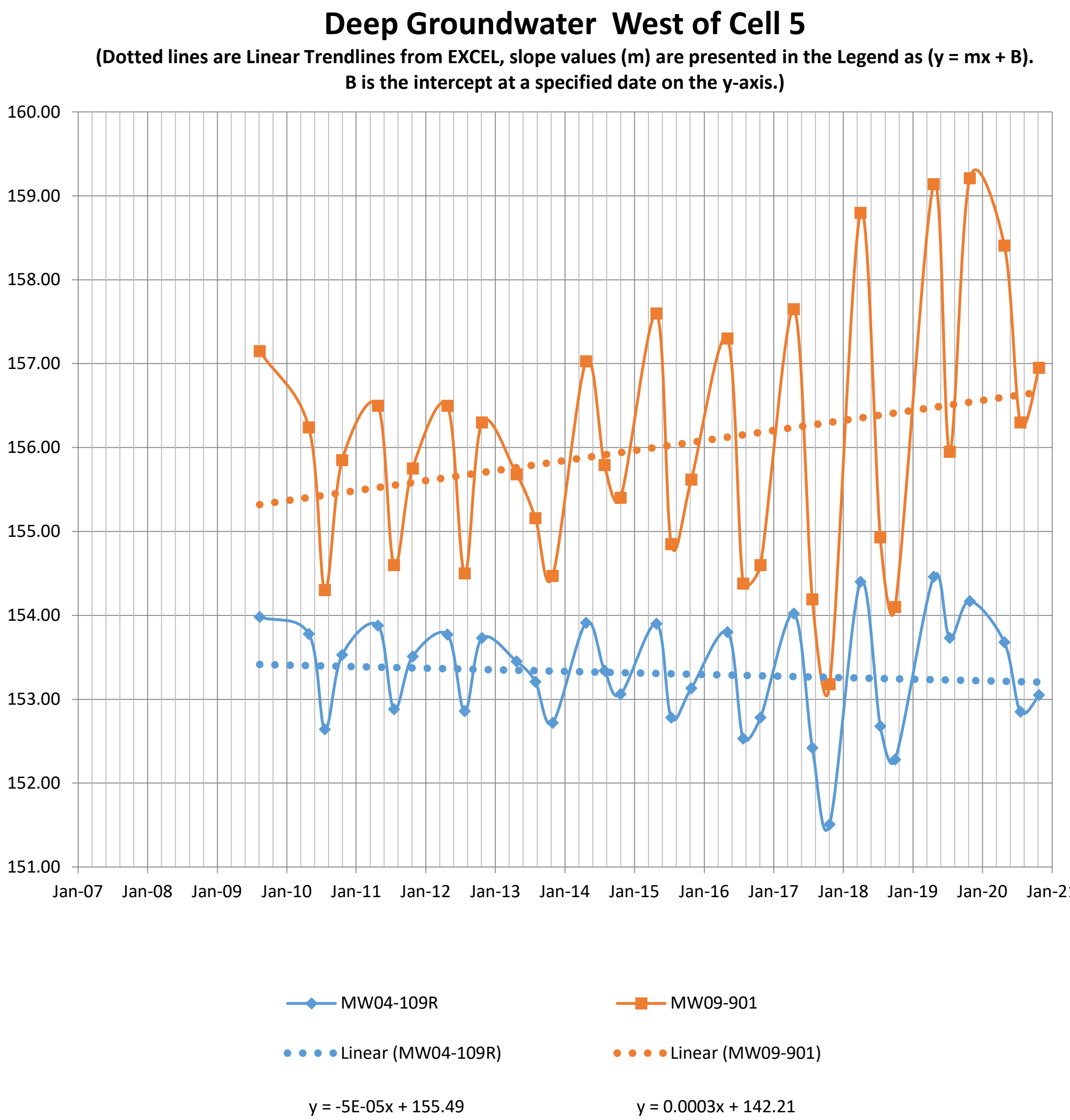
Quantitative Analysis of Groundwater at JRL

Deep Groundwater West of Cell 1

**(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B).
B is the intercept at a specified date on the y-axis.)**

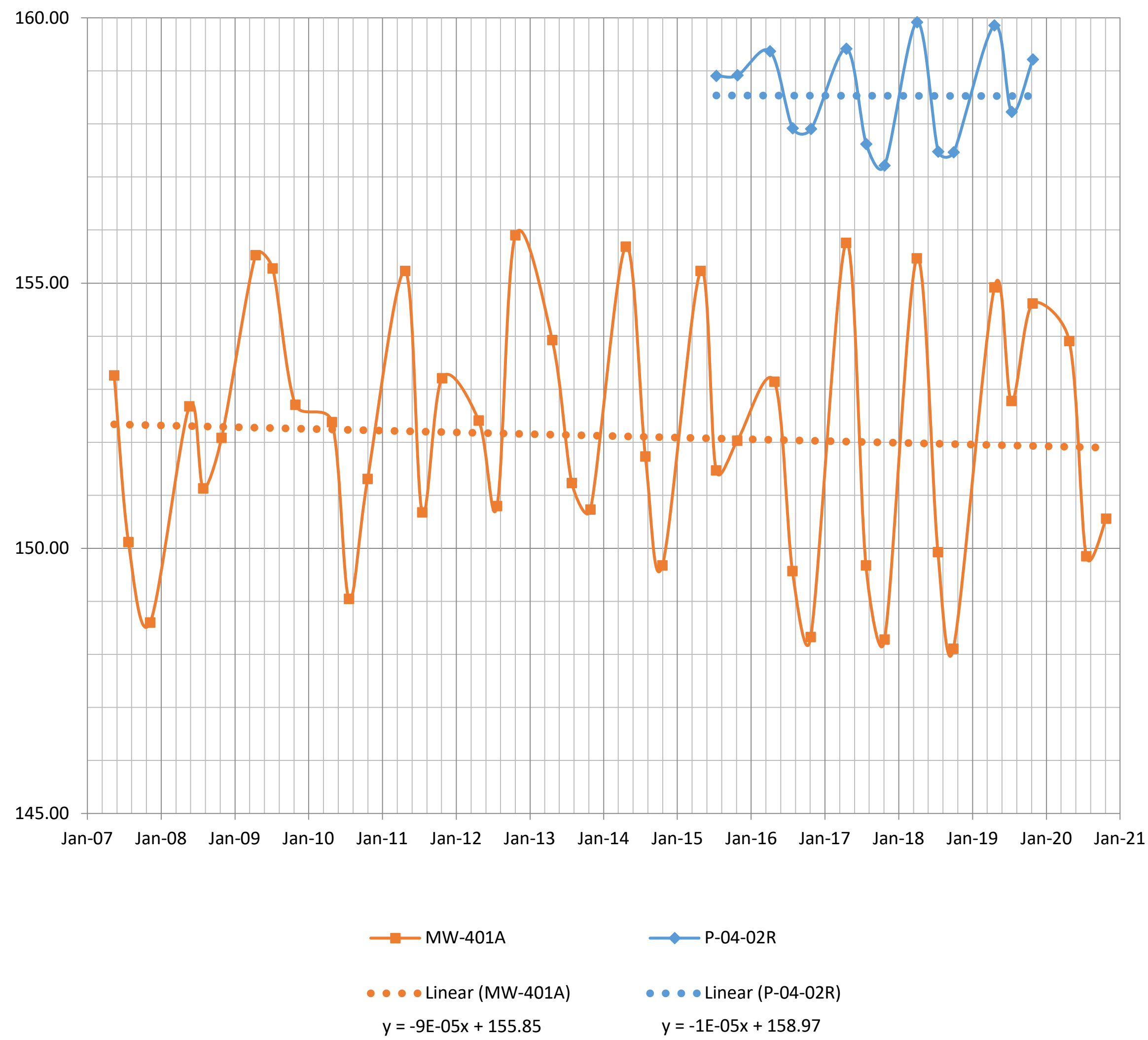


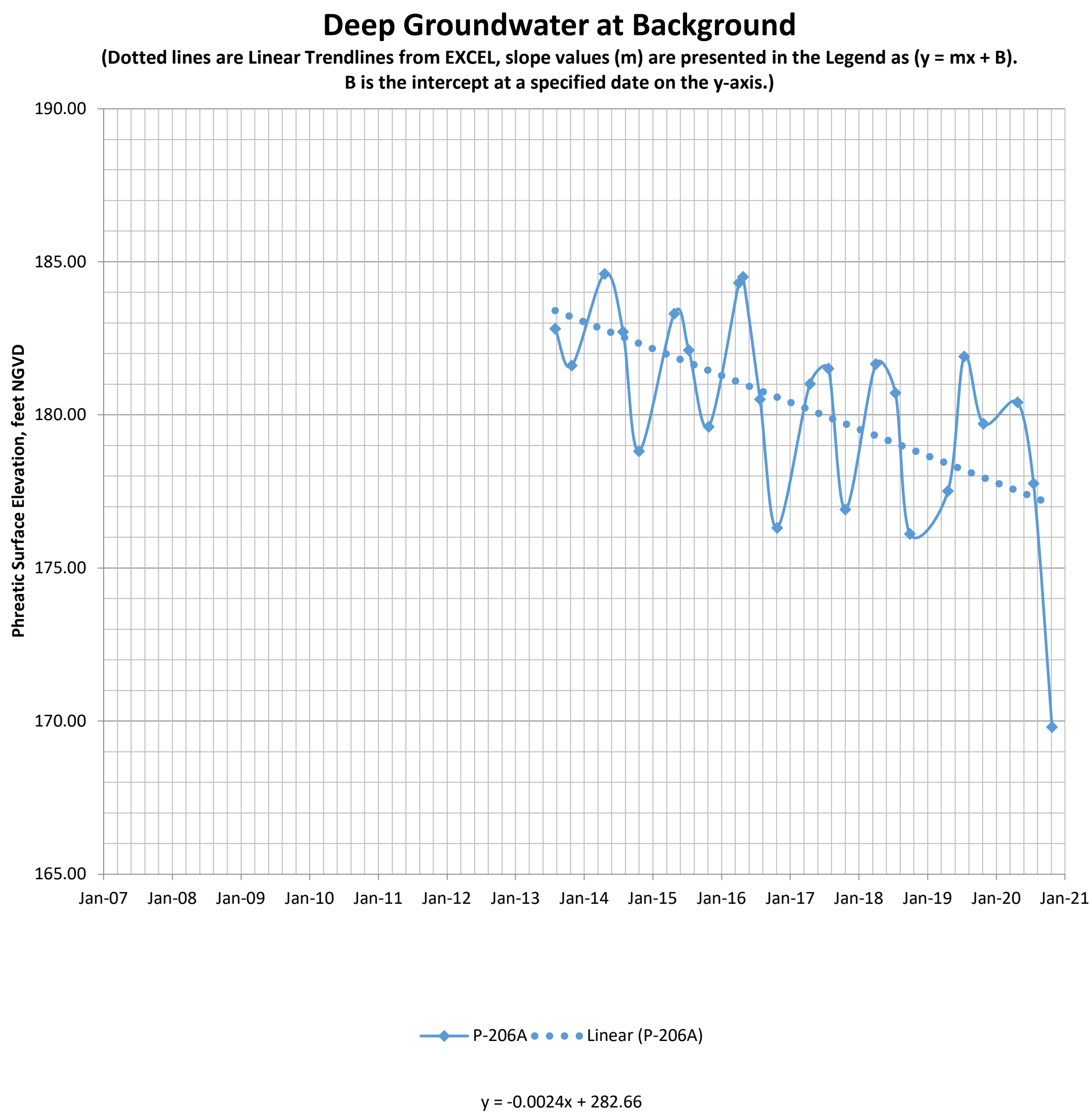

Deep Groundwater North of Cell 1/2
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B). B is the intercept at a specified date on the y-axis.)
205.00
200.00
195.00
190.00
185.00
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
MW-302R
Linear (MW-302R)
y = -0.001x + 239.84

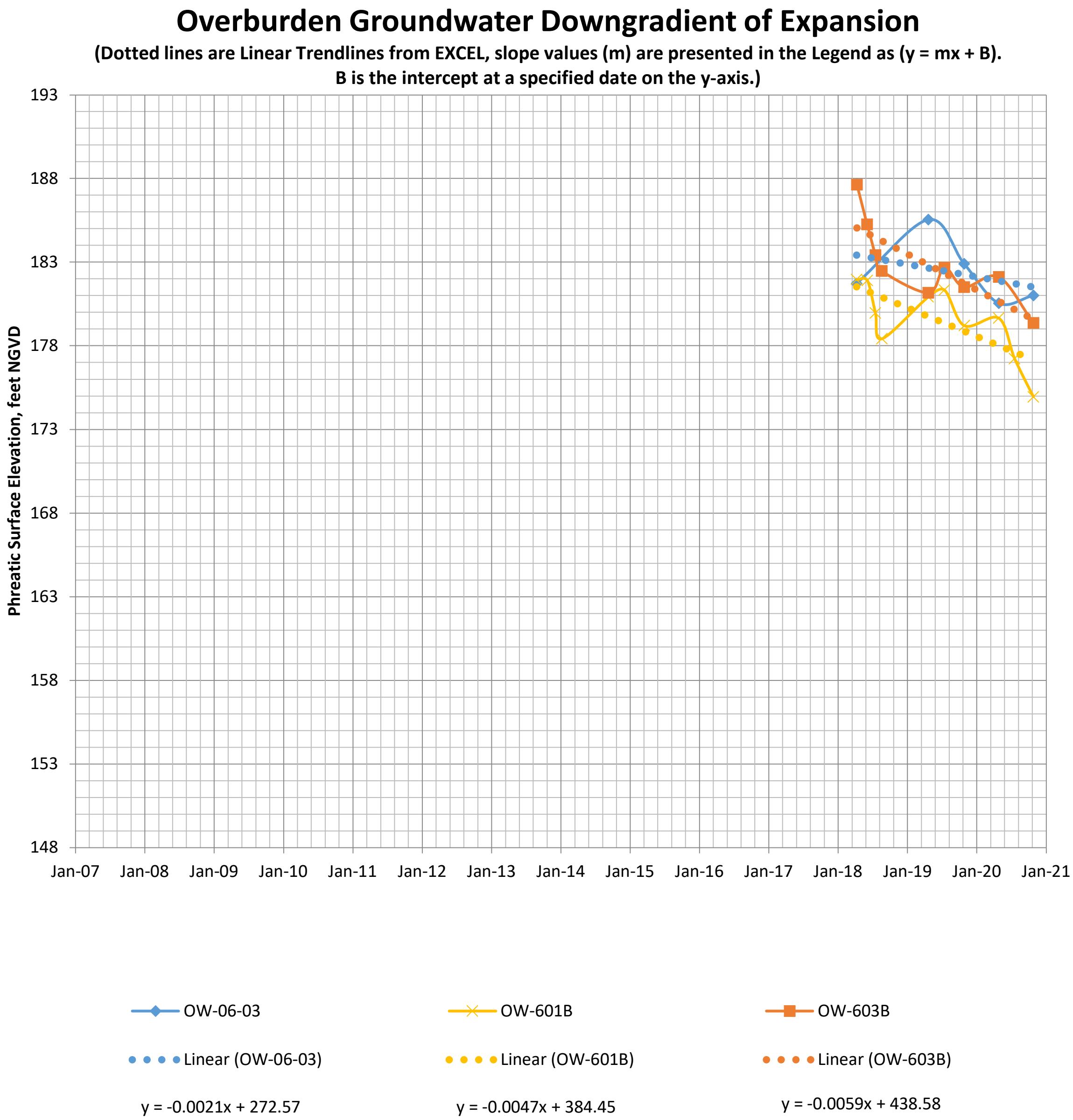

Deep Groundwater West of Cell 5
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B).
B is the intercept at a specified date on the y-axis.)
160.00
159.00
158.00
157.00
156.00
155.00
154.00
153.00
152.00
151.00
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
MW04-109R
MW09-901
Linear (MW04-109R)
Linear (MW09-901)
y = -5E-05x + 155.49
y = 0.0003x + 142.21

Deep Groundwater Downgradient of Leachate Pond

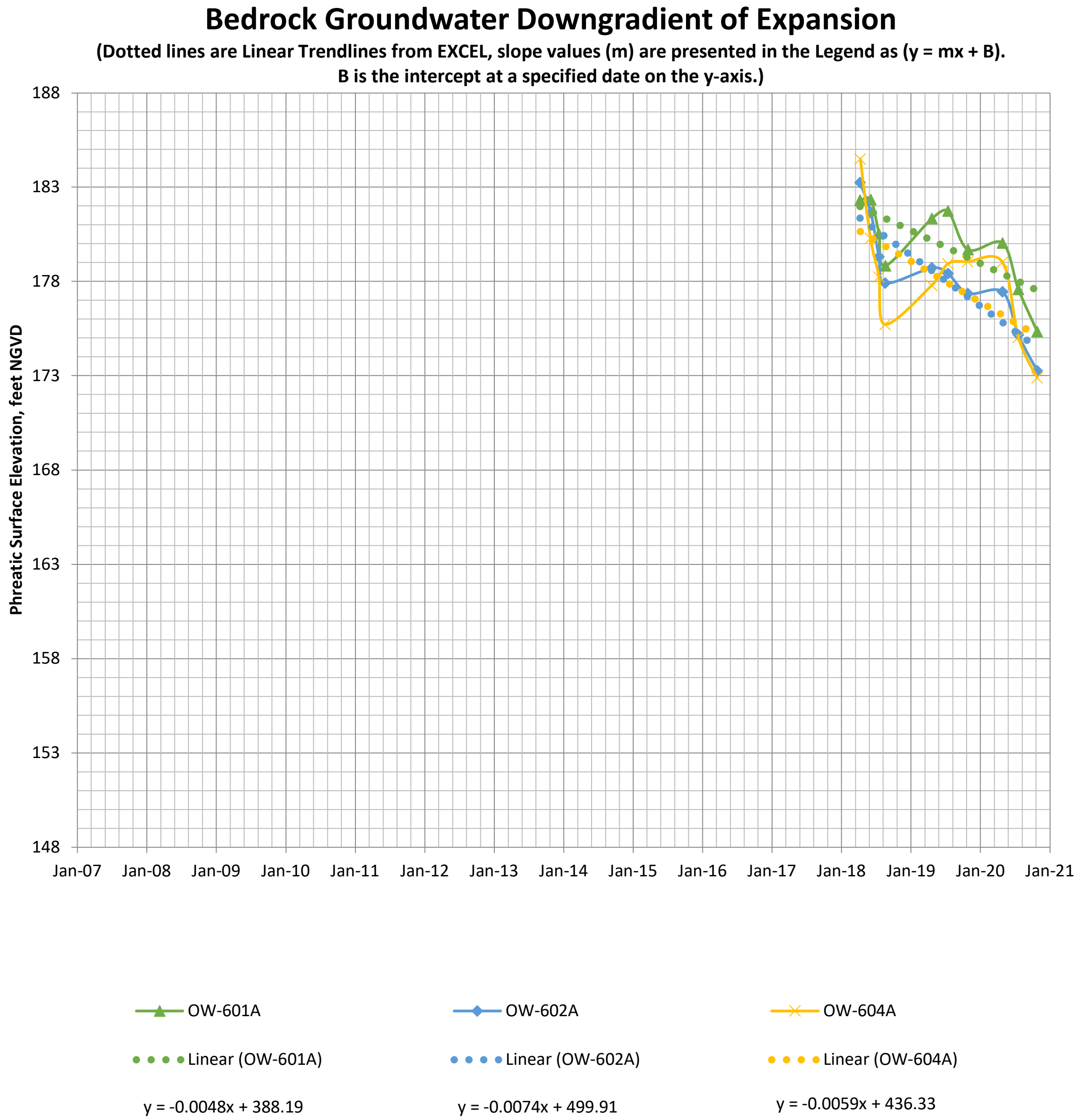
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B). B is the intercept at a specified date on the y-axis.)




Deep Groundwater at Background
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B).
B is the intercept at a specified date on the y-axis.)
Phreatic Surface Elevation, feet NGVD
190.00
185.00
180.00
175.00
170.00
165.00
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
P-206A
Linear (P-206A)
y = -0.0024x + 282.66


Overburden Groundwater Downgradient of Expansion
(Dotted lines are Linear Trendlines from EXCEL, slope values (m) are presented in the Legend as (y = mx + B).
B is the intercept at a specified date on the y-axis.)
Phreatic Surface Elevation, feet NGVD
193
188
183
178
173
168
163
158
153
148
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
OW-06-03
OW-601B
OW-603B
Linear (OW-06-03)
Linear (OW-601B)
Linear (OW-603B)
y = -0.0021x + 272.57
y = -0.0047x + 384.45
y = -0.0059x + 438.58

Quantitative Analysis of Groundwater at JRL



APPENDIX C

2020 AND HISTORICAL FALL SPECIFIC CONDUCTANCE DATA (EXPANDED LOCATIONS)

SME
SEVEE & MAHER ENGINEERS

SUMMARY REPORT

Conductivity and Water Levels

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4) Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
DP-4				
10/26/2009	409	13.68	155.69	27.05
10/18/2010	401	14.98	154.39	27.1
10/24/2011	256	16.95	152.42	27.06
10/24/2012	302	14.08	155.29	27.06
10/30/2013	273	14.9	154.47	27.06
10/21/2014	239	14.67	154.7	27.05
10/28/2015	278	14.57	154.8	27.05
10/26/2016	267	15	154.37	27.1
10/23/2017	201	17.02	152.35	27.17
10/3/2018	214	15.25	154.12	27.16
10/28/2019	272	14.91	154.46	27.1
10/26/2020	249	15.1	154.27	27.12
MW04-101				
10/28/2008	176			
10/27/2009	191	4.1	163.82	23.75
10/18/2010	198	5.1	162.82	23.75
10/25/2011	177	5.7	162.22	23.75
10/22/2012	196	5.45	162.47	23.75
10/28/2013	186	6.42	161.5	23.82
10/21/2014	193	5.86	162.06	23.82
10/26/2015	189	5.8	162.12	23.82
10/24/2016	211	6.2	161.72	23.82
10/23/2017	213	7.2	160.72	23.82
10/3/2018	204	6.3	161.62	23.83
10/28/2019	!	!		!
10/28/2020	!	!		!
MW04-102				
10/27/2009	236	5.27	164.95	17.84
10/19/2010	232	5.85	164.37	17.97
10/25/2011	209	6.5	163.72	17.85
10/22/2012	221	5.78	164.44	17.98
10/28/2013	207	7.1	163.12	18.05
10/21/2014	196	6.58	163.64	18.05
10/28/2015	214	6.75	163.47	18.05
10/25/2016	237	7.2	163.02	18.05
10/25/2017	240	8.2	162.02	18.05
10/3/2018	224	7.95	162.27	18.05
10/28/2019	216	6.55	163.67	18.05
10/26/2020	224	8	162.22	18.05
MW04-104				
10/28/2008	192			
10/27/2009	213	7.3	160.76	28
10/18/2010	229	8	160.06	28
10/25/2011	206	8	160.06	28
10/22/2012	231	7.5	160.56	28
10/29/2013	209	9	159.06	28.05

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW04-104)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/22/2014	203	8.2	159.86	28.07
10/26/2015	222	8.46	159.6	28.08
10/25/2016	242	8.8	159.26	28.05
10/24/2017	239	9.6	158.46	28.07
10/2/2018	236	9.2	158.86	28.07
10/28/2019	229	8.1	159.96	28.06
10/28/2020	231	8	160.06	27.9

MW04-105

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/26/2009	528	5.8	159.79	22.75
10/18/2010	306	6.9	158.69	22.75
10/25/2011	217	6.9	158.69	22.75
10/22/2012	252	6.6	158.99	22.75
10/29/2013	286	8.43	157.16	22.83
10/22/2014	322	7.28	158.31	22.83
10/28/2015	296	7.62	157.97	22.83
10/26/2016	305	8.31	157.28	22.83
10/23/2017	332	9.2	156.39	22.85
10/1/2018	341	8.61	156.98	22.84
10/28/2019	218	7.2	158.39	22.83
10/27/2020	276	8.3	157.29	22.84

MW04-109R

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/19/2010	488	6.6	153.53	22.92
10/25/2011	416	6.62	153.51	22.95
10/23/2012	404	6.4	153.73	22.92
10/29/2013	397	7.41	152.72	22.97
10/21/2014	389	7.07	153.06	22.98
10/27/2015	429	7	153.13	22.97
10/25/2016	425	7.35	152.78	22.97
10/24/2017	453	8.62	151.51	22.97
10/2/2018	437	7.85	152.28	22.97
10/28/2019	418	5.96	154.17	22.97
10/27/2020	391	7.08	153.05	27.98

MW-204

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/26/2009	309	8.7	156.05	24.42
10/19/2010	200	9.32	155.43	24.45
10/26/2011	180	9.1	155.65	24.45
10/24/2012	193	9.05	155.7	24.45
10/30/2013	185	9.95	154.8	24.43
10/22/2014	192	9.45	155.3	24.48
10/26/2015	167	9.4	155.35	24.43
10/26/2016	218	10.05	154.7	24.43
10/23/2017	272	11.5	153.25	24.43
10/3/2018	277	10.17	154.58	24.48
10/28/2019	253	9	155.75	24.49
10/26/2020	265	10.1	154.65	24.47

MW-206

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/28/2009	141	6.05	198.62	23.08

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW-206)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/18/2010	187	6.85	197.82	23.08
10/24/2011	148	4.67	200	23.1
10/22/2012	157	4.55	200.12	23.09
10/28/2013	135	8.05	196.62	23.15
10/20/2014	142	7.8	196.87	23.15
10/26/2015	139	6.8	197.87	23.15
10/24/2016	167	13.95	190.72	23.15
10/23/2017	146	14.9	189.77	23.15
10/1/2018	147	13.2	191.47	23.15
10/28/2019	149	4.5	200.17	23.15
10/26/2020	148	9.6	195.07	23.15

MW-216BR

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/19/2010	289	5.51	153.89	22.46
10/25/2011	400	5.48	153.92	22.48
10/23/2012	334	5.2	154.2	22.45
10/29/2013	278	6.35	153.05	22.53
10/21/2014	263	6	153.4	22.53
10/26/2015	257	5.85	153.55	22.54
10/25/2016	273	6.3	153.1	22.52
10/23/2017	258	7.7	151.7	22.52
10/2/2018	266	6.8	152.6	22.53
10/29/2019	164	4.7	154.7	22.25
10/27/2020	196	6	153.4	22.48

MW-223A

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		4.22	172.32	
7/30/2008		1.87	174.67	
10/27/2009	271	1.35	175.19	35.44
10/19/2010	326	2.2	174.34	35.42
10/25/2011	367	0.7	175.84	35.56
10/23/2012	390	0.5	176.04	35.48
10/29/2013	420	1.95	174.59	35.56
10/20/2014	435	2.43	174.11	35.57
11/6/2014		0.68	175.86	
10/27/2015	490	1.4	175.14	35.57
10/25/2016	547	3.7	172.84	35.57
10/24/2017	552	4.5	172.04	35.57
10/2/2018	556	4.95	171.59	35.6
10/29/2019	548	0.93	175.61	35.57
10/27/2020	583	2.8	173.74	35.57

MW-223B

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		3.7	172.23	
7/30/2008		3.17	172.76	
10/27/2009	331	2.65	173.28	19.95
10/19/2010	316	3.45	172.48	20
10/25/2011	327	2.2	173.73	19.93
10/23/2012	333	2.1	173.83	20.05
10/29/2013	336	3.3	172.63	20.07
10/20/2014	350	3.5	172.43	20.07

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(MW-223B) Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
11/6/2014		2.19	173.74	
10/27/2015	394	2.8	173.13	20.05
10/25/2016	436	4.5	171.43	20.07
10/24/2017	446	5.25	170.68	20.06
10/2/2018	485	5.7	170.23	20.07
10/29/2019	480	2.4	173.53	20.07
10/27/2020	505	3.8	172.13	20.07
MW-227				
10/27/2009	182	4.1	160.13	22.2
10/19/2010	189	4.42	159.81	22.3
10/25/2011	188	4.05	160.18	22.28
10/23/2012	201	4.23	160	22.3
10/29/2013	177	4.65	159.58	22.28
10/20/2014	181	4.6	159.63	22.3
10/27/2015	182	4.6	159.63	22.3
10/25/2016	199	4.61	159.62	22.3
10/24/2017	191	5.65	158.58	22.3
10/2/2018	191	5.18	159.05	22.3
10/29/2019	181	4.19	160.04	22.3
10/27/2020	184	4.45	159.78	22.31
MW-301				
10/26/2009	276	4.25	162.11	185.15
10/19/2010	340	4.96	161.4	182.45
10/26/2011	204	4.11	162.25	185.1
10/24/2012	171	4.56	161.8	179.61
10/30/2013	198	0.1	165.81	184.1
10/22/2014	299	0.3	165.61	184.1
10/27/2015	205	0.23	165.68	185.11
10/26/2016	218	0.38	165.53	185.11
10/25/2017	225	0.2	165.71	185.11
10/1/2018	242	0.95	164.96	185.13
10/28/2019	248	F1		185.1
10/26/2020	248	1.8	164.11	185.12
MW-302R				
5/19/2008		7.08	199.78	
7/29/2008		8.27	198.59	
10/27/2009	470	8.46	198.4	32.25
10/18/2010	649	8.05	198.81	32.22
10/24/2011	400	6.6	200.26	32.2
10/22/2012	463	4.12	202.74	32.2
10/28/2013	341	14.15	192.71	32.22
10/20/2014	500	15.75	191.11	32.22
11/6/2014		6.53	200.33	
10/26/2015	766	9.2	197.66	32.22
10/24/2016	630	18.5	188.36	32.22
10/23/2017	698	19.35	187.51	32.25
10/1/2018	851	19.6	187.26	32.23
10/28/2019	317	5.17	201.69	32.2

(MW-302R) Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/26/2020	562	13.8	193.06	32.27
MW12-303R				
10/23/2012	189	27.47	181.42	43.32
10/28/2013	223	27.43	181.46	43.38
10/20/2014	440	30.08	178.81	43.38
10/26/2015	370	29.29	179.6	43.4
10/24/2016	681	32.5	176.39	43.4
10/23/2017	414	19.35	189.54	43.4
10/1/2018	408	32.08	176.81	43.4
10/28/2019	380	29.12	179.77	43.4
10/26/2020	577	33.4	175.49	43.4
MW-401A				
10/28/2009	165	4.12	152.71	111.98
10/20/2010	191	5.52	151.31	112.1
10/24/2011	128	3.62	153.21	112.02
10/22/2012	119	0.93	155.9	112.02
10/28/2013	140	6.1	150.73	112.04
10/20/2014	118	7.15	149.68	112.04
10/26/2015	118	4.8	152.03	112.03
10/24/2016	127	8.5	148.33	112.2
10/25/2017	303	8.55	148.28	112.18
10/1/2018	146	8.72	148.11	112.2
10/28/2019	140	2.21	154.62	112.21
10/26/2020	122	6.27	150.56	112.03
MW-401B				
10/28/2009	520	6.6	150.72	23.2
10/20/2010	514	6.82	150.5	23.1
10/24/2011	319	6.63	150.69	23.12
10/22/2012	310	6.35	150.97	23.13
10/28/2013	376	7.2	150.12	23.11
10/20/2014	336	7.14	150.18	23.12
10/26/2015	335	6.97	150.35	23.1
10/24/2016	355	7.34	149.98	23.1
10/25/2017	375	8.25	149.07	23.14
10/1/2018	363	7.9	149.42	23.14
10/28/2019	327	6.2	151.12	23.14
10/26/2020	296	7.1	150.22	23.13
MW-402A				
10/28/2009	183	F1		108.45
10/20/2010	197	F1		108.35
10/26/2011	130	0	152.2	108.35
10/24/2012	116	F1		108.35
10/30/2013	141	0	152.2	108.35
10/22/2014	58	0.25	151.95	108.3
10/28/2015	117	0.04	152.16	108.28
10/26/2016	126	0.46	151.74	108.28
10/26/2017	122	0.05	152.15	108.28

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(MW-402A)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/3/2018	136	0.45	151.75	108.3
10/30/2019	128	0.05	152.69	108.35
10/28/2020	112	F1		108.55

MW-402B

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/28/2009	215	2.98	149.76	25.26
10/20/2010	246	3.4	149.34	25.18
10/26/2011	160	2.95	149.79	25.18
10/24/2012	141	2.9	149.84	25.2
10/30/2013	174	3.8	148.94	25.18
10/22/2014	147	3.87	148.87	25.13
10/28/2015	142	3.25	149.49	25.16
10/26/2016	150	5.21	147.53	25.15
10/26/2017	147	4.58	148.16	25.16
10/3/2018	162	5.82	146.92	25.16
10/30/2019	151	2.65	149.55	25.14
10/28/2020	131	3.92	148.82	25.2

MW09-901

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/19/2010	300	9.25	155.85	22.75
10/23/2012	197	8.8	156.3	22.73
10/29/2013	195	10.63	154.47	22.8
10/21/2014	266	9.7	155.4	22.8
10/27/2015	318	9.48	155.62	22.82
10/25/2016	353	10.5	154.6	22.82
10/24/2017	392	11.92	153.18	22.8
10/2/2018	390	11	154.1	22.82
10/29/2019	333	5.89	159.21	22.82
10/27/2020	341	8.15	156.95	22.81

P-04-02R

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/28/2015	700	11.8	158.92	37.98
10/26/2016	629	12.81	157.91	37.96
10/25/2017	481	13.5	155.24	38
10/3/2018	456	13.25	155.49	38
10/30/2019	331	11.5	159.22	38
10/28/2020	284	13.18	157.54	37.88

P-04-04

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/27/2009	175	7.96	161.39	32.21
10/20/2010	177	9	160.35	32.25
10/26/2011	181	9.3	160.05	32.3
10/24/2012	158	8.9	160.45	32.33
10/30/2013	194	10.01	159.24	32.26
10/22/2014	165	9.35	159.9	32.28
10/28/2015	161	9.06	160.19	32.31
10/26/2016	184	10.53	158.72	32.3
10/25/2017	189	10.8	158.45	32.34
10/3/2018	196	10.92	158.33	32.34
10/30/2019	187	9.2	160.05	32.34
10/28/2020	167	10.8	158.45	37.1

(P-201A) Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
P-201A				
5/19/2008		1.65	147.9	
7/30/2008		0	149.55	
10/29/2008	123	F1		
10/27/2009	328	F1		70.25
10/19/2010	287	2.46	147.09	Q
10/25/2011	131	1.92	147.63	21.84
10/23/2012	118	1.8	147.75	7.5 Q
10/30/2013	232	2.65	146.9	22.95
10/21/2014	78	2.99	146.56	Q
11/6/2014		2.28	147.27	
10/28/2015	119	2.45	147.1	21.62
10/25/2016	85	3.18	146.37	21.62
10/26/2017	73	2.72	146.83	21.62
10/2/2018	187	3.4	146.15	21.62
10/29/2019	176	1.99	147.56	21.62
10/27/2020	186	2.86	146.69	22.48
P-201B				
5/19/2008		0	152.18	
7/30/2008		2.8	149.38	
10/29/2008	146			
10/27/2009	195	F1		68.1
10/19/2010	248	F1		67.92
10/25/2011	150	0.05	152.13	68.1
10/23/2012	120	F1		71.1
10/30/2013	147	0	152.18	69.3
10/21/2014	124	F1		70.7
11/6/2014		0.62	151.56	
10/28/2015	77	F1		70.7
10/25/2016	158	F1		70.12
10/26/2017	104	F1		70.12
10/2/2018	138	F1		70.12
10/29/2019	148	0.19	151.99	70.12
10/27/2020	116	2.66	149.52	73.97
P-201C				
5/19/2008		0	152.19	
7/30/2008		1.68	150.51	
10/29/2008	136			
10/27/2009	209	2.45	149.74	49.45
10/19/2010	235	2.29	149.9	49.4
10/25/2011	147	2.25	149.94	49.53
10/23/2012	121	F1		42.85
10/30/2013	264	2.2	149.99	68.15
10/21/2014	150	3.76	148.43	67.82
11/6/2014		F1		
10/28/2015	150	0.77	151.42	67.82
10/25/2016	160	2.4	149.79	67.82
10/26/2017	123	2.18	150.01	67.82

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(P-201C)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/2/2018	156	5.65	146.54	67.82
10/29/2019	150	2.62	149.57	67.82
10/27/2020	141	4.39	147.8	68.05

P-201D

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		0.35	150.98	
7/30/2008		0.2	151.13	
10/29/2008	127			
10/27/2009	325	0.05	151.28	43.15
10/19/2010	220	0.7	150.63	42.4
10/25/2011	143	F1		43.02
10/23/2012	128	3.1	148.23	49.46
10/30/2013	279	2.57	148.76	49.8
10/21/2014	153	3.02	148.31	49.42
11/6/2014		2.14	149.19	
10/28/2015	142	2.15	149.18	49.42
10/25/2016	164	3.57	147.76	49.42
10/26/2017	122	3.05	148.28	49.42
10/2/2018	157	3.75	147.58	49.92
10/29/2019	149	2.11	149.22	49.92
10/27/2020	134	3.22	148.11	48.57

P-201E

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		0	152.26	
7/30/2008		A		
10/29/2008	249			
10/27/2009	532	2.2	150.06	Q
10/19/2010	286	F1		71.1
10/25/2011	225	F1		69.8
10/23/2012	135	F1		67.93
10/30/2013	281	1.11	151.15	44.15
10/21/2014	130	2.04	150.22	42.5
11/6/2014		F1		
10/28/2015	151	0.7	151.56	42.5
10/25/2016	164	2.39	149.87	42.5
10/26/2017	117	1.94	150.32	42.5
10/2/2018	150	2.6	149.66	42.5
10/29/2019	135	2.11	150.15	42.5
10/27/2020	122	2.02	150.24	43.1

P-202A

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		1	148.38	
7/30/2008		1.58	147.8	
10/27/2008	162			
10/27/2009	125	2.55	146.83	21.35
10/19/2010	250	3.1	146.28	21.3
10/26/2011	175	1.98	147.4	21.3
10/22/2012	171	2.1	147.28	21.3
10/28/2013	236	2.2	147.18	32.15
10/20/2014	164	3.16	146.22	21.31
11/6/2014		2.2	147.18	

SEVEE & MAHER ENGINEERS, INC.
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(P-202A)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/27/2015	179	2.25	147.13	21.31
10/26/2016	191	3.59	145.79	21.31
10/26/2017	132	2.9	146.48	21.31
10/2/2018	110	4.5	144.88	6.31
10/30/2019	89	1.94	147.44	6.31
10/28/2020	99	2.98	146.4	21.18

P-202B

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/19/2008		2	147.37	
7/30/2008		2.41	146.96	
10/27/2008	155			
10/27/2009	250	2.2	147.17	Q
10/19/2010	312	2.35	147.02	16.05
10/26/2011	212	2.9	146.47	6.05
10/22/2012	171	2.25	147.12	6.1 Q
10/28/2013	191	2.25	147.12	21.4
10/20/2014	168	2.29	147.08	6.31 Q
11/6/2014		2.75	146.62	
10/27/2015	173	2.85	146.52	6.31 Q
10/26/2016	194	2.97	146.4	6.31 Q
10/26/2017	138	3.63	145.74	6.31
10/2/2018	144	3.15	146.22	21.31
10/30/2019	116	2.29	147.08	21.31
10/28/2020	87	2.31	147.06	6.02

P-206A

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/28/2013	126	22.9	181.61	93.5
10/20/2014	128	25.7	178.81	93.48
10/26/2015	146	24.9	179.61	93.45
10/24/2016	192	28.2	176.31	93.43
10/23/2017	221	27.6	176.91	93.45
10/1/2018	234	28.4	176.11	93.43
10/28/2019	218	24.8	179.71	93.43
10/26/2020	F5	30 A6	174.51	93.15

P-209A

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/21/2008		L		
7/30/2008		L		
10/29/2008	69			
10/27/2009	93	3.85	174.94	55.95
10/19/2010	282	6.58	172.21	55.9
10/25/2011	124	F1		55.9
10/23/2012	45	F1		55.91
10/29/2013	84	9.3	169.49	56.1
10/21/2014	82	22.21	156.58	55.82
11/6/2014		3.25	175.54	
10/28/2015	70	41.2	137.59	55.82
10/25/2016	199	25.92	152.87	55.82
10/26/2017	56	22.11	156.68	55.82
10/3/2018	59	25.65	153.14	55.82
10/29/2019	89	F1		55.82

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(P-209A)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/27/2020	72	23.73	155.06	54.644

P-209B

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/21/2008		L		
7/30/2008		L		
10/29/2008	100			
10/27/2009	70	4.25	174.57	30.75
10/19/2010	240	6.85	171.97	30.71
10/25/2011	69	0.15	178.67	30.66
10/23/2012	76	F1		30.75
10/29/2013	124	9.4	169.42	30.83
10/21/2014	184	22.35	156.47	30.65
11/6/2014		4.28	174.54	
10/28/2015	125	3.62	175.2	30.65
10/25/2016	124	26.17	152.65	30.65
10/26/2017	77	22.85	155.97	30.65
10/3/2018	103	25.84	152.98	30.65
10/29/2019	85	0.12	178.7	30.65
10/27/2020	84	23.95	154.87	30.81

P-209C

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/21/2008		L		
7/30/2008		L		
10/29/2008	71			
10/27/2009	D	D		12.75
10/19/2010	D	D		12.76
10/25/2011	95	3.15	175.73	12.82
10/23/2012	55	3.2	175.68	12.75
10/29/2013	D	12.61	166.27	12.63
10/21/2014	D	D		9.82
11/6/2014		D		
10/28/2015	D	D		9.82
10/25/2016	D	D		9.82
10/26/2017	D	D		9.82
10/3/2018	D	D		9.82
10/29/2019	61	2.85	176.03	9.82
10/27/2020	D	D		9.87

P-211A

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
5/21/2008		D		
7/30/2008		5.87	177.7	
10/27/2008	73			
10/27/2009	83	5.5	178.07	25.6
10/18/2010	87	6	177.57	25.6
10/25/2011	140	5.4	178.17	25.6
10/22/2012	176	3.8	179.77	25.62
10/29/2013	215	7.4	176.17	25.63
10/21/2014	180	5.5	178.07	25.62
11/6/2014		4.21	179.36	
10/26/2015	196	4.7	178.87	25.6
10/24/2016	281	8.3	175.27	25.58

(P-211A)

Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
10/23/2017	364	8.35	175.22	25.68
10/2/2018	392	9.2	174.37	13.25
10/29/2019	437	5.3	178.27	25.43
10/28/2020	422	6.42	177.15	25.65

P-211B

Date	Specific Conductance	Water Level Depth	Water Level Elevation	Well Depth
5/21/2008		20.81	163.16	
7/30/2008		6.28	177.69	
10/27/2008	115			
10/27/2009	96	6.1	177.87	13.43
10/18/2010	101	6.4	177.57	13.42
10/25/2011	123	6.1	177.87	13.45
10/22/2012	165	4.3	179.67	13.43
10/29/2013	194	7.8	176.17	13.5
10/21/2014	249	5.7	178.27	13.44
11/6/2014		4.36	179.61	
10/26/2015	282	5.4	178.57	13.5
10/24/2016	284	7.8	176.17	13.5
10/23/2017	477	8.2	175.77	13.5
10/2/2018	506	9.15	174.82	25.65
10/29/2019	482	5.4	178.57	13.23
10/28/2020	473	6.4	177.57	13.5

P-220A

Date	Specific Conductance	Water Level Depth	Water Level Elevation	Well Depth
5/19/2008		0	147.99	
7/30/2008		F1		
10/29/2008	170			
10/27/2009	223	F1		40.9
10/18/2010	264	F1		40.95
10/26/2011	172	F1		40.91
10/22/2012	157	F1		40.82
10/28/2013	186	F1	147.99	41.02
10/20/2014	152	F1		40.8
11/6/2014		F1		
10/27/2015	187	F1		40.8
10/25/2016	189	0.37	147.62	40.8
10/26/2017	137	0.35	147.64	
10/2/2018	177	0.35	147.64	40.8
10/30/2019	F12	F12		F12
10/26/2020	A	A		A

P-220B

Date	Specific Conductance	Water Level Depth	Water Level Elevation	Well Depth
5/19/2008		0	148.05	
7/30/2008		F1		
10/29/2008	157			
10/27/2009	239	F1		22.85
10/18/2010	309	F1		22.85
10/26/2011	202	F1		22.82
10/22/2012	233	F1		22.85
10/28/2013	205	F1	148.05	22.88
10/20/2014	154	F1		22.8

(P-220B) Date	Specific Conductance µmhos/cm @25°C	Water Level Depth Feet	Water Level Elevation Feet	Well Depth Feet
11/6/2014		F1		
10/27/2015	201	F1		22.78
10/25/2016	181	0.63	147.42	22.78
10/26/2017	134	0.57	147.48	
10/2/2018	110	0.47	147.58	22.78
10/30/2019	F12	F12		F12
10/26/2020	A	A		A

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Concentration Qualifier Notes:

- ! - The sampling location was damaged or destroyed.
- A - The sampling location was Inaccessible
- A6 - Approximate value.
- D - The sampling location was dry.
- F1 - Well was flowing
- F12 - Pipe under water, no sample taken.
- F5 - Water level not high enough to pump.
- L - Could not locate sampling location.
- Q - An obstruction prevented the collection of data.

APPENDIX D

2020 AND HISTORICAL WATER QUALITY DATA

SME
SEVEE & MAHER
ENGINEERS

SUMMARY REPORT

Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
DP-4														
4/25/2011	XX	GWXXXX4AD	277	6.4	12.2	169.37	155.47	13.9	282	1			70	2.5
7/18/2011	XX	GWXXXX4EB	282	6.4	18.2	169.37	155.02	14.35	233	1			95	0.6
10/24/2011	XX	GWXXXX4I6	256	6.7	13.8	169.37	152.42	16.95	312	0.8		27.06	70	1.6
4/25/2012	XX	GWXXXX52G	334	6.3	9.1	169.37	155.27	14.1	232	1			120	5.9
7/25/2012	XX	GWXXXX57F	313	6.2	13.8	169.37	154.07	15.3	25	0.6			120	3.7
10/24/2012	XX	GWXXXX5E6	302	7.3	9.4	169.37	155.29	14.08	221	1		27.06	100	7.9
4/24/2013	XX	GWXXXX5IH	293	6.5	7.2	169.37	154.99	14.38	240	1			70	10
10/30/2013	XX	GWDP4X689	273	5.8	10.7	169.37	154.47	14.9	217	0.8		27.06	70	3.9
10/21/2014	XX	GWDP4X72C	239	6.7	13.1	169.37	154.72	14.65	343	0.8		27.05	75	0.6
10/28/2015	XX	GWDP4X7J6	278	6.6	10.5	169.37	154.8	14.57	257	0.9		27.05		3
10/26/2016	XX	GWDP4X908	267	6.5	10.2	169.37	154.37	15	296	0.6		27.1		7
10/23/2017	XX	GWDP4X9I7	201	6.2	14.3	169.37	152.35	17.02	284	0.4		22.17		5.5
10/3/2018	XX	GWDP4XB25	214	6.3	12.3	169.37	154.12	15.25	285	1.4		27.16		4.7
10/28/2019	XX	GWDP4XBJ5	272	6.5	10.7	169.37	154.46	14.91	236	0.5		27.1		14.9
10/26/2020	XX	GWDP4XD49	249	6.4	11.8	169.37	154.27	15.1	315	0.6		27.12		12.5
LF-COMP														
5/25/2011	XX	LFCMPX4FE	405	6.8	23.3				352	5			100	0.07
6/20/2011	XX	LFCMPX4G5	370	7	23.8				376	5			125	1
7/19/2011	XX	LFXXXX4F1	368	6.8	24.7				404	4			113	0
8/3/2011	XX	LFCMPX4JF	223	7.1	22.7				337	5			90	129.3
10/8/2011	XX	LFCMPX4J4	371	7.1	24.8				370	6			80	0.6
11/30/2011	XX	LFCMPX50I	351	7.1	20				382				90	24.9
12/29/2011	XX	LFCMPX506	362	7.4	17.2				341	6			125	1.1
1/26/2012	XX	LFCMPX58I	381	7.5	17				372	6			140	1.05
2/24/2012	XX	LFCMPX599	366	7.5	13.7				371	5			145	0.91
3/23/2012	XX	LFCMPX5A0	I	I	I				I	I			I	I
4/16/2012	XX	LFCMPX5AB	I	I	I				I	I			I	I
4/24/2012	XX	LFXXXX53B	314	7.2	17.8				403	6			85	4.4
5/3/2012	XX	LFCMPX5B2	400	7	18.7				446	6			140	11.82
6/29/2012	XX	LFCMPX5BD	394	6.9	22.5				444	5			125	0.07
7/31/2012	XX	LFCMPX5C4	389	7.3	29.7				383	8			150	0.33
8/31/2012	XX	LFCMPX5F5	421	6.9	22.1				384	6			150	0.27
9/27/2012	XX	LFCMPX5FG	373	7.3	21.2				348	8			150	0.14
11/13/2012	XX	LFCMPX5G7	307	7.6	17.7				355	6			135	3.91
12/31/2012	XX	LFCMPX5GI	306	7.7	11.4				406	8			130	5.27
1/30/2013	XX	LFCMPX60E	239	7.1	15.1				426	7			100	9.85
2/15/2013	XX	LFCMPX602	306	7.5	13.5				407	6			145	3.75
3/28/2013	XX	LFCMPX617	294	8	16.7				333	8			170	0.74
4/24/2013	XX	LFCMPX61J	262	7.1	15.9				347	6			160	0.39
5/30/2013	XX	LFCMPX62B	271	7.3	20.4				331	8			160	0.4
6/26/2013	XX	LFCMPX633	311	7.8	20.2				397	8			150	1.48
8/20/2013	XX	LFCMPX69D	397	7.1	25.3				383	6			150	0.44
9/26/2013	XX	LFCMPX691	384	8.1	18.3				399	8			125	0.72
11/25/2013	XX	LFCMPX6A6	370	8.4	7.2				371	8			160	0.32
12/17/2013	XX	LFCMPX6D6	359	7.5	8.9				433	8			185	5.86
1/24/2014	XX	LFCMPX6DI	360	7.4	7.2				342	8			170	2.17
2/24/2014	XX	LFCMPX6HF	387	7.5	11.4				397	9 E2			200	1.46

(LF-COMP)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
3/27/2014	XX	LFCMPX6H3	383	8.1	13.7				334	8			200	2.22
4/29/2014	XX	LFCMPX6I7	354	7.9	17.5				333	8			180	0.76
5/23/2014	XX	LFCMPX716	390	7.7	21.5				355	8			200	0.63
6/24/2014	XX	LFCMPX71I	442	7.2	21.6				370	6			190	0.74
8/26/2014	XX	LFCMPX74I	M7	M7	M7				M7	M7			M7	M7
9/23/2014	XX	LFCMPX759	449	7.6	23.1				345				165	0.09
11/28/2014	XX	LFCMPX761	366	7.3	15.6				366	6			150	M
12/24/2014	XX	LFCMPX76E	398	7	17.3				438	6			150	0.89
2/3/2015	XX	LFCMPX775	383	7.4	14.3				386	5			185	0.03
2/21/2015	XX	LFCMPX77G	321	7.5	17.7				369	4.5			185	0.63
3/28/2015	XX	LFCMPX7AE	372	7.3	15.8				409	6			150	0.65
9/26/2015	XX	LFCMPX809	314	6.7	21.4				380	8			160	0.5
8/29/2016	XX	LFCMPX90J	454	6.9	24.6				337	8			220	2.9
9/23/2016	XX	LFCMPX93I	458	7.52	19				304	9			230	2.1
10/31/2016	XX	LFCMPX94C	426	8.21	14.3				314	8			125	0.4
11/29/2016	XX	LFCMPX957	218	7.39	12.3				357	6			150	0.9
12/13/2016	XX	LFCMPX960	196	8.06	5.6				345	10			140	1
1/10/2017	XX	LFCMPX99J	223	7.77	15.1				373	8			145	0.4
2/8/2017	XX	LFCMPX9AC	311	7.71	14.2				358	9			125	0.4
3/3/2017	XX	LFCMPX9B5	194	7.74	16				352	7			130	0.5
4/5/2017	XX	LFCMPX996	206	7.95	18.7				349	8			105	3.6
7/31/2017	XX	LFCMPX9FC	468	7.3	23.9				391	6			250	0.8
9/28/2017	XX	LFCMPX9JE	492	7.4	18.9				360	8			240	7.1
10/26/2017	XX	LFCMPXA06	473	6.9	17.7				414	6			160	1.3
4/28/2018	XX	LFCMPXAAH	395	7.8	16.2				384	8			150	0.3
6/2/2018	XX	LFCMPXAE1	433	8	19.7				365	7			130	0.3
7/2/2018	XX	LFCMPXAJ1	483	8	22.4				367	7			180	0.2
8/17/2018	XX	LFCMPXAJ2	498	7	22.8				355	7			200	5.6
9/1/2018	XX	LFCMPXB28	485	7.8	19.9				376	7			200	4.8
10/13/2018	XX	LFCMPXB32	481	7	14.9				374	7			190	1.7
11/2/2018	XX	LFCMPXB3G	399	7.1	11.3				361	7			150	2.8
12/7/2018	XX	LFCMPXB7F	309	8	8.4				374	7			175	1.1
1/3/2019	XX	LFCMPXB89	446	6.7	4.9				373	8			150	2
2/2/2019	XX	LFCMPXB93	409	7.5	3.2				410	8			200	7
3/2/2019	XX	LFCMPXB9H	423	7	5				372	7			200	2.2
4/5/2019	XX	LFCMPXBAB	382	8.2	12.9				354	8			155	1.9
5/10/2019	XX	LFCMPXBE3	344	7	14.4				321	7			160	3.7
6/24/2019	XX	LFCMPXBEH	395	7.5	17.1				364	8			200	0.5
7/30/2019	XX	LFCMPXBFB	410	8	20.6				337	8			210	2.5
8/20/2019	XX	LFCMPXBG5	376	7.6	25.3				357	6			180	0.3
9/20/2019	XX	LFCMPXBJI	453	7.2	21.5				370	6			200	0.2
10/14/2019	XX	LFCMPXC0C	410	7.8	18.9				339	6			200	0.3
11/27/2019	XX	LFCMPXC16	353	7.7	20				384	8			190	1.1
12/23/2019	XX	LFCMPXC2G	394	7.9	12.7				353	8			135	0.3
1/17/2020	XX	LFCMPXC3B	374	8.2	11.6				377	10			175	2.4
2/4/2020	XX	LFCMPXC46	378	8.3	12.4				337	10			175	0.2
3/27/2020	XX	LFCMPXCF3	328	7.3	11.7				415	6			200	0.4
4/29/2020	XX	LFCMPXCFH	380	8.2	16.9				334	6			200	0.4
5/27/2020	XX	LFCMPXCJG	438	7.2	18.4				346	6			200	0.2
6/28/2020	XX	LFCMPXD0A	401	7.3	21.9				338	5			210	2.8

(LF-COMP)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/11/2020	XX	LFCMPXD14	429	7.1	20.7				361	5			250	1.1
8/3/2020	XX	LFCMPXD52	485	7	21.5				374	6			250	0.6
9/27/2020	XX	LFCMPXD5I	402	7.2	17.7				409	6			250	14.2
10/31/2020	XX	LFCMPXD6C	417	8.2	14.3				397	8			250	0.6
11/29/2020	XX	LFCMPXD76	320	7.6	15.3				410	6			175	15.6
12/13/2020	XX	LFCMPXD80	217	7	12.5				380	5			105	67.9

LF-UD-1

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LFUD1X47B	356	8	12.8				244	8	0.0006		485	0
2/24/2011	XX	LFUD1X4BG	483	7.1	13.6				310	5	0.0011		345	2.3
3/25/2011	XX	LFUD1X4C6	H2	H2	H2					H2	H2		H2	H2
4/26/2011	XX	LFUD1X4A2	331	7.4	15.4				360	5	0.0022		240	0.5
5/25/2011	XX	LFUD1X4F5	H2	H2	H2				H2	H2	H2		H2	H2
6/20/2011	XX	LFUD1X4FG	H2	H2	H2				H2	H2	H2		H2	H2
7/19/2011	XX	LFUD1X4E0	347	6.7	24.4				290	4	0.0022		125	0
8/3/2011	XX	LFUD1X4J6	H2	H2	H2				H2	H2	H2		H2	H2
10/8/2011	XX	LFUD1X4IE	353	7	23.7				375	6	0.0006		100	0.1
10/25/2011	XX	LFUD1X4HF	368	6.8	17.7				311	6	0.0006		200	4.5
11/30/2011	XX	LFUD1X509	349	7.6	17.6				361	5	0.0006		115	0.56
12/29/2011	XX	LFUD1X4JH	337	8	14.2				324	6	0.0011		115	0.1
1/26/2012	XX	LFUD1X589	173	7.5	13.7				371	8	0.0006		150	2.03
2/24/2012	XX	LFUD1X591	382	7.4	15.3				371	5	0.0006		150	2.23
3/23/2012	XX	LFUD1X59C	349	7.2	16.7				399	6	0.0003		150	0.22
4/16/2012	XX	LFUD1X5A3	359	7	17.3				387	6	0.0006		150	0.04
4/24/2012	XX	LFUD1X525	H2	H2	H2				H2	H2	H2		H2	H2
5/3/2012	XX	LFUD1X5AE	364	7	16.7				438	8	0.0006		150	0.79
6/29/2012	XX	LFUD1X5B5	338	6.6	21.4				427	6	0.0006		125	0.64
7/24/2012	XX	LFUD1X574	355	6.5	20.4				316	6	0.0022		200	1.8
7/31/2012	XX	LFUD1X5BG	375	7.1	24.1				341	8	0.0003		160	0.17
8/31/2012	XX	LFUD1X5EH	384	6.7	21.1				343	5	0.0003		135	0.32
9/27/2012	XX	LFUD1X5F8	317	8.1	18.6				375	6	0.0003		125	0.01
10/23/2012	XX	LFUD1X5DF	F6	F6	F6				F6	F6	F6		F6	F6
11/13/2012	XX	LFUD1X5FJ	288	8	14.8				362	6			135	0.87
12/31/2012	XX	LFUD1X5GA	290	7.7	10.6				409	8			120	0.72
1/30/2013	XX	LFUD1X606	295	7.1	13.3				380	6	0.0002		125	0.65
2/15/2013	XX	LFUD1X5JE	298	7.5	10				404	6	0.0002		145	0.7
3/28/2013	XX	LFUD1X60J	291	8.1	14.1				359	8	0.0002		150	0.41
4/23/2013	XX	LFUD1X5I6	358	7.5	16.1				270	5	0.0022		100	1.1
4/24/2013	XX	LFUD1X61B	230	7.1	14.6				331	8	0.0002		150	0.28
5/30/2013	XX	LFUD1X623	240	7.5	25.9				342	8	0.0003		125	0.16
6/26/2013	XX	LFUD1X62F	308	7.8	19.5				366	8	0.0003		175	0.81
7/30/2013	XX	LFUD1X64B	362	6.8	21.5				262	6	0.0022		100	0.9
8/20/2013	XX	LFUD1X695	348	7	23.6				388	6	0.0001		125	0.75
9/26/2013	XX	LFUD1X68D	334	7.9	18.1				420	8	0.0003		125	0.65
10/29/2013	XX	LFUD1X674	F6	F6	F6				F6	F6	F6		F6	F6
11/25/2013	XX	LFUD1X69I	H8	H8	H8				H8	H8	H8		H8	H8
12/17/2013	XX	LFUD1X6CI	317	7.5	8.8				334	10	0.0002		160	3.52
1/24/2014	XX	LFUD1X6DA	325	8	6.2				284	10	0.0003		150	1.3
2/24/2014	XX	LFUD1X6H7	355	7.3	9.1				400	10	0.0003		160	0.96
3/27/2014	XX	LFUD1X6GF	311	8.2	8.2				362	10	0.0004		175	3.15

(LF-UD-1)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/22/2014	XX	LFUD1X6F7	388	6.9	13.2				524	5	0.0017		120	2.2
4/29/2014	XX	LFUD1X6HJ	310	8.1	15.7				324	10	0.0006		175	1.78
5/23/2014	XX	LFUD1X70I	350	7.4	20				357	10	0.0003		175	0.4
6/24/2014	XX	LFUD1X71A	369	7	20.6				371	8	0.0004		170	0.27
7/29/2014	XX	LFUD1X6JE	368	7	21				337	5	0.0022		40	8.1
8/26/2014	XX	LFUD1X74A	366	7.2	23.1				385	7	0.0006		175	0.29
9/23/2014	XX	LFUD1X751	360	7.6	22.6				353		0.0001		160	0.05
10/21/2014	XX	LFUD1X735	F6	F6	F6				F6	F6	F6		F6	F6
11/28/2014	XX	LFUD1X75D	341	7	15.8				383	7	0.0006		160	M
12/24/2014	XX	LFUD1X766	337	6.9	16.1				413	7	0.0007		150	0.28
2/3/2015	XX	LFUD1X76H	329	7.9	13.8				384	5.5	0.0006		140	0.46
2/21/2015	XX	LFUD1X778	267	7.6	17.9				377	5.5	0.0003		150	0.3
3/28/2015	XX	LFUD1X7A6	339	6.9	13.4				404	5.5	0.0003		160	0.4
4/16/2015	XX	LFUD1X7AJ	306	7.1	17.6				384	7	0.0006		150	0.83
4/28/2015	XX	LFUD1X792	401	7.4	16.6				300	6.1	0.0022			1.8
5/22/2015	XX	LFUD1X7F4	197	7.4	18.8				373	8	0.0002		150	0.5
6/22/2015	XX	LFUD1X7EC	333	7.8	23.2				326	9	0.0002		165	0.4
7/14/2015	XX	LFUD1X7CE	411	6.9	20.7				313	4.5	0.002			0.5
7/23/2015	XX	LFUD1X7FG	330	7.4	23.3				367	6	0.0002		135	0.7
8/24/2015	XX	LFUD1X7G8	354	7.1	21.1				364	8	0.0001		195	0.5
9/26/2015	XX	LFUD1X801	425	7.3	21.3				365	7	F14		200	0.1
10/27/2015	XX	LFUD1X7I3	F6	F6	F6				F6	F6	F6			F6
10/31/2015	XX	LFUD1X80D	378	8.1	16.1				339	8	0.0002		170	0.6
11/27/2015	XX	LFUD1X815	326	6.8	15.2				376	9	0.0002		185	0.2
12/30/2015	XX	LFUD1X81I	332	7.2	11.2				362	9	0.0002		180	0.7
1/14/2016	XX	LFUD1X82A	347	6.9	9.2				338	7	0.0002		180	1.2
2/18/2016	XX	LFUD1X882	338	8	10.6				357	8	0.0003		170	0.1
3/17/2016	XX	LFUD1X88E	341	6.8	13.3				342	9	0.0003		180	0.7
4/5/2016	XX	LFUD1X86D	404	8.1	15.1				342	6.7	0.0022			0.8
4/21/2016	XX	LFUD1X896	344	6.8	15.8				297	8	0.0004		145	0.5
5/26/2016	XX	LFUD1X8CC	341	7.6	17.7				309	8	0.0002		175	0.2
6/27/2016	XX	LFUD1X8DG	382	6.7	20.6				433	8	0.0007		175	0.9
7/20/2016	XX	LFUD1X8F0	330	7.1	22.1				328	7	0.00006		175	0.4
7/26/2016	XX	LFUD1X8B3	I	I	I				I	I	I			I
8/29/2016	XX	LFUD1X90B	F6	F6	F6				F6	F6	F6			F6
9/23/2016	XX	LFUD1X93A	F6	F6	F6				F6	F6	F6			F6
10/25/2016	XX	LFUD1X8J2	F6	F6	F6				F6	F6	F6			F6
10/31/2016	XX	LFUD1X944	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFUD1X94J	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2016	XX	LFUD1X95C	H8	H8	H8				H8	H8	H8		H8	H8
1/10/2017	XX	LFUD1X99B	H8	H8	H8				H8	H8	H8		H8	H8
2/8/2017	XX	LFUD1X9A4	H8	H8	H8				H8	H8	H8		H8	H8
3/3/2017	XX	LFUD1X9AH	H8	H8	H8				H8	H8	H8		H8	H8
4/5/2017	XX	LFUD1X98I	H8	H8	H8				H8	H8	H8		H8	H8
4/18/2017	XX	LFUD1X978	378	7.3	14				322	8.2	0.0006			0.8
5/25/2017	XX	LFUD1X9BA	342	7.12	16.7				425	8	0.0003		125	0.2
6/16/2017	XX	LFUD1X9EB	380	7.8	16.4				356	8	0.0003		195	0.4
7/25/2017	XX	LFUD1X9D6	423	8.1	20				312	5.9	0.0006			0.5
7/31/2017	XX	LFUD1X9F4	H8	H8	H8				H8	H8	H8		H8	H8
8/31/2017	XX	LFUD1X9IE	479	6.9	20.2				386	7	0.0002		180	0.3

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-1)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/28/2017	XX	LFUD1X9J6	H8	H8	H8				H8	H8	H8		H8	H8
10/25/2017	XX	LFUD1X9H1	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFUD1X9JI	H8	H8	H8				H8	H8	H8		H8	H8
11/30/2017	XX	LFUD1XA0A	444	7.3	11.8				401	6	0.00014		175	0.3
12/27/2017	XX	LFUD1XA13	424	7.2	10.9				422	8	0.0003		200	0.4
1/19/2018	XX	LFUD1XA49	437	7.8	6.8				408	10	0.00007		200	0.5
2/22/2018	XX	LFUD1XA52	384	7.2	6				389	10	0.00006		150	7.6
3/24/2018	XX	LFUD1XA8I	374	7.4	8.4				428	8	0.00007		145	1.3
4/3/2018	XX	LFUD1XA30	418	7.8	9				472	11	0.00167			1.1
4/28/2018	XX	LFUD1XA9B	352	8	15.6				370	10	0.00019		125	0.5
5/11/2018	XX	LFUD1XAA4	378	7.6	14.3				434	7	0.00019		125	0.1
6/2/2018	XX	LFUD1XAD8	370	8	18.2				363	8	0.00014		150	1.1
7/2/2018	XX	LFUD1XAI8	397	7.9	20.2				355	7	0.00002		160	0.9
7/17/2018	XX	LFUD1XAC1	F6	F6	F6				F6	F6	F6		F6	F6
8/17/2018	XX	LFUD1XAJ3	H8	H8	H8				H8	H8	H8		H8	H8
9/1/2018	XX	LFUD1XB29	H8	H8	H8				H8	H8	H8		H8	H8
10/2/2018	XX	LFUD1XB0J	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFUD1XB33	H8	H8	H8				H8	H8	H8		H8	H8
11/2/2018	XX	LFUD1XB3H	H8	H8	H8				H8	H8	H8		H8	H8
12/7/2018	XX	LFUD1XB7G	H8	H8	H8				H8	H8			H8	H8
1/3/2019	XX	LFUD1XB8A	H8	H8	H8				H8	H8			H8	H8
2/2/2019	XX	LFUD1XB94	H8	H8	H8				H8	H8			H8	H8
3/2/2019	XX	LFUD1XB9I	H8	H8	H8				H8	H8			H8	H8
4/5/2019	XX	LFUD1XBAC	H8	H8	H8				H8	H8	H8		H8	H8
4/23/2019	XX	LFUD1XB5G	354	7	6.9				341	7.6	0.0006			0.4
5/10/2019	XX	LFUD1XBE4	H8	H8	H8				H8	H8	H8			H8
6/24/2019	XX	LFUD1XBEI	H8	H8	H8				H8	H8	H8			H8
7/16/2019	XX	LFUD1XBC8	F6	F6	F6				F6	F6	F6			F6
7/30/2019	XX	LFUD1XBFC	H8	H8	H8				H8	H8	H8			H8
8/20/2019	XX	LFUD1XBG6	H8	H8	H8				H8	H8	H8			H8
9/20/2019	XX	LFUD1XBJJ	H8	H8	H8				H8	H8	H8			H8
10/14/2019	XX	LFUD1XC0D	H8	H8	H8				H8	H8	H8			H8
10/29/2019	XX	LFUD1XBI1	F6	F6	F6				F6	F6	F6			F6
11/27/2019	XX	LFUD1XC17	H8	H8	H8				H8	H8	H8			H8
12/23/2019	XX	LFUD1XC2H	355	8.4	12.4				352	8	0.0006		120	0.6
1/17/2020	XX	LFUD1XC3C	H8	H8	H8				H8	H8	H8		H8	H8
2/4/2020	XX	LFUD1XC47	H8	H8	H8				H8	H8	H8		H8	H8
3/27/2020	XX	LFUD1XCF4	H8	H8	H8				H8	H8	H8		H8	H8
4/28/2020	XX	LFUD1XCD8	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFUD1XCFI	H8	H8	H8				H8	H8	H8		H8	H8
5/27/2020	XX	LFUD1XCJH	H8	H8	H8				H8	H8	H8		H8	H8
6/28/2020	XX	LFUD1XD0B	H8	H8	H8				H8	H8	H8		H8	H8
7/11/2020	XX	LFUD1XD15	H8	H8	H8				H8	H8	H8		H8	H8
7/21/2020	XX	LFUD1XCI1	F6	F6	F6				F6	F6	F6		F6	F6
8/3/2020	XX	LFUD1XD53	H8	H8	H8				H8	H8	H8		H8	H8
9/27/2020	XX	LFUD1XD5J	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2020	XX	LFUD1XD35	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2020	XX	LFUD1XD6D	H8	H8	H8				H8	H8	H8		H8	H8
11/29/2020	XX	LFUD1XD77	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2020	XX	LFUD1XD81	H8	H8	H8				H8	H8	H8		H8	H8

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-2)

LF-UD-2

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LFUD2X47C	286	8	12				251	6	0.0011		350	0
2/24/2011	XX	LFUD2X4BH	328	7.6	16.1				321	6	0.0033		260	0
3/25/2011	XX	LFUD2X4C7	H2	H2	H2					H2	H2		H2	H2
4/26/2011	XX	LFUD2X4A3	273	7.7	17.2				325	5	0.0056		35	0.8
5/25/2011	XX	LFUD2X4F6	H2	H2	H2				H2	H2	H2		H2	H2
6/20/2011	XX	LFUD2X4FH	H2	H2	H2				H2	H2	H2		H2	H2
7/19/2011	XX	LFUD2X4E1	277	7.4	23.2				269	5	0.0045		100	0
8/3/2011	XX	LFUD2X4J7	H2	H2	H2				H2	H2	H2		H2	H2
10/8/2011	XX	LFUD2X4IF	291	7.4	24.5				364	6	0.0022		100	0.1
10/25/2011	XX	LFUD2X4HG	302	6.4	18.3				329	6	0.0045		120	2.7
11/30/2011	XX	LFUD2X50A	288	8	19.2				345		0.0022		100	0.27
12/29/2011	XX	LFUD2X4JI	288	8.2	16.3				318	9	0.0022		110	0.2
1/26/2012	XX	LFUD2X58A	297	8	16.8				357	8	0.0011		115	0.37
2/24/2012	XX	LFUD2X592	310	7.3	16.8				273	4	0.0011		130	0.82
3/23/2012	XX	LFUD2X59D	302	7.25	17.9				393	5	0.0011		125	0.26
4/16/2012	XX	LFUD2X5A4	311	7	20.9				391	6	0.0011		130	0.18
4/24/2012	XX	LFUD2X526	H2	H2	H2				H2	H2	H2		H2	H2
5/3/2012	XX	LFUD2X5AF	318	6.9	18.5				458	6	0.0011		115	0.1
6/29/2012	XX	LFUD2X5B6	305	6.8	22.8				444	6	0.0011		100	0.21
7/24/2012	XX	LFUD2X575	316	6.8	22.6				495	5	0.0056		225	1.5
7/31/2012	XX	LFUD2X5BH	345	7.1	28.4				364	8	0.0011		120	0.01
8/31/2012	XX	LFUD2X5EI	368	6.8	22.6				349	6	0.0011		125	0
9/27/2012	XX	LFUD2X5F9	321	8.1	21.3				360	6	0.0006		150	0.01
10/23/2012	XX	LFUD2X5DG	307	7.1	14.3				518	5	0.0045		100	1.2
11/13/2012	XX	LFUD2X5G0	276	8	17.5				346	6	0.0011		115	0.63
12/31/2012	XX	LFUD2X5GB	293	7.7	13.7				399	6	0.0003		115	0.72
1/30/2013	XX	LFUD2X607	186	7	16.4				404	6	0.0022		85	4.1
2/15/2013	XX	LFUD2X5JF	277	7.7	14.3				407	6	0.0022		135	0.04
3/28/2013	XX	LFUD2X610	284	8.2	18.2				352	8	0.0006		140	0.35
4/23/2013	XX	LFUD2X5I7	304	7.4	18.3				285	6	0.0045		90	1
4/24/2013	XX	LFUD2X61C	229	7.1	17.8				349	8	0.0006		150	0.04
5/30/2013	XX	LFUD2X624	234	7.4	24.1				329	8	0.0011		150	0.32
6/26/2013	XX	LFUD2X62G	298	8	21.2				366	8	0.0011		125	0.58
7/30/2013	XX	LFUD2X64C	320	7.1	22.9				196	6	0.0056		105	0.5
8/20/2013	XX	LFUD2X696	348	7	24.8				386	6	0.0011		135	0.27
9/26/2013	XX	LFUD2X68E	338	8.2	20				398	8	0.0022		120	0.63
10/29/2013	XX	LFUD2X675	404	7.3	17.3				260	6	0.0022		120	0.5
11/25/2013	XX	LFUD2X69J	332	8.4	13.4				343	8	0.0011		125	1.48
12/17/2013	XX	LFUD2X6CJ	327	7.4	9.1				366	8	0.0003		150	0.46
1/24/2014	XX	LFUD2X6DB	328	7.3	8.7				307	8	0.0013		130	3.26
2/24/2014	XX	LFUD2X6H8	363	7.5	13.3				387	8	0.0011		155	0.52
3/27/2014	XX	LFUD2X6GG	342	8.4	13.5				346	8	0.0011		175	3.43
4/22/2014	XX	LFUD2X6F8	353	7.2	12.5				514	5	0.0033		110	2.6
4/29/2014	XX	LFUD2X6I0	326	8.3	18.3				320	8	0.0011		170	0.3
5/23/2014	XX	LFUD2X70J	368	7.4	22.1				357	8	0.0011		160	0.3
6/24/2014	XX	LFUD2X71B	391	7.1	22.5				365	7	0.0022		145	0.28
7/29/2014	XX	LFUD2X6JF	361	7.6	21.5				300	6	0.0045		40	2.6
8/26/2014	XX	LFUD2X74B	417	7.2	23.1				386	6	0.0017		185	0.37

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(LF-UD-2)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/23/2014	XX	LFUD2X752	411	8	23.1				345		0.0011		175	0
10/21/2014	XX	LFUD2X736	382	7.4	14.4				304	5	0.0022		70	0.4
11/28/2014	XX	LFUD2X75E	382	7.2	14.7				369	5.5	0.0004		155	M
12/24/2014	XX	LFUD2X767	384	6.9	17.7				431	5	0.0022		125	0.16
2/3/2015	XX	LFUD2X76I	368	8.1	16.1				370	7	0.0022		160	0
2/21/2015	XX	LFUD2X779	306	7.4	18				376	4	0.0022		150	0.46
3/28/2015	XX	LFUD2X7A7	397	6.8	15.1				409	5	0.0022		150	0.29
4/16/2015	XX	LFUD2X7B0	360	7.1	19.2				385	5.5	0.0028		170	0.84
4/28/2015	XX	LFUD2X793	398	7.1	16.4				340	6.8	0.0033			1.1
5/22/2015	XX	LFUD2X7F5	314	7.8	20.4				367	9	0.0017		170	0.5
6/22/2015	XX	LFUD2X7ED	386	8	26.4				284	8	0.0017		140	0.2
7/14/2015	XX	LFUD2X7CF	397	6.9	21.4				303	4.7	0.0033			0.3
7/23/2015	XX	LFUD2X7FH	405	7.2	24.8				375	8	0.0006		175	0.1
8/24/2015	XX	LFUD2X7G9	405	6.9	20.8				372	7	0.0017		160	0.3
9/26/2015	XX	LFUD2X802	411	7.1	21.8				367	7	0.0017		200	0.1
10/27/2015	XX	LFUD2X7I4	403	7.5	14.9				303	5.7	0.0011			0.5
10/31/2015	XX	LFUD2X80E	394	8.2	16.7				335	7	0.002		195	0.6
11/27/2015	XX	LFUD2X816	414	7	18.1				376	7	0.002		190	0.01
12/30/2015	XX	LFUD2X81J	386	7.1	14.7				363	8	0.0011		190	0.2
1/14/2016	XX	LFUD2X82B	406	6.9	11.2				347	6	0.0007		170	0.01 U
2/18/2016	XX	LFUD2X883	393	8.3	18.3				360	8	0.0011		178	0.01
3/17/2016	XX	LFUD2X88F	401	6.9	17.6				345	7	0.0015		173	0.01
4/5/2016	XX	LFUD2X86E	389	8.4	18.8				271	5.6	0.0045			0.9
4/21/2016	XX	LFUD2X897	392	6.9	21.2				239	7	0.0017		165	0.6
5/26/2016	XX	LFUD2X8CD	391	7.8	21.2				308	7	0.0011		180	0.1
6/27/2016	XX	LFUD2X8DH	420	6.8	21.9				554	7	0.0011		190	0.4
7/20/2016	XX	LFUD2X8F1	423	7	22.6				329	7	0.0011		200	0.02
7/26/2016	XX	LFUD2X8B4	447	7.4	22.2				291	4.9	0.0017			0.4
8/29/2016	XX	LFUD2X90C	449	7.02	23.8				332	7	0.0007			0.5
9/23/2016	XX	LFUD2X93B	446	8.03	19.7				298	9	0.0006			0.4
10/25/2016	XX	LFUD2X8J3	458	7.8	13.5				275	6.6	0.0011			0.8
10/31/2016	XX	LFUD2X945	395	8.3	15.1				315	8	0.0006		100	0.2
11/29/2016	XX	LFUD2X950	205	7.24	11.6				369	8	0.0001		130	0.6
12/13/2016	XX	LFUD2X95D	206	8.22	6				353	8	0.0002		125	1.5
1/10/2017	XX	LFUD2X99C	186	7.32	15.6				378	9	0.0003		135	0.4
2/8/2017	XX	LFUD2X9A5	210	8.03	15.5				354	9	0.0011		130	0.2
3/3/2017	XX	LFUD2X9AI	158	7.92	15.7				351	8	0.0002		155	0.7
4/5/2017	XX	LFUD2X98J	213	8.05	18.7				353	7	0.0017		130	0.4
4/18/2017	XX	LFUD2X979	366	8.1	14.5				314	8	0.0022			0.5
5/25/2017	XX	LFUD2X9BB	401	7.1	20.4				408	6	0.0017		150	0.3
6/16/2017	XX	LFUD2X9EC	437	8	18.6				357	7	0.0015		205	0.3
7/25/2017	XX	LFUD2X9D7	418	8.3	21.7				308	5.7	0.0022			0.3
7/31/2017	XX	LFUD2X9F5	334	7	23.6				394	6	0.0011		190	0.3
8/31/2017	XX	LFUD2X9IF	464	7	21.2				402	7	0.0017		245	0.2
9/28/2017	XX	LFUD2X9J7	463	8.1	20.1				355	6	0.0004		180	0.5
10/25/2017	XX	LFUD2X9H2	456	7.2	17.6				379	6.9	0.0006			2.1
10/26/2017	XX	LFUD2X9JJ	499	6.9	18.9				417	5	0.00028		240	0.8
11/30/2017	XX	LFUD2XA0B	427	7.5	13.4				409	7	0.00056		180	0.3
12/27/2017	XX	LFUD2XA14	429	6.9	12.4				426	8	0.0006		200	0.2
1/19/2018	XX	LFUD2XA4A	438	7.9	9				403	8	0.00074		175	0.9

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
2/22/2018	XX	LFUD2XA53	299	6.9	8				411	8	0.00056		115	0.2
3/24/2018	XX	LFUD2XA8J	453	8	10				427	7	0.00028		150	2.4
4/3/2018	XX	LFUD2XA31	413	7.7	11.6				465	10.2	0.00446			0.8
4/28/2018	XX	LFUD2XA9C	417	8.1	18.1				371	8	0.00074		150	0.2
5/11/2018	XX	LFUD2XAA5	446	8	17.6				420	7	0.00074		130	0.2
6/2/2018	XX	LFUD2XAD9	434	8.1	19.9				365	6	0.00074		150	0.3
7/2/2018	XX	LFUD2XAI9	480	7.9	22.3				356	6	0.0006		175	0.5
7/17/2018	XX	LFUD2XAC2	535	8.1	19				451	4.3	0.00223			0.8
8/17/2018	XX	LFUD2XAJ4	490	7	22.8				342	7	0.0002		170	0.3
9/1/2018	XX	LFUD2XB2A	451	7.8	20				365	8	0.0002		150	0.7
10/2/2018	XX	LFUD2XB10	522	7.8	14.7				443	6.1	0.00056			0.5
10/13/2018	XX	LFUD2XB34	446	6.7	14.9				361	7	0.0002		175	2.9
11/2/2018	XX	LFUD2XB3I	418	7.2	10.9				357	9	0.0002		180	1.4
12/7/2018	XX	LFUD2XB7H	315	8.2	8.6				363	6	0.0002		180	1.11
1/3/2019	XX	LFUD2XB8B	430	6.8	4.4				375	7	0.0003		135	1.6
2/2/2019	XX	LFUD2XB95	341	7.4	3				402	7	0.0002		150	5.3
3/2/2019	XX	LFUD2XB9J	362	7.1	5.1				366	6	0.0002		175	5.7
4/5/2019	XX	LFUD2XBAD	365	7.9	13.9				403	7	0.0001		150	5.9
4/23/2019	XX	LFUD2XB5H	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFUD2XBE5	307	7	15.1				311	7	0.0002		175	8.7
6/24/2019	XX	LFUD2XBEJ	380	7.4	18.4				357	8	0.0003		150	0.4
7/16/2019	XX	LFUD2XBC9	428	8.1	18.4				383	9.5	0.0011			0.4
7/30/2019	XX	LFUD2XBFD	400	8.2	20.8				334	8	0.0002		175	0.5
8/20/2019	XX	LFUD2XBG7	353	8.2	25.8				339	6	0.0001		160	0.3
9/20/2019	XX	LFUD2XC00	409	7.4	21.5				368	6	0.0017		150	0.6
10/14/2019	XX	LFUD2XC0E	342	8	19.1				339	6	0.0002		150	0.1
10/29/2019	XX	LFUD2XBI2	386	8.1	12.8				214	8.7	0.0011			2.2
11/27/2019	XX	LFUD2XC18	303	8.4	20.9				369	8	0.0002		125	0.8
12/23/2019	XX	LFUD2XC2I	H8	H8	H8				H8	H8	H8		H8	H8
1/17/2020	XX	LFUD2XC3D	339	8.5	11.6				382	10	0.0003		160	2.3
2/4/2020	XX	LFUD2XC48	369	8	13.2				348	10	0.0002		150	0.4
3/27/2020	XX	LFUD2XCF5	302	8.1	12				401	6	0.0009		175	0.4
4/28/2020	XX	LFUD2XCD9	439	7.9	7.3				327	7.9	0.0006			0.5
4/29/2020	XX	LFUD2XCFJ	354	8.1	19				333	6	0.0001		160	0.1
5/27/2020	XX	LFUD2XCJI	400	7.1	18.8				349	6	0.0001		175	0.3
6/28/2020	XX	LFUD2XD0C	347	7.8	22.1				316	5	0.0001		160	0.2
7/11/2020	XX	LFUD2XD16	363	7.3	21.4				357	6	0.0001		200	1.1
7/21/2020	XX	LFUD2XCI2	429	7.5	17.8				299	8.2	0.0006			0.8
8/3/2020	XX	LFUD2XD54	399	8	22.3				344	8	0.0001		200	0.3
9/27/2020	XX	LFUD2XD60	355	8	18.7				406	6	0.00002		250	1.1
10/27/2020	XX	LFUD2XD36	403	7.3	12				389	7.7				0.4
10/31/2020	XX	LFUD2XD6E	H8	H8	H8				H8	H8				H8
11/29/2020	XX	LFUD2XD78	H8	H8	H8				H8	H8				H8
12/13/2020	XX	LFUD2XD82	H8	H8	H8				H8	H8				H8

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LFUD3A47F	385	8.1	14.2				255	8	0.0011		475	0
2/24/2011	XX	LFUD3A4C0	453	7.3	17.8				326	6	0.0022		360	0
3/25/2011	XX	LFUD3A4CA	H2	H2	H2					H2	H2		H2	H2
4/26/2011	XX	LFXXXX4B1	370	7.9	17.4				309	5	0.0045		265	0.5

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
5/25/2011	XX	LFUD3A4F9	H2	H2	H2				H2	H2	H2		H2	H2
6/20/2011	XX	LFUD3A4G0	H2	H2	H2				H2	H2	H2		H2	H2
7/19/2011	XX	LFXXXX4EJ	H2	H2	H2				H2	H2	H2		H2	H2
8/3/2011	XX	LFUD3A4JA	H2	H2	H2				H2	H2	H2		H2	H2
10/8/2011	XX	LFUD3A4II	H8	H8	H8				H8	H8	H8		H8	H8
10/25/2011	XX	LFXXXX4IC	F6	F6	F6				F6	F6	F6		F6	F6
11/30/2011	XX	LFUD3A50D	H8	H8	H8				H8	H8	H8		H8	H8
12/29/2011	XX	LFUD3A501	H8	H8	H8				H8	H8	H8		H8	H8
1/26/2012	XX	LFXXXX58D	H8	H8	H8				H8	H8			H8	H8
2/24/2012	XX	LFXXXX595	H8	H8	H8				H8	H8			H8	H8
3/23/2012	XX	LFXXXX59G	F6	F6	F6				F6	F6			F6	F6
4/16/2012	XX	LFXXXX5A7	F6	F6	F6				F6	F6			F6	F6
4/24/2012	XX	LFXXXX534	H2	H2	H2				H2	H2			H2	H2
5/3/2012	XX	LFXXXX5AI	H8	H8	H8				H8	H8			H8	H8
6/29/2012	XX	LFXXXX5B9	H8	H8	H8				H8	H8			H8	H8
7/24/2012	XX	LFXXXX581	F6	F6	F6				F6	F6			F6	F6
7/31/2012	XX	LFXXXX5C0	H8	H8	H8				H8	H8			H8	H8
8/31/2012	XX	LFXXXX5F1	H8	H8	H8				H8	H8			H8	H8
9/27/2012	XX	LFXXXX5FC	H8	H8	H8				H8	H8			H8	H8
10/23/2012	XX	LFXXXX5EC	F6	F6	F6				F6	F6			F6	F6
11/13/2012	XX	LFXXXX5G3	H8	H8	H8				H8	H8			H8	H8
12/31/2012	XX	LFXXXX5GE	H8	H8	H8				H8	H8			H8	H8
1/30/2013	XX	LFXXXX60A	H8	H8	H8				H8	H8			H8	H8
2/15/2013	XX	LFXXXX5JI	H8	H8	H8				H8	H8			H8	H8
3/28/2013	XX	LFXXXX613	H8	H8	H8				H8	H8			H8	H8
4/23/2013	XX	LFXXXX5J5	F6	F6	F6				F6	F6			F6	F6
4/24/2013	XX	LFXXXX61F	H8	H8	H8				H8	H8			H8	H8
5/30/2013	XX	LFXXXX627	H8	H8	H8				H8	H8			H8	H8
6/26/2013	XX	LFXXXX62J	H8	H8	H8				H8	H8			H8	H8
7/30/2013	XX	LFXXXX65A	F6	F6	F6				F6	F6			F6	F6
8/20/2013	XX	LFXXXX699	H8	H8	H8				H8	H8			H8	H8
9/26/2013	XX	LFXXXX68H	H8	H8	H8				H8	H8			H8	H8
10/29/2013	XX	LFXXXX67J	F6	F6	F6				F6	F6			F6	F6
11/25/2013	XX	LFXXXX6A2	H8	H8	H8				H8	H8			H8	H8
12/17/2013	XX	LFXXXX6D2	H8	H8	H8				H8	H8			H8	H8
1/24/2014	XX	LFXXXX6DE	H8	H8	H8				H8	H8			H8	H8
2/24/2014	XX	LFXXXX6HB	H8	H8	H8				H8	H8			H8	H8
3/27/2014	XX	LFXXXX6GJ	H8	H8	H8				H8	H8			H8	H8
4/22/2014	XX	LFXXXX6G6	F6	F6	F6				F6	F6			F6	F6
4/29/2014	XX	LFXXXX6I3	H8	H8	H8				H8	H8			H8	H8
5/23/2014	XX	LFXXXX712	H8	H8	H8				H8	H8			H8	H8
6/24/2014	XX	LFXXXX71E	H8	H8	H8				H8	H8			H8	H8
7/29/2014	XX	LFXXXX708	F6	F6	F6				F6	F6			F6	F6
8/26/2014	XX	LFXXXX74E	F6	F6	F6				F6	F6			F6	F6
9/23/2014	XX	LFXXXX755	H8	H8	H8				H8	H8			H8	H8
10/21/2014	XX	LFXXXX73H	F6	F6	F6				F6	F6			F6	F6
11/28/2014	XX	LFXXXX75H	H8	H8	H8				H8	H8			H8	H8
12/24/2014	XX	LFXXXX76A	H8	H8	H8				H8	H8			H8	H8
2/3/2015	XX	LFXXXX771	H8	H8	H8				H8	H8			H8	H8
2/21/2015	XX	LFXXXX77C	H8	H8	H8				H8	H8			H8	H8

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
3/28/2015	XX	LFXXXX7AA	H8	H8	H8				H8	H8			H8	H8
4/16/2015	XX	LFXXXX7B3	F6	F6	F6				F6	F6			F6	F6
4/28/2015	XX	LFXXXX79G	F6	F6	F6				F6	F6			F6	F6
5/22/2015	XX	LFXXXX7F8	F6	F6	F6				F6	F6			F6	F6
6/22/2015	XX	LFXXXX7EG	F6	F6	F6				F6	F6			F6	F6
7/14/2015	XX	LFXXXX7D8	F6	F6	F6				F6	F6			F6	F6
7/23/2015	XX	LFXXXX7G0	F12	F12	F12				F12	F12			F12	F12
8/24/2015	XX	LFXXXX7GC	F12	F12	F12				F12	F12			F12	F12
9/26/2015	XX	LFXXXX805	H8	H8	H8				H8	H8			H8	H8
10/27/2015	XX	LFXXXX7IF	F6	F6	F6				F6	F6			F6	F6
10/31/2015	XX	LFXXXX80H	F6	F6	F6				F6	F6			F6	F6
11/27/2015	XX	LFXXXX819	F6	F6	F6				F6	F6			F6	F6
12/30/2015	XX	LFXXXX822	F6	F6	F6				F6	F6			F6	F6
1/14/2016	XX	LFXXXX82E	F6	F6	F6				F6	F6			F6	F6
2/18/2016	XX	LFXXXX886	F6	F6	F6				F6	F6			F6	F6
3/17/2016	XX	LFXXXX88I	F6	F6	F6				F6	F6			F6	F6
4/5/2016	XX	LFXXXX877	F6	F6	F6				F6	F6	F6		F6	F6
4/21/2016	XX	LFXXXX89A	F6	F6	F6				F6	F6			F6	F6
5/26/2016	XX	LFXXXX8CG	F6	F6	F6				F6	F6			F6	F6
6/27/2016	XX	LFXXXX8E0	F6	F6	F6				F6	F6			F6	F6
7/20/2016	XX	LFXXXX8F4	F6	F6	F6				F6	F6			F6	F6
7/26/2016	XX	LFXXXX8BH	F6	F6	F6				F6	F6	F6			F6
8/29/2016	XX	LFXXXX90F	F6	F6	F6				F6	F6	F6			F6
9/23/2016	XX	LFXXXX93E	F6	F6	F6				F6	F6	F6			F6
10/25/2016	XX	LFXXXX8JF	F6	F6	F6				F6	F6	F6			F6
10/31/2016	XX	LFXXXX948	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFXXXX953	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2016	XX	LFXXXX95G	H8	H8	H8				H8	H8	H8		H8	H8
1/10/2017	XX	LFXXXX99F	H8	H8	H8				H8	H8	H8		H8	H8
2/8/2017	XX	LFXXXX9A8	H8	H8	H8				H8	H8	H8		H8	H8
3/3/2017	XX	LFXXXX9B1	H8	H8	H8				H8	H8	H8		H8	H8
4/5/2017	XX	LFXXXX992	H8	H8	H8				H8	H8	H8		H8	H8
4/18/2017	XX	LFXXXX982	F6	F6	F6				F6	F6	F6			F6
5/25/2017	XX	LFXXXX9BE	F6	F6	F6				F6	F6	F6		F6	F6
6/16/2017	XX	LFXXXX9EF	F6	F6	F6				F6	F6	F6		F6	F6
7/25/2017	XX	LFXXXX9DJ	F6	F6	F6				F6	F6	F6		F6	F6
7/31/2017	XX	LFXXXX9F8	H8	H8	H8				H8	H8	H8		H8	H8
8/31/2017	XX	LFXXXX9II	F6	F6	F6				F6	F6	F6		F6	F6
9/28/2017	XX	LFXXXX9JA	H8	H8	H8				H8	H8	H8		H8	H8
10/25/2017	XX	LFXXXX9HE	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFXXXXA02	H8	H8	H8				H8	H8	H8		H8	H8
11/30/2017	XX	LFXXXXA0E	F6	F6	F6				F6	F6	F6		F6	F6
12/27/2017	XX	LFXXXXA17	F6	F6	F6				F6	F6	F6		F6	F6
1/19/2018	XX	LFXXXXA4D	F6	F6	F6				F6	F6	F6		F6	F6
2/22/2018	XX	LFXXXXA56	F6	F6	F6				F6	F6	F6		F6	F6
3/24/2018	XX	LFXXXXA92	F6	F6	F6				F6	F6	F6		F6	F6
4/3/2018	XX	LFXXXXA3E	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2018	XX	LFXXXXA9F	H8	H8	H8				H8	H8	H8		H8	H8
5/11/2018	XX	LFXXXXAA8	F6	F6	F6				F6	F6	F6		F6	F6
6/2/2018	XX	LFXXXXADC	H8	H8	H8				H8	H8	H8		H8	H8

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LF-UD-3A,B)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/2/2018	XX	LFXXXXAIC	H8	H8	H8				H8	H8	H8		H8	H8
7/17/2018	XX	LFXXXXACE	F6	F6	F6				F6	F6	F6		F6	F6
8/17/2018	XX	LFXXXXAJ7	H8	H8	H8				H8	H8	H8		H8	H8
9/1/2018	XX	LFXXXXB2D	H8	H8	H8				H8	H8	H8		H8	H8
10/2/2018	XX	LFXXXXB1C	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFXXXXB37	H8	H8	H8				H8	H8	H8		H8	H8
11/2/2018	XX	LFXXXXB41	H8	H8	H8				H8	H8	H8		H8	H8
12/7/2018	XX	LFXXXXB80	H8	H8	H8				H8	H8			H8	H8
1/3/2019	XX	LFXXXXB8E	H8	H8	H8				H8	H8			H8	H8
2/2/2019	XX	LFXXXXB98	H8	H8	H8				H8	H8			H8	H8
3/2/2019	XX	LFXXXXBA2	H8	H8	H8				H8	H8			H8	H8
4/5/2019	XX	LFXXXXBAG	H8	H8	H8				H8	H8			H8	H8
4/23/2019	XX	LFXXXXB6A	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFXXXXBE8	H8	H8	H8				H8	H8	H8		H8	H8
6/24/2019	XX	LFXXXXBF2	H8	H8	H8				H8	H8	H8		H8	H8
7/16/2019	XX	LFXXXXBD1	F6	F6	F6				F6	F6	F6		F6	F6
7/30/2019	XX	LFXXXXBFG	H8	H8	H8				H8	H8	H8		H8	H8
8/20/2019	XX	LFXXXXBGA	H8	H8	H8				H8	H8	H8		H8	H8
9/20/2019	XX	LFXXXXC03	H8	H8	H8				H8	H8	H8		H8	H8
10/14/2019	XX	LFXXXXC0H	H8	H8	H8				H8	H8	H8		H8	H8
10/29/2019	XX	LFXXXXBID	F6	F6	F6				F6	F6	F6		F6	F6
11/27/2019	XX	LFXXXXC1B	H8	H8	H8				H8	H8	H8		H8	H8
12/23/2019	XX	LFXXXXC31	H8	H8	H8				H8	H8	H8		H8	H8
1/17/2020	XX	LFXXXXC3G	H8	H8	H8				H8	H8	H8		H8	H8
2/4/2020	XX	LFXXXXC4B	H8	H8	H8				H8	H8	H8		H8	H8
3/27/2020	XX	LFXXXXCF8	H8	H8	H8				H8	H8	H8		H8	H8
4/28/2020	XX	LFXXXXCE1	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFXXXXCG2	H8	H8	H8				H8	H8	H8		H8	H8
5/27/2020	XX	LFXXXXD01	H8	H8	H8				H8	H8	H8		H8	H8
6/28/2020	XX	LFXXXXD0F	H8	H8	H8				H8	H8	H8		H8	H8
7/11/2020	XX	LFXXXXD19	H8	H8	H8				H8	H8	H8		H8	H8
7/21/2020	XX	LFXXXXCIE	F6	F6	F6				F6	F6	F6		F6	F6
8/3/2020	XX	LFXXXXD57	H8	H8	H8				H8	H8	H8		H8	H8
9/27/2020	XX	LFXXXXD63	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2020	XX	LFXXXXD3H	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2020	XX	LFXXXXD6H	H8	H8	H8				H8	H8	H8		H8	H8
11/29/2020	XX	LFXXXXD7B	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2020	XX	LFXXXXD85	H8	H8	H8				H8	H8	H8		H8	H8

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LFUD4X47H	H6	H6	H6				H6	H6	H6		H6	H6
2/24/2011	XX	LFUD4X4C2	H8	H8	H8				H8	H8	H8		H8	H8
3/25/2011	XX	LFUD4X4CC	H2	H2	H2				H2	H2	H2		H2	H2
4/26/2011	XX	LFXXXX4B3	F12	F12	F12				F12	F12	F12		F12	F12
5/25/2011	XX	LFUD4X4FB	H2	H2	H2				H2	H2	H2		H2	H2
6/20/2011	XX	LFUD4X4G2	H2	H2	H2				H2	H2	H2		H2	H2
7/19/2011	XX	LFXXXXHG2	H2	H2	H2				H2	H2	H2			H2
8/3/2011	XX	LFUD4X4JC	H2	H2	H2				H2	H2	H2		H2	H2
10/8/2011	XX	LFUD4X4J0	H2	H2	H2				H2	H2	H2		H2	H2
10/25/2011	XX	LFXXXX4GA	F6	F6	F6				F6	F6	F6		F6	F6

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
11/30/2011	XX	LFUD4X50F	H2	H2	H2				H2	H2	H2		H2	H2
12/29/2011	XX	LFUD4X503	H2	H2	H2				H2	H2	H2		H2	H2
1/26/2012	XX	LFUD4X58F	H2	H2	H2				H2	H2	H2		H2	H2
2/24/2012	XX	LFUD4X596	H8	H8	H8				H8	H8	H8		H8	H8
3/23/2012	XX	LFUD4X59H	444	7.3	17.3				395	5	0.0006		200	0.29
4/16/2012	XX	LFUD4X5A8	437	7.2	20.7				390	8	0.0011		200	0.32
4/24/2012	XX	LFXXXX536	H2	H2	H2				H2	H2	H2		H2	H2
5/3/2012	XX	LFUD4X5AJ	H2	H2	H2				H2	H2	H2		H2	H2
6/29/2012	XX	LFUD4X5BA	H8	H8	H8				H8	H8	H8		H8	H8
7/24/2012	XX	LFXXXX582	434	6.9	23.2				488	6	0.0045		300	1.2
7/31/2012	XX	LFUD4X5C1	457	7.3	30.7				403	8	0.0006		140	0.19
8/31/2012	XX	LFUD4X5F2	485	6.9	22.6				375	5	0.0006		200	0.11
9/27/2012	XX	LFUD4X5FD	447	7.9	21				375	6	0.0006		170	0.03
10/23/2012	XX	LFXXXX5CA	362	7	16.2				571	5	0.0022		150	1.6
11/13/2012	XX	LFUD4X5G4	387	7.8	17.3				355	6	0.0003		200	0.85
12/31/2012	XX	LFUD4X5GF	416	7.8	12.1				358	6	0.0003		165	0.49
1/30/2013	XX	LFUD4X60B	402	7.3	13.8				437	6	0.0003		175	0.43
2/15/2013	XX	LFUD4X5JJ	H2	H2	H2				H2	H2	H2		H2	H2
3/28/2013	XX	LFUD4X614	H2	H2	H2				H2	H2	H2		H2	H2
4/23/2013	XX	LFXXXX5J6	352	7.3	15.8				272	5	0.0022		92	1.1
4/24/2013	XX	LFUD4X61G	327	7.3	15.5				346	8	0.0006		205	0.44
5/30/2013	XX	LFUD4X628	H2	H2	H2				H2	H2	H2		H2	H2
6/26/2013	XX	LFUD4X630	H2	H2	H2				H2	H2	H2		H2	H2
7/30/2013	XX	LFXXXX65B	F6	F6	F6				F6	F6	F6		F6	F6
8/20/2013	XX	LFUD4X69A	H2	H2	H2				H2	H2	H2		H2	H2
9/26/2013	XX	LFUD4X68I	480	8	17.8				406	8	0.0011		215	0.41
10/29/2013	XX	LFXXXX680	424	7	17.8				322	5	0.0022		110	0.3
11/25/2013	XX	LFUD4X6A3	440	8.2	8.1				380	8	0.0006		185	0.64
12/17/2013	XX	LFUD4X6D3	424	7.5	8.4				413	8	0.0002		210	1.67
1/24/2014	XX	LFUD4X6DF	425	7.5	4.5				345	8	0.0007		160	0.61
2/24/2014	XX	LFUD4X6HC	H8	H8	H8				H8	H8	H8		H8	H8
3/27/2014	XX	LFUD4X6H0	431	8.2	13.7				337	10	0.0004		250	0.86
4/22/2014	XX	LFXXXX6G7	430	6.9	15.4				513	6	0.0022		200	2.6
4/29/2014	XX	LFUD4X6I4	411	8.12	17.2				331	10	0.0003		250	0.62
5/23/2014	XX	LFUD4X713	H2	H2	H2				H2	H2	H2		H2	H2
6/24/2014	XX	LFUD4X71F	H8	H8	H8				H8	H8	H8		H8	H8
7/29/2014	XX	LFXXXX709	F6	F6	F6				F6	F6	F6		F6	F6
8/26/2014	XX	LFUD4X74F	F6	F6	F6				F6	F6	F6		F6	F6
9/23/2014	XX	LFUD4X756	H8	H8	H8				H8	H8	H8		H8	H8
10/21/2014	XX	LFXXXX73I	F6	F6	F6				F6	F6	F6		F6	F6
11/28/2014	XX	LFUD4X75I	H2	H2	H2				H2	H2	H2		H2	H2
12/24/2014	XX	LFUD4X76B	H8	H8	H8				H8	H8	H8		H8	H8
2/3/2015	XX	LFUD4X772	H8	H8	H8				H8	H8	H8		H8	H8
2/21/2015	XX	LFUD4X77D	H8	H8	H8				H8	H8	H8		H8	H8
3/28/2015	XX	LFUD4X7AB	H8	H8	H8				H8	H8	H8		H8	H8
4/16/2015	XX	LFUD4X7B4	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2015	XX	LFXXXX79H	F6	F6	F6				F6	F6	F6		F6	F6
5/22/2015	XX	LFUD4X7F9	F6	F6	F6				F6	F6	F6		F6	F6
6/22/2015	XX	LFUD4X7EH	F6	F6	F6				F6	F6	F6		F6	F6
7/14/2015	XX	LFXXXX7D9	F6	F6	F6				F6	F6	F6		F6	F6

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LF-UD-4)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/23/2015	XX	LFUD4X7G1	F12	F12	F12				F12	F12	F12		F12	F12
8/24/2015	XX	LFUD4X7GD	F12	F12	F12				F12	F12	F12		F12	F12
9/26/2015	XX	LFUD4X806	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2015	XX	LFXXXX7IG	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2015	XX	LFUD4X80I	F6	F6	F6				F6	F6	F6		F6	F6
11/27/2015	XX	LFUD4X81A	F6	F6	F6				F6	F6	F6		F6	F6
12/30/2015	XX	LFUD4X823	F6	F6	F6				F6	F6	F6		F6	F6
1/14/2016	XX	LFUD4X82F	F6	F6	F6				F6	F6	F6		F6	F6
2/18/2016	XX	LFUD4X887	F6	F6	F6				F6	F6	F6		F6	F6
3/17/2016	XX	LFUD4X88J	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2016	XX	LFXXXX878	F6	F6	F6				F6	F6	F6		F6	F6
4/21/2016	XX	LFUD4X89B	F6	F6	F6				F6	F6	F6		F6	F6
5/26/2016	XX	LFUD4X8CH	F6	F6	F6				F6	F6	F6		F6	F6
6/27/2016	XX	LFUD4X8E1	F6	F6	F6				F6	F6	F6		F6	F6
7/20/2016	XX	LFUD4X8F5	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LFXXXX8BI	435	7.4	21.2				296	4.9	0.0011			0.8
8/29/2016	XX	LFUD4X90G	F6	F6	F6				F6	F6	F6			F6
9/23/2016	XX	LFUD4X93F	F6	F6	F6				F6	F6	F6			F6
10/25/2016	XX	LFXXXX8JG	464	7.7	14.2				253	7	0.0006			1
10/31/2016	XX	LFUD4X949	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFUD4X954	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2016	XX	LFUD4X95H	H8	H8	H8				H8	H8	H8		H8	H8
1/10/2017	XX	LFUD4X99G	H8	H8	H8				H8	H8	H8		H8	H8
2/8/2017	XX	LFUD4X9A9	H8	H8	H8				H8	H8	H8		H8	H8
3/3/2017	XX	LFUD4X9B2	H8	H8	H8				H8	H8	H8		H8	H8
4/5/2017	XX	LFUD4X993	H8	H8	H8				H8	H8	H8		H8	H8
4/18/2017	XX	LFXXXX983	371	8.1	13.3				292	8.3	0.0011			0.8
5/25/2017	XX	LFUD4X9BF	387	7.38	18.5				392	8	0.0009		175	0.6
6/16/2017	XX	LFUD4X9EG	F6	F6	F6				F6	F6	F6		F6	F6
7/25/2017	XX	LFXXXX9E0	415	8.2	20.7				283	5.7	0.0017			0.4
7/31/2017	XX	LFUD4X9F9	H8	H8	H8				H8	H8	H8		H8	H8
8/31/2017	XX	LFUD4X9IJ	F6	F6	F6				F6	F6	F6		F6	F6
9/28/2017	XX	LFUD4X9JB	H8	H8	H8				H8	H8	H8		H8	H8
10/25/2017	XX	LFXXXX9HF	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFUD4XA03	H8	H8	H8				H8	H8	H8		H8	H8
11/30/2017	XX	LFUD4XA0F	F6	F6	F6				F6	F6	F6		F6	F6
12/27/2017	XX	LFUD4XA18	F6	F6	F6				F6	F6	F6		F6	F6
1/19/2018	XX	LFUD4XA4E	F6	F6	F6				F6	F6	F6		F6	F6
2/22/2018	XX	LFUD4XA57	F6	F6	F6				F6	F6	F6		F6	F6
3/24/2018	XX	LFUD4XA93	F6	F6	F6				F6	F6	F6		F6	F6
4/3/2018	XX	LFXXXXA3F	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2018	XX	LFUD4XA9G	H8	H8	H8				H8	H8	H8		H8	H8
5/11/2018	XX	LFUD4XAA9	F6	F6	F6				F6	F6	F6		F6	F6
6/2/2018	XX	LFUD4XADD	H8	H8	H8				H8	H8	H8		H8	H8
7/2/2018	XX	LFUD4XAID	H8	H8	H8				H8	H8	H8		H8	H8
7/17/2018	XX	LFXXXXACF	520	8	19				474	4.2	0.0011			1.1
8/17/2018	XX	LFUD4XAJ8	H8	H8	H8				H8	H8	H8		H8	H8
9/1/2018	XX	LFUD4XB2E	H8	H8	H8				H8	H8	H8		H8	H8
10/2/2018	XX	LFXXXXB1D	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFUD4XB38	H8	H8	H8				H8	H8	H8		H8	H8

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(LF-UD-4)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
11/2/2018	XX	LFUD4XB42	H8	H8	H8				H8	H8	H8		H8	H8
12/7/2018	XX	LFUD4XB81	H8	H8	H8				H8	H8			H8	H8
1/3/2019	XX	LFUD4XB8F	H8	H8	H8				H8	H8			H8	H8
2/2/2019	XX	LFUD4XB99	H8	H8	H8				H8	H8			H8	H8
3/2/2019	XX	LFUD4XBA3	H8	H8	H8				H8	H8			H8	H8
4/5/2019	XX	LFUD4XBAH	H8	H8	H8				H8	H8			H8	H8
4/23/2019	XX	LFXXXXB6B	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFUD4XBE9	H8	H8	H8				H8	H8	H8		H8	H8
6/24/2019	XX	LFUD4XBF3	H8	H8	H8				H8	H8	H8		H8	H8
7/16/2019	XX	LFXXXXBD2	F6	F6	F6				F6	F6	F6		F6	F6
7/30/2019	XX	LFUD4XBFH	H8	H8	H8				H8	H8	H8		H8	H8
8/20/2019	XX	LFUD4XBGB	H8	H8	H8				H8	H8	H8		H8	H8
9/20/2019	XX	LFUD4XC04	H8	H8	H8				H8	H8	H8			H8
10/14/2019	XX	LFUD4XC0I	H8	H8	H8				H8	H8	H8			H8
10/29/2019	XX	LFXXXXBIE	383	8.1	13.3				259	10.3	0.0006			2.6
11/27/2019	XX	LFUD4XC1C	365	8	20.3				377	6	0.0002		250	0.5
12/23/2019	XX	LFUD4XC32	390	8.1	13.2				353	8	0.0001		200	0.4
1/17/2020	XX	LFUD4XC3H	H8	H8	H8				H8	H8	H8		H8	H8
2/4/2020	XX	LFUD4XC4C	H8	H8	H8				H8	H8	H8		H8	H8
3/27/2020	XX	LFUD4XCF9	H8	H8	H8				H8	H8	H8		H8	H8
4/28/2020	XX	LFXXXXCE2	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFUD4XCG3	H8	H8	H8				H8	H8	H8		H8	H8
5/27/2020	XX	LFUD4XD02	H8	H8	H8				H8	H8	H8		H8	H8
6/28/2020	XX	LFUD4XD0G	H8	H8	H8				H8	H8	H8		H8	H8
7/11/2020	XX	LFUD4XD1A	H8	H8	H8				H8	H8	H8		H8	H8
7/21/2020	XX	LFXXXXCIF	F6	F6	F6				F6	F6	F6		F6	F6
8/3/2020	XX	LFUD4XD58	H8	H8	H8				H8	H8	H8		H8	H8
9/27/2020	XX	LFUD4XD64	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2020	XX	LFXXXXD3I	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2020	XX	LFUD4XD6I	H8	H8	H8				H8	H8	H8		H8	H8
11/29/2020	XX	LFUD4XD7C	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2020	XX	LFUD4XD86	H2	H2	H2				H2	H2	H2		H2	H2

LF-UD-5and6

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LFUD5X47I	414	8	13.4				275	6	0.0045		435	0
2/24/2011	XX	LFUD5X4C3	515	7.3	16.1				354	5	0.0022		375	1.2
3/25/2011	XX	LFUD5X4CD	440	7.6	13.7					8	0.0022		150	1.5
4/26/2011	XX	LFXXXX4B4	450	6.9	16.8				281	5	0.0033		415	1.5
5/25/2011	XX	LFUD5X4FC	510 G7	7.4 G7	20.7 G7				367 G7	8 G7			113 G7	18 G7
6/20/2011	XX	LFUD5X4G3	469	7.2	22.6				382	8			125	15.3
7/19/2011	XX	LFXXXX4F2	440	7.3	21.9				403	5	0.0022		175	0
8/3/2011	XX	LFUD5X4JD	458	7.8	21.2				348	8			150	4.3
10/8/2011	XX	LFUD5X4J1	447	7.7	20.3				358	8			150	11.6
10/25/2011	XX	LFXXXX4G7	476	7.3	17.8				250	5	0.0028		240	5.5
11/30/2011	XX	LFUD5X50G	443	7.6	15.7				347				150	6.14
12/29/2011	XX	LFUD5X504	477	7.9	15.7				333	8			118	2.9
1/26/2012	XX	LFXXXX58G	473	8.3	11.9				359	8			150	14.95
2/24/2012	XX	LFXXXX597	460	8.1	15.2				348	5			175	3.16
3/23/2012	XX	LFXXXX59I	486	7.8	16.6				382	6			190	1.58
4/16/2012	XX	LFXXXX5A9	467	8	22.8				357	6			200	6.06

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/24/2012	XX	LFXXXX537	389	7.4	18.8				427	6			95	4.6
5/3/2012	XX	LFXXXX5B0	491	8	17.4				370	8			160	1.16
6/29/2012	XX	LFXXXX5BB	473	7.2	23.1				416	6			175	0.55
7/24/2012	XX	LFXXXX584	482	7.3	22.4				417	6			260	3
7/31/2012	XX	LFXXXX5C2	500	7.5	23.6				355	6			200	0.13
8/31/2012	XX	LFXXXX5F3	514	7.3	21.5				317	6			200	0.12
9/27/2012	XX	LFXXXX5FE	407	7.9	18				354	6			170	30.88
10/23/2012	XX	LFXXXX5C7	498	7.3	14.5				423	4			160	6.7
11/13/2012	XX	LFXXXX5G5	378	7.3	16.8				390	7			175	0.2
12/31/2012	XX	LFXXXX5GG	368	8.3	10.7				303	8	0.0003		125	1.48
1/30/2013	XX	LFXXXX60C	177	7.5	7.1				447	10			75	9.79
2/15/2013	XX	LFXXXX600	F	F	F				F	F	F		F	F
3/28/2013	XX	LFXXXX615	356	8.2	10.3				311	8	0.0002		170	0.66
4/23/2013	XX	LFXXXX5J7	353	7.8	10.9				237	6	0.0011		145	2.6
4/24/2013	XX	LFXXXX61H	296	7.6	11.6				344	8	0.0002		190	0
5/30/2013	XX	LFXXXX629	291	7.4	18.2				368	8	0.0022		200	0.09
6/26/2013	XX	LFXXXX631	401	8	18.1				338	8	0.0006		175	0.67
7/30/2013	XX	LFXXXX65C	319	7.5	20.9				240	6	0.0006		115	1.7
8/20/2013	XX	LFXXXX69B	H8	H8	H8				H8	H8	H8		H8	H8
9/26/2013	XX	LFXXXX68J	458	8.1	16				366	6	0.0004		150	0.63
10/29/2013	XX	LFXXXX681	453	7.2	6.4				412	6	0.0011		120	0.8
11/25/2013	XX	LFXXXX6A4	369	8.2	12.3				382	6	0.0022		150	0.34
12/17/2013	XX	LFXXXX6D4	F12	F12	F12				F12	F12	F12		F12	F12
1/24/2014	XX	LFXXXX6DG	337	7.9	5.7				219	12	0.0003		175	0.53
2/24/2014	XX	LFXXXX6HD	379	7.6	11.4				365	10	0.0006		200	0.71
3/27/2014	XX	LFXXXX6H1	348	7.8	10.7				380	10	0.0008		200	0.33
4/22/2014	XX	LFXXXX6G8	386	7.1	14.5				70	4	0.0006		145	1.2
4/29/2014	XX	LFXXXX6I5	374	7.7	12.6				343	10	0.0003		225	0.44
5/23/2014	XX	LFXXXX714	435	7.9	15.9				342	10	0.0003		250	0.29
6/24/2014	XX	LFXXXX71G	474	7.5	20.1				360	8	0.0004		240	0.09
7/29/2014	XX	LFXXXX70A	413	7.9	20.7				393	6	0.0022		35	0.5
8/26/2014	XX	LFXXXX74G	458	7.7	23.3				392	7			225	0.08
9/23/2014	XX	LFXXXX757	435	8.1	23.4				340		0.0003		180	0.35
10/21/2014	XX	LFXXXX73J	F6	F6	F6				F6	F6			F6	F6
11/28/2014	XX	LFXXXX75J	357	7.9	14.1				358	7	0.0002		180	M
12/24/2014	XX	LFXXXX76C	372	7.2	16.4				436	5.5	0.0003		180	0.12
2/3/2015	XX	LFXXXX773	F	F	F				F	F	F		F	F
2/21/2015	XX	LFXXXX77E	318	7.7	17.6				387	4	0.0003		155	1.17
3/28/2015	XX	LFXXXX7AC	F6	F6	F6				F6	F6	F6		F6	F6
4/16/2015	XX	LFXXXX7B5	367	7.5	17.3				382	7	0.0003		180	0.5
4/28/2015	XX	LFXXXX79I	422	8	11.6				347	9.3	0.0017			2.3
5/22/2015	XX	LFXXXX7FA	430	7.9	19.1				371	8	0.0003		220	0.5
6/22/2015	XX	LFXXXX7EI	474	8	26.5				319	9	0.0003		240	0.2
7/14/2015	XX	LFXXXX7DA	I	I	I				I	I	I		I	I
7/23/2015	XX	LFXXXX7G2	456	7.4	24.2				375	8	0.0002		250	0.2
8/24/2015	XX	LFXXXX7GE	447	7.3	19.1				371	8	0.0001		200	0.6
9/26/2015	XX	LFXXXX807	397	8	19.7				351	8	0.0002		180	0.3
10/27/2015	XX	LFXXXX7IH	350	8.3	14				265	7.5	0.0006			1
10/31/2015	XX	LFXXXX80J	380	8.1	13.7				336	9	0.0002		200	0.5
11/27/2015	XX	LFXXXX81B	384	7.3	15.1				373	7	0.0003		210	0.4

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
12/30/2015	XX	LFXXXX824	256	7.6	10.7				357	9	0.0003		200	0.2
1/14/2016	XX	LFXXXX82G	386	7.6	10.4				343	8	0.0002		220	0.01 U
2/18/2016	XX	LFXXXX888	392	8.3	15.3				363	7	0.0003		208	0.01
3/17/2016	XX	LFXXXX890	409	7.3	13.5				337	9	0.0003		200	0.2
4/5/2016	XX	LFXXXX879	399	8.3	11.1				339	8.1	0.0017			0.4
4/21/2016	XX	LFXXXX89C	435	7.3	17.3				303	8	0.0002		190	0.01 U
5/26/2016	XX	LFXXXX8D0	415	8	17.6				306	7	0.0002		200	0.01
6/27/2016	XX	LFXXXX8E2	440	7.4	17.4				515	9	0.0002		250	0.1
7/20/2016	XX	LFXXXX8F6	416	7.5	19.3				325	8	0.0002		220	0.2
7/26/2016	XX	LFXXXX8BJ	421	7.3	19.9				319	5.6	0.0006			2.1
8/29/2016	XX	LFXXXX90H	406	7.49	22.1				319	9	0.0002			0.3
9/23/2016	XX	LFXXXX93G	373	8.11	17.4				303	9	0.00004			2
10/25/2016	XX	LFXXXX8JH	286	7.3	9.5				285	6.9	0.0006			0.6
10/31/2016	XX	LFXXXX94A	324	8.32	11.3				313	8				0.2
11/29/2016	XX	LFXXXX955	310	7.47	7.3				349	8	0.0001		120	0.5
12/13/2016	XX	LFXXXX95I	155	7.72	4.2				341	8	0.0001		125	1.2
1/10/2017	XX	LFXXXX99H	164	8.12	12.8				358	9	0.0001		120	0.5
2/8/2017	XX	LFXXXX9AA	162	8.06	10.2				351	10	0.0002		105	0.3
3/3/2017	XX	LFXXXX9B3	162	8.05	14.8				348	8	0.0004		125	0.3
4/5/2017	XX	LFXXXX994	117	8.01	17.8				348	8	0.0006		120	0.4
4/18/2017	XX	LFXXXX984	312	8	9.2				349	10.8	0.0011			0.8
5/25/2017	XX	LFXXXX9BG	340	7.66	16.1				328	8	0.0004		150	0.5
6/16/2017	XX	LFXXXX9EH	400	8.1	17.3				354	8	0.0003		205	0.7
7/25/2017	XX	LFXXXX9E1	332	7.9	17.2				297	6.7	0.0006			0.6
7/31/2017	XX	LFXXXX9FA	426	7.7	19.3				386	7	0.0004		245	0.2
8/31/2017	XX	LFXXXX9J0	378	8	19.1				383	6	0.00037		205	0.1
9/28/2017	XX	LFXXXX9JC	375	8	17.9				363	6	0.0002		205	0.9
10/25/2017	XX	LFXXXX9HG	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFXXXXA04	373	8.2	17.3				392	6	0.00003		185	0.5
11/30/2017	XX	LFXXXXA0G	337	7.7	10.9				426	6	0.00028		150	0.3
12/27/2017	XX	LFXXXXA19	F	F	F				F	F	F		F	F
1/19/2018	XX	LFXXXXA4F	310	8	6.1				409	7	0.00014		130	0.5
2/22/2018	XX	LFXXXXA58	314	7.3	8.4				409	9	0.00037		125	0.1
3/24/2018	XX	LFXXXXA94	338	8	10.4				428	9	0.00056		130	0.3
4/3/2018	XX	LFXXXXA3G	307	8.2	9.8				484	12.8	0.00056			0.8
4/28/2018	XX	LFXXXXA9H	317	8.1	15.4				411	8	0.00022		150	0.3
5/11/2018	XX	LFXXXXAAA	344	7.8	13.2				441	9	0.00037		150	0.4
6/2/2018	XX	LFXXXXADE	360	7.9	16.2				374	8	0.00045		140	0.5
7/2/2018	XX	LFXXXXAIE	376	7.8	19.5				364	8	0.0002		150	0.2
7/17/2018	XX	LFXXXXACG	387	8.2	16.7				486	8.2	0.00056			0.8
8/17/2018	XX	LFXXXXAJ9	377	7.2	20.6				360	8	0.00017		150	0.2
9/1/2018	XX	LFXXXXB2F	362	8	19.5				380	7	0.0002		175	2.4
10/2/2018	XX	LFXXXXB1E	371	8.1	12.2				485	8.1	0.00056			0.3
10/13/2018	XX	LFXXXXB39	339	7.5	13.2				371	7	0.0001		150	1.1
11/2/2018	XX	LFXXXXB43	330	7.6	11.6				362	7	0.0002		150	0.7
12/7/2018	XX	LFXXXXB82	232	8.1	8.6				387	7	0.0002		70	1.7
1/3/2019	XX	LFXXXXB8G	F	F	F				F	F	F		F	F
2/2/2019	XX	LFXXXXB9A	F6	F6	F6				F6	F6	F6		F6	F6
3/2/2019	XX	LFXXXXBA4	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2019	XX	LFXXXXBAI	F	F	F				F	F	F		F	F

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/23/2019	XX	LFXXXXB6C	289	8.2	7.6				357	9.7	0.0011			0.4
5/10/2019	XX	LFXXXXBEA	280	6.9	15.2				317	6	0.0002		175	0.8
6/24/2019	XX	LFXXXXBF4	328	7.8	17.3				356	8	0.0003		175	0.1 U
7/16/2019	XX	LFXXXXBD3	333	7.9	17.3				346	12.8	0.0006			1.2
7/30/2019	XX	LFXXXXBFI	330	8.2	20.5				336	8	0.0002		180	0.6
8/20/2019	XX	LFXXXXBGC	327	8.2	25.3				341	6	0.0001		175	0.4
9/20/2019	XX	LFXXXXC05	338	7.6	21.8				357	6	0.0001		150	2.5
10/14/2019	XX	LFXXXXC0J	304	8.3	19.6				331	6	0.0001		175	4.8
10/29/2019	XX	LFXXXXBIF	225	8	13.8				332	9.5	0.0006			1.8
11/27/2019	XX	LFXXXXC1D	295	8.3	20.5				376	8	0.0001		155	8.1
12/23/2019	XX	LFXXXXC33	279	8.3	12.8				343	8	0.0001		140	20.2
1/17/2020	XX	LFXXXXC3I	305	8.4	7.6				386	10	0.0002		150	0.6
2/4/2020	XX	LFXXXXC4D	284	8.3	13.2				331	10	0.0002		150	0.1
3/27/2020	XX	LFXXXXCFA	249	8.3	13.2				392	6	0.0014		150	0.3
4/28/2020	XX	LFXXXXCE3	322	8.2	8.9				403	9.3	0.0006			1.6
4/29/2020	XX	LFXXXXCG4	266	8.3	16.5				330	6	0.0002		150	0.1
5/27/2020	XX	LFXXXXD03	320	7.9	19.7				331	6	0.0002		150	0.7
6/28/2020	XX	LFXXXXD0H	280	8.3	21.6				334	5	0.0002		175	1.2
7/11/2020	XX	LFXXXXD1B	314	7.5	21.2				353	5	0.0001		200	0.5
7/21/2020	XX	LFXXXXCIG	308	7.9	18.5				361	7.5	0.0002			0.4
8/3/2020	XX	LFXXXXD59	325	7.9	21.1				352	6	0.0001		175	0.1
9/27/2020	XX	LFXXXXD65	312	8.1	18.6				401	5	0.00003		175	11.1
10/27/2020	XX	LFXXXXD3J	D	D	D				D	D	D		D	D
10/31/2020	XX	LFXXXXD6J	326	8.5	14				404	8	0.00004		200	51.3
11/29/2020	XX	LFXXXXD7D	313	8.4	15.6				383	8	0.0001		140	22.6
12/13/2020	XX	LFXXXXD87	286	8	13.4				359	5	0.0001		155	38.52

LF-UD-6

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
2/3/2011	XX	LFXX6X48H	502	7.4	10.4				446	5	0.0006		163	1
2/24/2011	XX	LFUD6X4C5	640	7.2	12				353	6	0.0045		88	4.2
3/25/2011	XX	LFUD6X4CE	567	7.2	11.2					6			250	1.8
4/26/2011	XX	LFUD6X4B6	611	6.9	11.6				191	6			490	1.2
5/25/2011	XX	LFUD6X4FD	613	7.4	18				348	5			150	3.7
6/20/2011	XX	LFUD6X4G4	559	7.3	19.4				383	6			125	3.8
7/19/2011	XX	LFUD6X4F4	529	7	23.1				414	4	0.0022		200	25.1
8/3/2011	XX	LFUD6X4JE	550	7.2	18.2				389	6			125	23.2
10/8/2011	XX	LFUD6X4J2	555		18.9				385	6			125	3.2
10/25/2011	XX	LFUD6X4G9	603	7.1	16.4				296	5	0.0022		280	1.2
11/30/2011	XX	LFUD6X50H	567	7.2	16.3				367				145	1
12/29/2011	XX	LFUD6X505	588	7.3	15.1				340	5			225	0.8
1/26/2012	XX	LFUD6X58H	580	7.4	14.7				379	4			175	5.54
2/24/2012	XX	LFUD6X598	559	7.3	15.3				375	5			250	27.87
3/23/2012	XX	LFUD6X59J	556	7.5	16.4				387	5			205	13.84
4/16/2012	XX	LFUD6X5AA	557	7.2	21.6				381	7			250	2.47
4/24/2012	XX	LFUD6X539	431	7.4	16.8				490	4			105	4.2
5/3/2012	XX	LFUD6X5B1	580	7.2	17.2				390	8			260	5.72
6/29/2012	XX	LFUD6X5BC	611	7.1	19.7				415	6			250	11.23
7/24/2012	XX	LFUD6X586	675	7	20.3				409	5	0.0022		360	4
7/31/2012	XX	LFUD6X5C3	733	7.1	20.05				352	6			275	0.3
8/31/2012	XX	LFUD6X5F4	773	7.1	19.3				329	4			175	0.98

(LF-UD-6)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/27/2012	XX	LFUD6X5FF	748	7.2	17.2				372	5			165	0.57
10/23/2012	XX	LFUD6X5C9	762	7.1	13.7				443	5	0.0022		240	0.8
11/13/2012	XX	LFUD6X5G6	748	7.2	16.8				377	5			250	1.5
12/31/2012	XX	LFUD6X5GH	720	7.2	14.7				362	6			250	0.82
1/30/2013	XX	LFUD6X60D	704	7.6	12.5				472	6			250	1.14
2/15/2013	XX	LFUD6X601	281	7.6	10.6				374	6			110	5.3
3/28/2013	XX	LFUD6X616	499	7.6	11				330	8			155	1.27
4/23/2013	XX	LFUD6X5J9	572	7.3	12.2				234	6	0.0022		140	5
4/24/2013	XX	LFUD6X61I	467	7.7	12.2				351	8			225	0.87
5/30/2013	XX	LFUD6X62A	525	7.4	18.5				376	6			225	0.26
6/26/2013	XX	LFUD6X632	809	7.3	16.6				361	6			275	0.26
7/30/2013	XX	LFUD6X65E	823	7.3	19.5				140	5	0.0022		235	10.3
8/20/2013	XX	LFUD6X69C	919	7.4	21.4				374	6			250	0.65
9/26/2013	XX	LFUD6X690	899	7.4	16.6				379	6	F14		250	1.14
10/29/2013	XX	LFUD6X683	913	7.7	16.1				422	4	0.0022		265	2.2
11/25/2013	XX	LFUD6X6A5	788	7.6	15.3				396	6			300	0.8
12/17/2013	XX	LFUD6X6D5	785	7.7	7.6				403	6			225	1.55
1/24/2014	XX	LFUD6X6DH	F6	F6	F6				F6	F6			F6	F6
2/24/2014	XX	LFUD6X6HE	685	7.8	11.1				383	8			275	6.68
3/27/2014	XX	LFUD6X6H2	672	7.7	14.9				339	8			250	13.75
4/22/2014	XX	LFUD6X6GA	712	7	14.3				479	6	0.0022		160	1.6
4/23/2014	XX	LFXUDX6IA	749	7.43	16.4				369	8			350	8.27
4/29/2014	XX	LFUD6X6I6	392	8.1	14.6				321	10			155	32.95
5/23/2014	XX	LFUD6X715	774	7.6	19.6				361	8			350	0.94
6/24/2014	XX	LFUD6X71H	841	7.7	19.5				353	8			350	0.87
7/29/2014	XX	LFUD6X70C	803	7.5	19.7				386	5			90	0.7
8/26/2014	XX	LFUD6X74H	842	7.6	23.1				414	7			385	0.37
9/23/2014	XX	LFUD6X758	847	7.6	23.3				352				300	1
10/21/2014	XX	LFUD6X740	767	7.5	16.6				357	6	0.0022		240	0.4
11/28/2014	XX	LFUD6X760	810	7.5	15.7				360	5			260	M
12/24/2014	XX	LFUD6X76D	847	7.5	16				436	7			325	0.65
2/3/2015	XX	LFUD6X774	F	F	F				F	F			F	F
2/21/2015	XX	LFUD6X77F	F6	F6	F6				F6	F6			F6	F6
3/28/2015	XX	LFUD6X7AD	798	7.5	16.2				412	5			200	5.6
4/16/2015	XX	LFUD6X7B6	754	7.6	17.1				380	6			200	8.75
4/28/2015	XX	LFUD6X7A0	839	7.4	12.6				309	6.2	0.0022			2.2
5/22/2015	XX	LFUD6X7FB	815	7.8	19.1				375	10			335	0.5
6/22/2015	XX	LFUD6X7EJ	840	7.6	23.4				334	8			375	0.16
7/14/2015	XX	LFUD6X7DC	823	7.4	18				349	7.2	0.0022			0.8
7/23/2015	XX	LFUD6X7G3	834	7.5	23.5				377	8			275	0.1
8/24/2015	XX	LFUD6X7GF	845	7.5	17.1				370	7			400	0.8
9/26/2015	XX	LFUD6X808	816	7.5	20.6				362	6			350	0.3
10/27/2015	XX	LFUD6X7IJ	764	7.7	14.9				348	4.3	0.0022			1.2
10/31/2015	XX	LFUD6X810	851	7.6	15.7				347	7			475	1.2
11/27/2015	XX	LFUD6X81C	864	7.6	16.9				373	8			380	0.8
12/30/2015	XX	LFUD6X825	F6	F6	F6				F6	F6			F6	F6
1/14/2016	XX	LFUD6X82H	F6	F6	F6				F6	F6			F6	F6
2/18/2016	XX	LFUD6X889	F6	F6	F6				F6	F6	F6		F6	F6
3/17/2016	XX	LFUD6X891	859	7.3	16.1				329	7			375	2.3
4/5/2016	XX	LFUD6X87B	850	7.7	10.6				312	6.8	0.0022			1.1

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/21/2016	XX	LFUD6X89D	870	7.4	20.6				311	9			260	0.3
5/26/2016	XX	LFUD6X8CJ	F6	F6	F6				F6	F6			F6	F6
6/27/2016	XX	LFUD6X8E3	F6	F6	F6				F6	F6			F6	F6
7/20/2016	XX	LFUD6X8F7	F6	F6	F6				F6	F6			F6	F6
7/26/2016	XX	LFUD6X8C1	D	D	D				D	D	D			D
8/29/2016	XX	LFUD6X90I	871	7.37	23.8				322	9			300	4.3
9/23/2016	XX	LFUD6X93H	592	7.7	18.7				312	9			225	6.7
10/25/2016	XX	LFUD6X8JJ	I	I	I				I	I	I		I	I
10/31/2016	XX	LFUD6X94B	H8	H8	H8				H8	H8			H8	H8
11/29/2016	XX	LFUD6X956	F6	F6	F6				F6	F6	F6		F6	F6
12/13/2016	XX	LFUD6X95J	F6	F6	F6				F6	F6	F6		F6	F6
1/10/2017	XX	LFUD6X99I	F6	F6	F6				F6	F6	F6		F6	F6
2/8/2017	XX	LFUD6X9AB	F6	F6	F6				F6	F6	F6		F6	F6
3/3/2017	XX	LFUD6X9B4	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2017	XX	LFUD6X995	F6	F6	F6				F6	F6	F6		F6	F6
4/18/2017	XX	LFUD6X986	439	7.6	14.2				366	7.5	0.0022			1.2
5/25/2017	XX	LFUD6X9BH	355	7.33	17.2				426	6			175	0.7
6/16/2017	XX	LFUD6X9EI	486	8.5	22.1				338	7			250	126.9
7/25/2017	XX	LFUD6X9E3	I	I	I				I	I	I		I	I
7/31/2017	XX	LFUD6X9FB	398	7.7	20.8				391	6			165	22.2
8/31/2017	XX	LFUD6X9J1	327	7.2	22.4				413	8			145	0.7
9/28/2017	XX	LFUD6X9JD	F6	F6	F6				F6	F6	F6		F6	F6
10/25/2017	XX	LFUD6X9HI	413	7.2	18.9				407	5.7	0.0022			2.1
10/26/2017	XX	LFUD6XA05	442	7.5	19.3				405	6			215	32.3
11/30/2017	XX	LFUD6XA0H	293	7	14.9				436	6			125	1.4
12/27/2017	XX	LFUD6XA1A	270	7.3	15.8				426	7			103	2.7
1/19/2018	XX	LFUD6XA4G	277	7.4	9.1				425	7			100	1.7
2/22/2018	XX	LFUD6XA59	292	7	11				420	8			90	0.2
3/24/2018	XX	LFUD6XA95	301	7.1	11.8				439	7			110	0.7
4/3/2018	XX	LFUD6XA3I	302	7.6	15				461	4.5	0.00223			1.3
4/28/2018	XX	LFUD6XA9I	212	7.3	17.7				418	8			100	0.4
5/11/2018	XX	LFUD6XAAB	263	7.2	17.9				454	7			105	1
6/2/2018	XX	LFUD6XADF	262	7	20.1				394	6			115	1.2
7/2/2018	XX	LFUD6XAIF	F6	F6	F6				F6	F6				F6
7/17/2018	XX	LFUD6XACI	328	8.4	20.4				466	3.6	0.00223			1.4
8/17/2018	XX	LFUD6XAJA	268	6.7	23.9				374	6			115	0.9
9/1/2018	XX	LFUD6XB2G	281	7	21.7				406	6			100	2.6
10/2/2018	XX	LFUD6XB1G	294	7.3	16.7				487	4.8	0.00056			0.5
10/13/2018	XX	LFUD6XB3A	246	6.9	15.4				383	5			75	7.4
11/2/2018	XX	LFUD6XB44	241	6.8	13.2				381	7			70	1.6
12/7/2018	XX	LFUD6XB83	243	7.4	8.1				380	7			140	0.6
1/3/2019	XX	LFUD6XB8H	297	6.8	11.3				386	7			70	2.1
2/2/2019	XX	LFUD6XB9B	F	F	F				F	F			F	F
3/2/2019	XX	LFUD6XBA5	337	7.7	15.3				340	5			75	0.8
4/5/2019	XX	LFUD6XBAJ	320	8.3	14.1				354	6			100	1.4
4/23/2019	XX	LFUD6XB6E	380	7.1	14.7				375	6.8	0.0022			0.8
5/10/2019	XX	LFUD6XBEB	201	7.1	15.4				314	6			35	1.4
6/24/2019	XX	LFUD6XBF5	239	7.4	21				359	8			60	0.2
7/16/2019	XX	LFUD6XBD5	184	7.8	20.7				379	9	0.0006			0.8
7/30/2019	XX	LFUD6XBFJ	70	7.3	21.2				343	8			35	0.9

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
8/20/2019	XX	LFUD6XBGD	82	7.4	24.8				349	6			40	0.4
9/20/2019	XX	LFUD6XC06	112	7.1	21.9				353	6			45	13.8
10/14/2019	XX	LFUD6XC10	204	6.4	20.3				373	5			180	43.6
10/29/2019	XX	LFUD6XBIH	267	6.3	17.5				282	6.6	0.0011			1.5
11/27/2019	XX	LFUD6XC1E	310	5.2	20.4				449	6			FK	2.2
12/23/2019	XX	LFUD6XC34	L	L	L				L	L			L	L
1/4/2020	XX	LFXXXXC3A	515	4.3	14				434	8			FK	1.6
1/17/2020	XX	LFXXXXC45	460	4.4	14.8				520	8			FK	19.4
2/4/2020	XX	LFXXXXC50	225	4	18.6				488	6			FK	0.8
3/27/2020	XX	LFXXXXCFG	315	4.1	17.7				512	6				0.3
4/28/2020	XX	LFUD6XCE5	579	4.2	14.1				605	7	0.0006			0.6
4/29/2020	XX	LFXXXXCGA	H8	H8	H8				H8	H8	H8		H8	H8
5/27/2020	XX	LFXXXXD09	F6	F6	F6				F6	F6	F6		F6	F6
6/28/2020	XX	LFXXXXD13	F6	F6	F6				F6	F6	F6		F6	F6
7/11/2020	XX	LFXXXXD1H	F6	F6	F6				F6	F6	F6		F6	F6
7/21/2020	XX	LFUD6XCII	D	D	D				D	D	D		D	D
8/3/2020	XX	LFXXXXD5F	F6	F6	F6				F6	F6	F6		F6	F6
9/27/2020	XX	LFXXXXD6B	F6	F6	F6				F6	F6	F6		F6	F6
10/27/2020	XX	LFUD6XD41	D	D	D				D	D	D		D	D
10/31/2020	XX	LFXXXXD75	F6	F6	F6				F6	F6	F6		F6	F6
11/29/2020	XX	LFXXXXD7J	F6	F6	F6				F6	F6	F6		F6	F6
12/13/2020	XX	LFXXXXD8D	F6	F6	F6				F6	F6	F6		F6	F6
LF-UD-7														
11/30/2011	XX	LFUD7X510	H2	H2	H2				H2	H2			H2	H2
12/29/2011	XX	LFUD7X508	H2	H2	H2				H2	H2			H2	H2
1/26/2012	XX	LFUD7X590	H8	H8	H8				H8	H8			H8	H8
2/24/2012	XX	LFUD7X59B	H8	H8	H8				H8	H8			H8	H8
3/23/2012	XX	LFUD7X5A2	F6	F6	F6				F6	F6			F6	F6
4/16/2012	XX	LFUD7X5AD	F6	F6	F6				F6	F6			F6	F6
4/24/2012	XX	LFUD7X53A	H2	H2	H2				H2	H2			H2	H2
5/3/2012	XX	LFUD7X5B4	H2	H2	H2				H2	H2			H2	H2
6/29/2012	XX	LFUD7X5BF	H8	H8	H8				H8	H8			H8	H8
7/24/2012	XX	LFXXXX587	F6	F6	F6				F6	F6			F6	F6
7/31/2012	XX	LFUD7X5C6	H8	H8	H8				H8	H8			H8	H8
8/31/2012	XX	LFUD7X5F7	H8	H8	H8				H8	H8			H8	H8
9/27/2012	XX	LFUD7X5FI	H8	H8	H8				H8	H8			H8	H8
10/23/2012	XX	LFXXXX5EF	F6	F6	F6				F6	F6			F6	F6
11/13/2012	XX	LFUD7X5G9	H8	H8	H8				H8	H8			H8	H8
12/31/2012	XX	LFUD7X5GJ	H8	H8	H8				H8	H8			H8	H8
1/30/2013	XX	LFUD7X60F	H8	H8	H8				H8	H8			H8	H8
2/15/2013	XX	LFUD7X603	H8	H8	H8				H8	H8			H8	H8
3/28/2013	XX	LFUD7X618	H8	H8	H8				H8	H8			H8	H8
4/23/2013	XX	LFUD7X5JA	F6	F6	F6				F6	F6			F6	F6
4/24/2013	XX	LFUD7X620	H8	H8	H8				H8	H8			H8	H8
5/30/2013	XX	LFUD7X62C	H8	H8	H8				H8	H8			H8	H8
6/26/2013	XX	LFUD7X634	H8	H8	H8				H8	H8			H8	H8
7/30/2013	XX	LFUD7X65F	F6	F6	F6				F6	F6			F6	F6
8/20/2013	XX	LFUD7X69E	H8	H8	H8				H8	H8			H8	H8
9/26/2013	XX	LFUD7X692	H8	H8	H8				H8	H8			H8	H8

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/29/2013	XX	LFUD7X684	F6	F6	F6				F6	F6			F6	F6
11/25/2013	XX	LFUD7X6A7	H8	H8	H8				H8	H8			H8	H8
12/17/2013	XX	LFUD7X6D7	H8	H8	H8				H8	H8			H8	H8
1/24/2014	XX	LFUD7X6DJ	H8	H8	H8				H8	H8			H8	H8
2/24/2014	XX	LFUD7X6HG	H8	H8	H8				H8	H8			H8	H8
3/27/2014	XX	LFUD7X6H4	H8	H8	H8				H8	H8			H8	H8
4/22/2014	XX	LFUD7X6GB	F6	F6	F6				F6	F6			F6	F6
4/29/2014	XX	LFUD7X6I8	H8	H8	H8				H8	H8			H8	H8
5/23/2014	XX	LFUD7X717	H8	H8	H8				H8	H8			H8	H8
6/24/2014	XX	LFUD7X71J	H8	H8	H8				H8	H8			H8	H8
7/29/2014	XX	LFUD7X70D	F6	F6	F6				F6	F6			F6	F6
8/26/2014	XX	LFUD7X74J	F6	F6	F6				F6	F6			F6	F6
9/23/2014	XX	LFUD7X75A	H8	H8	H8				H8	H8			H8	H8
10/21/2014	XX	LFUD7X741	F6	F6	F6				F6	F6			F6	F6
11/28/2014	XX	LFUD7X762	H8	H8	H8				H8	H8			H8	H8
12/24/2014	XX	LFUD7X76F	H8	H8	H8				H8	H8			H8	H8
2/3/2015	XX	LFUD7X776	H8	H8	H8				H8	H8			H8	H8
2/21/2015	XX	LFUD7X77H	H8	H8	H8				H8	H8			H8	H8
3/28/2015	XX	LFUD7X7AF	H8	H8	H8				H8	H8			H8	H8
4/16/2015	XX	LFUD7X7B8	F6	F6	F6				F6	F6			F6	F6
4/28/2015	XX	LFUD7X7A1	F6	F6	F6				F6	F6			F6	F6
5/22/2015	XX	LFUD7X7FD	F6	F6	F6				F6	F6			F6	F6
6/22/2015	XX	LFUD7X7F1	F6	F6	F6				F6	F6			F6	F6
7/14/2015	XX	LFUD7X7DD	F6	F6	F6				F6	F6			F6	F6
7/23/2015	XX	LFUD7X7G5	F12	F12	F12				F12	F12			F12	F12
8/24/2015	XX	LFUD7X7GH	F12	F12	F12				F12	F12			F12	F12
9/26/2015	XX	LFUD7X80A	F6	F6	F6				F6	F6			F6	F6
10/27/2015	XX	LFUD7X7J0	F6	F6	F6				F6	F6			F6	F6
10/31/2015	XX	LFUD7X812	F6	F6	F6				F6	F6			F6	F6
11/27/2015	XX	LFUD7X81E	F6	F6	F6				F6	F6			F6	F6
12/30/2015	XX	LFUD7X827	F6	F6	F6				F6	F6	F6		F6	F6
1/14/2016	XX	LFUD7X82J	F6	F6	F6				F6	F6	F6		F6	F6
2/18/2016	XX	LFUD7X88B	F6	F6	F6				F6	F6	F6		F6	F6
3/17/2016	XX	LFUD7X893	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2016	XX	LFUD7X87C	F6	F6	F6				F6	F6	F6		F6	F6
4/21/2016	XX	LFUD7X89F	F6	F6	F6				F6	F6	F6		F6	F6
5/26/2016	XX	LFUD7X8D1	F6	F6	F6				F6	F6	F6		F6	F6
6/27/2016	XX	LFUD7X8E5	F6	F6	F6				F6	F6	F6		F6	F6
7/20/2016	XX	LFUD7X8F9	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LFUD7X8C2	F6	F6	F6				F6	F6	F6			F6
8/29/2016	XX	LFUD7X91B	F6	F6	F6				F6	F6	F6			F6
9/23/2016	XX	LFUD7X93J	F6	F6	F6				F6	F6	F6			F6
10/25/2016	XX	LFUD7X900	F6	F6	F6				F6	F6	F6			F6
10/31/2016	XX	LFUD7X94D	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFUD7X958	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2016	XX	LFUD7X961	H8	H8	H8				H8	H8	H8		H8	H8
1/10/2017	XX	LFUD7X9A0	H8	H8	H8				H8	H8	H8		H8	H8
2/8/2017	XX	LFUD7X9AD	H8	H8	H8				H8	H8	H8		H8	H8
3/3/2017	XX	LFUD7X9B6	H8	H8	H8				H8	H8	H8		H8	H8
4/5/2017	XX	LFUD7X997	H8	H8	H8				H8	H8	H8		H8	H8

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-7)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/18/2017	XX	LFUD7X987	F6	F6	F6				F6	F6	F6			F6
5/25/2017	XX	LFUD7X9BJ	F6	F6	F6				F6	F6	F6		F6	F6
6/16/2017	XX	LFUD7X9F0	F6	F6	F6				F6	F6	F6		F6	F6
7/25/2017	XX	LFUD7X9E4	F6	F6	F6				F6	F6	F6		F6	F6
7/31/2017	XX	LFUD7X9FD	H8	H8	H8				H8	H8	H8		H8	H8
8/31/2017	XX	LFUD7X9J3	F6	F6	F6				F6	F6	F6		F6	F6
9/28/2017	XX	LFUD7X9JF	H8	H8	H8				H8	H8	H8		H8	H8
10/25/2017	XX	LFUD7X9HJ	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFUD7XA07	H8	H8	H8				H8	H8	H8		H8	H8
11/30/2017	XX	LFUD7XA0J	F6	F6	F6				F6	F6	F6		F6	F6
12/27/2017	XX	LFUD7XA1C	F6	F6	F6				F6	F6	F6		F6	F6
1/19/2018	XX	LFUD7XA4I	F6	F6	F6				F6	F6	F6		F6	F6
2/22/2018	XX	LFUD7XA5B	F6	F6	F6				F6	F6	F6		F6	F6
3/24/2018	XX	LFUD7XA97	F6	F6	F6				F6	F6	F6		F6	F6
4/3/2018	XX	LFUD7XA3J	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2018	XX	LFUD7XAA0	H8	H8	H8				H8	H8	H8		H8	H8
5/11/2018	XX	LFUD7XAAD	F6	F6	F6				F6	F6	F6		F6	F6
6/2/2018	XX	LFUD7XADH	H8	H8	H8				H8	H8	H8		H8	H8
7/2/2018	XX	LFUD7XAIH	H8	H8	H8				H8	H8	H8		H8	H8
7/17/2018	XX	LFUD7XACJ	F6	F6	F6				F6	F6	F6		F6	F6
8/17/2018	XX	LFUD7XAJC	H8	H8	H8				H8	H8	H8		H8	H8
9/1/2018	XX	LFUD7XB2I	H8	H8	H8				H8	H8	H8		H8	H8
10/2/2018	XX	LFUD7XB1H	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFUD7XB3C	H8	H8	H8				H8	H8	H8		H8	H8
11/2/2018	XX	LFUD7XB46	H8	H8	H8				H8	H8	H8		H8	H8
12/7/2018	XX	LFUD7XB85	H8	H8	H8				H8	H8			H8	H8
1/3/2019	XX	LFUD7XB8J	H8	H8	H8				H8	H8			H8	H8
2/2/2019	XX	LFUD7XB9D	H8	H8	H8				H8	H8			H8	H8
3/2/2019	XX	LFUD7XBA7	H8	H8	H8				H8	H8			H8	H8
4/5/2019	XX	LFUD7XBB1	H8	H8	H8				H8	H8			H8	H8
4/23/2019	XX	LFUD7XB6F	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFUD7XBED	H8	H8	H8				H8	H8	H8		H8	H8
6/24/2019	XX	LFUD7XBF7	H8	H8	H8				H8	H8	H8		H8	H8
7/16/2019	XX	LFUD7XBD6	F6	F6	F6				F6	F6	F6		F6	F6
7/30/2019	XX	LFUD7XBG1	H8	H8	H8				H8	H8	H8		H8	H8
8/20/2019	XX	LFUD7XBGF	H8	H8	H8				H8	H8	H8		H8	H8
9/20/2019	XX	LFUD7XC08	H8	H8	H8				H8	H8	H8		H8	H8
10/14/2019	XX	LFUD7XC12	H8	H8	H8				H8	H8	H8		H8	H8
10/29/2019	XX	LFUD7XBII	F6	F6	F6				F6	F6	F6		F6	F6
11/27/2019	XX	LFUD7XC1G	H8	H8	H8				H8	H8	H8		H8	H8
12/23/2019	XX	LFUD7XC36	H8	H8	H8				H8	H8	H8		H8	H8
1/17/2020	XX	LFUD7XC41	H8	H8	H8				H8	H8	H8		H8	H8
2/4/2020	XX	LFUD7XC4G	H8	H8	H8				H8	H8	H8		H8	H8
3/27/2020	XX	LFUD7XCFC	H8	H8	H8				H8	H8	H8		H8	H8
4/28/2020	XX	LFUD7XCE6	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFUD7XCG6	H8	H8	H8				H8	H8	H8		H8	H8
5/27/2020	XX	LFUD7XD05	H8	H8	H8				H8	H8	H8		H8	H8
6/28/2020	XX	LFUD7XD0J	H8	H8	H8				H8	H8	H8		H8	H8
7/11/2020	XX	LFUD7XD1D	H8	H8	H8				H8	H8	H8		H8	H8
7/21/2020	XX	LFUD7XCIJ	F6	F6	F6				F6	F6	F6		F6	F6

(LF-UD-7)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
8/3/2020	XX	LFUD7XD5B	H8	H8	H8				H8	H8	H8		H8	H8
9/27/2020	XX	LFUD7XD67	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2020	XX	LFUD7XD42	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2020	XX	LFUD7XD71	H8	H8	H8				H8	H8	H8		H8	H8
11/29/2020	XX	LFUD7XD7F	H8	H8	H8				H8	H8	H8		H8	H8
12/13/2020	XX	LFUD7XD89	H8	H8	H8				H8	H8	H8		H8	H8

LF-UD-8

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/30/2013	XX	LFUD8X60H	64	7.5	7.1				431	10			50 <	24.35
2/15/2013	XX	LFUD8X605	F	F	F				F	F	F		F	F
3/28/2013	XX	LFUD8X61A	290	8.1	8.8				350	8			150	0.27
4/23/2013	XX	LFUD8X5JD	319	7.1	9.9				235	5	0.0011		145	1.2
4/24/2013	XX	LFUD8X622	243	7.1	11.2				359	8	0.0002		140	0.04
5/30/2013	XX	LFUD8X62E	F12	F12	F12				F12	F12	F12		F12	F12
6/26/2013	XX	LFUD8X636	F12	F12	F12				F12	F12	F12		F12	F12
7/30/2013	XX	LFUD8X65G	355	6.8	17.9				269	5	0.0022		140	0.8
8/20/2013	XX	LFUD8X69G	H2	H2	H2				H2	H2	H2		H2	H2
9/26/2013	XX	LFUD8X694	363	7.1	16				568	8	0.0003		135	0.8
10/29/2013	XX	LFUD8X685	407	7	9.6				435	5	0.0011		140	0.6
11/25/2013	XX	LFUD8X6A9	374	7.2	9.9				401	10	0.00003		165	0.42
12/17/2013	XX	LFUD8X6D9	344	7.2	5.9				405	6	0.0002		185	0.64
1/24/2014	XX	LFUD8X6E1	F	F	F				F	F	F		F	F
2/24/2014	XX	LFUD8X6HH	F12	F12	F12				F12	F12	F12		F12	F12
3/27/2014	XX	LFUD8X6H5	F12	F12	F12				F12	F12	F12		F12	F12
4/22/2014	XX	LFUD8X6GC	F12	F12	F12				F12	F12	F12		F12	F12
4/29/2014	XX	LFUD8X6I9	F12	F12	F12				F12	F12	F12		F12	F12
5/23/2014	XX	LFUD8X718	F12	F12	F12				F12	F12	F12		F12	F12
6/24/2014	XX	LFUD8X720	F12	F12	F12				F12	F12	F12		F12	F12
7/29/2014	XX	LFUD8X70E	108	7.8	24				397	5	0.0022		15	0.8
8/26/2014	XX	LFUD8X750	F12	F12	F12				F12	F12	F12		F12	F12
9/23/2014	XX	LFUD8X75B	F6	F6	F6				F6	F6	F6		F6	F6
10/21/2014	XX	LFUD8X742	96	7.9	12.3				332	6	0.0022		25	2.6
11/28/2014	XX	LFUD8X763	F12	F12	F12				F12	F12	F12		F12	F12
12/24/2014	XX	LFUD8X76G	F12	F12	F12				F12	F12	F12		F12	F12
2/3/2015	XX	LFUD8X777	F	F	F				F	F	F		F	F
2/21/2015	XX	LFUD8X77I	F6	F6	F6				F6	F6	F6		F6	F6
3/28/2015	XX	LFUD8X7AG	F6	F6	F6				F6	F6	F6		F6	F6
4/16/2015	XX	LFUD8X7B9	F12	F12	F12				F12	F12	F12		F12	F12
4/28/2015	XX	LFUD8X7A2	100	7.9	9.7				375	10.8	0.0045			1.8
5/22/2015	XX	LFUD8X7FE	F12	F12	F12				F12	F12	F12		F12	F12
6/22/2015	XX	LFUD8X7F2	F12	F12	F12				F12	F12	F12		F12	F12
7/14/2015	XX	LFUD8X7DE	I	I	I				I	I	I		I	I
7/23/2015	XX	LFUD8X7G6	F12	F12	F12				F12	F12	F12		F12	F12
8/24/2015	XX	LFUD8X7GI	F12	F12	F12				F12	F12	F12		F12	F12
9/26/2015	XX	LFUD8X80B	H8	H8	H8				H8	H8	H8		H8	H8
10/27/2015	XX	LFUD8X7J1	F6	F6	F6				F6	F6	F6			F6
10/31/2015	XX	LFUD8X813	F12	F12	F12				F12	F12	F12		F12	F12
11/27/2015	XX	LFUD8X81F	F6	F6	F6				F6	F6	F6		F6	F6
12/30/2015	XX	LFUD8X828	F12	F12	F12				F12	F12	F12		F12	F12
1/14/2016	XX	LFUD8X830	F12	F12	F12				F12	F12	F12		F12	F12

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-8)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
2/18/2016	XX	LFUD8X88C	F12	F12	F12				F12	F12	F12		F12	F12
3/17/2016	XX	LFUD8X894	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2016	XX	LFUD8X87D	F6	F6	F6				F6	F6	F6		F6	F6
4/21/2016	XX	LFUD8X89G	F12	F12	F12				F12	F12	F12		F12	F12
5/26/2016	XX	LFUD8X8D2	F12	F12	F12				F12	F12	F12		F12	F12
6/27/2016	XX	LFUD8X8E6	F6	F6	F6				F6	F6	F6		F6	F6
7/20/2016	XX	LFUD8X8FA	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LFUD8X8C3	F6	F6	F6				F6	F6	F6			F6
8/29/2016	XX	LFUD8X91C	F6	F6	F6				F6	F6	F6			F6
9/23/2016	XX	LFUD8X940	F6	F6	F6				F6	F6	F6			F6
10/25/2016	XX	LFUD8X901	D	D	D				D	D	D			D
10/31/2016	XX	LFUD8X94E	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFUD8X959	F6	F6	F6				F6	F6	F6			F6
12/13/2016	XX	LFUD8X962	F6	F6	F6				F6	F6	F6			F6
1/10/2017	XX	LFUD8X9A1	A	A	A				A	A	A		A	A
2/8/2017	XX	LFUD8X9AE	A	A	A				A	A	A		A	A
3/3/2017	XX	LFUD8X9B9	A	A	A				A	A	A		A	A
4/5/2017	XX	LFUD8X998	A	A	A				A	A	A		A	A
4/18/2017	XX	LFUD8X988	65	7.4	9.5				315	9.3	0.0006			1.2
5/25/2017	XX	LFUD8X9C0	F12	F12	F12				F12	F12	F12		F12	F12
6/16/2017	XX	LFUD8X9F1	F6	F6	F6				F6	F6	F6		F6	F6
7/25/2017	XX	LFUD8X9E5	D	D	D				D	D	D		D	D
7/31/2017	XX	LFUD8X9FE	F6	F6	F6				F6	F6	F6		F6	F6
8/31/2017	XX	LFUD8X9J4	F6	F6	F6				F6	F6	F6		F6	F6
9/28/2017	XX	LFUD8X9JG	F6	F6	F6				F6	F6	F6		F6	F6
10/25/2017	XX	LFUD8X9I0	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LFUD8XA08	F6	F6	F6				F6	F6	F6		F6	F6
11/30/2017	XX	LFUD8XA10	F6	F6	F6				F6	F6	F6		F6	F6
12/27/2017	XX	LFUD8XA1D	F	F	F				F	F	F		F	F
1/19/2018	XX	LFUD8XA4J	F6	F6	F6				F6	F6	F6		F6	F6
2/22/2018	XX	LFUD8XA5C	F6	F6	F6				F6	F6	F6		F6	F6
3/24/2018	XX	LFUD8XA98	F12	F12	F12				F12	F12	F12		F12	F12
4/3/2018	XX	LFUD8XA40	90	8.5	2.8				482	6.8	0.00223			2.6
4/28/2018	XX	LFUD8XAA1	F12	F12	F12				F12	F12	F12		F12	F12
5/11/2018	XX	LFUD8XAAE	F12	F12	F12				F12	F12	F12		F12	F12
6/2/2018	XX	LFUD8XADI	F12	F12	F12				F12	F12	F12		F12	F12
7/2/2018	XX	LFUD8XAII	F12	F12	F12				F12	F12	F12		F12	F12
7/17/2018	XX	LFUD8XAD0	D	D	D				D	D	D		D	D
8/17/2018	XX	LFUD8XAJD	F6	F6	F6				F6	F6	F6		F6	F6
9/1/2018	XX	LFUD8XB2J	F6	F6	F6				F6	F6	F6		F6	F6
10/2/2018	XX	LFUD8XB1I	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFUD8XB3D	F6	F6	F6				F6	F6	F6		F6	F6
11/2/2018	XX	LFUD8XB47	F6	F6	F6				F6	F6	F6		F6	F6
12/7/2018	XX	LFUD8XB86	F6	F6	F6				F6	F6			F6	F6
1/3/2019	XX	LFUD8XB90	F6	F6	F6				F6	F6			F6	F6
2/2/2019	XX	LFUD8XB9E	F6	F6	F6				F6	F6			F6	F6
3/2/2019	XX	LFUD8XBA8	F6	F6	F6				F6	F6			F6	F6
4/5/2019	XX	LFUD8XBB2	F6	F6	F6				F6	F6	F6		F6	F6
4/23/2019	XX	LFUD8XB6G	88	6.8	7.9				347	9.3	0.0022			1.2
5/10/2019	XX	LFUD8XBEE	F6	F6	F6				F6	F6	F6			F6

(LF-UD-8)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
6/24/2019	XX	LFUD8XBF8	F12	F12	F12				F12	F12	F12			F12
7/16/2019	XX	LFUD8XBD7	71	8.3	26.9				305	6				2.1
7/30/2019	XX	LFUD8XBG2	F6	F6	F6				F6	F6				F6
8/20/2019	XX	LFUD8XBGG	H6	H6	H6				H6	H6				H6
9/20/2019	XX	LFUD8XC09	F6	F6	F6				F6	F6	F6			F6
10/14/2019	XX	LFUD8XC13	F6	F6	F6				F6	F6	F6			F6
10/29/2019	XX	LFUD8XBIJ	105	8	10				250	10.9	0.0011			2.1
11/27/2019	XX	LFUD8XC1H	F	F	F				F	F	F			F
12/23/2019	XX	LFUD8XC37	F	F	F				F	F	F			F
1/17/2020	XX	LFUD8XC42	F	F	F				F	F	F			F
2/4/2020	XX	LFUD8XC4H	F6	F6	F6				F6	F6	F6			F6
3/27/2020	XX	LFUD8XCFD	F6	F6	F6				F6	F6	F6			F6
4/28/2020	XX	LFUD8XCE7	F6	F6	F6				F6	F6	F6			F6
4/29/2020	XX	LFUD8XCG7	F6	F6	F6				F6	F6	F6			F6
5/27/2020	XX	LFUD8XD06	F6	F6	F6				F6	F6	F6			F6
6/28/2020	XX	LFUD8XD10	F6	F6	F6				F6	F6	F6			F6
7/11/2020	XX	LFUD8XD1E	F6	F6	F6				F6	F6	F6			F6
7/21/2020	XX	LFUD8XCJ0	F6	F6	F6				F6	F6	F6			F6
8/3/2020	XX	LFUD8XD5C	F6	F6	F6				F6	F6	F6			F6
9/27/2020	XX	LFUD8XD68	F6	F6	F6				F6	F6	F6			F6
10/27/2020	XX	LFUD8XD43	D	D	D				D	D	D			D
10/31/2020	XX	LFUD8XD72	F6	F6	F6				F6	F6	F6			F6
11/29/2020	XX	LFUD8XD7G	F6	F6	F6				F6	F6	F6			F6
12/13/2020	XX	LFUD8XD8A	F6	F6	F6				F6	F6	F6			F6
LF-UD-9														
4/5/2016	XX	LFUD9X881	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LFUD9X8CA	F12	F12	F12				F12	F12	F12			F12
10/25/2016	XX	LFUD9X905	F6	F6	F6				F6	F6	F6			F6
10/31/2016	XX	LFUD9X94G	H8	H8	H8				H8	H8	H8			H8
11/29/2016	XX	LFUD9X95B	F6	F6	F6				F6	F6	F6			F6
12/13/2016	XX	LFUD9X964	F6	F6	F6				F6	F6	F6			F6
1/10/2017	XX	LFUD9X9A3	F6	F6	F6				F6	F6	F6		F6	F6
2/8/2017	XX	LFUD9X9AG	F6	F6	F6				F6	F6	F6		F6	F6
3/3/2017	XX	LFUD9X9B9	F6	F6	F6				F6	F6	F6		F6	F6
4/5/2017	XX	LFUD9X99A	F6	F6	F6				F6	F6	F6		F6	F6
4/18/2017	XX	LFUD9X98F	292	7.6	7.1				375	10.8	0.0011			1.2
5/25/2017	XX	LFUD9X9C2	F6	F6	F6				F6	F6	F6		F6	F6
6/16/2017	XX	LFUD9X9F3	DE	DE	DE				DE	DE	DE		DE	DE
10/25/2017	XX	LFUD9X9I4	F6	F6	F6				F6	F6	F6		F6	F6
1/19/2018	XX	LFUD9XA4H	F6	F6	F6				F6	F6	F6		F6	F6
2/22/2018	XX	LFUD9XA5A	F6	F6	F6				F6	F6	F6		F6	F6
3/24/2018	XX	LFUD9XA96	176	7.3	8				458	9	0.00334		50 U	44.8
4/3/2018	XX	LFUD9XA47	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2018	XX	LFUD9XA9J	F6	F6	F6				F6	F6	F6		F6	F6
5/11/2018	XX	LFUD9XAAC	F6	F6	F6				F6	F6	F6		F6	F6
6/2/2018	XX	LFUD9XADG	F6	F6	F6				F6	F6	F6		F6	F6
7/2/2018	XX	LFUD9XAIG	F6	F6	F6				F6	F6	F6		F6	F6
7/17/2018	XX	LFUD9XAD4	D	D	D				D	D	D		D	D
8/17/2018	XX	LFUD9XAJB	F6	F6	F6				F6	F6	F6		F6	F6

SUMMARY REPORT

Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-9)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/1/2018	XX	LFUD9XB2H	F6	F6	F6				F6	F6	F6		F6	F6
10/2/2018	XX	LFUD9XB22	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFUD9XB3B	F6	F6	F6				F6	F6	F6		F6	F6
11/2/2018	XX	LFUD9XB45	135	7.3	10.7				379	7	0.0045		25	49.6
12/7/2018	XX	LFUD9XB84	F6	F6	F6				F6	F6			F6	F6
1/3/2019	XX	LFUD9XB8I	F6	F6	F6				F6	F6			F6	F6
2/2/2019	XX	LFUD9XB9C	F6	F6	F6				F6	F6			F6	F6
3/2/2019	XX	LFUD9XBA6	F6	F6	F6				F6	F6			F6	F6
4/5/2019	XX	LFUD9XBB0	F6	F6	F6				F6	F6			F6	F6
4/23/2019	XX	LFUD9XB73	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFUD9XBEC	201	6.6	15.1				278	7	0.0004		30	9.6
6/24/2019	XX	LFUD9XBF6	F6	F6	F6				F6	F6	F6		F6	F6
7/16/2019	XX	LFUD9XBDD	F6	F6	F6				F6	F6	F6		F6	F6
7/30/2019	XX	LFUD9XBG0	F6	F6	F6				F6	F6	F6		F6	F6
8/20/2019	XX	LFUD9XBGE	F6	F6	F6				F6	F6	F6		F6	F6
9/20/2019	XX	LFUD9XC07	F6	F6	F6				F6	F6	F6		F6	F6
10/14/2019	XX	LFUD9XC11	F6	F6	F6				F6	F6	F6		F6	F6
10/29/2019	XX	LFUD9XBJ3	F6	F6	F6				F6	F6	F6		F6	F6
11/27/2019	XX	LFUD9XC1F	F6	F6	F6				F6	F6	F6		F6	F6
12/23/2019	XX	LFUD9XC35	F6	F6	F6				F6	F6	F6		F6	F6
1/17/2020	XX	LFUD9XC40	F6	F6	F6				F6	F6	F6		F6	F6
2/4/2020	XX	LFUD9XC4F	F6	F6	F6				F6	F6	F6		F6	F6
3/27/2020	XX	LFUD9XCFB	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2020	XX	LFUD9XCED	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFUD9XCG5	F6	F6	F6				F6	F6	F6		F6	F6
5/27/2020	XX	LFUD9XD04	F6	F6	F6				F6	F6	F6		F6	F6
6/28/2020	XX	LFUD9XD0I	F6	F6	F6				F6	F6	F6		F6	F6
7/11/2020	XX	LFUD9XD1C	F6	F6	F6				F6	F6	F6		F6	F6
7/21/2020	XX	LFUD9XCJ6	F6	F6	F6				F6	F6	F6		F6	F6
8/3/2020	XX	LFUD9XD5A	F6	F6	F6				F6	F6	F6		F6	F6
9/27/2020	XX	LFUD9XD66	F6	F6	F6				F6	F6	F6		F6	F6
10/27/2020	XX	LFUD9XD47	D	D	D				D	D	D		D	D
10/31/2020	XX	LFUD9XD70	F6	F6	F6				F6	F6	F6		F6	F6
11/29/2020	XX	LFUD9XD7E	F6	F6	F6				F6	F6	F6		F6	F6
12/13/2020	XX	LFUD9XD88	F6	F6	F6				F6	F6	F6		F6	F6
LF-UD-10														
10/25/2017	XX	LFXXXX9ID	F6	F6	F6				F6	F6	F6			F6
12/27/2017	XX	LFXXXXA1F	F6	F6	F6				F6	F6	F6			F6
1/19/2018	XX	LFXXXXA51	F6	F6	F6				F6	F6	F6			F6
2/22/2018	XX	LFXXXXA5E	119	6.8	5.1				420	9	0.00056			12.9
3/24/2018	XX	LFXXXXA9A	175	7	8.8				455	8	0.00334		50 U	43.4
4/3/2018	XX	LFXXXXA48	F6	F6	F6				F6	F6	F6			F6
4/28/2018	XX	LFXXXXAA3	F6	F6	F6				F6	F6	F6		F6	F6
5/11/2018	XX	LFXXXXAAG	F6	F6	F6				F6	F6	F6		F6	F6
6/2/2018	XX	LFXXXXAE0	F6	F6	F6				F6	F6	F6			F6
7/2/2018	XX	LFXXXXAJ0	F6	F6	F6				F6	F6	F6			F6
7/17/2018	XX	LFU10XAD6	D	D	D				D	D	D			D
8/17/2018	XX	LFXXXXAJF	F6	F6	F6				F6	F6	F6			F6
9/1/2018	XX	LFXXXXB31	F6	F6	F6				F6	F6	F6			F6

SEVEE & MAHER ENGINEERS, INC.
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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
(LF-UD-10)														
10/3/2018	XX	LFXXXXB27	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LFXXXXB3F	F6	F6	F6				F6	F6	F6			F6
11/2/2018	XX	LFXXXXB49	134	7.3	10.6				387	7	0.0045		25	49.6
12/7/2018	XX	LFXXXXB88	F6	F6	F6				F6	F6			F6	F6
1/3/2019	XX	LFXXXXB92	F6	F6	F6				F6	F6			F6	F6
2/2/2019	XX	LFXXXXB9G	F6	F6	F6				F6	F6			F6	F6
3/2/2019	XX	LFXXXXBAA	F6	F6	F6				F6	F6			F6	F6
4/5/2019	XX	LFXXXXBB4	F6	F6	F6				F6	F6			F6	F6
4/23/2019	XX	LFXXXXB74	F6	F6	F6				F6	F6	F6		F6	F6
5/10/2019	XX	LFXXXXBEG	111	7.3	14.9				295	7	0.0178		0 D3	49.5
6/24/2019	XX	LFXXXXBFA	F6	F6	F6				F6	F6	F6		F6	F6
7/16/2019	XX	LFXXXXBDE	F6	F6	F6				F6	F6	F6		F6	F6
7/30/2019	XX	LFXXXXBG4	F6	F6	F6				F6	F6	F6		F6	F6
8/20/2019	XX	LFXXXXBGI	F6	F6	F6				F6	F6	F6		F6	F6
9/20/2019	XX	LFXXXXC0B	F6	F6	F6				F6	F6	F6		F6	F6
10/14/2019	XX	LFXXXXC15	F6	F6	F6				F6	F6	F6		F6	F6
10/29/2019	XX	LFXXXXBJ7	F6	F6	F6				F6	F6	F6		F6	F6
11/27/2019	XX	LFXXXXC1J	F6	F6	F6				F6	F6	F6		F6	F6
12/23/2019	XX	LFXXXXC39	F6	F6	F6				F6	F6	F6		F6	F6
1/17/2020	XX	LFXXXXC44	F6	F6	F6				F6	F6	F6		F6	F6
2/4/2020	XX	LFXXXXC4J	F6	F6	F6				F6	F6	F6		F6	F6
3/27/2020	XX	LFXXXXCFF	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2020	XX	LFXXXXCEE	F6	F6	F6				F6	F6	F6		F6	F6
4/29/2020	XX	LFXXXXCG9	F6	F6	F6				F6	F6	F6		F6	F6
5/27/2020	XX	LFXXXXD08	F6	F6	F6				F6	F6	F6		F6	F6
6/28/2020	XX	LFXXXXD12	F6	F6	F6				F6	F6	F6		F6	F6
7/11/2020	XX	LFXXXXD1G	F6	F6	F6				F6	F6	F6		F6	F6
7/21/2020	XX	LFXXXXCJ7	F6	F6	F6				F6	F6	F6		F6	F6
8/3/2020	XX	LFXXXXD5E	F6	F6	F6				F6	F6	F6		F6	F6
9/27/2020	XX	LFXXXXD6A	F6	F6	F6				F6	F6	F6		F6	F6
10/27/2020	XX	LFXXXXD4B	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2020	XX	LFXXXXD74	F6	F6	F6				F6	F6	F6		F6	F6
11/29/2020	XX	LFXXXXD7I	F6	F6	F6				F6	F6	F6		F6	F6
12/13/2020	XX	LFXXXXD8C	F6	F6	F6				F6	F6	F6		F6	F6
LP-COMP														
8/1/2011	XX	LPCMPX4JG	315	7.1	21.4				346	6			83	0.1
10/8/2011	XX	LPCMPX4J5	296	7.2	18.2				377	5			95	1.2
11/30/2011	XX	LPCMPX50J	296	7.2	10.3				372				90	0.4
12/29/2011	XX	LPCMPX507	315	7.6	8.3				374	10			110	3.1
1/26/2012	XX	LPCMPX58J	315	7.6	9.1				371	6			110	1.47
2/24/2012	XX	LPCMPX59A	323	7.8	13				354	8			125	1.74
3/23/2012	XX	LPCMPX5A1	320	7.6	15.3				360	6			125	0.39
4/16/2012	XX	LPCMPX5AC	331	7.3	13.2				377	6			150	0.48
5/3/2012	XX	LPCMPX5B3	324	7.4	14.3				395	10			120	0.42
7/31/2012	XX	LPCMPX5C5	355	7	22				363	8			125	0.79
3/28/2015	XX	LPCMPX7AH	320	7.1	11.4				387	4.5			135	1.78
4/16/2015	XX	LPCMPX7BA	261	7.5	17.6				370	8			125	1.74
7/23/2015	XX	LPCMPX7G7	326	7.2	20.2				350	9			155	0.4
8/24/2015	XX	LPCMPX7GJ	317	7	20.2				361	6			160	0.2

SEVEE & MAHER ENGINEERS, INC.
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(LP-COMP)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/31/2015	XX	LPCMPX814	284	7.4	13.8				353	8			130	0.5
11/27/2015	XX	LPCMPX81G	312	7	15				377	8			170	0.8
12/30/2015	XX	LPCMPX829	306	7.2	8.8				361	10			160	0.9
1/14/2016	XX	LPCMPX831	307	6.4	6.2				327	8			150	0.5
2/18/2016	XX	LPCMPX88D	285	7.2	11.2				346	8			145	1
3/17/2016	XX	LPCMPX895	305	7	11.3				331	10			155	0.4
4/21/2016	XX	LPCMPX89H	302	7.1	11.9				335	9			120	1.3
5/26/2016	XX	LPCMPX8D3	313	7	16.6				285	7			160	0.3
6/27/2016	XX	LPCMPX8E7	333	6.6	17.9				520	7			165	0.8
7/20/2016	XX	LPCMPX8FB	328	6.7	20.3				362	7			155	0.3
8/29/2016	XX	LPCMPX91D	261	6.44	21.2				346	7			125	0.5
9/23/2016	XX	LPCMPX941	265	6.63	18				313	7			130	0.3
10/31/2016	XX	LPCMPX94F	250	6.84	15.1				347	4			75	0.3
11/29/2016	XX	LPCMPX95A	269	7.25	7.5				378	6			110	0.6
12/13/2016	XX	LPCMPX963	143	7.5	5.8				362	9			115	0.2
1/10/2017	XX	LPCMPX9A2	122	7.05	13.6				364	7			110	0.4
2/8/2017	XX	LPCMPX9AF	123	6.95	10.5				377	5			95	0.7
3/3/2017	XX	LPCMPX9B8	92	6.91	15.1				370	6			75	2
4/5/2017	XX	LPCMPX999	115	6.88	18.4				362	6			95	0.4
5/25/2017	XX	LPCMPX9C1	205	6.6	13.8				359	3			90	0.6
6/16/2017	XX	LPCMPX9F2	235	6.9	14				346	7			115	0.6
7/31/2017	XX	LPCMPX9FF	333	7.1	21.2				330	7			180	0.6
8/31/2017	XX	LPCMPX9J5	325	6.8	19.1				346	7			180	0.2
9/28/2017	XX	LPCMPX9JH	324	7.3	18.3				330	7			125	0.3
10/26/2017	XX	LPCMPXA09	317	6.8	17.1				415	7			165	1.7
11/30/2017	XX	LPCMPXA11	311	7.3	12				367	6			165	0.7
12/27/2017	XX	LPCMPXA1E	304	6.2	11.4				376	7			140	1
1/19/2018	XX	LPCMPXA50	306	7	6.9				389	8			150	0.2
2/22/2018	XX	LPCMPXA5D	297	7.5	7				386	9			110	1.3
3/24/2018	XX	LPCMPXA99	310	6.5	9.1				396	9			120	2.1
4/28/2018	XX	LPCMPXAA2	257	7.2	14.6				415	10			125	0.5
5/11/2018	XX	LPCMPXAAF	294	6.9	10.8				415	9			110	2
6/2/2018	XX	LPCMPXADJ	472	6.7	13.8				373	7			120	0.4
7/2/2018	XX	LPCMPXAIJ	332	7.2	19.1				359	8			130	0.6
8/17/2018	XX	LPCMPXAJE	335	6.7	21.3				324	8			130	3.2
9/1/2018	XX	LPCMPXB30	320	6.7	18.7				369	7			130	0.9
10/13/2018	XX	LPCMPXB3E	313	6	15.3				363	6			130	1.2
11/2/2018	XX	LPCMPXB48	269	6.6	12.1				354	8			110	2.2
12/7/2018	XX	LPCMPXB87	235	6.1	8.2				359	8			125	2.5
1/3/2019	XX	LPCMPXB91	310	6.8	5.2				375	7			125	4.7
2/2/2019	XX	LPCMPXB9F	429	7.7	3.4				378	7			130	7.4
3/2/2019	XX	LPCMPXBA9	289	6.4	6				356	6			130	2.1
4/5/2019	XX	LPCMPXBB3	260	8.1	13.1				363	7			130	0.9
5/10/2019	XX	LPCMPXBEF	248	6.8	13.8				327	6			130	0.9
6/24/2019	XX	LPCMPXBF9	270	7.2	15.1				366	8			125	0.5
7/30/2019	XX	LPCMPXBG3	280	7.1	20				354	8			150	0.4
8/20/2019	XX	LPCMPXBGH	273	7.4	25.1				352	8			140	0.2
9/20/2019	XX	LPCMPXC0A	294	7.2	21.7				361	6			125	0.2
10/14/2019	XX	LPCMPXC14	267	7.3	18.5				347	10			140	0.3
11/27/2019	XX	LPCMPXC1I	245	7.5	21				389	8			145	1.6

SEVEE & MAHER ENGINEERS, INC.
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(LP-COMP)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
12/23/2019	XX	LPCMPXC38	285	7.3	9.3				378				125	0.6
1/17/2020	XX	LPCMPXC43	247	7.2	7.8				415	10			135	1.8
2/4/2020	XX	LPCMPXC4I	256	7.2	10.2				361	10			100	1.1
3/27/2020	XX	LPCMPXCFE	225	7.3	10.7				418	6			135	0.5
4/29/2020	XX	LPCMPXCG8	268	7.2	14.8				352	8			140	1.6
5/27/2020	XX	LPCMPXD07	238	7.1	21.3				348	6			150	0.3
6/28/2020	XX	LPCMPXD11	275	7	22.4				322	6			150	1.8
7/11/2020	XX	LPCMPXD1F	293	6.9	22.2				352	5			175	0.2
8/3/2020	XX	LPCMPXD5D	303	7	22.4				360	6			160	0.1
9/27/2020	XX	LPCMPXD69	285	7.2	18				416	5			175	0.1
10/31/2020	XX	LPCMPXD73	288	7.4	14.5				403	8			150	1.2
11/29/2020	XX	LPCMPXD7H	286	7.3	14.9				426	6			150	0.8
12/13/2020	XX	LPCMPXD8B	274	7.1	11.9				385	6			135	2.7

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LPUD1X47D	F6	F6	F6				F6	F6			F6	F6
2/24/2011	XX	LPUD1X4BI	F6	F6	F6				F6	F6			F6	F6
3/25/2011	XX	LPUD1X4C8	F6	F6	F6				F6	F6			F6	F6
4/26/2011	XX	LPUD1X4A4	F6	F6	F6				F6	F6			F6	F6
5/25/2011	XX	LPUD1X4F7	F6	F6	F6				F6	F6			F6	F6
6/20/2011	XX	LPUD1X4FI	F6	F6	F6				F6	F6			F6	F6
7/19/2011	XX	LPUD1X4E2	F6	F6	F6				F6	F6			F6	F6
8/1/2011	XX	LPUD1X4J8	H9	H9	H9				H9	H9			H9	H9
10/8/2011	XX	LPUD1X4IG	H9	H9	H9				H9	H9			H9	H9
10/25/2011	XX	LPUD1X4HH	F6	F6	F6				F6	F6			F6	F6
11/30/2011	XX	LPUD1X50B	H9	H9	H9				H9	H9			H9	H9
12/29/2011	XX	LPUD1X4JJ	H9	H9	H9				H9	H9			H9	H9
1/26/2012	XX	LPUD1X58B	H9	H9	H9				H9	H9			H9	H9
2/24/2012	XX	LPUD1X593	H9	H9	H9				H9	H9			H9	H9
3/23/2012	XX	LPUD1X59E	H9	H9	H9				H9	H9			H9	H9
4/16/2012	XX	LPUD1X5A5	H5	H5	H5				H5	H5			H5	H5
4/24/2012	XX	LPUD1X527	F6	F6	F6				F6	F6			F6	F6
5/3/2012	XX	LPUD1X5AG	H9	H9	H9				H9	H9			H9	H9
6/29/2012	XX	LPUD1X5B7	F6	F6	F6				F6	F6			F6	F6
7/24/2012	XX	LPUD1X576	F6	F6	F6				F6	F6			F6	F6
7/31/2012	XX	LPUD1X5BI	H9	H9	H9				H9	H9			H9	H9
8/31/2012	XX	LPUD1X5EJ	F6	F6	F6				F6	F6			F6	F6
9/27/2012	XX	LPUD1X5FA	F6	F6	F6				F6	F6			F6	F6
10/23/2012	XX	LPUD1X5DH	F6	F6	F6				F6	F6			F6	F6
11/13/2012	XX	LPUD1X5G1	F6	F6	F6				F6	F6			F6	F6
12/31/2012	XX	LPUD1X5GC	F6	F6	F6				F6	F6			F6	F6
1/30/2013	XX	LPUD1X608	F6	F6	F6				F6	F6			F6	F6
2/15/2013	XX	LPUD1X5JG	F6	F6	F6				F6	F6			F6	F6
3/28/2013	XX	LPUD1X611	F6	F6	F6				F6	F6			F6	F6
4/23/2013	XX	LPUD1X5I8	F6	F6	F6				F6	F6			F6	F6
4/24/2013	XX	LPUD1X61D	F6	F6	F6				F6	F6			F6	F6
5/30/2013	XX	LPUD1X625	F6	F6	F6				F6	F6			F6	F6
6/26/2013	XX	LPUD1X62H	F6	F6	F6				F6	F6			F6	F6
7/30/2013	XX	LPUD1X64D	F6	F6	F6				F6	F6			F6	F6
8/20/2013	XX	LPUD1X697	F6	F6	F6				F6	F6			F6	F6

SEVEE & MAHER ENGINEERS, INC.
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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/26/2013	XX	LPUD1X68F	F6	F6	F6				F6	F6			F6	F6
10/29/2013	XX	LPUD1X676	F6	F6	F6				F6	F6			F6	F6
11/25/2013	XX	LPUD1X6A0	F6	F6	F6				F6	F6			F6	F6
12/17/2013	XX	LPUD1X6D0	F6	F6	F6				F6	F6			F6	F6
1/24/2014	XX	LPUD1X6DC	F6	F6	F6				F6	F6			F6	F6
2/24/2014	XX	LPUD1X6H9	F6	F6	F6				F6	F6			F6	F6
3/27/2014	XX	LPUD1X6GH	F6	F6	F6				F6	F6			F6	F6
4/22/2014	XX	LPUD1X6F9	F6	F6	F6				F6	F6			F6	F6
4/29/2014	XX	LPUD1X6I1	F6	F6	F6				F6	F6			F6	F6
5/23/2014	XX	LPUD1X710	F6	F6	F6				F6	F6			F6	F6
6/24/2014	XX	LPUD1X71C	F6	F6	F6				F6	F6			F6	F6
7/29/2014	XX	LPUD1X6JG	F6	F6	F6				F6	F6			F6	F6
8/26/2014	XX	LPUD1X74C	F6	F6	F6				F6	F6			F6	F6
9/23/2014	XX	LPUD1X753	F6	F6	F6				F6	F6			F6	F6
10/21/2014	XX	LPUD1X737	F6	F6	F6				F6	F6			F6	F6
11/28/2014	XX	LPUD1X75F	F6	F6	F6				F6	F6			F6	F6
12/24/2014	XX	LPUD1X768	F12	F12	F12				F12	F12			F12	F12
2/3/2015	XX	LPUD1X76J	F12	F12	F12				F12	F12			F12	F12
2/21/2015	XX	LPUD1X77A	F6	F6	F6				F6	F6			F6	F6
3/28/2015	XX	LPUD1X7A8	H9	H9	H9				H9	H9			H9	H9
4/16/2015	XX	LPUD1X7B1	H9	H9	H9				H9	H9			H9	H9
4/28/2015	XX	LPUD1X794	F6	F6	F6				F6	F6			F6	F6
5/22/2015	XX	LPUD1X7F6	F6	F6	F6				F6	F6			F6	F6
6/22/2015	XX	LPUD1X7EE	F6	F6	F6				F6	F6			F6	F6
7/14/2015	XX	LPUD1X7CG	F6	F6	F6				F6	F6			F6	F6
7/23/2015	XX	LPUD1X7FI	H9	H9	H9				H9	H9			H9	H9
8/24/2015	XX	LPUD1X7GA	H9	H9	H9				H9	H9			H9	H9
9/26/2015	XX	LPUD1X803	F6	F6	F6				F6	F6			F6	F6
10/26/2015	XX	LPUD1X7I5	F6	F6	F6				F6	F6				F6
10/31/2015	XX	LPUD1X80F	H9	H9	H9				H9	H9	H9		H9	H9
11/27/2015	XX	LPUD1X817	H9	H9	H9				H9	H9	H9		H9	H9
12/30/2015	XX	LPUD1X820	H9	H9	H9				H9	H9	H9		H9	H9
1/14/2016	XX	LPUD1X82C	H9	H9	H9				H9	H9	H9		H9	H9
2/18/2016	XX	LPUD1X884	H9	H9	H9				H9	H9	H9		H9	H9
3/17/2016	XX	LPUD1X88G	H9	H9	H9				H9	H9	H9		H9	H9
4/5/2016	XX	LPUD1X86F	F6	F6	F6				F6	F6	F6		F6	F6
4/21/2016	XX	LPUD1X898	H9	H9	H9				H9	H9	H9		H9	H9
5/26/2016	XX	LPUD1X8CE	H9	H9	H9				H9	H9	H9		H9	H9
6/27/2016	XX	LPUD1X8DI	H9	H9	H9				H9	H9	H9		H9	H9
7/20/2016	XX	LPUD1X8F2	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LPUD1X8B5	F6	F6	F6				F6	F6	F6		F6	F6
8/29/2016	XX	LPUD1X90D	F6	F6	F6				F6	F6	F6		F6	F6
9/23/2016	XX	LPUD1X93C	F12	F12	F12				F12	F12	F12		F12	F12
10/25/2016	XX	LPUD1X8J4	F6	F6	F6				F6	F6	F6		F6	F6
10/31/2016	XX	LPUD1X946	H9	H9	H9				H9	H9	H9		H9	H9
11/29/2016	XX	LPUD1X951	H9	H9	H9				H9	H9	H9		H9	H9
12/13/2016	XX	LPUD1X95E	H9	H9	H9				H9	H9	H9		H9	H9
1/10/2017	XX	LPUD1X99D	H9	H9	H9				H9	H9	H9		H9	H9
2/8/2017	XX	LPUD1X9A6	H9	H9	H9				H9	H9	H9		H9	H9
3/3/2017	XX	LPUD1X9AJ	H9	H9	H9				H9	H9	H9		H9	H9

SUMMARY REPORT

Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/5/2017	XX	LPUD1X990	H9	H9	H9				H9	H9	H9		H9	H9
4/18/2017	XX	LPUD1X97A	F6	F6	F6				F6	F6	F6		F6	F6
5/25/2017	XX	LPUD1X9BC	H9	H9	H9				H9	H9	H9		H9	H9
6/16/2017	XX	LPUD1X9ED	H9	H9	H9				H9	H9	H9		H9	H9
7/25/2017	XX	LPUD1X9D8	F6	F6	F6				F6	F6	F6		F6	F6
7/31/2017	XX	LPUD1X9F6	H9	H9	H9				H9	H9	H9		H9	H9
8/31/2017	XX	LPUD1X9IG	H9	H9	H9				H9	H9	H9		H9	H9
9/28/2017	XX	LPUD1X9J8	H9	H9	H9				H9	H9	H9		H9	H9
10/25/2017	XX	LPUD1X9H3	F6	F6	F6				F6	F6	F6		F6	F6
10/26/2017	XX	LPUD1XA00	H9	H9	H9				H9	H9	H9		H9	H9
11/30/2017	XX	LPUD1XA0C	H9	H9	H9				H9	H9	H9		H9	H9
12/27/2017	XX	LPUD1XA15	H9	H9	H9				H9	H9	H9		H9	H9
1/19/2018	XX	LPUD1XA4B	H9	H9	H9				H9	H9	H9		H9	H9
2/22/2018	XX	LPUD1XA54	H9	H9	H9				H9	H9	H9		H9	H9
3/24/2018	XX	LPUD1XA90	H9	H9	H9				H9	H9	H9		H9	H9
4/3/2018	XX	LPUD1XA32	F6	F6	F6				F6	F6	F6		F6	F6
4/28/2018	XX	LPUD1XA9D	H9	H9	H9				H9	H9	H9		H9	H9
5/11/2018	XX	LPUD1XAA6	H9	H9	H9				H9	H9	H9		H9	H9
6/2/2018	XX	LPUD1XADA	H9	H9	H9				H9	H9	H9		H9	H9
7/2/2018	XX	LPUD1XAIA	H9	H9	H9				H9	H9	H9		H9	H9
7/17/2018	XX	LPUD1XAC3	F6	F6	F6				F6	F6	F6		F6	F6
8/17/2018	XX	LPUD1XAJ5	H9	H9	H9				H9	H9	H9		H9	H9
9/1/2018	XX	LPUD1XB2B	H9	H9	H9				H9	H9	H9		H9	H9
10/2/2018	XX	LPUD1XB11	F6	F6	F6				F6	F6	F6		F6	F6
10/13/2018	XX	LPUD1XB35	H9	H9	H9				H9	H9	H9		H9	H9
11/2/2018	XX	LPUD1XB3J	H9	H9	H9				H9	H9	H9		H9	H9
12/7/2018	XX	LPUD1XB7I	H9	H9	H9				H9	H9			H9	H9
1/3/2019	XX	LPUD1XB8C	H9	H9	H9				H9	H9			H9	H9
2/2/2019	XX	LPUD1XB96	H9	H9	H9				H9	H9			H9	H9
3/2/2019	XX	LPUD1XBA0	H9	H9	H9				H9	H9			H9	H9
4/5/2019	XX	LPUD1XBAE	H9	H9	H9				H9	H9	H9		H9	H9
4/23/2019	XX	LPUD1XB5I	241	7.1	6.2				370	2.5	0.0011			0.4
5/10/2019	XX	LPUD1XBE6	H9	H9	H9				H9	H9	H9			H9
6/24/2019	XX	LPUD1XBF0	H9	H9	H9				H9	H9	H9			H9
7/16/2019	XX	LPUD1XBCA	F6	F6	F6				F6	F6	F6			F6
7/30/2019	XX	LPUD1XBFE	H9	H9	H9				H9	H9	H9			H9
8/20/2019	XX	LPUD1XBG8	H9	H9	H9				H9	H9	H9			H9
9/20/2019	XX	LPUD1XC01	H9	H9	H9				H9	H9	H9			H9
10/14/2019	XX	LPUD1XC0F	H9	H9	H9				H9	H9	H9			H9
10/29/2019	XX	LPUD1XBI3	F6	F6	F6				F6	F6	F6			F6
11/27/2019	XX	LPUD1XC19	H9	H9	H9				H9	H9	H9			H9
12/23/2019	XX	LPUD1XC2J	H9	H9	H9				H9	H9	H9			H9
1/17/2020	XX	LPUD1XC3E	H9	H9	H9				H9	H9	H9			H9
2/4/2020	XX	LPUD1XC49	H9	H9	H9				H9	H9	H9			H9
3/27/2020	XX	LPUD1XCF6	H9	H9	H9				H9	H9	H9			H9
4/28/2020	XX	LPUD1XCDA	F6	F6	F6				F6	F6	F6			F6
4/29/2020	XX	LPUD1XCG0	H9	H9	H9				H9	H9	H9			H9
5/27/2020	XX	LPUD1XCJJ	H9	H9	H9				H9	H9	H9			H9
6/28/2020	XX	LPUD1XD0D	H9	H9	H9				H9	H9	H9			H9
7/11/2020	XX	LPUD1XD17	H9	H9	H9				H9	H9	H9			H9

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/22/2020	XX	LPUD1XCI3	F6	F6	F6				F6	F6	F6			F6
8/3/2020	XX	LPUD1XD55	H9	H9	H9				H9	H9	H9			H9
9/27/2020	XX	LPUD1XD61	H9	H9	H9				H9	H9	H9			H9
10/27/2020	XX	LPUD1XD37	F6	F6	F6				F6	F6	F6			F6
10/31/2020	XX	LPUD1XD6F	H9	H9	H9				H9	H9	H9			H9
12/13/2020	XX	LPUD1XD83	H9	H9	H9				H9	H9	H9			H9

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
1/24/2011	XX	LPUD2X47E	302	8	10				273	10	0.0056		350	0
2/24/2011	XX	LPUD2X4BJ	341	7.3	8.4				358	6	0.0056		260	0
3/25/2011	XX	LPUD2X4C9	300	7.3	7.5					8	0.0056		115	0.2
4/26/2011	XX	LPUD2X4A5	325	6.9	9.6				337	6			250	1.2
5/25/2011	XX	LPUD2X4F8	333	7	13				361	8			72.5	0.03
6/20/2011	XX	LPUD2X4FJ	304	7	18.1				382	8			100	0.6
7/19/2011	XX	LPUD2X4E3	250	6.7	18.3				294	5	0.0033		100	0
8/1/2011	XX	LPUD2X4J9	F12	F12	F12				F12	F12	F12		F12	F12
10/8/2011	XX	LPUD2X4IH	H5	H5	H5				H5	H5	H5		H5	H5
10/25/2011	XX	LPUD2X4HI	319	7.3	14.9				284	6	0.0045		140	0
11/30/2011	XX	LPUD2X50C	H5	H5	H5				H5	H5	H5		H5	H5
12/29/2011	XX	LPUD2X500	H5	H5	H5				H5	H5	H5		H5	H5
1/26/2012	XX	LPUD2X58C	H5	H5	H5				H5	H5	H5		H5	H5
2/24/2012	XX	LPUD2X594	H5	H5	H5				H5	H5	H5		H5	H5
3/23/2012	XX	LPUD2X59F	H5	H5	H5				H5	H5	H5		H5	H5
4/16/2012	XX	LPUD2X5A6	F6	F6	F6				F6	F6	F6		F6	F6
4/24/2012	XX	LPUD2X528	200	6.9	10.3				409	6			100	2.5
5/3/2012	XX	LPUD2X5AH	322	7.6	16.6				373	8			130	0.27
6/29/2012	XX	LPUD2X5B8	287	7	17.21				422	6	0.0006		100	1.23
7/24/2012	XX	LPUD2X577	110	6.7	18.9				468	6	0.0033		185	3
7/31/2012	XX	LPUD2X5BJ	338	7	20.3				360	6	0.0011		130	0.14
8/31/2012	XX	LPUD2X5F0	342	6.6	19				298	7	0.0003		125	0.23
9/27/2012	XX	LPUD2X5FB	196	6.8	17.6				368	6	0.0003		115	0.39
10/23/2012	XX	LPUD2X5DI	272	6.8	14.1				453	4	0.0033		105	1.3
11/13/2012	XX	LPUD2X5G2	272	7.2	12.5				364	6	0.0003		125	0.36
12/31/2012	XX	LPUD2X5GD	286	7.4	7.6				350	8	0.0006		110	0.64
1/30/2013	XX	LPUD2X609	289	7.7	8.7				463	10	0.0003		125	0.35
2/15/2013	XX	LPUD2X5JH	272	7.6	9.6				393	6	0.0003		130	0.04
3/28/2013	XX	LPUD2X612	270	7.9	8.5				300	10	0.0003		110	0.47
4/23/2013	XX	LPUD2X5I9	299	7.1	7.9				238	6	0.0033		85	1
4/24/2013	XX	LPUD2X61E	231	7.6	11.1				343	10	0.0006		137	0.02
5/30/2013	XX	LPUD2X626	216	7.2	18.6				324	10	0.005		115	0.19
6/26/2013	XX	LPUD2X62I	302	7.1	13.5				409	8	0.0045		150	0.32
7/30/2013	XX	LPUD2X64E	304	6.8	18.1				261	6	0.0033		105	1.1
8/20/2013	XX	LPUD2X698	335	6.9	21.3				372	6	0.0045		125	0.41
9/26/2013	XX	LPUD2X68G	337	7.2	15.9				377	8	0.0011		110	1.08
10/29/2013	XX	LPUD2X677	361	7	10.8				366	6	0.0022		125	0.6
11/25/2013	XX	LPUD2X6A1	315	7.4	10.9				381	8	0.0022		125	0.62
12/17/2013	XX	LPUD2X6D1	288	7.6	9.2				357	10				0.44
1/24/2014	XX	LPUD2X6DD	290	7.5	6.7				343	10	0.0003		130	0.51
2/24/2014	XX	LPUD2X6HA	297	7.6	8				207	10	0.0011		140	1.91
3/27/2014	XX	LPUD2X6GI	296	7.7	10.9				363	12	0.0003		170	0.48

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/22/2014	XX	LPUD2X6FA	305	7.2	9.8				518	5	0.0033		90	1.2
4/29/2014	XX	LPUD2X6I2	298	7.4	11.4				326	11	0.0003		165	1.84
5/23/2014	XX	LPUD2X711	318	7.3	13.9				353	10	0.0006		140	0.58
6/24/2014	XX	LPUD2X71D	369	7.3	20.8				368	8	0.0003		160	0.39
7/29/2014	XX	LPUD2X6JH	300	7	18.3				437	5	0.0056		30	0.8
8/26/2014	XX	LPUD2X74D	329	7	24.9				379	7	0.0003		200	0.27
9/23/2014	XX	LPUD2X754	336	7.3	22.2				367	8	0.0011		155	0.1
10/21/2014	XX	LPUD2X738	280	7.2	13.3				360	5	0.0033		75	0.4
11/28/2014	XX	LPUD2X75G	308	7.3	13				373	7	0.0007		135	M
12/24/2014	XX	LPUD2X769	316	7.3	12.1				374	8	0.0015		135	0.14
2/3/2015	XX	LPUD2X770	310	7.6	12.6				375	5.5	0.0011		150	0.27
2/21/2015	XX	LPUD2X77B	241	7.8	17.5				352	7.5	0.0007		150	0.87
3/28/2015	XX	LPUD2X7A9	281	7.1	11.7				393	5.5	0.0017		125	1.06
4/16/2015	XX	LPUD2X7B2	294	7.6	18.8				370	9	0.0015		125	0.95
4/28/2015	XX	LPUD2X795	302	7.4	7.2				333	8.8	0.0033			1.3
5/22/2015	XX	LPUD2X7F7	174	7.2	18.8				370	8	0.0006		150	0.7
6/22/2015	XX	LPUD2X7EF	321	7.1	21.8				287	7	0.0006		160	0.34
7/14/2015	XX	LPUD2X7CH	309	7	15.5				335	7.6	0.0045			0.4
7/23/2015	XX	LPUD2X7FJ	324	7.1	19.6				363	7			130	0.1
8/24/2015	XX	LPUD2X7GB	329	7	19				350	7	0.0007		165	0.4
9/26/2015	XX	LPUD2X804	309	7	19.9				364	7	0.0004		155	0.1
10/27/2015	XX	LPUD2X7I6	283	7.7	12.5				336	8	0.0033			0.3
10/31/2015	XX	LPUD2X80G	H5	H5	H5				H5	H5	H5		H5	H5
11/27/2015	XX	LPUD2X818	315	7.2	13.3				374	9	0.0007		160	0.3
12/30/2015	XX	LPUD2X821	305	7.2	7.8				361	9	0.0004		140	0.03
1/14/2016	XX	LPUD2X82D	310	6.8	4.4				332	8	0.0006		155	0.01 U
2/18/2016	XX	LPUD2X885	283	7.3	9.6				354	8	0.0006		155	0.7
3/17/2016	XX	LPUD2X88H	311	7.1	9.4				333	9	0.0006		160	0.4
4/5/2016	XX	LPUD2X86G	302	7.5	5.1				205	9.2	0.0033			0.6
4/21/2016	XX	LPUD2X899	305	7.2	10.9				290	9	0.0006		150	0.3
5/26/2016	XX	LPUD2X8CF	312	7.1	13.8				309	9	0.0004		145	0.2
6/27/2016	XX	LPUD2X8DJ	H9	H9	H9				H9	H9	H9		H9	H9
7/20/2016	XX	LPUD2X8F3	F6	F6	F6				F6	F6	F6		F6	F6
7/26/2016	XX	LPUD2X8B6	339	6.8	15.4				332	4.6	0.0022			0.4
8/29/2016	XX	LPUD2X90E	F12	F12	F12				F12	F12	F12			F12
9/23/2016	XX	LPUD2X93D	F12	F12	F12				F12	F12	F12			F12
10/25/2016	XX	LPUD2X8J5	466	7.4	12.9				157	2.6	0.0017			0.8
10/31/2016	XX	LPUD2X947	H9	H9	H9				H9	H9	H9			H9
11/29/2016	XX	LPUD2X952	F12	F12	F12				F12	F12	F12			F12
12/13/2016	XX	LPUD2X95F	H9	H9	H9				H9	H9	H9			H9
1/10/2017	XX	LPUD2X99E	H5	H5	H5				H5	H5	H5		H5	H5
2/8/2017	XX	LPUD2X9A7	H5	H5	H5				H5	H5	H5		H5	H5
3/3/2017	XX	LPUD2X9B0	H5	H5	H5				H5	H5	H5		H5	H5
4/5/2017	XX	LPUD2X991	H5	H5	H5				H5	H5	H5		H5	H5
4/18/2017	XX	LPUD2X97B	390	6.8	6.2				405	4.5	0.0011			0.5
5/25/2017	XX	LPUD2X9BD	H5	H5	H5				H5	H5	H5		H5	H5
6/16/2017	XX	LPUD2X9EE	327	7.4	19.8				365	7	0.0007		175	0.4
7/25/2017	XX	LPUD2X9D9	305	7.7	15.4				413	8.3	0.0022			0.3
7/31/2017	XX	LPUD2X9F7	341	7	18.2				372	6	0.0006		170	0.3
8/31/2017	XX	LPUD2X9IH	332	6.7	17.8				378	7	0.0006		155	0.2

SUMMARY REPORT

Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LP-UD-2)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
9/28/2017	XX	LPUD2X9J9	330	7	16.9				347	6	0.0006		140	0.2
10/25/2017	XX	LPUD2X9H4	293	7.3	15.2				340	8	0.0006			1.2
10/26/2017	XX	LPUD2XA01	332	6.8	16.1				401	6	0.00056		155	0.3
11/30/2017	XX	LPUD2XA0D	313	7.2	1.3				390	7	0.00111		150	0.2
12/27/2017	XX	LPUD2XA16	306	6.5	9.7				415	9	0.0007		130	0.1
1/19/2018	XX	LPUD2XA4C	303	7	9.2				399	9	0.00111		125	0.3
2/22/2018	XX	LPUD2XA55	456	7.6	8.9				373	9	0.00167		160	0.2
3/24/2018	XX	LPUD2XA91	308	6.8	8.5				423	9	0.00037		125	0.5
4/3/2018	XX	LPUD2XA33	267	7.2	8.3				463	8	0.00334			1.2
4/28/2018	XX	LPUD2XA9E	263	7.1	13.6				420	10	0.00056		120	0.5
5/11/2018	XX	LPUD2XAA7	309	6.9	13.3				415	8	0.00111		120	0.2
6/2/2018	XX	LPUD2XADB	359	6.6	15.3				356	7	0.00111		125	0.7
7/2/2018	XX	LPUD2XAIB	364	7.3	20.1				372	7	0.0011		120	0.5
7/17/2018	XX	LPUD2XAC4	327	8.5	15.2				393	7.2	0.00056			1.1
8/17/2018	XX	LPUD2XAJ6	390	6.7	23.8				344	7	0.00037		140	1.1
9/1/2018	XX	LPUD2XB2C	353	6.7	18.3				375	6	0.0004		125	0.7
10/2/2018	XX	LPUD2XB12	314	7.7	14.4				476	6.7	0.00056			0.8
10/13/2018	XX	LPUD2XB36	391	5.7	15.4				370	7	0.0004		150	1.9
11/2/2018	XX	LPUD2XB40	273	6.2	12.1				370	8	0.0003		120	1.5
12/7/2018	XX	LPUD2XB7J	285	5.8	7.6				360	7	0.0007		130	1.1
1/3/2019	XX	LPUD2XB8D	324	6.9	5.1				376	8	0.0004		140	1.6
2/2/2019	XX	LPUD2XB97	444	7.7	3.1				374	7	0.0002		125	3.8
3/2/2019	XX	LPUD2XBA1	317	5.9	6.1				352	7	0.0003		150	0.8
4/5/2019	XX	LPUD2XBAF	272	8	13.1				380	8	0.0002		125	0.8
4/23/2019	XX	LPUD2XB5J	243	7.1	6.3				359	9	0.0022			0.6
5/10/2019	XX	LPUD2XBE7	299	6.4	13.7				348	7	0.0004		125	1.7
6/24/2019	XX	LPUD2XBF1	272	7.2	16				367	8	0.0033		125	0.9
7/16/2019	XX	LPUD2XBCB	284	7.5	16.2				402	12	0.0011			0.4
7/30/2019	XX	LPUD2XBFF	300	7.3	20.3				355	8	0.0002		135	0.4
8/20/2019	XX	LPUD2XBG9	281	7.4	25.2				355	5	0.0022		130	0.2
9/20/2019	XX	LPUD2XC02	300	7.3	21.6				362	6	0.0002		125	0.2
10/14/2019	XX	LPUD2XC0G	271	7.3	18.2				348	8	0.0017		125	0.8
10/29/2019	XX	LPUD2XBI4	273	7.3	12.7				333	7.8	0.0006			1.1
11/27/2019	XX	LPUD2XC1A	257	7.4	20.9				395	8	0.0022		125	0.7
12/23/2019	XX	LPUD2XC30	267	7.2	10.4				378	8	0.0045		120	0.3
1/17/2020	XX	LPUD2XC3F	253	7.3	8				418	10	0.0013		125	0.7
2/4/2020	XX	LPUD2XC4A	256	7.3	10.4				377	10	0.0025		125	0.2
3/27/2020	XX	LPUD2XCF7	232	7.3	10.7				423	6	0.0067		125	0.1
4/28/2020	XX	LPUD2XCDB	304	7.7	7.4				336	8.5	0.0011			0.2
4/29/2020	XX	LPUD2XCG1	263	7.3	11.7				309	8	0.0017		125	0.4
5/27/2020	XX	LPUD2XD00	245	7.1	21.1				320	6	0.0033		135	0.1
6/28/2020	XX	LPUD2XD0E	292	6.8	22.6				323	6	0.0006		150	0.1 U
7/11/2020	XX	LPUD2XD18	310	7	21.9				327	6	0.0017		175	0.1
7/21/2020	XX	LPUD2XCI4	284	6.8	16.7				371	6.1	0.0006			0.6
8/3/2020	XX	LPUD2XD56	303	7	22.1				352	8	0.0017		160	0.2
9/27/2020	XX	LPUD2XD62	282	7.2	18.1				414	6	0.0006		175	0.2
10/27/2020	XX	LPUD2XD38	284	7.5	12.1				403	8.3				0.8
10/31/2020	XX	LPUD2XD6G	291	7.4	15				398	6	0.0011		150	0.2
11/29/2020	XX	LPUD2XD7A	292	7.3	14.8				419	6	0.0023		150	0.4
12/13/2020	XX	LPUD2XD84	285	7.1	11.8				385	6	0.0022		135	0.6

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW04-102)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
MW04-102														
4/25/2011	XX	GW102X4AG	249	7.9	11.2	170.22	165.2	5.02	335	4			80	0.2
7/19/2011	XX	GW102X4EE	239	8.1	17.4	170.22	163.57	6.65	294	2			85	0.8
10/25/2011	XX	GW102X4I9	209	8.2	13.1	170.22	163.72	6.5	305	5		17.85	95	3.8
4/24/2012	XX	GW102X52J	227	8.1	9.8	170.22	164.22	6	-8	3			120	3.2
7/24/2012	XX	GW102X57I	230	7.9	15.8	170.22	162.22	8	38	3			100	1.4
10/22/2012	XX	GW102X5E9	221	7.7	14.1	170.22	164.44	5.78	178	3		17.98	45	1.5
4/23/2013	XX	GW102X5J0	220	8.4	7	170.22	164.42	5.8	396	3			85	0.9
7/31/2013	XX	GW102X655	227	7.8	16.1	170.22	163.72	6.5	334	3			100	0.8
10/28/2013	XX	GW102X67F	207	8.3	12.7	170.22	163.12	7.1	306	1		18.05	100	1.2
4/23/2014	XX	GW102X6G1	226	6.2	8.5	170.22	164.62	5.6	476	5			75	1.1
7/30/2014	XX	GW102X704	226	7.6	15.8	170.22	163.92	6.3	429	3			105	0.9
10/21/2014	XX	GW102X73F	196	8.1	12.9	170.22	163.64	6.58	431	2		18.05	90	1.6
4/29/2015	XX	GW102X79C	210	8.2	6.8	170.22	164.72	5.5	380	5.1				0.8
7/14/2015	XX	GW102X7D4	237	8	17.3	170.22	163.32	6.9	349	3				0.9
10/28/2015	XX	GW102X7ID	214	8.4	10.8	170.22	163.47	6.75	285	5.29		18.05		2.1
4/5/2016	XX	GW102X873	244	8	5.3	170.22	164.22	6	350	6.9				4.6
7/26/2016	XX	GW102X8BD	275	8	17.1	170.22	167.62	7.6	327	3.3				3.3
10/25/2016	XX	GW102X8JC	237	7.5	13	170.22	163.02	7.2	382	2.6		18.05		8.1
4/19/2017	XX	GW102X97I	219	8.2	6.3	170.22	163.42	6.8	324	7.5				0.6
7/26/2017	XX	GW102X9DG	222	8	15.9	170.22	162.14	8.08	297	3.6				2.1
10/25/2017	XX	GW102X9HB	240	7.9	15.6	170.22	162.02	8.2	315	3		18.05		2.4
4/4/2018	XX	GW102XA3A	320	8.2	4.5	170.22	164.02	6.2	342	7.3				2.7
7/18/2018	XX	GW102XACB	228	7.7	15.7	170.22	161.92	8.3	293	5				1.9
10/3/2018	XX	GW102XB19	224	8.1	14.5	170.22	162.27	7.95	280	3.3		18.05		1.7
4/24/2019	XX	GW102XB66	216	8.3	5.1	170.22	163.82	6.4	355	6				1.9
7/17/2019	XX	GW102XBCH	216	7.6	14.2	170.22	163.12	7.1	265	3.7				2.7
10/28/2019	XX	GW102XBIA	216	8.1	8.1	170.22	163.67	6.55	307	3.3		18.05		2.7
4/27/2020	XX	GW102XCDH	235	7	6.1	170.22	163.12	7.1	348	4.9				1.2
7/20/2020	XX	GW102XCIA	219	7.6	15.6	170.22	161.8	8.42	262	3.9				2.4
10/26/2020	XX	GW102XD3E	224	7.2	12.5	170.22	162.22	8	351	5.5		18.05		2.7
MW04-105														
4/26/2011	XX	GW105X4AH	312	7.1	9.6	165.59	159.13	6.46	322	1			75	0
7/18/2011	XX	GW105X4EF	325	6.7	16.7	165.59	158.49	7.1	275	0.8			100	0.3
10/25/2011	XX	GW105X4IA	217	7.7	11.9	165.59	158.69	6.9	339	0.8		22.75	85	1.8
4/23/2012	XX	GW105X530	240	7.4	8.7	165.59	157.99	7.6	325	3			160	1.7
7/24/2012	XX	GW105X57J	299	7.1	13.6	165.59	156.99	8.6	-7	0.4			160	1.1
10/22/2012	XX	GW105X5EA	252	7.2	11.9	165.59	158.99	6.6	281	0.4		22.75	70	1.3
4/24/2013	XX	GW105X5J1	249	6.8	7.1	165.59	158.04	7.55	381	1			90	3
10/29/2013	XX	GW105X68B	286	6.7	11.2	165.59	157.16	8.43	324	0.6		22.83	125	1.2
10/22/2014	XX	GW105X747	322	6.6	10.5	165.59	158.31	7.28	447	0.4		22.83	110	0.2
10/28/2015	XX	GW105X7J7	296	6.7	10.1	165.59	157.97	7.62	295	0.4		22.83		0.9
10/26/2016	XX	GW105X909	305	6.9	10.6	165.59	157.28	8.31	346	0.4		22.83		3.7
10/23/2017	XX	GW105X9I8	332	6.9	14.3	165.59	156.39	9.2	299	0.4		22.85		0.7
10/1/2018	XX	GW105XB26	341	6.9	11.7	165.59	156.98	8.61	307	0.4		22.84		1.9
10/28/2019	XX	GW105XBJ6	218	6.8	10.3	165.59	158.39	7.2	265	0.4		22.83		1.8
10/27/2020	XX	GW105XD4A	276	7.1	11.4	165.59	157.29	8.3	348	0.6		22.84		1.8
MW04-109R														

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW04-109R)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	GW109X4AI	446	6.6	10.9	160.13	153.88	6.25	281	0.6			105	0
7/19/2011	XX	GW109X4EG	423	6.5	21.1	160.13	152.88	7.25	259	0.3			130	0.2
10/25/2011	XX	GW109X4IB	416	7	12.2	160.13	153.51	6.62	360	0.3		22.95	145	1.4
4/24/2012	XX	GW109X531	382	6.6	10.4	160.13	153.77	6.36	-478	0.4			240	2.9
7/24/2012	XX	GW109X580	408	6.5	19.1	160.13	152.86	7.27	-155	0.3			140	1
10/23/2012	XX	GW109X5EB	404	6.6	9.3	160.13	153.73	6.4	241	0.8		22.92	160	1.1
4/23/2013	XX	GW109X5J2	390	6.8	10.2	160.13	153.45	6.68	341	1			165	0.3
7/30/2013	XX	GW109X657	414	6.6	19	160.13	153.21	6.92	278	0.6			180	0.2
10/29/2013	XX	GW109X67G	397	6.3	5.9	160.13	152.72	7.41	327	0.6		22.97	220	0.2
4/22/2014	XX	GW109X6G3	377	6.5	11	160.13	153.91	6.22	418	0.8			200	0
7/29/2014	XX	GW109X705	407	6.6	17.7	160.13	153.34	6.79	361	0.3			220	0.9
10/21/2014	XX	GW109X73G	389	6.7	12.5	160.13	153.06	7.07	412	0.4		22.98	220	0
4/28/2015	XX	GW109X79D	399	6.7	9.9	160.13	153.9	6.23	386	1.3				0.1
7/14/2015	XX	GW109X7D5	398	6.6	21.9	160.13	152.78	7.35	355	1				0.1
10/27/2015	XX	GW109X7IE	429	6.6	11.6	160.13	153.13	7	323	0.7		22.97		0.2
4/5/2016	XX	GW109X874	445	6.6	8.4	160.13	153.8	6.33	339	1.3				0.4
7/26/2016	XX	GW109X8BE	426	6.5	21.4	160.13	152.53	7.6	356	0.8				1
10/25/2016	XX	GW109X8JD	425	6.6	9.1	160.13	152.78	7.35	385	0.7		22.97		2
4/18/2017	XX	GW109X97J	237	6.8	9	160.13	154.02	6.11	419	2.6				0.4
7/25/2017	XX	GW109X9DH	443	6.5	19.9	160.13	152.42	7.71	302	0.5				2.4
10/24/2017	XX	GW109X9HC	453	6.7	16.5	160.13	151.51	8.62	335	2		22.97		0.8
4/3/2018	XX	GW109XA3B	556	6.7	7.2	160.13	154.4	5.73	389	1.7				0.7
7/17/2018	XX	GW109XACC	461	6.6	19	160.13	152.68	7.45	300	1.5				2.4
10/2/2018	XX	GW109XB1A	437	6.7	11.1	160.13	152.28	7.85	330	0.4		22.97		1.8
4/23/2019	XX	GW109XB67	427	6.9	8.7	160.13	154.46	5.67	409	1.7				0.8
7/16/2019	XX	GW109XBCI	446	6.5	18.2	160.13	153.73	6.4	268	1.3				2.3
10/29/2019	XX	GW109XBIB	418	6.8	13.2	160.13	154.17	5.96	371	0.1 U		22.97		2.8
4/28/2020	XX	GW109XCDI	385	6.9	8.7	160.13	153.68	6.45	354	4.3				1.2
7/21/2020	XX	GW109XCIB	408	6.8	20.2	160.13	152.85	7.28	236	1.8				2.7
10/27/2020	XX	GW109XD3F	391	6.9	9.2	160.13	153.05	7.08	327	0.6		27.98		1.5
MW06-01														
4/10/2018	XX	GWXXXXA70	85	6.5	7.3			F1	325	7.9		22.13		0.1
6/4/2018	XX	GWXXXXA7H	94	6.6	7.7	166.131	165.881	0.25	367	10.3				0.7
7/18/2018	XX	GWXXXXAEF	102	8	10.2	166.131	165.281	0.85	508	8.7				3.2
8/20/2018	XX	GWXXXXAFG	91	6.1	11.2	166.131	164.431	1.7	376	9.2				3.5
4/24/2019	XX	GWXXXXB7D	84	7	6.4			F1	377	10.1				2.1
7/18/2019	XX	GWXXXXBE1	67	8.1	12.2	166.131	165.951	0.18	290	13				0.5
10/30/2019	XX	GWXXXXBJ8	85	7.7	9.7	166.131		F1	219	11		22.13		0.1
4/29/2020	XX	GWXXXXCF1	95	7.2	6.5	166.131		F1	394	10.9				0.3
7/22/2020	XX	GWXXXXCJE	98	6.7	18.1	166.131	162.881	3.25	386	6.8				0.2
10/28/2020	XX	GWXXXXD4C	83	7.9	9.8	166.131	163.461	2.67	372	10.5		22.14		0.3
MW-204														
4/26/2011	XX	GW204X4A9	193	7.3	9.4	164.75	156.01	8.74	328	0.8			50	0.4
7/19/2011	XX	GW204X4E7	176	6.9	15.1	164.75	155.32	9.43	355	1			100	0
10/26/2011	XX	GW204X4I2	180	7	10.6	164.75	155.65	9.1	328	0.8		24.45	55	2.6
4/24/2012	XX	GW204X52C	192	6.5	9.4	164.75	155.75	9	255	1			100	2.7
7/23/2012	XX	GW204X57B	189	7.2	16	164.75	154.6	10.15	258	0.6			80	1.3
10/24/2012	XX	GW204X5E2	193	7	10.9	164.75	155.7	9.05	228	0.4		24.45	100	4.6

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(MW-204)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/24/2013	XX	GW204X5ID	185	6.7	7.2	164.75	155.53	9.22	339	1			60	5.5
10/30/2013	XX	GW204X68A	185	6	10.8	164.75	154.8	9.95	210	0.6		24.43	80	1.7
10/22/2014	XX	GW204X746	192	6.3	11.1	164.75	155.3	9.45	428	0.4		24.48	75	0.4
10/28/2015	XX	GW204X7J5	167	6.5	11.5	164.75	155.35	9.4	301	1.9		24.43		1.3
10/26/2016	XX	GW204X907	218	6.7	10	164.75	154.7	10.05	294	0.5		24.43		3.5
10/23/2017	XX	GW204X9I6	272	6.6	13.1	164.75	153.25	11.5	312	0.3		24.43		1.6
10/3/2018	XX	GW204XB24	277	6.6	12.3	164.75	154.58	10.17	300	1.6		24.48		2.4
10/28/2019	XX	GW204XBJ4	253	6.9	11	164.75	155.75	9	191	0.3		24.49		4.1
10/26/2020	XX	GW204XD48	265	6.6	11.2	164.75	154.65	10.1	337	0.4		24.47		3.5

MW-206

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/25/2011	XX	GW206X48I	179	7.8	10.7	204.67	200.11	4.56	350	3			60	1.4
7/18/2011	XX	GW206X4CG	169	7.8	16.1	204.67	196.67	8	105	2			125	2.9
10/24/2011	XX	GW206X4GB	148	7.4	12.7	204.67	200	4.67	208	4		23.1	105	2.7
4/23/2012	XX	GW206X511	153	7	8.6	204.67	200.26	4.41	-334	4			100	2.7
7/23/2012	XX	GW206X560	155	7.9	15.7	204.67	196.32	8.35	329	6			80	1.3
10/22/2012	XX	GW206X5CB	157	8.4	11.2	204.67	200.12	4.55	312	6		23.09	60	1.8
4/22/2013	XX	GW206X5H2	141	8.1	8.6	204.67	199.87	4.8	317	6			65	0.9
7/29/2013	XX	GW206X637	146	7.7	12.3	204.67	197.89	6.78	464	8			65	0.9
10/28/2013	XX	GW206X660	135	7.9	10.3	204.67	196.62	8.05	164	6		23.15	60	1.5
4/21/2014	XX	GW206X6E3	135	8.4	11	204.67	199.97	4.7	441	5			60	0.4
7/28/2014	XX	GW206X6IB	170	7.3	14.4	204.67	197.72	6.95	366	5			70	0.9
10/20/2014	XX	GW206X721	142	8.3	9.5	204.67	196.87	7.8	295	6		23.15	65	0.9
4/27/2015	XX	GW206X77J	131	8.3	6.9	204.67	200.07	4.6	328	8.6				1.2
7/13/2015	XX	GW206X7BB	149	8.2	14.4	204.67	197.02	7.65	287	7.7				0.4
10/26/2015	XX	GW206X7H0	139	7.8	9.3	204.67	197.87	6.8	200	7.7		23.15		4.4
4/4/2016	XX	GW206X85A	159	7.3	4.1	204.67	199.77	4.9	364	8.5				1.5
7/25/2016	XX	GW206X8A0	148	8.1	13.8	204.67	195.17	9.5	306	7.6				2.4
10/24/2016	XX	GW206X8HJ	167	7.5	9.4	204.67	190.72	13.95	348	8.2				9.4
4/17/2017	XX	GW206X965	142	8.2	8.6	204.67	199.85	4.82	266	9.9				1.4
7/24/2017	XX	GW206X9C3	150	7.7	11.8	204.67	195.07	9.6	367	9.4				2.4
10/23/2017	XX	GW206X9FI	146	8.1	11.6	204.67	189.77	14.9	338	7.3		23.15		2
4/2/2018	XX	GW206XA1G	269	7.8	5.7	204.67	200.07	4.6	362	8.5				7.5
7/16/2018	XX	GW206XAAI	148	8	11.3	204.67	196.12	8.55	313	8.4				2.4
10/1/2018	XX	GW206XAJG	147	8.1	10.7	204.67	191.47	13.2	258	7.8		23.15		4.2
4/22/2019	XX	GW206XB4C	139	8.6	6.1	204.67	200.22	4.45	399	8.8				2.6
7/17/2019	XX	GW206XBB5	144	8.1	12.3	204.67	198.07	6.6	253	7.5				7.8
10/28/2019	XX	GW206XBGJ	149	8.3	9.1	204.67	200.17	4.5	242	7.2		23.15		4
4/27/2020	XX	GW206XCC5	142	7.4	4.7	204.67	199.57	5.1	237	8.4				5.1
7/20/2020	XX	GW206XCGI	146	8.1	14.3	204.67	193.87	10.8	191	7.5				2.8
10/26/2020	XX	GW206XD23	148	7.6	7.3	204.67	195.07	9.6	342	8.7		23.15		2.4

MW-223A

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	GW223A491	361	7.4	8.8	176.54	175.79	0.75	309	2			115	0.4
7/19/2011	XX	GW223A4CJ	375	7.5	14.2	176.54	174.29	2.25	422	2			110	0.2
10/25/2011	XX	GW223A4GE	367	7.5	10.8	176.54	175.84	0.7	271	1		35.56	95	1.7
4/24/2012	XX	GW223A514	378	7.8	8	176.54	176.14	0.4	-345	1			200	2.2
7/24/2012	XX	GW223A563	400	7.3	13.4	176.54	174.44	2.1	323	1			160	0.6
10/23/2012	XX	GW223A5CE	390	7.5	8.5	176.54	176.04	0.5	207	1		35.48	125	0.8
4/23/2013	XX	GW223A5H5	439	7.6	4.8	176.54	176.23	0.31	255	1			180	0.5

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(MW-223A)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/30/2013	XX	GW223A63A	454	7.6	13.4	176.54	175.45	1.09	322	1			180	0.1
10/29/2013	XX	GW223A663	420	7.6	9.3	176.54	174.59	1.95	237	0.8		35.56	180	0.3
4/22/2014	XX	GW223A6E6	453	7.8	6	176.54	176.14	0.4	436	0.6			200	0.3
7/29/2014	XX	GW223A6ID	460	7.5	10.4	176.54	175.39	1.15	404	0.4			200	0.5
10/21/2014	XX	GW223A723	435	7.6	9	176.54	174.11	2.43	367	0.8		35.57	200	0.8
4/28/2015	XX	GW223A781	458	7.6	6.5	176.54	175.74	0.8	367	0.7				0.3
7/14/2015	XX	GW223A7BD	467	7.5	14.2	176.54	174.72	1.82	356	0.9				0.3
10/27/2015	XX	GW223A7H2	490	7.6	8.5	176.54	175.14	1.4	290	1.1		35.57		0.2
4/5/2016	XX	GW223A85CX	F	F	F			F	F	F				F
4/27/2016	XX	GW223A85C	509	7.7	9.1	176.54	176.4	0.14	275	1.3				0.2
7/26/2016	XX	GW223A8A2	539	7.5	14.2	176.54	173.79	2.75	349	1.8				2.1
10/25/2016	XX	GW223A8I1	547	7.6	9.4	176.54	172.84	3.7	338	1.8		35.57		2.7
4/18/2017	XX	GW223A967	519	7.6	5.2	176.54	175.24	1.3	318	2.7				0.7
7/25/2017	XX	GW223A9C5	543	7.4	14	176.54	173.74	2.8	305	2				0.8
10/24/2017	XX	GW223A9G0	552	7.6	12.1	176.54	172.04	4.5	340	1.8		35.57		1.2
4/3/2018	XX	GW223AA1I	651	7.6	4.5	176.54	175.14	1.4	307	1.8				0.6
7/17/2018	XX	GW223AAB0	568	7.4	12.6	176.54	172.94	3.6	297	1.6				2
10/2/2018	XX	GW223AAJI	556	6.3	10.8	176.54	171.59	4.95	305	1.3		35.6		2.9
4/23/2019	XX	GW223AB4E	542	7.6	6.1	176.54	174.51	2.03	370	2				2
7/16/2019	XX	GW223ABB7	559	7.3	11.5	176.54	174.64	1.9	250	0.8				2.8
10/29/2019	XX	GW223ABH0	548	7.6	9.5	176.54	175.61	0.93	351	0.1 U		35.57		1.3
4/28/2020	XX	GW223ACC7	531	7.4	6.2	176.54	174.99	1.55	336	0.8				1
7/21/2020	XX	GW223ACH0	575	7.4	13.5	176.54	173.12	3.42	212	0.8				1
10/27/2020	XX	GW223AD24	583	7.4	9.5	176.54	173.74	2.8	295	0.8		35.57		1.5

MW-223B

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	GW223B4AA	320	7.2	8.5	175.93	173.73	2.2	328	1			70	0.2
7/19/2011	XX	GW223B4E8	336	7.4	13.7	175.93	172.23	3.7	357	0.8			75	0.6
10/25/2011	XX	GW223B4I3	327	7.5	11.3	175.93	173.73	2.2	144	0.4		19.93	80	2.5
4/24/2012	XX	GW223B52D	316	7.1	6.7	175.93	173.98	1.95	-402	0.8			180	3.6
7/24/2012	XX	GW223B57C	338	6.9	12.9	175.93	172.13	3.8	173	1			140	1.2
10/23/2012	XX	GW223B5E3	333	7.5	10.3	175.93	173.83	2.1	238	1		20.05	90	0.9
4/23/2013	XX	GW223B5IE	344	7.3	5.5	175.93	173.75	2.18	244	1			95	0.2
7/30/2013	XX	GW223B64J	363	7.8	13.8	175.93	173.16	2.77	318	2			125	0.4
10/29/2013	XX	GW223B67C	336	7.5	10.8	175.93	172.63	3.3	267	0.8		20.07	140	0.1
4/22/2014	XX	GW223B6FF	370	7.5	6.4	175.93	173.93	2	446	1			160	0.6
7/29/2014	XX	GW223B700	377	7.6	13.3	175.93	173.23	2.7	355	0.6			160	0.7
10/21/2014	XX	GW223B73C	350	7.5	10.4	175.93	172.43	3.5	388	1		20.07	160	1.1
4/28/2015	XX	GW223B798	371	7.1	6.2	175.93	173.78	2.15	344	0.4				0.5
7/14/2015	XX	GW223B7D0	397	7.2	13.9	175.93	172.53	3.4	349	0.5				0.4
10/27/2015	XX	GW223B7I9	394	7.5	9.8	175.93	173.13	2.8	286	1.4		20.05		1.3
4/5/2016	XX	GW223B86J	445	7.1	3.8	175.93	173.53	2.4	309	2.2				7.7
7/26/2016	XX	GW223B8B9	433	7.4	12.8	175.93	171.93	4	360	0.5				3.5
10/25/2016	XX	GW223B8J8	436	7.5	10.6	175.93	171.43	4.5	352	0.3		20.07		3.7
4/18/2017	XX	GW223B97E	416	7.2	6	175.93	172.73	3.2	371	3.6				0.8
7/25/2017	XX	GW223B9DC	441	6.7	12.1	175.93	171.76	4.17	316	0.9				0.9
10/24/2017	XX	GW223B9H7	446	7.3	13	175.93	170.68	5.25	367	0.3		20.06		1.5
4/3/2018	XX	GW223BA36	596	7.1	3.9	175.93	173.23	2.7	338	2.3				0.2
7/17/2018	XX	GW223BAC7	480	6.8	12.2	175.93	171.22	4.71	227	1				2.2
10/2/2018	XX	GW223BB15	485	7.2	10.4	175.93	170.23	5.7	267	0.9		20.07		2.6

(MW-223B)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/23/2019	XX	GW223BB62	465	7.1	5.1	175.93	173.48	2.45	391	0.8				1.1
7/16/2019	XX	GW223BBCD	491	7.3	13.7	175.93	172.63	3.3	259	2				1.6
10/29/2019	XX	GW223BBI6	480	7.2	10.4	175.93	173.53	2.4	349	0.1 U		20.07		1.3
4/28/2020	XX	GW223BCDD	461	7	5.6	175.93	173.13	2.8	355	0.5				1
7/21/2020	XX	GW223BCI6	497	7.1	12.3	175.93	171.43	4.5	220	0.6				1.4
10/27/2020	XX	GW223BD3A	505	7.2	10.7	175.93	172.13	3.8	328	0.3		20.07		1.9

MW-227

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	GW227X492	194	8.1	9.8	164.23	160.13	4.1	339	2			70	1.6
7/19/2011	XX	GW227X4D0	199	8.5	15.6	164.23	158.48	5.75	356	1			60	0.2
10/25/2011	XX	GW227X4GF	188	8.3	11.3	164.23	160.18	4.05	346	0.6		22.28	65	3.3
4/24/2012	XX	GW227X515	186	8.5	6.8	164.23	160.59	3.64	-455	2			120	3
7/24/2012	XX	GW227X564	191	7.8	13.9	164.23	157.78	6.45	43	1			80	1.3
10/23/2012	XX	GW227X5CF	201	7.8	11	164.23	160	4.23	213	0.3		22.3	100	1.3
4/23/2013	XX	GW227X5H6	189	8.5	5.8	164.23	159.9	4.33	281	1			85	0.2
7/30/2013	XX	GW227X63B	192	8.9	15	164.23	159.84	4.39	227	0.8			85	0.3
10/29/2013	XX	GW227X664	177	8.4	10.5	164.23	159.58	4.65	305	1		22.28	80	0.7
4/22/2014	XX	GW227X6E7	187	8.2	8.3	164.23	160.03	4.2	388	2			70	0.2
7/29/2014	XX	GW227X6IE	180	8.3	14.2	164.23	159.8	4.43	306	0.8			75	1.3
10/21/2014	XX	GW227X724	181	8.3	10.7	164.23	159.63	4.6	376	0.8		22.3	85	1.2
4/28/2015	XX	GW227X782	184	8.3	6.7	164.23	159.93	4.3	350	3.1				0.8
7/14/2015	XX	GW227X7BE	193	8.3	15.3	164.23	158.43	5.8	353	1.1				1.1
10/27/2015	XX	GW227X7H3	182	8.1	11.4	164.23	159.63	4.6	297	3.9		22.3		0.7
4/5/2016	XX	GW227X85D	205	8.1	3.1	164.23	159.73	4.5	320	3.4				2.2
7/26/2016	XX	GW227X8A3	201	8	13.9	164.23	158.68	5.55	365	1.8				5.2
10/25/2016	XX	GW227X8I2	199	7.9	10.2	164.23	159.62	4.61	353	3.5		22.3		5.3
4/18/2017	XX	GW227X968	188	8.2	5.8	164.23	159.63	4.6	356	5.4				1.4
7/25/2017	XX	GW227X9C6	185	8.2	12.6	164.23	158.03	6.2	314	1.5				2.4
10/24/2017	XX	GW227X9G1	191	8.1	13.1	164.23	158.58	5.65	354	1.2		22.3		2
4/3/2018	XX	GW227XA1J	284	8.2	4.8	164.23	160.03	4.2	326	4.9				1.3
7/17/2018	XX	GW227XAB1	189	8.2	13.5	164.23	158.38	5.85	278	2.1				2.4
10/2/2018	XX	GW227XAJJ	191	8.1	11.1	164.23	159.05	5.18	274	2		22.3		1.6
4/23/2019	XX	GW227XB4F	194	8.3	4.9	164.23	160.1	4.13	389	3.2				2.5
7/16/2019	XX	GW227XBB8	189	8.1	15	164.23	159.48	4.75	244	3.1				3.7
10/29/2019	XX	GW227XBH1	181	8.3	10.5	164.23	160.04	4.19	333	0.1 U		22.3		2.6
4/28/2020	XX	GW227XCC8	173	7.8	5.8	164.23	159.92	4.31	352	2.7				1.5
7/21/2020	XX	GW227XCH1	182	8	12.9	164.23	159.18	5.05	219	2.7				2.2
10/27/2020	XX	GW227XD25	184	7.9	10.9	164.23	159.78	4.45	314	5.3		22.31		2

MW-301

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2011	XX	GW301X493	210	8.2	9.3	166.36	162.05	4.31	354	1			60	3
7/20/2011	XX	GW301X4D1	193	8.1	15.7	166.36	161.26	5.1	267	1			60	1.1
10/26/2011	XX	GW301X4GG	204	7.3	9.4	166.36	162.25	4.11	265	0.6		185.1	55	5.5
4/25/2012	XX	GW301X516	194	8.1	9.5	166.36	162.43	3.93	290	0.6			100	7.6
7/25/2012	XX	GW301X565	202	7.4	13.3	166.36	161.36	5	307	0.8			120	1.5
10/24/2012	XX	GW301X5CG	171	7.2	15.5	166.36	161.8	4.56	448	1		179.61	55	8.5
4/22/2013	XX	GW301X5H7	!	!	!	166.36		!	!	!			!	!
7/31/2013	XX	GW301X63C	209	6.3	16.9	165.91	165.87	0.04	367	0.4			60	6.2
10/30/2013	XX	GW301X665	198	7	7.9	165.91	165.81	0.1	339	0.6		184.1	70	3.2
4/23/2014	XX	GW301X6E8	197	6.2	9.3	165.91	165.91	F1	438	1			60	3.1

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(MW-301)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/30/2014	XX	GW301X6IF	201	7.7	14.3	165.91	165.91	F1	377	0.4			80	4.3
10/22/2014	XX	GW301X725	299	6.2	10	165.91	165.61	0.3	397	0.6		184.1	75	0.9
4/29/2015	XX	GW301X783	192	8.2	8.2	165.91	165.66	0.25	359	0.7				1.2
7/15/2015	XX	GW301X7BF	217	8.1	16.6	165.91	165.71	0.2	338	0.5				0.9
10/27/2015	XX	GW301X7H4	205	7.8	10.7	165.91	165.68	0.23	287	0.3		185.11		0.8
4/6/2016	XX	GW301X85EX	F	F	F			F	F	F				F
4/27/2016	XX	GW301X85E	210	8.4	8.8	165.91	165.61	0.3	234	0.3				0.4
7/27/2016	XX	GW301X8A4	210	8.1	15.6	165.91	165.49	0.42	203	0.1				0.2
10/26/2016	XX	GW301X8I3	218	8.3	8.1	165.91	165.53	0.38	334	0.6		185.11		4.5
4/19/2017	XX	GW301X969	215	8.2	8.3	165.91	165.56	0.35	308	2.8				1.8
7/26/2017	XX	GW301X9C7	224	7.9	15.2	165.91	165.61	0.3	287	0.3				2.1
10/25/2017	XX	GW301X9G2	225	8.1	13.7	165.91	165.71	0.2	368	0.2		185.11		1.6
4/4/2018	XX	GW301XA20	322	8.2	3.7	165.91	165.61	0.3	148	1.5				1.7
7/18/2018	XX	GW301XAB2	244	7.8	14.3			F1	267	0.2				3.5
10/1/2018	XX	GW301XB00	242	8	11.8	165.91	164.96	0.95	283	0.3		185.13		2.4
4/24/2019	XX	GW301XB4G	242	8.2	6.3	165.91	165.56	0.35	388	0.3				1.7
7/17/2019	XX	GW301XBB9	245	7.8	13.7	165.91	164.41	1.5	202	0.2				1.6
10/28/2019	XX	GW301XBH2	248	8.1	10.2	165.91		F1	322	0.3		185.1		1.9
4/27/2020	XX	GW301XCC9	228	7.8	7.1	165.91	165.6	0.31	301	0.2				2.4
7/20/2020	XX	GW301XCH2	248	7.9	14.2	165.91	165.89	0.02	143	0.2				3.3
10/26/2020	XX	GW301XD26	248	7.3	9.8	165.91	164.11	1.8	334	0.2		185.12		2.7

MW-302R

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/25/2011	XX	GW302X4A8	301	6.4	7.8	206.86	201.56	5.3	291	1			130	0
7/18/2011	XX	GW302X4E6	382	6.7	13.3	206.86	195.66	11.2	304	2			345	0.2
10/24/2011	XX	GW302X4I1	400	6.9	11.4	206.86	200.26	6.6	362	2		32.2	270	1.5
4/23/2012	XX	GW302X52B	249	6.7	7.2	206.86	197.84	9.02	315	3			220	1.9
7/23/2012	XX	GW302X57A	355	6.6	12.2	206.86	195.61	11.25	241	3			60	1.7
10/22/2012	XX	GW302X5E1	463	6.8	12.3	206.86	202.74	4.12	319	3		32.2	70	1.9
4/22/2013	XX	GW302X5IC	205	6.7	7.7	206.86	199.71	7.15	299	4			180	2.5
7/29/2013	XX	GW302X64H	350	6.5	11.8	206.86	198.47	8.39	546	5			80	0.4
10/28/2013	XX	GW302X67A	341	6.5	10.9	206.86	192.71	14.15	374	2		32.22	180	1.3
4/21/2014	XX	GW302X6FD	336	6.7	7.1	206.86	201.31	5.55	505	3			180	1
7/28/2014	XX	GW302X6JJ	445	6.6	13.3	206.86	197.38	9.48	475	4			180	0.7
10/20/2014	XX	GW302X73A	500	6.6	11.8	206.86	191.11	15.75	476	1		32.22	180	1.4
4/27/2015	XX	GW302X797	270	6.7	7.1	206.86	201.61	5.25	381	6.7				0.6
7/13/2015	XX	GW302X7CJ	367	6.7	12.1	206.86	197.04	9.82	322	6				1.3
10/26/2015	XX	GW302X7I8	766	6.7	11.4	206.86	197.66	9.2	282	4.6		32.22		0.4
4/4/2016	XX	GW302X86I	293	6.8	6	206.86	201.24	5.62	351	6.2				2.7
7/25/2016	XX	GW302X8B8	300	6.9	12.4	206.86	191.23	15.63	367	6.1				0.9
10/24/2016	XX	GW302X8J7	630	6.4	11.9	206.86	188.36	18.5	350	1.3		32.22		2.6
4/17/2017	XX	GW302X97D	310	6.7	7.2	206.86	201.46	5.4	366	8.2				1.7
7/24/2017	XX	GW302X9DB	347	6.5	11.7	206.86	191.35	15.51	357	5.6				5.5
10/23/2017	XX	GW302X9H6	698	6.8	11.5	206.86	187.51	19.35	421	1.6		32.25		2.1
4/2/2018	XX	GW302XA35	490	6.7	6.5	206.86	202.36	4.5	375	6.3				2
7/16/2018	XX	GW302XAC6	354	6.4	11.6	206.86	191.08	15.78	345	6				3
10/1/2018	XX	GW302XB14	851	6.7	11.1	206.86	187.26	19.6	311	1.7		32.23		2.4
4/22/2019	XX	GW302XB61	181	6.7	6.7	206.86	202.33	4.53	400	9				2.7
7/17/2019	XX	GW302XBCC	335	6.4	12	206.86	198.31	8.55	295	6.4				1.5
10/28/2019	XX	GW302XBI5	317	6.5	11.1	206.86	201.69	5.17	375	2.1		32.2		1.9

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(MW-302R) Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2020	XX	GW302XCDC	269	5.7	6	206.86	199.89	6.97	367	7.8				0.8
7/20/2020	XX	GW302XCI5	399	7.1	12.8	206.86	190.91	15.95	289	5.3				1.9
10/26/2020	XX	GW302XD39	562	6.6	9.7	206.86	193.06	13.8	361	2.2		32.27		1.7
MW-303														
4/25/2011	XX	GW303X4AC	223	6	10.9	207.87	186.77	21.1	218	1			70	1
7/18/2011	XX	GW303X4EA	223	6.2	13.3	207.87	183.52	24.35	133	0.4			200	1
10/24/2011	XX	GW303X4I5	222	6.6	10.9	207.87	181.47	26.4	1	0.6		46.82	190	3.4
4/23/2012	XX	GW303X52F	243	6.1	7.1	207.87	182.92	24.95	294	0.8			180	5.6
7/24/2012	XX	GW303X57E	!	!	!	207.87	!	!	!	!		!	!	!
MW12-303R														
10/23/2012	XX	GW303X5EG	189	7	10.6	208.89	181.42	27.47	236	2		43.32	80	9.3
4/22/2013	XX	GW303X5IG	254	6.7	9.4	208.89	183.26	25.63	311	2			110	2
7/29/2013	XX	GW303X651	253	6.6	12.4	208.89	182.91	25.98	418	1			105	0.9
10/28/2013	XX	GW303X67D	223	6.5	10.2	208.89	181.46	27.43	353	1		43.38	140	2.4
4/21/2014	XX	GW303X6FH	274	6.6	9.5	208.89	184.54	24.35	401	1			120	0.6
7/28/2014	XX	GW303X701	263	6.6	11.7	208.89	182.81	26.08	411	0.8			160	0.6
10/20/2014	XX	GW303X73D	440	6.8	10.5	208.89	178.81	30.08	447	0.8		43.38	180	1
4/27/2015	XX	GW303X799	874	6.1	8.7	208.89	183.49	25.4	407	5				0.5
6/18/2015	XX	42173-1	564	6.4	12.6	208.89	182.59	26.3	158	1				4.2
7/13/2015	XX	GW303X7D1	347	6.5	13.9	208.89	182.07	26.82	330	0.9				1.4
10/26/2015	XX	GW303X7IA	370	6.5	10.4	208.89	179.6	29.29	313	1.4		43.4		1.2
4/4/2016	XX	GW303X870	411	6.4	6.7	208.89	184.34	24.55	378	7.5				1.7
7/25/2016	XX	GW303X8BA	549	6.3	14.3	208.89	180.39	28.5	369	0.9				1.3
10/24/2016	XX	GW303X8J9	681	6.3	12.2	208.89	176.39	32.5	389	5.5		43.4		17.2
4/17/2017	XX	GW303X97F	466	6.4	10.2	208.89	182.29	26.6	382	7.7				1.8
7/24/2017	XX	GW303X9DD	419	6.2	12.3	208.89	181.5	27.39	343	0.8				2.8
10/23/2017	XX	GW303X9H8	414	6.8	12.9	208.89	176.94	31.95	375	2.3		43.4		37.5
4/2/2018	XX	GW303XA37	1711	6	8.8	208.89	181.64	27.25	408	5.1				1.9
7/16/2018	XX	GW303XAC8	501	6.2	14.4	208.89	180.59	28.3	333	0.9				1.8
10/1/2018	XX	GW303XB16	408	6.6	11.3	208.89	176.81	32.08	272	1.4		43.4		12.5
4/22/2019	XX	GW303XB63	485	6.2	9.1	208.89	181.14	27.75	418	5.8				7.6
7/17/2019	XX	GW303XBCE	494	5.9	11.3	208.89	181.89	27	303	2.2				1.8
10/28/2019	XX	GW303XBI7	380	6.1	10.4	208.89	179.77	29.12	400	0.2		43.4		2.8
4/27/2020	XX	GW303XCDE	409	6.1	8.7	208.89	180.29	28.6	361	1.9				3.6
7/20/2020	XX	GW303XCI7	280	6.9	14.3	208.89	177.79	31.1	227	1.1				2.4
10/26/2020	XX	GW303XD3B	577	6.2	8.9	208.89	175.49	33.4	390	1.3		43.4		2.5
MW-401A														
4/25/2011	XX	GW401A49H	132	7.6	8.6	156.83	155.23	1.6	320	3			115	0
7/18/2011	XX	GW401A4DF	142	7.5	11.5	156.83	150.68	6.15	403	5			140	0
10/24/2011	XX	GW401A4HA	128	8.2	10.2	156.83	153.21	3.62	309	6		112.02	50	0
4/23/2012	XX	GW401A520	123	8.3	8.6	156.83	152.41	4.42	422	5			50	2.4
7/23/2012	XX	GW401A56J	126	7.8	12.7	156.83	150.8	6.03	394	6			100	4.9
10/22/2012	XX	GW401A5DA	119	7.1	9.9	156.83	155.9	0.93	452	5		112.02	75	0.7
4/22/2013	XX	GW401A5I1	123	7.9	7.8	156.83	153.93	2.9	233	5			45	1.4
7/29/2013	XX	GW401A646	124	7.2	12.3	156.83	151.23	5.6	330	6			45	1.6
10/28/2013	XX	GW401A66J	140	6.8	9.3	156.83	150.73	6.1	209	5		112.04	45	0.2
4/21/2014	XX	GW401A6F2	131	7.9	8.4	156.83	155.69	1.14	396	6			55	1.1
7/28/2014	XX	GW401A6J9	129	8.2	11.2	156.83	151.73	5.1	384	4			25	2.1

(MW-401A)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/20/2014	XX	GW401A730	118	6.6	9.5	156.83	149.68	7.15	370	5		112.04	25	0.4
4/27/2015	XX	GW401A78H	131	8.3	7.2	156.83	155.23	1.6	217	7.3				0.4
7/13/2015	XX	GW401A7C9	124	8	10.3	156.83	151.47	5.36	194	6.9				0.5
10/26/2015	XX	GW401A7HI	118	7.8	9	156.83	152.03	4.8	208	7.1		112.03		0.2
4/6/2016	XX	GW401A868X	F	F	F			F	F	F				F
4/27/2016	XX	GW401A868	130	8.6	7.4	156.83	153.14	3.69	270	5.9				0.1
7/25/2016	XX	GW401A8AI	127	7.4	11.7	156.83	149.57	7.26	310	6.1				0.4
10/24/2016	XX	GW401A8IH	127	7.6	9.2	156.83	148.33	8.5	182	5.8		112.2		0.2
4/17/2017	XX	GW401A973	120	8.3	8.5	156.83	155.76	1.07	337	7.4				0.2
7/24/2017	XX	GW401A9D1	126	7.9	9.2	156.83	149.68	7.15	317	7				0.5
10/25/2017	XX	GW401A9GG	303	7	17.8	156.83	148.28	8.55	152	1.2		112.18		2
4/2/2018	XX	GW401AA2F	134	8.3	6.6	156.83	155.47	1.36	459	3.1				0.6
7/16/2018	XX	GW401AABG	140	8.3	11.6	156.83	149.93	6.9	365	5.5				0.5
10/1/2018	XX	GW401AB0E	146	8.2	9.5	156.83	148.11	8.72	466	5.2		112.2		0.3
4/22/2019	XX	GW401AB5B	130	8.4	7.6	156.83	154.92	1.91	289	6.8				0.2
7/15/2019	XX	GW401ABC3	130	7.3	10.3	156.83	152.78	4.05	482	11.1				0.4
10/28/2019	XX	GW401ABHG	140	7.6	9.3	156.83	154.62	2.21	243	4.9		112.21		0.5
4/27/2020	XX	GW401ACD3	147	8.5	6.8	156.83	153.91	2.92	278	5.7				0.5
7/20/2020	XX	GW401ACHG	121	7.5	11.1	156.83	149.85	6.98	252	5.3				0.2
10/26/2020	XX	GW401AD30	122	7.6	8.9	156.83	150.56	6.27	435	5.7		112.03		0.3
MW-401B														
4/25/2011	XX	GW401B49I	248	6.5	7.8	157.32	150.76	6.56	239	1			225	3.4
7/18/2011	XX	GW401B4DG	313	6.3	11.1	157.32	149.99	7.33	183	1			275	0
10/24/2011	XX	GW401B4HB	319	6.6	11.1	157.32	150.69	6.63	152	1		23.12	115	0
4/23/2012	XX	GW401B521	235	7.5	7.5	157.32	150.69	6.63	338	5			60	2.2
7/23/2012	XX	GW401B570	276	6.9	11.9	157.32	149.92	7.4	181	0.3			140	2.8
10/22/2012	XX	GW401B5DB	310	6.7	11.1	157.32	150.97	6.35	227	0.4		23.13	110	1.2
4/22/2013	XX	GW401B5I2	262	6.8	6.9	157.32	150.62	6.7	234	0.8			90	1.1
7/29/2013	XX	GW401B647	238	7.1	12.2	157.32	150.38	6.94	158	0.4			95	1.4
10/28/2013	XX	GW401B670	376	6.5	10	157.32	150.12	7.2	172	0.6		23.11	100	0.3
4/21/2014	XX	GW401B6F3	265	7	7.1	157.32	150.93	6.39	264	1			55	1.1
7/28/2014	XX	GW401B6JA	324	6.9	11.3	157.32	150.4	6.92	173	0.3			30	2.4
10/20/2014	XX	GW401B731	336	6.5	10.1	157.32	150.18	7.14	217	1		23.12	25	0.3
4/27/2015	XX	GW401B78I	243	7.4	6.7	157.32	150.8	6.52	174	0.2				0.4
7/13/2015	XX	GW401B7CA	318	7	8.7	157.32	150.01	7.31	166	0.1				0.9
10/26/2015	XX	GW401B7HJ	335	6.8	10.1	157.32	150.35	6.97	190	0.1		23.1		0.1
4/6/2016	XX	GW401B869	274	7.2	5.9	157.32	150.69	6.63	219	1.7				0.3
7/25/2016	XX	GW401B8AJ	360	6.4	9.8	157.32	149.79	7.53	171	0.1				0.2
10/24/2016	XX	GW401B8II	355	6.6	10.2	157.32	149.98	7.34	199	0.1		23.1		0.2
4/17/2017	XX	GW401B974	265	6.8	7	157.32	150.99	6.33	222	0.5				0.2
7/24/2017	XX	GW401B9D2	305	6.8	9.5	157.32	149.72	7.66	200	0.1				0.2
10/25/2017	XX	GW401B9GH	375	6.8	12.3	157.32	149.07	8.25	119	1		23.14		6.7
4/2/2018	XX	GW401BA2G	272	7.3	6.3	157.32	151.07	6.25	401	0.2				0.5
7/16/2018	XX	GW401BABH	350	7.5	9.7	157.32	149.83	7.49	220	0.1				0.2
10/1/2018	XX	GW401BB0F	363	7.2	10.4	157.32	149.42	7.9	417	0.1		23.14		0.2
4/22/2019	XX	GW401BB5C	216	7.7	7.5	157.32	151	6.32	186	0.3				0.3
7/15/2019	XX	GW401BBC4	267	7.2	9.2	157.32	150.56	6.76	216	3.7				0.6
10/28/2019	XX	GW401BBHH	327	6.8	10	157.32	151.12	6.2	213	1.9		23.14		2.2
4/27/2020	XX	GW401BCD4	246	7.7	5.9	157.32	150.64	6.68	196	0.2				1.2

SUMMARY REPORT
Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW-401B)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/20/2020	XX	GW401BCHH	278	6.9	13.1	157.32	149.88	7.44	159	0.4				0.3
10/26/2020	XX	GW401BD31	296	6.9	9.6	157.32	150.22	7.1	172	0.6		23.13		0.3

MW-402A

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2011	XX	GW402A49J	130	7.8	8	152.2		F1	287	3			135	0
7/20/2011	XX	GW402A4DH	114	7.8	14.7	152.2		F1	361	3			50	0.9
10/26/2011	XX	GW402A4HC	130	7.8	7.6	152.2		F1	215	5		108.35	50	0
4/24/2012	XX	GW402A522	121	7.5	9.3	152.2		F1	353	4			60	0.7
7/25/2012	XX	GW402A571	125	8.4	13.4	152.2		F1	392	4			70	1.9
10/24/2012	XX	GW402A5DC	116	7.4	7.9	152.2		F1	405	4		108.35	60	0.8
4/22/2013	XX	GW402A5I3	138	9.2	10.4	152.2	152.07	0.13	339	3			50	0.5
7/31/2013	XX	GW402A648	125	8.3	14.4	152.2	152.15	0.05	139	5			25	0.6
10/30/2013	XX	GW402A671	141	8.1	7.7	152.2		F1	348	5		108.35	30	0.3
4/23/2014	XX	GW402A6F4	130	8.4	8.6	152.2	152.2	F1	390	2			45	0.2
7/30/2014	XX	GW402A6JB	126	8.5	11.7	152.2	152	0.2	427	4			15	0.3
10/22/2014	XX	GW402A732	58	8.6	8.3	152.2	151.95	0.25	370	4		108.3	30	0.4
4/29/2015	XX	GW402A78J	137	8.5	6.9	152.2	152.05	0.15	272	4				0.8
7/15/2015	XX	GW402A7CB	124	8.6	11.2	152.2		F1	306	3				0.4
10/28/2015	XX	GW402A7I0	117	8.6	7.3	152.2	152.16	0.04	323	3.2		108.28		0.2
4/6/2016	XX	GW402A86AX	F	F	F			F	F	F				F
4/27/2016	XX	GW402A86A	129	8.8	7.2	152.2		F1	240	2.9				0.2
7/27/2016	XX	GW402A8B0	128	8.6	12.4	152.2	152.12	0.08	248	2.9				0.3
10/26/2016	XX	GW402A8IJ	126	8.3	8.2	152.2	151.74	0.46	245	4.5		108.28		0.4
4/19/2017	XX	GW402A975	120	8.7	6.9	152.2	152.14	0.06	283	3.5				0.5
7/26/2017	XX	GW402A9D3	122	8.4	10.2	152.2	152.15	0.05	321	2.7				0.4
10/26/2017	XX	GW402A9GI	122	8.1	11	152.2	152.15	0.05	365	2.8		108.28		0.6
4/4/2018	XX	GW402AA2H	130	8.6	6.1	152.2	152.18	0.02	460	5.2				0.3
7/18/2018	XX	GW402AABI	136	8.5	11.9	152.2	151.97	0.23	407	2.6				0.3
10/3/2018	XX	GW402AB0G	136	8.6	9.7	152.2	151.75	0.45	427	2.7		108.3		0.2
4/24/2019	XX	GW402AB5D	122	8.5	6	152.2	152.14	0.06	344	3.5				0.2
7/17/2019	XX	GW402ABC5	124	7.9	12.7	152.2		F1	339	6.1				2.1
10/30/2019	XX	GW402ABHI	128	8.1	9.5	152.2	152.15	0.05	220	3.3		108.35		0.4
4/29/2020	XX	GW402ACD5	134	8.3	7.5	152.2		F1	264	3.2				0.8
7/22/2020	XX	GW402ACHI	111	8.5	10.6	152.2	152.16	0.04	319	3.4				0.5
10/28/2020	XX	GW402AD32	112	8.5	6.7	152.2		F1	333	3.2		108.55		0.3

MW-402B

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2011	XX	GW402B4A0	164	8.1	7.1	152.74	150.02	2.72	226	1			135	0
7/20/2011	XX	GW402B4DI	141	8.1	11.7	152.74	148.19	4.55	223	1			63	3.5
10/26/2011	XX	GW402B4HD	160	7.9	8	152.74	149.79	2.95	107	1		25.18	100	0
4/24/2012	XX	GW402B523	149	8.4	7.1	152.74	150.09	2.65	264	0.2			75	0.8
7/25/2012	XX	GW402B572	157	8.5	10.8	152.74	148.12	4.62	279	0.3			90	2.2
10/24/2012	XX	GW402B5DD	141	7.6	8.9	152.74	149.84	2.9	323	0.4		25.2	50	3.2
4/22/2013	XX	GW402B5I4	152	9.2	7.3	152.74	149.74	3	242	0.3			60	0.9
7/31/2013	XX	GW402B649	147	8.2	11.6	152.74	148.82	3.92	76	0.3			40	0.4
10/30/2013	XX	GW402B672	174	8.7	9	152.74	148.94	3.8	195	0.3		25.18	35	0.3
4/23/2014	XX	GW402B6F5	160	8.3	6.9	152.74	150.12	2.62	297	0.6			45	0.3
7/30/2014	XX	GW402B6JC	152	8.6	11	152.74	149.03	3.71	307	1			15	0.2
10/22/2014	XX	GW402B733	147	8.7	9.6	152.74	148.87	3.87	321	1		25.13	35	0.3
4/29/2015	XX	GW402B790	155	8.7	6.1	152.74	149.94	2.8	253	0.6				0.4

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
(MW-402B)														
7/15/2015	XX	GW402B7CC	147	8.5	8.9	152.74	148.36	4.38	323	0.1				0.1
10/28/2015	XX	GW402B7I1	142	8.6	8.8	152.74	149.49	3.25	351	0.1		25.16		0.2
4/6/2016	XX	GW402B86BX	F	F	F			F	F	F				F
4/27/2016	XX	GW402B86B	152	8.9	6.9	152.74	149.73	3.01	226	0.1				0.2
7/27/2016	XX	GW402B8B1	150	8.4	10.8	152.74	147.81	4.93	214	0.2				0.3
10/26/2016	XX	GW402B8J0	150	8.3	9.3	152.74	147.53	5.21	245	0.3		25.15		0.1
4/19/2017	XX	GW402B976	141	8.8	6.4	152.74	149.94	2.8	241	0.1				0.2
7/26/2017	XX	GW402B9D4	145	8.2	9.6	152.74	147.76	4.98	334	0.1				0.2
10/26/2017	XX	GW402B9GJ	147	7.9	10.8	152.74	148.16	4.58	380	0.1		25.16		0.3
4/4/2018	XX	GW402BA2I	152	8.4	5.9	152.74	150.29	2.45	467	6.8				0.3
7/18/2018	XX	GW402BABJ	160	8.5	10	152.74	148.12	4.62	377	0.1				0.3
10/3/2018	XX	GW402BB0H	162	8.7	10.1	152.74	146.92	5.82	415	0.1		25.16		0.1
4/24/2019	XX	GW402BB5E	143	8.9	5.2	152.74	150.3	2.44	265	0.1				0.3
7/17/2019	XX	GW402BBC6	143	8.3	10.6	152.74	149.02	3.72	319	3.2				1.2
10/30/2019	XX	GW402BBHJ	151	8.1	9.9	152.74	150.09	2.65	208	1.2		25.14		0.2
4/29/2020	XX	GW402BCD6	157	8.3	6.4	152.74	150.03	2.71	232	0.3				0.5
7/22/2020	XX	GW402BCHJ	130	8	8.9	152.74	148.06	4.68	360	0.4				0.3
10/28/2020	XX	GW402BD33	131	8.6	8.7	152.74	148.82	3.92	331	0.4		25.2		0.5
MW-501														
4/5/2018	XX	GW501XA6I	204	8.1	6.5	166.19		F1	472	4.1		47.6		0.4
6/4/2018	XX	GW501XA7F	202	7.2	8.2	166.19		F1	346	8				1
7/19/2018	XX	GW501XAED	235	8.8	9	166.19		F1	553	6.7				3.2
8/20/2018	XX	GW501XAFE	255	6.7	9.2	166.19		F1	327	7				3.9
4/24/2019	XX	GW501XB7C	297	6.7	8	166.19		F1	383	6.3				0.2
7/17/2019	XX	GW501XBE0	176	7.8	13.3	166.19		F1	200	13.3				0.4
10/30/2019	XX	GW501XBJ9	367	6.9	9	166.19		F1	208	4.7		47.6		0.1
4/29/2020	XX	GW501XCF0	157	7.6	8.2	166.19		F1	386	7.7				0.2
7/22/2020	XX	GW501XCJD	310	6	15.5	166.19		F1	331	4				0.3
10/28/2020	XX	GW501XD4D	295	7.6	8.6	166.19		F1	367	0.9		47.6		0.2
MW09-901														
4/26/2011	XX	GW901X49G	254	8	9.7	165.1	156.5	8.6	355	2			50	1.6
7/19/2011	XX	GW901X4DE	219	7.9	19.2	165.1	154.6	10.5	329	2			75	0.3
10/25/2011	XX	GW901X4H9	192	8.2	11.7	165.1	155.75	9.35	206	1		22.75	70	3.1
4/24/2012	XX	GW901X51J	189	8.4	11.9	165.1	156.5	8.6	183	3			100	3.3
7/24/2012	XX	GW901X56I	194	7.9	17.2	165.1	154.5	10.6	20	2			120	1
10/23/2012	XX	GW901X5D9	197	7.6	12.2	165.1	156.3	8.8	215	2		22.73	100	1.4
4/23/2013	XX	GW901X5I0	178	8.4	9.8	165.1	155.68	9.42	382	4			65	0.1
7/30/2013	XX	GW901X645	197	7.7	14.3	165.1	155.16	9.94	352	4			80	0.4
10/29/2013	XX	GW901X66I	195	7.3	8.9	165.1	154.47	10.63	312	2		22.8	85	1.4
4/22/2014	XX	GW901X6F1	231	7.4	13.1	165.1	157.03	8.07	464	5			85	1.5
7/29/2014	XX	GW901X6J8	208	7.7	15.8	165.1	155.79	9.31	408	4			95	0.8
10/21/2014	XX	GW901X72J	266	7.6	12.3	165.1	155.4	9.7	401	1		22.8	120	0
4/28/2015	XX	GW901X78G	286	7.5	11	165.1	157.6	7.5	371	5.1				1.4
7/14/2015	XX	GW901X7C8	306	7.5	18.6	165.1	154.85	10.25	368	4.6				1
10/27/2015	XX	GW901X7HH	318	7.7	11.8	165.1	155.62	9.48	301	3.4		22.82		0.2
4/5/2016	XX	GW901X867	356	7.4	4.6	165.1	157.3	7.8	362	5.3				1.1
7/26/2016	XX	GW901X8AH	366	7.6	20.4	165.1	154.38	10.72	337	4.3				3.9
10/25/2016	XX	GW901X8IG	353	7.1	10.7	165.1	154.6	10.5	397	0.9		22.82		4.1

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(MW09-901)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/18/2017	XX	GW901X972	341	7	8.5	165.1	157.65	7.45	422	5.4				0.7
7/25/2017	XX	GW901X9D0	379	6.5	19.5	165.1	154.19	10.91	346	2.2				2.5
10/24/2017	XX	GW901X9GF	392	6.9	16.3	165.1	153.18	11.92	388	0.8		22.8		2.6
4/3/2018	XX	GW901XA2E	482	6.8	10.1	165.1	158.8	6.3	413	3.2				0.2
7/17/2018	XX	GW901XABF	423	6.7	15	165.1	154.93	10.17	311	1.4				2.4
10/2/2018	XX	GW901XB0D	390	6.7	10.7	165.1	154.1	11	303	1		22.82		1.3
4/23/2019	XX	GW901XB5A	364	6.7	6.9	165.1	159.14	5.96	423	1.3				1.6
7/16/2019	XX	GW901XBC2	398	6.6	18.7	165.1	155.95	9.15	280	0.4				2.8
10/29/2019	XX	GW901XBHF	333	6.8	12.4	165.1	159.21	5.89	381	0.1 U		22.82		1.6
4/28/2020	XX	GW901XCD2	339	7.1	9.7	165.1	158.41	6.69	370	2				1.4
7/21/2020	XX	GW901XCHF	348	7.2	13.3	165.1	156.3	8.8	235	0.3				1.1
10/27/2020	XX	GW901XD2J	341	7	10.3	165.1	156.95	8.15	359	0.4		22.81		1.5

OW-06-03

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/10/2018	XX	GWXXXXA73	193	5.6	8.7	206.04	181.72	24.32	401	6		25.81		2.7
6/5/2018	XX	GWXXXXA80	I	I	I			I	I	I				I
7/19/2018	XX	GWXXXXAEI	I	I	I			I	I	I				I
8/21/2018	XX	GWXXXXAFH	I	I	I	I	I	I	I	I				I
4/23/2019	XX	GWXXXXB7B	409	6	6.2	206.04	185.54	20.5	358	3				8.2
7/18/2019	XX	GWXXXXBDJ	I	I	I	206.04	I	I	I	I				I
10/29/2019	XX	GWXXXXBJA	448	6.4	10.3	206.04	182.91	23.13	176	0.9		25.81		10.2
4/29/2020	XX	GWXXXXCEJ	641	6.1	8.7	206.04	180.54	25.5	140	2.3				43.8
7/20/2020	XX	GWXXXXCJC	I	I	I	206.04	I	I	I	I				I
10/28/2020	XX	GWXXXXD4E	778	6.3	7	206.04	181.02	25.02	200	1.3		25.81		11.7

OW-601A

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/11/2018	XX	GW601AA69	336	7.2	8.2	217.94	182.32	35.62	223	7.9		79.02		1355
6/6/2018	XX	GW601AA76	324	7.4	9.2	217.94	182.34	35.6	276	2.7				38.1
7/19/2018	XX	GW601AAE4	364	7.1	14.1	217.94	180.54	37.4	187	4.6				3.3
8/22/2018	XX	GW601AAF5	379	7.2	14.2	217.94	178.84	39.1	273	1.5				3.3
4/24/2019	XX	GW601AB76	410	7.2	6.4	217.94	181.34	36.6	402	0.9				1.7
7/18/2019	XX	GW601ABB6	409	7.1	13.3	217.94	181.74	36.2	291	2				1.7
10/30/2019	XX	GW601ABJB	378	7	11.3	217.94	179.69	38.25	314	6.4		79.02		2
4/29/2020	XX	GW601ACC6	311	5.9	10.4	217.94	180.04	37.9	378	2.6				6.9
7/22/2020	XX	GW601ACGJ	369	6.7	11.6	217.94	177.59	40.35	290	2.6				8.9
10/28/2020	XX	GW601AD4F	415	7.1	8.4	217.94	175.34	42.6	291	1.8		79.02		10.6

OW-601B

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/11/2018	XX	GW601BA6A	371	6.4	8.6	217.5	181.95	35.55	361	4.4		59.2		2.5
6/6/2018	XX	GW601BA77	323	6.5	9.1	217.5	181.9	35.6	287	1.4				3
7/19/2018	XX	GW601BAE5	339	6.2	12.6	217.5	179.95	37.55	370	3.1				2.5
8/22/2018	XX	GW601BAF6	386	6.2	14.7	217.5	178.42	39.08	340	4.3				5
4/23/2019	XX	GW601BB77	358	6.5	7.7	217.5	180.92	36.58	406	2.5				1
7/18/2019	XX	GW601BBDF	351	6.2	11	217.5	181.34	36.16	259	2.1				5.7
10/30/2019	XX	GW601BBJC	369	6.7	10.4	217.5	179.2	38.3	328	3		59.19		6.3
4/29/2020	XX	GW601BCEF	312	5.9	9.9	217.5	179.65	37.85	381	2.9				7.6
7/22/2020	XX	GW601BCJ8	342	6.5	11.5	217.5	177.23	40.27	297	5.5				3.5
10/28/2020	XX	GW601BD4G	403	6.5	8.3	217.5	174.95	42.55	341	3.2		59.2		2.4

OW-602A

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/11/2018	XX	GW602AA6B	144	7.3	8.1	213.17	183.25	29.92	345	9.8		240		0.5

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(OW-602A)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
6/6/2018	XX	GW602AA78	143	7.2	7.9	213.17	181.67	31.5	335	12.9				2
7/19/2018	XX	GW602AAE6	143	8.2	8.6	213.17	179.32	33.85	467	10.3				2.2
8/21/2018	XX	GW602AAF7	143	6.7	17.5	213.17	177.92	35.25	301	7.5				3.7
4/24/2019	XX	GW602AB78	93	7.1	7.2	213.17	178.72	34.45	391	10				0.9
7/18/2019	XX	GW602ABDG	110	6.8	8.7	213.17	178.42	34.75	308	11.2				1.6
10/29/2019	XX	GW602ABJD	120	7.1	9.2	213.17	177.37	35.8	324	8.2		239.4		0.7
4/29/2020	XX	GW602ACEG	128	6.8	9.8	213.17	177.45	35.72	333	8.3				0.5
7/22/2020	XX	GW602ACJ9	152	7.1	9.8	213.17	175.17	38	308	8.2				1.2
10/28/2020	XX	GW602AD4H	171	7	6.5	213.17	173.27	39.9	306	7		239.4		2.4

OW-603B

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/12/2018	XX	GW603BA6C	302	5.7	7.7	208.07	187.63	20.44	415	0.3		28.84		7.2
6/5/2018	XX	GW603BA79	211	5.9	8.3	208.07	185.27	22.8	393	3.7				2.2
7/19/2018	XX	GW603BAE7	223	7.1	19.7	208.07	183.42	24.65	402	1.2				430
8/21/2018	XX	GW603BAF8	136	6.1	16	208.07	182.47	25.6	315	5				11.3
4/23/2019	XX	GW603BB79	122	6.4	6.3	208.07	181.17	26.9	409	5.8				22.1
7/18/2019	XX	GW603BBDH	136	6.2	12.3	208.07	182.67	25.4	304	7.5				9.3
10/29/2019	XX	GW603BBJE	185	6.5	10.2	208.07	181.51	26.56	400	0.1		28.84		32.6
4/29/2020	XX	GW603BCEH	130	6.3	7.9	208.07	182.12	25.95	358	7.2				13.3
7/22/2020	XX	GW603BCJA	I	I	I	208.07	I	I	I	I				I
10/28/2020	XX	GW603BD4I	I	I	I	208.07	179.37	28.7	I	I		28.84		I

OW-604A

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/12/2018	XX	GW604AA6D	89	6	7.1	198.8	184.5	14.3	416	1.6		33.8		3.1
6/4/2018	XX	GW604AA7A	78	6.3	8.1	198.8	180.3	18.5	397	7.5				1.2
7/19/2018	XX	GW604AAE8	89	7.8	14.5	198.8	178.25	20.55	548	6				3.2
8/21/2018	XX	GW604AAF9	125	6.3	16.9	198.8	175.73	23.07	334	5.4				3.7
4/23/2019	XX	GW604AB7A	119	6.4	6.2	198.8	177.81	20.99	429	5.2				2
7/18/2019	XX	GW604ABDI	124	6.1	14.1	198.8	178.95	19.85	293	3.2				5.8
10/29/2019	XX	GW604ABJF	120	6.3	11	198.8	179.06	19.74	417	0.1 U		33.8		3.7
4/29/2020	XX	GW604ACEI	155	6.1	6.9	198.8	179.03	19.77	389	6.3				1.3
7/21/2020	XX	GW604ACJB	160	6.3	16.6	198.8	175.05	23.75	310	4.2				2.3
10/28/2020	XX	GW604AD4J	159	7.2	7.4	198.8	172.9	25.9	369	5.6		33.71		10.9

P-04-02

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2011	XX	GWXXXX4AE	227	7.8	10.8	168.74	161.46	7.28	483	5			175	0.4
7/20/2011	XX	GWXXXX4EC	201	7.4	18.8	168.74	160.93	7.81	381	3			75	0
10/26/2011	XX	GWXXXX4I7	!	!	!	168.74		!	!	!		!	!	!
4/25/2012	XX	GWXXXX52H	193	6.3	10.7	168.74	158.19	10.55	263	1			100	64.4
7/25/2012	XX	GWXXXX57G	283	7.3	4.9	168.74	157.18	11.56	346	1			85	19.1
10/24/2012	XX	GWXXXX5E7	245	6.8	13.3	168.74	162.09	6.65	340	1		39.98	60	16.2
4/22/2013	XX	GWXXXX5II	!	!	!	168.74		!	!	!			!	!

P-04-02R

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/15/2015	XX	GWXXXX7DJ	284	7.9	13.6	170.72	158.71	12.01	316	5.8				18.2
10/28/2015	XX	GWXXXX7J4	700	7.9	12.6	170.72	158.92	11.8	118	0.2		37.98		1.5
4/6/2016	XX	GWXXXX87I	531	8.1	8.4	170.72	159.37	11.35	272	1.9				2.2
7/27/2016	XX	GWXXXX8C7	772	7.8	15.4	170.72	157.92	12.8	282	1.1				0.8
10/26/2016	XX	GWXXXX904	629	7.8	11.1	170.72	157.91	12.81	195	1.2		37.96		0.8
4/19/2017	XX	GWXXXX98C	636	8.1	9.2	170.72	159.42	11.3	349	6.2				1.1
7/26/2017	XX	GWXXXX9E8	604	8	12.4	170.72	157.62	13.1	350	2.2				2.4

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
(P-04-02R)														
10/25/2017	XX	GWXXXX9I3	481	7.7	15.4	170.72	157.22	13.5	341	3.5		38		1.7
4/4/2018	XX	GWXXXXA44	492	8.2	9.3	170.72	159.92	10.8	470	5.6				1.8
7/18/2018	XX	GWXXXXAD3	509	8.2	13.2	170.72	157.48	13.24	446	1.7				7.3
10/3/2018	XX	GWXXXXB21	456	8.1	12.7	170.72	157.47	13.25	435	1.3		38		1.8
4/22/2019	XX	GWXXXXB70	327	8.3	11	170.72	159.86	10.86	401	2.9				0.9
7/17/2019	XX	GWXXXXBDA	401	8	15.1	170.72	158.23	12.49	305	7.1				1.3
10/30/2019	XX	GWXXXXBJ2	331	8.2	12	170.72	159.22	11.5	254	0.7		38		2.9
4/29/2020	XX	GWXXXXCEA	419	8.1	9.8	170.72	158.75	11.97	314	4.6				0.7
7/22/2020	XX	GWXXXXCJ3	328	7.8	12.6	170.72	156.82	13.9	335	2.4				0.5
10/28/2020	XX	GWXXXXD46	284	8.1	10.3	170.72	157.54	13.18	356	1.8		37.88		2.1
P-04-04														
4/27/2011	XX	GWXXXX4AF	188	7.8	9.8	169.35	161.53	7.82	520	6			150	0
7/20/2011	XX	GWXXXX4ED	166	7.6	18.7	169.35	160.91	8.44	362	3			75	0
10/26/2011	XX	GWXXXX4I8	181	8.4	11.2	169.35	160.05	9.3	185	1		32.3	60	1.6
4/25/2012	XX	GWXXXX52I	185	7.1	11.9	169.35	159.73	9.62	290	3			100	2.9
7/25/2012	XX	GWXXXX57H	177	7.7	18.7	169.35	159.3	10.05	396	4			100	2.7
10/24/2012	XX	GWXXXX5E8	158	7.4	16.1	169.35	160.45	8.9	388	3		32.33	50	3
4/24/2013	XX	GWXXXX5IJ	178	8.3	8.1	169.35	160.3	9.05	307	5			90	0.4
7/31/2013	XX	GWXXXX654	175	8.1	17.3	169.25	160.13	9.12	274	4			50	1.2
10/30/2013	XX	GWXXXX67E	194	7.9	11	169.25	159.24	10.01	346	3		32.26	35	0.8
4/23/2014	XX	GWXXXX6G0	176	6.6	11.1	169.25	160.85	8.4	461	5			50	1.8
7/30/2014	XX	GWXXXX703	175	7.9	14.3	169.25	160.29	8.96	335	3			45	0.6
10/22/2014	XX	GWXXXX73E	165	8.1	10.9	169.25	159.9	9.35	390	3		32.28	50	1.1
4/29/2015	XX	GWXXXX79B	174	8	8.3	169.25	161.1	8.15	397	5.9				0.9
7/15/2015	XX	GWXXXX7D3	171	8.1	13.7	169.25	160.14	9.11	330	3.9				1.2
10/28/2015	XX	GWXXXX7IC	161	8.3	11.6	169.25	160.19	9.06	324	2.3		32.31		0.5
4/6/2016	XX	GWXXXX872	176	8.2	8.5	169.25	160.66	8.59	272	6.2				1.2
7/27/2016	XX	GWXXXX8BC	173	7.7	14.1	169.25	159.29	9.96	249	3.7				0.7
10/26/2016	XX	GWXXXX8JB	184	8	11.8	169.25	158.72	10.53	228	1.8		32.3		0.8
4/19/2017	XX	GWXXXX97H	173	8.1	9.3	169.25	160.75	8.5	350	7.6				0.8
7/26/2017	XX	GWXXXX9DF	175	8.1	13.4	169.25	159	10.25	312	3.3				1.5
10/25/2017	XX	GWXXXX9HA	189	7.7	15.3	169.25	158.45	10.8	340	4.5		32.34		0.7
4/4/2018	XX	GWXXXXA39	184	8.3	8.9	169.25	161.09	8.16	467	5.4				1.2
7/18/2018	XX	GWXXXXACA	193	7.9	14	169.25	158.85	10.4	482	3.2				4.2
10/3/2018	XX	GWXXXXB18	196	8.1	13.1	169.25	158.33	10.92	423	1.6		32.34		1.1
4/22/2019	XX	GWXXXXB65	182	8.2	9.6	169.25	160.38	8.87	402	6.3				0.8
7/17/2019	XX	GWXXXXBCG	190	8.1	16	169.25	159.65	9.6	304	7.7				1.4
10/30/2019	XX	GWXXXXBI9	187	7.9	12	169.25	160.05	9.2	247	2.4		32.34		2.2
4/29/2020	XX	GWXXXXCDG	197	8.2	9.9	169.25	161.29	7.96	314	7.2				0.8
7/22/2020	XX	GWXXXXCI9	170	7.8	14	169.25	157.93	11.32	329	4				0.6
10/28/2020	XX	GWXXXXD3D	167	8.1	10.3	169.25	158.45	10.8	347	2.4		37.1		1.8
P-206A														
7/31/2013	XX	GW206A64I	120	7.6	14.9	204.51	182.81	21.7	352	4			50	8.1
10/28/2013	XX	GW206A67B	126	7.3	9.4	204.51	181.61	22.9	63	3		93.5	50	9.3
4/21/2014	XX	GW206A6FJ	129	7.9	10.9	204.51	184.61	19.9	276	3			60	8.6
7/28/2014	XX	GW206A702	131	7.3	16.3	204.51	182.71	21.8	268	2			60	5.4
10/20/2014	XX	GW206A73B	128	8.1	9.2	204.51	178.81	25.7	325	3		93.48	55	1.2
4/27/2015	XX	GW206A79A	122	7.3	6.7	204.51	183.31	21.2	104	2.3				1.4

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Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/13/2015	XX	GW206A7D2	133	7.8	14.8	204.51	182.11	22.4	111	2.1				2.1
10/26/2015	XX	GW206A7IB	146	7.8	9	204.51	179.61	24.9	309	0.6		93.45		4.2
4/4/2016	XX	GW206A871	155	7.8	5.3	204.51	184.31	20.2	134	2.6				7
4/26/2016	XX	GW206AHBC	187	8.1	6.4	204.51	184.51	20	123	1.9				1.1
7/25/2016	XX	GW206A8BB	194	8	17	204.51	180.51	24	217	4.3				7.3
10/24/2016	XX	GW206A8JA	192	7.6	9.7	204.51	176.31	28.2	237	6.8		93.43		2.9
4/17/2017	XX	GW206A97G	193	7.6	11.1	204.51	181.01	23.5	123	4.5				1.3
7/24/2017	XX	GW206A9DE	204	7.8	13.3	204.51	181.51	23	134	4.2				2.9
10/23/2017	XX	GW206A9H9	221	7.5	11.3	204.51	176.91	27.6	302	4.5		93.45		1.8
4/2/2018	XX	GW206AA38	317	7.6	9	204.51	181.66	22.85	311	1.6				0.8
7/16/2018	XX	GW206AAC9	230	7.6	14.4	204.51	180.71	23.8	102	0.9				1.4
10/1/2018	XX	GW206AB17	234	11.8	11.9	204.51	176.11	28.4	275	3		93.43		6.7
4/22/2019	XX	GW206AB64	212	7.9	9	204.51	177.51	27	164	3.7				1.8
7/17/2019	XX	GW206ABCF	225	7.9	15.4	204.51	181.91	22.6	97	3.8				2.6
10/28/2019	XX	GW206ABI8	218	7.6	8.1	204.51	179.71	24.8	117	3.7		93.43		4.7
4/27/2020	XX	GW206ACDF	244	6.9	4.6	204.51	180.41	24.1	101	3.6				1.3
7/20/2020	XX	GW206ACI8	242	7.7	19.5	204.51	177.76	26.75	133	4.2				1.9
10/26/2020	XX	GW206AD3C	A	A	A	204.51	169.81	34.7	A	A		93.15		A

PWS10-1

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/25/2011	XX	GWPWS1498	154	6.4	8.3				134	1			170	3
7/18/2011	XX	GWPWS14D6	265	5.9	19.7				142	1			200	20
10/24/2011	XX	GWPWS14H1	150	5.8	11.4				106	1			70	2.5
4/23/2012	XX	GWPWS151B	162	6	9.9				127	1			55	2.1
7/23/2012	XX	GWPWS156A	104	6	23.5				213	2			50	14
10/22/2012	XX	GWPWS15D1	138	5.8	11.6				228	0.3			35	3.7
4/22/2013	XX	GWPWS15HC	278	5.7	7.2				228	1			50	3.2
7/29/2013	XX	GWPWS163H	207	5.5	17.8				-38	1			75	12.6
10/28/2013	XX	GWPWS166A	119	6.3	7.1				101	4			25	5.7
4/21/2014	XX	GWPWS16ED	342	6.5	7.3				100	2			100	2.6
7/28/2014	XX	GWPWS16J0	277	6.2	18.4				86	1			35	4.2
10/20/2014	XX	GWPWS172A	76	5.4	11.1				407	4			20	1.8
4/27/2015	XX	GWPWS1788	290	6.5	7.6				170	0.3				4.1
7/13/2015	XX	GWPWS17C0	218	6.3	21.8				172	0.1				2.2
10/26/2015	XX	GWPWS17H9	85	6.6	7.3				274	6.6				2.1
4/4/2016	XX	GWPWS185J	247	6.5	2.7				196	0.3				2.2
7/25/2016	XX	GWPWS18A9	121	6.6	25				190	1.5				2.1
10/24/2016	XX	GWPWS18I8	304	6.5	9.6				155	0.1				1.1
4/17/2017	XX	GWPWS196E	105	6.7	9.8				261	2.1				2.2
7/24/2017	XX	GWPWS19CC	266	6.8	17.9				197	3.1				2.5
10/25/2017	XX	GWPWS19G7	196	6.4	11.9				104	0				3.5
4/2/2018	XX	GWPWS1A25	196	7.2	4.1				459	9.5				1.1
7/16/2018	XX	GWPWS1AB7	186	7.2	23.1				245	2.5				2.1
10/1/2018	XX	GWPWS1B05	148	6.2	11.7				818	5.6				2.1
4/22/2019	XX	GWPWS1B51	187	6.4	10				195	3.1				1
7/15/2019	XX	GWPWS1BBE	131	5.3	24.5				504	5.3				6.2
10/28/2019	XX	GWPWS1BH7	172	6.3	9.3				260	6.7				1.1
4/27/2020	XX	GWPWS1CCE	346	7	6.1				82	0.8				2.7
7/20/2020	XX	GWPWS1CH7	254	6	23.2				167	0.4				3.1
10/26/2020	XX	GWPWS1D2B	175	6	5.2				454	3.9				2.1

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(PWS10-2)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
PWS10-2														
4/25/2011	XX	GWPWS2499	66	5.6	9.4				67	5			40	2.1
7/18/2011	XX	GWPWS24D7	157	5.8	24.6				248	1			135	4.4
10/24/2011	XX	GWPWS24H2	105	5.6	10.6				145	4			30	2.5
4/23/2012	XX	GWPWS251C	73	5.7	6.4				104	1			35	3.2
7/23/2012	XX	GWPWS256B	86	6.3	26.7				293	8			50	6.5
10/22/2012	XX	GWPWS25D2	74	6	12.3				278	5			15	1.6
4/22/2013	XX	GWPWS25HD	100	5.5	7.8				221	3			15	2.5
7/29/2013	XX	GWPWS263I	127	5.4	16.2				-1	1			30	3.1
10/28/2013	XX	GWPWS266B	107	6.7	9.6				133	5			15	6.2
4/21/2014	XX	GWPWS26EE	63	7.3	9.9				52	1			40	2.2
7/28/2014	XX	GWPWS26J1	140	5.7	15.4				108	0.4			25	1.5
10/20/2014	XX	GWPWS272B	131	5.7	10.6				233	1			15	2.2
4/27/2015	XX	GWPWS2789	103	6.4	5.5				217	3.8				5.2
7/13/2015	XX	GWPWS27C1	133	6	20.5				197	0.2				2.2
10/26/2015	XX	GWPWS27HA	72	7.6	7.5				392	10.1				1.2
4/4/2016	XX	GWPWS2860	117	7	1.6				227	8.3				4.1
7/25/2016	XX	GWPWS28AA	109	7.1	26.5				280	8.3				3.5
10/24/2016	XX	GWPWS28I9	91	6.7	9.5				228	3.7				1.1
4/17/2017	XX	GWPWS296F	102	6.3	9				189	3.9				2.1
7/24/2017	XX	GWPWS29CD	140	7.5	18.6				250	5.4				2.1
10/24/2017	XX	GWPWS29G8	D	D	D				D	D				D
4/2/2018	XX	GWPWS2A26	110	7.4	1.3				474	1.2				1.1
7/16/2018	XX	GWPWS2AB8	204	6.9	22.1				492	3.6				1.2
10/1/2018	XX	GWPWS2B06	170	7	12.8				460	7				1
4/22/2019	XX	GWPWS2B52	135	6.9	8.9				364	7.8				0.5
7/15/2019	XX	GWPWS2BBF	276	7.2	26.3				413	7.2				4.1
10/28/2019	XX	GWPWS2BH8	101	6.8	9.1				263	11.3				1.5
4/27/2020	XX	GWPWS2CCF	140	7.2	5.4				289	6.6				3.1
7/20/2020	XX	GWPWS2CH8	142	6.2	19.1				322	3				2.1
10/26/2020	XX	GWPWS2D2C	124	7.3	4.9				359	6.7				4.6
PWS10-3														
4/25/2011	XX	GWPWS349A	222	5.9	9				118	1			145	3.5
7/18/2011	XX	GWPWS34D8	148	5.8	23.1				203	3			125	18.3
10/24/2011	XX	GWPWS34H3	111	5.3	11.1				164	1			35	4.5
4/23/2012	XX	GWPWS351D	63	6.5	20.7				307	3			50	4.2
7/23/2012	XX	GWPWS356C	73	5.8	26.8				155	4			25	6.6
10/22/2012	XX	GWPWS35D3	59	5.4	11.9				284	0.8			15	4.3
4/22/2013	XX	GWPWS35HE	62	5	7.3				223	5			15	5.6
7/29/2013	XX	GWPWS363J	180	5.5	18.9				-7	1			90	5.9
10/28/2013	XX	GWPWS366C	80	6.6	7.6				152	4			20	8.1
4/21/2014	XX	GWPWS36EF	76	6.3	6.7				263	3			35	3.1
7/28/2014	XX	GWPWS36J2	116	5.6	20.4				136	2			20	4.2
10/20/2014	XX	GWPWS372D	42	5	10.1				423	4			20	2.1
4/27/2015	XX	GWPWS378A	57	6	7.6				264	4.1				7.1
7/13/2015	XX	GWPWS37C2	79	6.7	25				167	5.4				2.6
10/26/2015	XX	GWPWS37HB	80	6.7	15.4				331	10.2				2.2
4/4/2016	XX	GWPWS3861	163	7.4	3.1				229	7				2.2

(PWS10-3)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/25/2016	XX	GWPWS38AB	D	D	D				D	D				D
10/24/2016	XX	GWPWS38IA	159	6.3	10.3				369	10.3				1.2
4/17/2017	XX	GWPWS396G	61	6	10.7				269	0.8				1.8
7/24/2017	XX	GWPWS39CE	133	6.9	22				289	7.1				2.1
10/24/2017	XX	GWPWS39G9	D	D	D				D	D				D
4/2/2018	XX	GWPWS3A27	51	6.3	2.7				456	3.5				0.8
7/16/2018	XX	GWPWS3AB9	D	D	D				D	D				D
10/1/2018	XX	GWPWS3B07	119	7.1	12.2				463	7.5				2.1
4/22/2019	XX	GWPWS3B53	82	6.5	7.6				374	7.3				0.8
7/15/2019	XX	GWPWS3BBG	83	7.2	23.6				449	9.9				5.5
10/28/2019	XX	GWPWS3BH9	98	6	8.6				279	9.3				1.1
4/27/2020	XX	GWPWS3CCG	54	6.8	5.5				314	5.8				2.5
7/20/2020	XX	GWPWS3CH9	144	5.3	22.3				208	0.3				3.1
10/26/2020	XX	GWPWS3D2D	197	5.9	6.1				540	7				4.1

SW-1

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	SWXX1X495	76	5.9	10.9				404	5			30	1.4
7/19/2011	XX	SWXX1X4D3	235	6.4	21.9				273	4			100	0.4
10/25/2011	XX	SWXX1X4GI	78	7.5	11.6				234	6			30	0.6
4/24/2012	XX	SWXX1X518	78	6.7	11.6				549	6			35	2
7/24/2012	XX	SWXX1X567	108	6.9	22.1				299	5			60	9.6
10/23/2012	XX	SWXX1X5CI	98	7.2	10.1				475	5			50	1.6
4/23/2013	XX	SWXX1X5H9	80	6.6	9.6				237	6			15	3.6
7/30/2013	XX	SWXX1X63E	83	6.5	23.2				310	6			25	2.3
10/29/2013	XX	SWXX1X667	99	7.2	5.6				325	6			20	1.5
4/22/2014	XX	SWXX1X6EA	154	7	9.9				455	6			35	3.4
7/29/2014	XX	SWXX1X6IH	75	7.1	22.8				424	4			20	2.7
10/21/2014	XX	SWXX1X727	83	7.5	9.7				350	6			20	3.1
4/28/2015	XX	SWXX1X785	117	7	7.9				407	9.7				2.2
7/14/2015	XX	SWXX1X7BH	95	7	25.1				331	3.8				4.2
10/27/2015	XX	SWXX1X7H6	81	8.2	5.3				320	10.3				2.2
4/5/2016	XX	SWXX1X85G	88	7	2.9				424	9.6				1.8
7/26/2016	XX	SWXX1X8A6	211	7.1	25.2				187	2.8				10.2
10/25/2016	XX	SWXX1X8I5	98	7.6	6.5				311	7.2				2.2
4/18/2017	XX	SWXX1X96B	56	6.5	6.9				369	9.1				1.3
7/25/2017	XX	SWXX1X9C9	235	6.8	18.9				221	4.2				3.3
10/25/2017	XX	SWXX1X9G4	127	6.9	15.2				398	5.4				2.5
4/3/2018	XX	SWXX1XA22	160	7	5.4				468	15.1				1.1
7/17/2018	XX	SWXX1XAB4	242	7.8	19.3				316	3.2				6.7
10/2/2018	XX	SWXX1XB02	144	6.6	9.6				514	6.1				1.4
4/23/2019	XX	SWXX1XB4I	125	6.9	5.4				372	8.5				1.1
7/16/2019	XX	SWXX1XBBB	109	6.7	27.5				356	4.2				3.3
10/29/2019	XX	SWXX1XBH4	228	6.6	10.6				240	8.3				2.5
4/28/2020	XX	SWXX1XCCB	241	7.3	10				395	7.7				2.1
7/21/2020	XX	SWXX1XCH4	134	6.9	24.4				288	1.7				1.3
10/27/2020	XX	SWXX1XD28	175	7.7	8.9				298	4				1.2

SW-2

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	SWXX2X496	71	5.9	12.3				367	5	2.5		30	1.2
7/19/2011	XX	SWXX2X4D4	46	7.1	29.6				332	6	0.1		38	0

SUMMARY REPORT

Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(SW-2)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/25/2011	XX	SWXX2X4GJ	72	7.6	11.7				337	5	1.5		25	1.2
4/24/2012	XX	SWXX2X519	87	6.9	10.6				454	5	14		30	2.4
7/24/2012	XX	SWXX2X568	65	6.9	25.9				449	6	1.75		25	3.1
10/23/2012	XX	SWXX2X5CJ	54	7.2	12.2				472	5	2.75		15	1.7
4/23/2013	XX	SWXX2X5HA	77	6.4	10.6				236	5	1.5		15	4.1
7/30/2013	XX	SWXX2X63F	65	7	26.2				274	6	1		20	2.2
10/29/2013	XX	SWXX2X668	82	8	10.1				469	5	0.1		20	1.2
4/22/2014	XX	SWXX2X6EB	76	7	10.4				407	6	5.25		25	2.6
7/29/2014	XX	SWXX2X6II	66	7.8	25.6				423	6	0.6		15	2.8
10/21/2014	XX	SWXX2X728	74	7	10.2				384	5	0.3		15	2.5
4/28/2015	XX	SWXX2X786		6.7	9.2				355	9				1.1
7/14/2015	XX	SWXX2X7BI	84	7	26.5				329	6.1	0.8			3.7
10/27/2015	XX	SWXX2X7H7	65	8.5	5.8				317	9.4	0.0017			1.2
4/5/2016	XX	SWXX2X85H	87	6.7	3.6				355	7.2				0.8
7/26/2016	XX	SWXX2X8A7	81	7.3	26.9				341	3.7	0.0033			7.3
10/25/2016	XX	SWXX2X8I6	90	7.1	8.1				353	7.1	6			1.6
4/18/2017	XX	SWXX2X96C	67	6.9	10.6				349	8	0.4			0.8
7/25/2017	XX	SWXX2X9CA	110	7.1	18				235	2.1	0.4			3.4
10/25/2017	XX	SWXX2X9G5	102	7.1	16.7				415	5.4	3			2.1
4/3/2018	XX	SWXX2XA23	50	6.8	3.1				467	7.9	11.25			1.1
7/17/2018	XX	SWXX2XAB5	104	7.9	21.3				318	1.1	0.4			8.2
10/2/2018	XX	SWXX2XB03		6.7	10.2				494	4	0.25			2.1
4/23/2019	XX	SWXX2XB4J	83	6.6	4.9				360	6				0.9
7/16/2019	XX	SWXX2XBBC	85	6.3	28.8				397	4.2				3.2
10/29/2019	XX	SWXX2XBH5	66	5.9	8				281	13.7				0.8
4/28/2020	XX	SWXX2XCCC	76	6.8	7				369	7.7				2.1
7/21/2020	XX	SWXX2XCH5	68	6.9	29.2				380	5.5				1.6
10/27/2020	XX	SWXX2XD29	77	6.8	8.4				413	6				1.2

SW-3

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	SWXX3X497	73	6.3	11.2				438	6	8		35	1.6
7/19/2011	XX	SWXX3X4D5	93	6.8	23.3				338	5	2.5		38	0
10/25/2011	XX	SWXX3X4H0	78	6.6	10.5				257	5	7.5		25	1.2
4/24/2012	XX	SWXX3X51A	54	7.4	9.8				449	6	19		25	2.4
7/24/2012	XX	SWXX3X569	103	7.5	22.9				326	4	3.75		100	2.5
10/23/2012	XX	SWXX3X5D0	46	7.4	11.5				422	6	5		50	2.1
4/23/2013	XX	SWXX3X5HB	71	6.5	9.7				234	6	8		20	1.5
7/30/2013	XX	SWXX3X63G	81	7.9	23				170	6	6		25	1.2
10/29/2013	XX	SWXX3X669	108	7.7	6.7				365	4	6.5		15	1.2
4/22/2014	XX	SWXX3X6EC	71	7.3	9.9				444	6	10		30	0.8
7/29/2014	XX	SWXX3X6IJ	81	7.9	20.9				328	5	8		15	0.5
10/21/2014	XX	SWXX3X729	78	7.7	8.4				386	5	7		15	1.2
4/28/2015	XX	SWXX3X787	79	7.3	6.8				328	11.3	9.3			1
4/29/2015	XX	SWXX3X7AI	88	7.7	10.3				344	8.6	9.3			0.8
7/14/2015	XX	SWXX3X7BJ	93	8.1	21.5				305	5.4	5.8			1.2
10/27/2015	XX	SWXX3X7H8	81	8.8	4.6				293	11.4	0.016			0.6
4/5/2016	XX	SWXX3X85I	76	8.3	2.3				301	12.6				1.4
7/26/2016	XX	SWXX3X8A8	102	7.6	21.6				344	2.3				2.1
10/25/2016	XX	SWXX3X8I7	119	8.6	6.4				253	8.6	7			1.3
4/18/2017	XX	SWXX3X96D	59	8.3	8.3				347	10.8				1.1

SEVEE & MAHER ENGINEERS, INC.
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(SW-3)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
7/25/2017	XX	SWXX3X9CB	120	7.4	16.8				344	2.6	5			1.3
10/25/2017	XX	SWXX3X9G6	149	6.9	15.7				407	3.6	8			1.3
4/3/2018	XX	SWXX3XA24	84	7.7	1.8				459	4.6	2			1.1
7/17/2018	XX	SWXX3XAB6	134	7.6	21.4				437	1.9	4			1.9
10/2/2018	XX	SWXX3XB04	100	7.2	10.1				507	8.1	12			0.5
4/23/2019	XX	SWXX3XB50	70	7.4	7.1				330	9				0.8
7/16/2019	XX	SWXX3XBBD	92	7.6	24.3				300	5.7				1.3
10/29/2019	XX	SWXX3XBH6	99	7.5	8.6				232	10.3				0.5
4/28/2020	XX	SWXX3XCCD	73	7.7	8.8				359	9.9				1.4
7/21/2020	XX	SWXX3XCH6	94	7.2	23.1				373	3.4				0.9
10/27/2020	XX	SWXX3XD2A	78	7.6	8.4				403	8.1				0.8

SW-DP1

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/26/2011	XX	SWDP1X49D	139	6.6	12.6				374	6			80	3.6
7/19/2011	XX	SWDP1X4DB	154	7.6	27.1				328	5			63	0
10/25/2011	XX	SWDP1X4H6	117	7.7	14.2				324	6			35	0
4/24/2012	XX	SWDP1X51G	107	6.9	12.8				466	6			75	6.8
7/24/2012	XX	SWDP1X56F	167	7.4	25.6				395	6			80	7.5
10/23/2012	XX	SWDP1X5D6	66	7.2	11.7				477	6			25	2.1
4/23/2013	XX	SWDP1X5HH	195	7.3	12.1				236	6			20	3.1
7/30/2013	XX	SWDP1X642	82	6.7	26.8				285	6			30	0.7
10/29/2013	XX	SWDP1X66F	204	7.4	7.4				311	6			20	1.6
4/22/2014	XX	SWDP1X6EI	83	7.7	14.5				452	6			30	3.6
7/29/2014	XX	SWDP1X6J5	47	7.1	25.1				448	6			10	0.8
10/21/2014	XX	SWDP1X72G	54	7.4	11.4				368	6			15	0.8
4/28/2015	XX	SWDP1X78D	109	7.3	10.2				368	11.8				2.1
7/14/2015	XX	SWDP1X7C5	112	8.3	27				255	8.8				3.6
10/27/2015	XX	SWDP1X7HE	69	8	8.6				313	10.8				0.8
4/5/2016	XX	SWDP1X864	100	7.1	6.4				348	12.5				0.5
7/26/2016	XX	SWDP1X8AE	123	7.9	29.3				263	5.9				2.3
10/25/2016	XX	SWDP1X8ID	75	7.8	9.2				260	7.7				1.6
4/18/2017	XX	SWDP1X96J	74	6.9	12.5				389	10.2				1.7
7/25/2017	XX	SWDP1X9CH	142	7.4	24.9				274	7				0.8
10/23/2017	XX	SWDP1X9GC	109	7.7	16.6				263	9.1				0.8
4/3/2018	XX	SWDP1XA2B	34	7.3	1.9				457	9.1				2.6
7/17/2018	XX	SWDP1XABC	91	8.2	23.1				418	6.7				2.7
10/2/2018	XX	SWDP1XB0A	78	7.2	12				486	5.4				0.9
4/23/2019	XX	SWDP1XB57	101	7.1	9				367	9.9				1.4
7/16/2019	XX	SWDP1XBBJ	79	8.9	28.7				327	8.4				0.8
10/29/2019	XX	SWDP1XBHC	106	6.9	10.6				241	9.5				1.2
4/28/2020	XX	SWDP1XCCJ	439	7.8	9.5				356	12				1.7
7/21/2020	XX	SWDP1XCHC	206	7.6	27				358	8.8				2.2
10/27/2020	XX	SWDP1XD2G	148	7.7	7.5				261	8.3				0.8

SW-DP5

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/23/2013	XX	SWDP5X60I	162	7.6	12.8				236	6			20	2.6
7/30/2013	XX	SWDP5X65H	150	8	30.7				241	6			50	1.5
10/29/2013	XX	SWDP5X686	D	D	D				D	D			D	D
4/22/2014	XX	SWDP5X6GD	194	6.9	16.9				408	6			30	9.8
7/29/2014	XX	SWDP5X70F	99	7.9	27.5				392	6			15	2.6

SEVEE & MAHER ENGINEERS, INC.
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(SW-DP5)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/21/2014	XX	SWDP5X743	113	7.6	10.7				422	5			15	1.2
4/28/2015	XX	SWDP5X7A3	208	7.9	10.8				353	11.5				1.1
7/14/2015	XX	SWDP5X7DF	153	7.7	27.6				218	6.4				4.3
10/27/2015	XX	SWDP5X7J2	D	D	D				D	D				D
4/5/2016	XX	SWDP5X87E	D	D	D				D	D				D
7/26/2016	XX	SWDP5X8C4	D	D	D				D	D				D
10/25/2016	XX	SWDP5X902	I	I	I				I	I				I
4/18/2017	XX	SWDP5X989	D	D	D				D	D				D
7/25/2017	XX	SWDP5X9E6	173	8.1	25.4				273	7.7				0.4
10/24/2017	XX	SWDP5X9I1	D	D	D				D	D				D
4/3/2018	XX	SWDP5XA41	51	6.9	8.7				459	15.2				2.1
7/17/2018	XX	SWDP5XAD1	D	D	D				D	D				D
10/2/2018	XX	SWDP5XB1J	D	D	D				D	D				D
4/23/2019	XX	SWDP5XB6H	133	7.3	9.7				369	7.8				0.8
7/16/2019	XX	SWDP5XBD8	102	8.3	28.3				307	6.8				0.8
10/29/2019	XX	SWDP5XBJ0	107	7	9.3				239	10				1.8
4/28/2020	XX	SWDP5XCE8	173	8.1	10.1				333	12.6				1.6
7/21/2020	XX	SWDP5XCJ1	126	7.8	30.3				328	6.8				0.6
10/27/2020	XX	SWDP5XD44	82	8.5	10.2				320	10.5				0.6
SW-DP6														
4/26/2011	XX	SWDP6X49E	192	6.3	12.8				365	6				6.8
7/19/2011	XX	SWDP6X4DC	427	7.5	28.4				346	6			75	0
10/25/2011	XX	SWDP6X4H7	307	7.5	12.7				212	6	0.0022		80	0.5
4/24/2012	XX	SWDP6X51H	172	6.7	15.1				547	6			100	2.5
7/24/2012	XX	SWDP6X56G	97	7.2	25.1				396	5	0.0045		40	12
10/23/2012	XX	SWDP6X5D7	65	7.5	11.7				439	5			15	5.1
4/23/2013	XX	SWDP6X5HI	62	6.6	15.2				235	6			15	3.2
7/30/2013	XX	SWDP6X643	87	7	27.8				313	6			25	0.8
10/29/2013	XX	SWDP6X66G	113	7.3	8.3				333	5			25	0.6
4/22/2014	XX	SWDP6X6EJ	107	7.6	16.8				413	6			40	3.7
7/29/2014	XX	SWDP6X6J6	72	7.3	24.7				442	5			10	1.2
10/21/2014	XX	SWDP6X72H	75	7.7	11.5				394	6			15	2.6
4/28/2015	XX	SWDP6X78E	96	6.9	10				392	10.4				1.3
7/14/2015	XX	SWDP6X7C6	114	7.2	29.6				376	5.4				5.6
10/27/2015	XX	SWDP6X7HF	68	8.4	9.8				327	10.4				1.1
4/5/2016	XX	SWDP6X865	79	7.1	4.6				445	10				0.8
7/26/2016	XX	SWDP6X8AF	135	7.5	28.7				254	5.4				2.7
10/25/2016	XX	SWDP6X8IE	100	7.8	8.5				265	5.8				2.6
4/18/2017	XX	SWDP6X970	59	6.6	11.2				364	6.7				1.1
7/25/2017	XX	SWDP6X9CI	86	7.5	21.6				314	6.5				1.1
10/23/2017	XX	SWDP6X9GD	101	7.2	17.2				219	7.5				1.6
4/3/2018	XX	SWDP6XA2C	76	7.6	2.4				460	10.3				2.3
7/17/2018	XX	SWDP6XABD	140	8	23.9				443	4.5				2.1
10/2/2018	XX	SWDP6XB0B	136	7.8	11.6				478	6.2				0.8
4/23/2019	XX	SWDP6XB58	78	6.7	8.1				368	11.7				1.1
7/16/2019	XX	SWDP6XBC0	65	7.3	29.2				375	6.8				1.8
10/29/2019	XX	SWDP6XBHD	50	6.2	10.3				246	10.3				2.2
4/28/2020	XX	SWDP6XCD0	55	7.3	11.4				397	9.6				1.3
7/21/2020	XX	SWDP6XCHD	71	8.4	27.1				294	5.9				0.8

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(SW-DP6)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
10/27/2020	XX	SWDP6XD2H	91	8.2	9.4				330	10.1				0.7
OFFICE WELL														
4/6/2016	XX	DWOFFX87J	300	7.2	8.3				302	7.2				2.1
4/19/2017	XX	DWOFFX98D	302	6.9	9.3				381	8.6				1
4/4/2018	XX	DWOFFXA45	434	6.9	9.7				341	6.4				0.5
4/22/2019	XX	DWOFFXB71	353	7	9.6				420	6.2				2.1
7/15/2019	XX	DWOFFXBDB	372	7.2	12.8				267	7				2.8
SCALE HOUSE WELL														
4/6/2016	XX	DWSCLX880	585	7.2	7.2				276	6.8				4
4/19/2017	XX	DWSCLX98E	545	7	8.1				380	8.2				0.7
4/4/2018	XX	DWSCLXA46	585	7.1	6.1				397	5.6				0.8
4/22/2019	XX	DWSCLXB72	480	7.1	7.6				420	6.1				4.3
7/15/2019	XX	DWSCLXBDC	540	7	18.5				269	7.1				1.5

(SCALE HOUSE WELL)

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Water Level Reference Point Feet	Water Level Elevation Feet	Water Level Depth Feet	Eh mV	Dissolved Oxygen mg/L	Flow Rate cfs	Well Depth Feet	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- ! - The sampling location was damaged or destroyed.
- < - Less than specified amount
- A - The sampling location was Inaccessible
- D - The sampling location was dry.
- D3 - Sample too dark to take reading.
- DE - Decommissioned Location
- E2 - Estimated Field Value
- F - The sampling location was frozen.
- F1 - Well was flowing
- F12 - Pipe under water, no sample taken.
- F14 - Unable to measure flow.
- F6 - No flow. Sample not taken.
- FK - Outside range of available field kits.
- G7 - Field measurements elevated due to recent cleaning of underdrain pipe.
- H2 - Waterlevel higher than pipes. See LF-COMP for readings
- H5 - Waterlevel higher than pipes. See LP-COMP for readings
- H6 - Pipe under water, could not measure flow.
- H8 - No flow from pipe. See LF-COMP for readings
- H9 - No flow from pipe. See LP-COMP for readings
- I - The sampling location yielded insufficient quantity to collect a sample.
- L - Could not locate sampling location.
- M - Results are missing or not reliable due to a meter malfunction.
- M7 - No reading taken at this location.
- U - Not Detected above the laboratory reporting limit.

SUMMARY REPORT

Inorganics

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
DP-4													
4/25/2011	XX	GWXXXX4AD	0.3 U			102	7.6		8.5	166		0.9 J	114
7/18/2011	XX	GWXXXX4EB	0.3 U			106	8.3		10.1	172		1.4 J	46
10/24/2011	XX	GWXXXX4I6	0.3 U			104	9.9		9.7	166		1.4	5
4/25/2012	XX	GWXXXX52G	0.3			93	25.4		13	198		2 U	21
7/25/2012	XX	GWXXXX57F	0.4			77	26.9		14.4	182		2 U	22
10/24/2012	XX	GWXXXX5E6	0.31			78	31.6		15.3	196		2 U	34
4/24/2013	XX	GWXXXX5IH	0.349			80	30.8		19.3	195	0.12	2 U	75
LF-COMP													
7/19/2011	XX	LFXXXX4F1				175	5.4	0.02 J	7.2	233		0.7 U	4 U
4/24/2012	XX	LFXXXX53B				143	7	0.04 U	6	195		2 U	4 U
LF-UD-1													
4/26/2011	XX	LFUD1X4A2				149	7.7	0.02 J	6.9	211		1.6 J	4 U
7/19/2011	XX	LFUD1X4E0				171	5.1	0.02 J	10	232		0.7 J	8
10/25/2011	XX	LFUD1X4HF				173	3.3	0.03 J	8.2	205		1 J	40
4/24/2012	XX	LFUD1X525				H2	H2	H2	H2	H2		H2	H2
7/24/2012	XX	LFUD1X574				168	3	0.05	4.1	208		2 U	10
10/23/2012	XX	LFUD1X5DF				F6	F6	F6	F6	F6		F6	F6
4/23/2013	XX	LFUD1X5I6				164	11.5	0.04 U	7.8	230	0.16	2 U	4
7/30/2013	XX	LFUD1X64B				156	22.5	0.04 U	9.9	232	0.14	2 U	4 U
10/29/2013	XX	LFUD1X674				F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD1X6F7				177	19.1	0.04	10.4	235	0.1 U	2 U	35
7/29/2014	XX	LFUD1X6JE				155	17.3	0.33	5	231	0.14	2 U	394
10/21/2014	XX	LFUD1X735				F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD1X792		0.5 U		145	24.8	0.08	22.4	260	0.2	2 U	49
7/14/2015	XX	LFUD1X7CE		2 U		179	16.7	0.04 U	6.6	257	0.1 U	2 U	4 U
10/27/2015	XX	LFUD1X7I3		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD1X86D		0.07		152	26	0.04	12.7	242	0.1 U	2 U	4
7/26/2016	XX	LFUD1X8B3		I		I	I	I	I	I	I	I	I
10/25/2016	XX	LFUD1X8J2		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD1X978		0.19		170	21	0.1	7.3	243	0.2 U	2 U	56
7/25/2017	XX	LFUD1X9D6		0.22		170	24	0.04 U	24	290	0.2 U	2 U	15
10/25/2017	XX	LFUD1X9H1		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD1XA30		0.23		170	18	0.04 U	35	246	0.21	2 U	5
7/17/2018	XX	LFUD1XAC1		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFUD1XB0J		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD1XB5G		0.4		170	2.2	0.04 U	13	214	0.1 U	2 U	2.5 U
7/16/2019	XX	LFUD1XBC8		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD1XBI1		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD1XCD8		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD1XCI1		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD1XD35		F6		F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-2													
4/26/2011	XX	LFUD2X4A3				117	6.6	0.02 J	3.1	172		0.7 U	4 U
7/19/2011	XX	LFUD2X4E1				135	5.7	0.02 J	4.4	191		0.7 U	4 U
10/25/2011	XX	LFUD2X4HG				133	7.1	0.02 J	3.3	173		0.7 J	36
4/24/2012	XX	LFUD2X526				H2	H2	H2	H2	H2		H2	H2

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LF-UD-2)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/24/2012	XX	LFUD2X575				135	9.5	0.04 U	2 U	188		2 U	4 U
10/23/2012	XX	LFUD2X5DG				133	12.6	0.04 U	5.4	211		2 U	4 U
4/23/2013	XX	LFUD2X5I7				134	18.5	0.04 U	4.6	207	0.19	2 U	4 U
7/30/2013	XX	LFUD2X64C				127	35.2	0.04 U	4.8	208	0.12	2 U	4 U
10/29/2013	XX	LFUD2X675				162	15.3	0.04 U	9.9	228	0.18	2 U	12
4/22/2014	XX	LFUD2X6F8				147	33.6	0.04 U	4.8	218	0.11	2 U	4 U
7/29/2014	XX	LFUD2X6JF				152	21.6	0.04 U	2	220	0.17	2 U	45
10/21/2014	XX	LFUD2X736				220	7.7	0.04 U	7.2	279	0.1 U	2 U	25
4/28/2015	XX	LFUD2X793		0.5 U		139	24.4	0.04 U	26	257	0.2	2 U	4
7/14/2015	XX	LFUD2X7CF		2 U		177	19.7	0.04 U	6.1	254	0.17	2 U	4 U
10/27/2015	XX	LFUD2X7I4		0.5 U		193	20.3	0.04 U	7.5	264	0.1 U	2 U	4 U
4/5/2016	XX	LFUD2X86E		0.06		134	41.2	0.04 U	11.4	246	0.1 U	2 U	4 U
7/26/2016	XX	LFUD2X8B4		0.05 U		170	22.7	0.04	22.1	283	0.2	2 U	24
10/25/2016	XX	LFUD2X8J3		0.27		203	12.8	0.04 U	21.6	294	0.2 U	2 U	4 U
4/18/2017	XX	LFUD2X979		0.22		160	29	0.05	18	262	0.2 U	2 U	15
7/25/2017	XX	LFUD2X9D7		0.13		170	32	0.04 U	4.6	273	0.2 U	2 U	8
10/25/2017	XX	LFUD2X9H2		0.22		200	13	0.07	9	291	0.14	2 U	29
4/3/2018	XX	LFUD2XA31		0.28		160	17	0.04 U	56	267	0.18	2 U	2.5 U
7/17/2018	XX	LFUD2XAC2		0.24		210	24	0.04	12	290	0.19	6.3	17
10/2/2018	XX	LFUD2XB10		0.28		220	7.8	0.04 U	16	285	0.1 U	2 U	5
4/23/2019	XX	LFUD2XB5H		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD2XBC9		0.26		200	15	0.07	12	262	0.11	2 U	2.7
10/29/2019	XX	LFUD2XBI2		0.22		180	11	0.04	11	222	0.12	2 U	83
4/28/2020	XX	LFUD2XCD9		0.32		200	10	0.04 U	11	243	0.11	2 U	16
7/21/2020	XX	LFUD2XCI2		0.23		230	6.9	0.2	13	307	0.1	2 U	370
10/27/2020	XX	LFUD2XD36		0.2		230	3	0.04 U	14	276	0.1 U	43 M10	2.5 U

LF-UD-3A,B

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	LFXXXX4B1				148	7.4	0.01 J	13.4	229		1.2 J	4 U
7/19/2011	XX	LFXXXX4EJ				H2	H2	H2	H2	H2		H2	H2
10/25/2011	XX	LFXXXX4IC				F6	F6	F6	F6	F6		F6	F6
4/24/2012	XX	LFXXXX534				H2	H2	H2	H2	H2		H2	H2
7/24/2012	XX	LFXXXX581				F6	F6	F6	F6	F6		F6	F6
10/23/2012	XX	LFXXXX5EC				F6	F6	F6	F6	F6		F6	F6
4/23/2013	XX	LFXXXX5J5				F6	F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LFXXXX65A				F6	F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFXXXX67J				F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFXXXX6G6				F6	F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LFXXXX708				F6	F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFXXXX73H				F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79G		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFXXXX7D8		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFXXXX7IF		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX877		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFXXXX8BH		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFXXXX8JF		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LFXXXX9DJ		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LFXXXX9HE		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E		F6		F6	F6	F6	F6	F6	F6	F6	F6

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
(LF-UD-3A,B)													
7/17/2018	XX	LFXXXXACE		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFXXXXB1C		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBD1		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBID		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCIE		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD3H		F6		F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-4													
4/26/2011	XX	LFXXXX4B3				F12	F12	F12	F12	F12		F12	F12
7/19/2011	XX	LFXXXXHG2				H2	H2	H2	H2	H2		H2	H2
10/25/2011	XX	LFXXXX4GA				F6	F6	F6	F6	F6		F6	F6
4/24/2012	XX	LFXXXX536				H2	H2	H2	H2	H2		H2	H2
7/24/2012	XX	LFXXXX582				207	3.1	0.04 U	2 U	263		2 U	4 U
10/23/2012	XX	LFXXXX5CA				180	8.1	0.04 U	7.9	252		2 U	4 U
4/23/2013	XX	LFXXXX5J6				166	11.8	0.04 U	8.8	235	0.14	2 U	4 U
7/30/2013	XX	LFXXXX65B				F6	F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFXXXX680				168	13.2	0.04 U	11.1	234	0.1 U	2 U	4 U
4/22/2014	XX	LFXXXX6G7				206	8.9	0.04 U	14.2	252	0.1	2 U	4 U
7/29/2014	XX	LFXXXX709				F6	F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFXXXX73I				F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79H		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFXXXX7D9		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFXXXX7IG		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX878		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFXXXX8BI		0.13		177	20.9	0.04	20.9	281	0.2	2 U	36
10/25/2016	XX	LFXXXX8JG		0.25		202	12.5	0.04 U	24.9	298	0.2 U	2 U	4 U
4/18/2017	XX	LFXXXX983		0.14		170	2.4	0.04 U	8.9	247	0.2 U	2.6	110
7/25/2017	XX	LFXXXX9E0		0.18		170	24	0.04 U	24	279	0.2 U	2 U	10
10/25/2017	XX	LFXXXX9HF		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3F		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFXXXXACF		0.23		210	23	0.04 U	8.6	291	0.18	2 U	5.3
10/2/2018	XX	LFXXXXB1D		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBD2		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBIE		0.22		180	12	0.18	11	235	0.13	2 U	210
4/28/2020	XX	LFXXXXCE2		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCIF		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD3I		F6		F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-5and6													
4/26/2011	XX	LFXXXX4B4				224	2.7	0.01 J	15.9	287		1.5 J	4 U
7/19/2011	XX	LFXXXX4F2				238	2.5	0.02 J	15.3	293		1.9 J	14
10/25/2011	XX	LFXXXX4G7				224	3.2	0.16	16.6	332		2.5	154
4/24/2012	XX	LFXXXX537				232	3.2	0.05	14.9	272		2 U	26
7/24/2012	XX	LFXXXX584				232	2.5	0.04 U	11.9	279		2 U	4 U
10/23/2012	XX	LFXXXX5C7				201	3.3	0.07	14.6	268		2 U	128
4/23/2013	XX	LFXXXX5J7				157	3.6	0.04 U	11.5	200	0.11	2 U	8
7/30/2013	XX	LFXXXX65C				163	3.4	0.04 U	10.8	202	0.1 U	2 U	4 U

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LF-UD-5and6)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/29/2013	XX	LFXXXX681				200	3.3	0.04 U	11.8	244	0.1 U	2 U	7
4/22/2014	XX	LFXXXX6G8				181	4.7	0.04 U	14.7	222	0.1 U	2 U	18
7/29/2014	XX	LFXXXX70A				207	2.2	0.04 U	8.7	269	0.1	2 U	4 U
10/21/2014	XX	LFXXXX73J				F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79I		0.5 U		197	3.3	0.04 U	12.4	250	0.1 U	2 U	4 U
7/14/2015	XX	LFXXXX7DA		I		I	I	I	I	I	I	I	I
10/27/2015	XX	LFXXXX7IH		0.5 U		184	3.8	0.04 U	11.1	235	0.1 U	2	6
4/5/2016	XX	LFXXXX879		0.05		191	2.9	0.04 U	12.5	247	0.1 U	2 U	4 U
7/26/2016	XX	LFXXXX8BJ		0.05 U		186	2.7	0.04 U	26.9	230	0.2 U	2 U	4 U
10/25/2016	XX	LFXXXX8JH		0.2		167	2.1	0.04 U	9.8	215	0.2 U	2 U	4 U
4/18/2017	XX	LFXXXX984		0.07		160	2.2	0.04 U	18	201	0.2 U	2 U	2.5 U
7/25/2017	XX	LFXXXX9E1		0.21		200	2.8	0.04	11	243	0.2 U	2 U	4.7
10/25/2017	XX	LFXXXX9HG		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3G		0.14		150	1.7	0.04 U	39	192	0.13	2 U	2.5 U
7/17/2018	XX	LFXXXXACG		0.14		180	2.7	0.04 U	10	220	0.12	2 U	2.5 U
10/2/2018	XX	LFXXXXB1E		0.21		180	2.4	0.04 U	14	228	0.1 U	2 U	5
4/23/2019	XX	LFXXXXB6C		0.14		150	1.5	0.04 U	9.7	192	0.1	2 U	2.5 U
7/16/2019	XX	LFXXXXBD3		0.12		170	2	0.04 U	9.2	211	0.1 U	2 U	2.5 U
10/29/2019	XX	LFXXXXBIF		0.14		160	2.1	0.08	9.9	199	0.15	2 U	69
4/28/2020	XX	LFXXXXCE3		0.2		150	2.3	0.04 U	11	185	0.17	2 U	2.5 U
7/21/2020	XX	LFXXXXCIG		0.23		180	2.5	0.04 U	11	214	0.18	2 U	2.5 U
10/27/2020	XX	LFXXXXD3J		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	LFUD6X4B6				263	2.6	0.02 J	30.8	366		3.6	4 U
7/19/2011	XX	LFUD6X4F4				272	2.4	0.17	24.6	368		3.6	102
10/25/2011	XX	LFUD6X4G9				307	2.1	0.01 J	14.8	344		3.5	4 U
4/24/2012	XX	LFUD6X539				278	2.7	0.04 U	10.6	309		2 U	4 U
7/24/2012	XX	LFUD6X586				326	3.1	0.04 U	2 U	414		2.8	4 U
10/23/2012	XX	LFUD6X5C9				359	11.6	0.04 U	107	563		3.1	4 U
4/23/2013	XX	LFUD6X5J9				222	8.9	0.05	84.9	357	0.1	2 U	4 U
7/30/2013	XX	LFUD6X65E				338	18.2	0.04 U	143	554	0.1 U	3.3	4 U
10/29/2013	XX	LFUD6X683				343	14.1	0.04 U	116	552	0.12	3.1	4 U
4/22/2014	XX	LFUD6X6GA				275	15	0.11	128	464	0.1 U	2.9	4 U
7/29/2014	XX	LFUD6X70C				332	11.5	0.04	52.6	522	0.11	2.9	4 U
10/21/2014	XX	LFUD6X740				343	9.4	0.06	88.7	536	0.11	3	4 U
4/28/2015	XX	LFUD6X7A0		5.6		315	11.2	0.14	96.5	530	0.1 U	2.8	4 U
7/14/2015	XX	LFUD6X7DC		2 U		344	11.1	0.06	99.9	523	0.1 U	2.8	4 U
10/27/2015	XX	LFUD6X7IJ		1.5		337	12.8	0.09	96.3	544	0.1 U	2.7	4 U
4/5/2016	XX	LFUD6X87B		12		293	12.7	0.27	92.8	562	0.1 U	2.5	4 U
7/26/2016	XX	LFUD6X8C1		D		D	D	D	D	D	D	D	D
10/25/2016	XX	LFUD6X8JJ		I		I	I	I	I	I	I	I	I
4/18/2017	XX	LFUD6X986		2.5		230	7.5	0.12	7.5	289	0.2 U	2.4	41
7/25/2017	XX	LFUD6X9E3		I		I	I	I	I	I	I	I	I
10/25/2017	XX	LFUD6X9HI		5.8		180	1 U	0.16	7.3	280	0.1 U	2	2.5 U
4/3/2018	XX	LFUD6XA3I		5.6		130	1 U	0.12	42	193	0.1 U	2.7	2.5 U
7/17/2018	XX	LFUD6XACI		1.4		160	5 U	0.09	10 U	190	0.5 U	2 U	2.5 U
10/2/2018	XX	LFUD6XB1G		3.5		120	1 U	0.12	2 U	172	0.1 U	2 U	2.5 U
4/23/2019	XX	LFUD6XB6E		27		84	1.2	0.09	6.5	309	0.1 U	2 U	2.5 U
7/16/2019	XX	LFUD6XBD5		9.1		49	1 U	0.13	3.3	149	0.1 U	2 U	8.7

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/29/2019	XX	LFUD6XBIH		20		4.9	1.9	0.65	4.6	186	0.1 U	2.8	150
4/28/2020	XX	LFUD6XCE5		60		1.5 U	2 U	0.2	12	438	0.2 U	2 U	2.5 U
7/21/2020	XX	LFUD6XCII		D		D	D	D	D	D	D	D	D
10/27/2020	XX	LFUD6XD41		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/24/2012	XX	LFUD7X53A				H2	H2	H2	H2	H2		H2	H2
7/24/2012	XX	LFXXXX587				F6	F6	F6	F6	F6		F6	F6
10/23/2012	XX	LFXXXX5EF				F6	F6	F6	F6	F6		F6	F6
4/23/2013	XX	LFUD7X5JA				F6	F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LFUD7X65F				F6	F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFUD7X684				F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD7X6GB				F6	F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LFUD7X70D				F6	F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFUD7X741				F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD7X7A1		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFUD7X7DD		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFUD7X7J0		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD7X87C		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD7X8C2		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD7X900		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LFUD7X9E4		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LFUD7X9HJ		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFUD7XACJ		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFUD7XB1H		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD7XBD6		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD7XBII		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD7XCIJ		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD7XD42		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/23/2013	XX	LFUD8X5JD				152	3.5	0.04 U	7.3	195	0.1 U	2 U	4 U
7/30/2013	XX	LFUD8X65G				172	4	0.04 U	9.6	216	0.1 U	2 U	4 U
10/29/2013	XX	LFUD8X685				180	3.5	0.04 U	8.2	222	0.1 U	2 U	4 U
4/22/2014	XX	LFUD8X6GC				F12	F12	F12	F12	F12	F12	F12	F12
7/29/2014	XX	LFUD8X70E				38	3.3	0.05	4.6	74	0.1 U	5.7	4 U
10/21/2014	XX	LFUD8X742				12.4	3.7	0.04 U	12.9	69	0.1 U	5.4	4
4/28/2015	XX	LFUD8X7A2		0.5 U		21	7.3	0.08	17	74	0.1 U	3.6	9
7/14/2015	XX	LFUD8X7DE		I		I	I	I	I	I	I	I	I
10/27/2015	XX	LFUD8X7J1		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD8X87D		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD8X8C3		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD8X901		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988		0.05 U		9.4	14	0.04	49	55	0.2 U	3.7	6
7/25/2017	XX	LFUD8X9E5		D		D	D	D	D	D	D	D	D
10/25/2017	XX	LFUD8X9I0		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/3/2018	XX	LFUD8XA40		0.11		15	3.8	0.04	11	71	0.1 U	2.5	43
7/17/2018	XX	LFUD8XAD0		D		D	D	D	D	D	D	D	D
10/2/2018	XX	LFUD8XB1I		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD8XB6G		0.058		14	7.1	0.1	14	70	0.1 U	4.7	11
7/16/2019	XX	LFUD8XBD7		0.05 U		14	4.7	0.04 U	8.7	53	0.1 U	6.3	5.5
10/29/2019	XX	LFUD8XBIJ		0.062		6	2	0.04	13	42	0.1 U	4.8	6.7
4/28/2020	XX	LFUD8XCE7		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD8XCJ0		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD8XD43		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/5/2016	XX	LFUD9X881		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD9X8CA		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD9X905		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F		0.88		90	5.1	0.08	11	224	0.2 U	2.7	57
10/25/2017	XX	LFUD9X9I4		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD9XA47		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFUD9XAD4		D		D	D	D	D	D	D	D	D
10/2/2018	XX	LFUD9XB22		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD9XBDD		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD9XBJ3		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD9XCJ6		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD9XD47		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/25/2017	XX	LFXXXX9ID		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA48		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFU10XAD6		D		D	D	D	D	D	D	D	D
10/3/2018	XX	LFXXXXB27		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBDE		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBJ7		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCJ7		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD4B		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	LPUD1X4A4				F6	F6	F6	F6	F6		F6	F6
7/19/2011	XX	LPUD1X4E2				F6	F6	F6	F6	F6		F6	F6
10/25/2011	XX	LPUD1X4HH				F6	F6	F6	F6	F6		F6	F6
4/24/2012	XX	LPUD1X527				F6	F6	F6	F6	F6		F6	F6
7/24/2012	XX	LPUD1X576				F6	F6	F6	F6	F6		F6	F6
10/23/2012	XX	LPUD1X5DH				F6	F6	F6	F6	F6		F6	F6
4/23/2013	XX	LPUD1X5I8				F6	F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LPUD1X64D				F6	F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LPUD1X676				F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LPUD1X6F9				F6	F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LPUD1X6JG				F6	F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LPUD1X737				F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/28/2015	XX	LPUD1X794		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LPUD1X7CG		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/26/2015	XX	LPUD1X7I5		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LPUD1X86F		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LPUD1X8B5		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LPUD1X8J4		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LPUD1X9D8		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LPUD1X9H3		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LPUD1XAC3		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LPUD1XB11		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I		0.31		120	3.1	0.04 U	23	163	0.1 U	2 U	2.5 U
7/16/2019	XX	LPUD1XBCA		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LPUD1XBI3		F6		F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LPUD1XCDA		F6		F6	F6	F6	F6	F6	F6	F6	F6
7/22/2020	XX	LPUD1XCI3		F6		F6	F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LPUD1XD37		F6		F6	F6	F6	F6	F6	F6	F6	F6

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	LPUD2X4A5				133	6.7	0.01 U	8.5	187		0.7 U	4 U
7/19/2011	XX	LPUD2X4E3				135	6.3	0.06	8.6	193		0.8 J	73
10/25/2011	XX	LPUD2X4HI				135	5.3	0.11	9.7	181		0.9 J	11
4/24/2012	XX	LPUD2X528				123	5.2	0.04 U	9.9	165		2 U	4 U
7/24/2012	XX	LPUD2X577				143	5.1	0.04 U	8.5	192		2 U	4 U
10/23/2012	XX	LPUD2X5DI				128	5.6	0.04 U	8.6	287		2 U	4 U
4/23/2013	XX	LPUD2X5I9				137	6.7	0.04 U	12.2	185	0.11	2 U	4 U
7/30/2013	XX	LPUD2X64E				136	7.2	0.04 U	12.1	182	0.1 U	2 U	4 U
10/29/2013	XX	LPUD2X677				153	6.2	0.04 U	10.4	194	0.11	2 U	4 U
4/22/2014	XX	LPUD2X6FA				140	8.3	0.04 U	13.9	183	0.1 U	2 U	4 U
7/29/2014	XX	LPUD2X6JH				139	3.9	0.04 U	4.7	193	0.1 U	2 U	4 U
10/21/2014	XX	LPUD2X738				137	3.9	0.04 U	8.1	189	0.1 U	2 U	4 U
4/28/2015	XX	LPUD2X795		0.5 U		137	5.9	0.04 U	9.2	182	0.1 U	2 U	4 U
7/14/2015	XX	LPUD2X7CH		2 U		145	4.9	0.04 U	10.4	202	0.1 U	2 U	4 U
10/27/2015	XX	LPUD2X7I6		0.5 U		142	6.8	0.04 U	8.9	184	0.1 U	2 U	4 U
4/5/2016	XX	LPUD2X86G		0.1		137	5.7	0.04 U	9.9	177	0.1 U	2 U	4 U
7/26/2016	XX	LPUD2X8B6		0.13		163	5	0.04 U	8.6	218	0.2 U	2 U	4 U
10/25/2016	XX	LPUD2X8J5		0.14		229	5.4	0.04 U	10.7	294	0.2 U	2 U	4
4/18/2017	XX	LPUD2X97B		0.14		220	9.1	0.04 U	2 U	248	0.2 U	2 U	2.5 U
7/25/2017	XX	LPUD2X9D9		0.2		150	4.7	0.04 U	9.3	199	0.2 U	2 U	2.5 U
10/25/2017	XX	LPUD2X9H4		0.23		130	4	0.04 U	8.8	196	0.1 U	2 U	2.5 U
4/3/2018	XX	LPUD2XA33		0.3		120	3.6	0.04 U	2.1	156	0.1 U	2 U	2.5 U
7/17/2018	XX	LPUD2XAC4		0.27		140	4.3	0.04 U	8.8	184	0.1 U	2 U	2.5 U
10/2/2018	XX	LPUD2XB12		0.21		140	3.7	0.04 U	8.3	191	0.1 U	2 U	2.5 U
4/23/2019	XX	LPUD2XB5J		0.3		120	3.1	0.04 U	8.9	154	0.1 U	2 U	2.5 U
7/16/2019	XX	LPUD2XBCB		0.22		130	4	0.04 U	9.5	159	0.1 U	2 U	2.5 U
10/29/2019	XX	LPUD2XBI4		0.23		130	3	0.04 U	9.3	165	0.1 U	2 U	2.5 U
4/28/2020	XX	LPUD2XCDB		0.38		140	3.4	0.04 U	9.6	170	0.1 U	2 U	2.5 U
7/21/2020	XX	LPUD2XCI4		0.085		150	4.2	0.04 U	9.8	204	0.13	2 U	41
10/27/2020	XX	LPUD2XD38		0.24		150	8.4	0.17	8.1	199	0.12	27 M10	36

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
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(MW04-102)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
MW04-102													
4/25/2011	XX	GW102X4AG	0.3 U			102	1.1		8.5	136		0.7 U	4 U
7/19/2011	XX	GW102X4EE	0.3 U			101	1		9.1	137		0.7 U	4 U
10/25/2011	XX	GW102X4I9	0.3 U			105	2		8.8	126		0.7 U	4 U
4/24/2012	XX	GW102X52J	0.35			102	2		11.4	119		2 U	4 U
7/24/2012	XX	GW102X57I	3.8			101	1 U		11.4	122		2 U	4 U
10/22/2012	XX	GW102X5E9	0.98			107	1.1		6.7	141		2 U	4 U
4/23/2013	XX	GW102X5J0	0.3 U			100	2.4		13.2	143	0.1 U	2 U	4 U
7/31/2013	XX	GW102X655	0.646			102	1.2		9.1	134	0.1 U	2 U	4 U
10/28/2013	XX	GW102X67F	0.5 U			101	2.5		9.1	137	0.1 U	2 U	4 U
4/23/2014	XX	GW102X6G1	0.5 U			103	1.8		11.2	127	0.1 U	2 U	4 U
7/30/2014	XX	GW102X704	0.5 U			99	1.4		8.7	132	0.1 U	2 U	4 U
10/21/2014	XX	GW102X73F	0.5 U			103	1.5		10.2	143	0.1 U	2 U	4 U
4/29/2015	XX	GW102X79C	0.5 U	0.5 U		100	2.1		12.7	127	0.1 U	2 U	4 U
7/14/2015	XX	GW102X7D4	0.5 U	2 U		98	2.5		13.8	135	0.1 U	2 U	4 U
10/28/2015	XX	GW102X7ID	0.5 U	0.5 U		99	2.2		10.8	138	0.1 U	2 U	4 U
4/5/2016	XX	GW102X873	0.5 U	0.05 U		100	1.6		14.1	133	0.1 U	2 U	4 U
7/26/2016	XX	GW102X8BD	0.5 U	0.05 U		99	2.2		14.5	136	0.2 U	2 U	4 U
10/25/2016	XX	GW102X8JC	0.5 U	0.05		99	1.7		12.2	151	0.2 U	2 U	5
4/19/2017	XX	GW102X97I	0.5 U	0.07		100	1.5		10	130	0.2 U	2 U	2.5 U
7/26/2017	XX	GW102X9DG	0.5 U	0.06		99	1.7		12	123	0.2 U	2 U	2.5 U
10/25/2017	XX	GW102X9HB	0.25 U	0.05		94	1.4		12	150	0.1 U	2 U	2.5 U
4/4/2018	XX	GW102XA3A	0.5 U	0.12		100	1.1		5.7	140	0.1 U	2 U	3
7/18/2018	XX	GW102XACB	0.25 U	0.054		100	1.7		12	133	0.1 U	2 U	2.5 U
10/3/2018	XX	GW102XB19	0.25 U	0.074		100	1.5		13	143	0.1 U	2 U	2.5 U
4/24/2019	XX	GW102XB66	0.25 U	0.11		98	1.2		13	131	0.1 U	2 U	2.5 U
7/17/2019	XX	GW102XBCH	0.25 U	0.065		99	1.1		13	132	0.1 U	2 U	2.5 U
10/28/2019	XX	GW102XBIA	0.25 U	0.091		100	1.9		13	131	0.1 U	2 U	2.5 U
4/27/2020	XX	GW102XCDH	0.25 U	0.15		100	2 U		13	138	0.2 U	2 U	2.5 U
7/20/2020	XX	GW102XCIA	0.25 U	0.089		100	1.6		13	133	0.1 U	2 U	2.5 U
10/26/2020	XX	GW102XD3E	0.28	0.085		110	1.1		11	136	0.1 U	5.2 M10	2.5 U
MW04-105													
4/26/2011	XX	GW105X4AH	0.3 U			125	8.3		5.2	178		0.8 J	4 U
4/26/2011	XD	GWDP3X49F	0.3 U			124	8.3		5.2	175		0.7 J	4 U
7/18/2011	XX	GW105X4EF	0.3 U			144	7.1		5.9	184		1.1 J	4 U
10/25/2011	XX	GW105X4IA	0.3 U			100	5		4.5	141		1.2 J	4 U
10/25/2011	XD	GWDP1X4GH	0.3 U			102	5.8		5.1	148		1.1 J	4 U
4/23/2012	XX	GW105X530	0.3 U			105	5.6		6.4	164		2 U	4 U
4/23/2012	XD	GWDP3X51I	0.3 U			102	5.7		6.4	154		2 U	4 U
7/24/2012	XX	GW105X57J	1			125	2.9		7.7	156		2 U	4 U
10/22/2012	XX	GW105X5EA	1			117	3		4.2	160		2 U	4 U
10/22/2012	XD	GWDP1X5CH	0.71			108	3.3		4.6	150		2 U	4 U
4/24/2013	XX	GW105X5J1	0.3 U			111	7.7		5.5	162	0.1 U	2 U	4 U
4/24/2013	XD	GWDP3X5HJ	0.3 U			110	7.3		5.6	154	0.1 U	2 U	4 U
MW04-109R													
4/26/2011	XX	GW109X4AI	0.3 U			220	4.6		5.3	267		1.2 J	4 U
7/19/2011	XX	GW109X4EG	0.3 U			195	8.5		5.8	258		1.4 J	4 U
10/25/2011	XX	GW109X4IB	0.3 U			202	7.7		6.2	253		1.8 J	4 U

(MW04-109R) Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/24/2012	XX	GW109X531	0.3 U			186	5.7		6.9	230		2 U	4 U
7/24/2012	XX	GW109X580	0.59			184	2.3		6.4	227		2 U	4 U
10/23/2012	XX	GW109X5EB	0.32			203	5.8		2.6	271		2 U	4 U
4/23/2013	XX	GW109X5J2	0.3 U			190	6.5		8.7	245	0.17	2 U	4 U
7/30/2013	XX	GW109X657	0.444			195	7.7		8.6	242	0.14	2 U	4 U
10/29/2013	XX	GW109X67G	0.5 U			206	6.3		7.7	259	0.16	2 U	4 U
4/22/2014	XX	GW109X6G3	0.5 U			196	8.1		8.7	236	0.25	2 U	4 U
7/29/2014	XX	GW109X705	0.5 U			198	6.6		4	248	0.13	2 U	4 U
10/21/2014	XX	GW109X73G	0.5 U			209	4.9		5.8	260	0.14	2 U	4 U
4/28/2015	XX	GW109X79D	0.5 U	0.5 U		201	7.2		9.6	256	0.2	2 U	4 U
7/14/2015	XX	GW109X7D5	0.5 U	2 U		193	6		9.1	247	0.17	2 U	4 U
10/27/2015	XX	GW109X7IE	0.5 U	0.5 U		207	6.7		9.2	265	0.2	2 U	4 U
4/5/2016	XX	GW109X874	0.5 U	0.05 U		199	6.6		10.9	256	0.1 U	2 U	4 U
7/26/2016	XX	GW109X8BE	0.5 U	0.05 U		193	8.4		10.6	245	0.2	2 U	4 U
10/25/2016	XX	GW109X8JD	0.5 U	0.08		200	4.7		8.3	270	0.2	2 U	4 U
4/18/2017	XX	GW109X97J	0.5 U	0.05 U		230	5.5		8.6	261	0.2 U	2 U	2.5 U
7/25/2017	XX	GW109X9DH	0.5 U	0.06		210	6		12	259	0.2 U	2 U	2.5 U
10/24/2017	XX	GW109X9HC	0.25 U	0.05 U		190	9.9		9.1	267	0.1 U	2 U	2.5 U
4/3/2018	XX	GW109XA3B	0.25 U	0.15		220	5.5		55	271	0.17	2 U	2.5 U
7/17/2018	XX	GW109XACC	0.29	0.21		200	11		9.9	258	0.15	2.1	2.5 U
10/2/2018	XX	GW109XB1A	0.25 U	0.1		200	5		9	252	0.11	2 U	2.5 U
4/23/2019	XX	GW109XB67	0.25 U	0.058		210	3.8		10	256	0.16	2 U	2.5 U
7/16/2019	XX	GW109XBCI	0.25 U	0.05 U		220	6.8		8.9	265	0.15	2 U	2.5 U
10/29/2019	XX	GW109XBIB	0.92	0.05 U		210	1 U		8.5	260	0.2	2	2.5 U
4/28/2020	XX	GW109XCDI	0.25 U	0.11		210	4.2		10	251	0.16	2 U	2.5 U
7/21/2020	XX	GW109XCIB	0.29	0.073		200	3.6		8	252	0.23	2 U	2.5 U
10/27/2020	XX	GW109XD3F	0.27	0.058		190	2.8		6.8	224	0.14	54 M10	2.5 U
MW06-01													
4/10/2018	XD	GWDP1XA68	0.25 U	0.14	1 U		4.8	0.04 U	2.3	53	0.1 U	2 U	2.5 U
4/10/2018	XX	GWXXXXA70	0.25 U	0.13	1 U		4.8	0.04 U	2.3	50	0.1 U	2 U	2.5 U
6/4/2018	XX	GWXXXXA7H	0.25 U	0.11	1 U		8.9	0.04 U	2.8	75	0.1 U	2 U	2.5 U
7/18/2018	XX	GWXXXXAEF	0.25 U	0.13	1 U		8.1		3	72	0.1 U	2 U	2.5 U
8/20/2018	XD	GWDP1XAF4	0.25 U	0.097			7.3		2.7	68	0.1 U	2 U	2.5 U
8/20/2018	XX	GWXXXXAFG	0.25 U	0.078			7.3		2.6	78	0.1 U	2 U	2.5 U
4/24/2019	XX	GWXXXXB7D	0.25 U	0.091		30	4.4		2.9	60	0.1 U	2 U	2.5 U
7/18/2019	XX	GWXXXXBE1	0.25 U	0.13		34	7.5		2.6	77	0.1 U	2 U	2.5 U
10/30/2019	XX	GWXXXXBJ8	0.25 U	0.11		23	1.3		9.2	50	0.1 U	2 U	2.5 U
4/29/2020	XX	GWXXXXCF1	0.25 U	0.15		31	7.8		3.3	60	0.1 U	2 U	2.5 U
7/22/2020	XX	GWXXXXCJE	0.25 U	0.05 U		31	6.7		3.3	64	0.1 U	2 U	2.5 U
10/28/2020	XX	GWXXXXD4C	0.25 U	0.16		33	7.7		2.7	53	0.1 U	4.9 M10	2.5 U
MW-204													
4/26/2011	XX	GW204X4A9	0.3 U			73	5.1		4.5	130		0.7 U	4 U
7/19/2011	XX	GW204X4E7	0.3 U			80	4.7		4.7	121		0.7 U	4 U
10/26/2011	XX	GW204X4I2	0.3 U			78	4.2		6.4	124		0.8 J	4 U
4/24/2012	XX	GW204X52C	0.3 U			72	3.8		7.7	112		2 U	4 U
7/23/2012	XX	GW204X57B	0.3 U			80	3.1		8.1	130		2 U	4 U
10/24/2012	XX	GW204X5E2	0.3			82	4.8		7.5	136		2 U	4 U
4/24/2013	XX	GW204X5ID	0.381			77	5.5		6.2	134	0.1 U	2 U	5

(MW-206)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
MW-206													
4/25/2011	XX	GW206X48I	0.3 U			65	1.1		1 J	97		0.7 U	8
7/18/2011	XX	GW206X4CG	1.2			73	1.8		0.8 J	92		2.2	12
10/24/2011	XX	GW206X4GB	0.3 U			69	1.8		1.1 J	91		1.1 J	5
4/23/2012	XX	GW206X511	0.3 U			70	1.8		2.7	91		2 U	4 U
7/23/2012	XX	GW206X560	0.35			69	1.2		2 U	99		2 U	4 U
7/23/2012	XD	GWDP4X573	0.3 U			68	1.4		2.1	86		2 U	6
10/22/2012	XX	GW206X5CB	0.94			70	1.2		2 U	95		2 U	4
4/22/2013	XX	GW206X5H2	0.311			66	2.4		2.8	88	0.1 U	2 U	4 U
7/29/2013	XX	GW206X637	0.684			66	2		2.2	88	0.1 U	2 U	4 U
7/29/2013	XD	GWDP4X64A	0.492			63	1.8		2.2	90	0.1 U	2 U	4 U
10/28/2013	XX	GW206X660	0.5 U			70	2.4		2.3	95	0.1 U	2 U	4 U
4/21/2014	XX	GW206X6E3	0.5 U			71	2.6		2 U	83	0.1 U	2 U	4 U
7/28/2014	XX	GW206X6IB	0.5 U			68	1.3		2 U	83	0.1 U	2 U	4 U
7/28/2014	XD	GWDP1X6IG	0.8			67	1.1		2 U	87	0.1 U	2 U	4 U
10/20/2014	XX	GW206X721	0.5 U			74	1.6		2 U	91	0.1 U	2 U	4 U
4/27/2015	XX	GW206X77J	0.5 U	0.5 U		69	3.6		2 U	88	0.1 U	2 U	4 U
7/13/2015	XX	GW206X7BB	0.5 U	2 U		70	1.3		2.1	95	0.1 U	2 U	4 U
7/13/2015	XD	GWDP3X7C7	0.5 U	2 U		65	1.6		2 U	95	0.1 U	2 U	4 U
10/26/2015	XX	GW206X7H0	0.5 U	0.5 U		68	3.2		2 U	95	0.1 U	2 U	4 U
4/4/2016	XX	GW206X85A	1.2	0.05		70	1.9		2.3	95	0.1 U	2 U	4 U
7/25/2016	XD	GWDP4X8B2	0.7	0.14		68	1.4		2 U	95	0.2 U	2 U	4 U
7/25/2016	XX	GW206X8A0	0.7	0.05 U		69	1.5		2 U	95	0.2 U	2 U	4 U
10/24/2016	XX	GW206X8HJ	0.5 U	0.18		69	1.6		2 U	97	0.2 U	2 U	4 U
4/17/2017	XX	GW206X965	0.5 U	0.16		73	1.3		2 U	102	0.2 U	2 U	37
7/24/2017	XD	GWDP4X9D5	0.5 U	0.18		70	1.9		2.3	110	0.2 U	2 U	5 U
7/24/2017	XX	GW206X9C3	0.5 U	0.13		69	2.1		2.3	68	0.2 U	2 U	5 U
10/23/2017	XX	GW206X9FI	0.25 U	0.22		64	1		2 U	92	1.2	2 U	2.5 U
4/2/2018	XX	GW206XA1G	0.25 U	0.23		71	1.4		2 U	97	0.1 U	2 U	8
7/16/2018	XD	GWDP4XAC0	0.49	0.28		66	1.9		2 U	80	0.1 U	2 U	2.5 U
7/16/2018	XX	GW206XAAI	0.26	0.26		70	2.3		2.4	88	0.1 U	2 U	2.5 U
10/1/2018	XX	GW206XAJG	0.25 U	0.05 U		72	1.9		2.1	92	0.1 U	2 U	2.5 U
4/22/2019	XX	GW206XB4C	0.25 U	0.2		68	1.7		2 U	97	0.1 U	2 U	5
7/17/2019	XX	GW206XBB5	0.25 U	0.18		71	2		2.3	93	0.1 U	2 U	2.5 U
10/28/2019	XX	GW206XBGJ	0.25 U	0.18		71	2.2		2 U	99	0.1 U	2 U	2.5 U
4/27/2020	XX	GW206XCC5	0.25 U	0.11		74	2.4		2.4	101	0.1 U	2 U	3
7/20/2020	XX	GW206XCGI	0.25 U	0.26		70	2.8		2.6	89	0.1 U	2 U	2.5 U
10/26/2020	XX	GW206XD23	0.25 U	0.16		72	2		1.7	89	0.1 U	6.6 M10	2.5 U
MW-223A													
4/26/2011	XX	GW223A491	0.3 U			137	20.3		3.8	224		0.7 U	4 U
4/26/2011	XD	GWDP1X494	0.3 U			135	19.5		3.7	230		0.7 U	4 U
7/19/2011	XX	GW223A4CJ	0.3 U			138	21.3		4.7	241		0.7 U	4 U
10/25/2011	XX	GW223A4GE	0.3 U			143	21.8		6.3	231		0.7 U	4 U
10/25/2011	XD	GWDP3X4H8	0.3 U			139	22.8		6.6	235		0.7 U	4 U
4/24/2012	XX	GW223A514	0.3 U			149	24.1		7.4	244		2 U	4 U
4/24/2012	XD	GWDP1X517	0.3 U			147	24.1		7.5	231		2 U	4 U
7/24/2012	XX	GW223A563	0.31			144	23.9		7.8	229		2 U	4 U
10/23/2012	XX	GW223A5CE	0.31			153	25.4		4	262		2 U	4 U

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(MW-223A)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/23/2012	XD	GWDP3X5D8	0.3 U			149	24.4		7	266		2 U	4 U
4/23/2013	XX	GW223A5H5	0.323			168	34.9		9	275	0.2	2 U	4 U
4/23/2013	XD	GWDP1X5H8	0.3 U			168	35.2		9.8	275	0.18	2 U	4 U
7/30/2013	XX	GW223A63A	0.556			168	45.2		9.3	266	0.15	2 U	4 U
10/29/2013	XX	GW223A663	0.5 U			176	36.8		8.6	278	0.22	2 U	4 U
10/29/2013	XD	GWDP3X66H	0.5 U			170	36.6		8.6	278	0.22	2 U	4 U
4/22/2014	XX	GW223A6E6	0.5 U			186	57.6		12.1	288	0.1 U	2 U	4 U
4/22/2014	XD	GWDP1X6E9	0.5 U			185	56.3		12.3	282	0.1 U	2 U	4 U
7/29/2014	XX	GW223A6ID	0.5			176	36		4.4	288	0.15	2 U	4 U
10/21/2014	XX	GW223A723	0.5 U			178	32		8	296	0.16	2 U	4 U
10/21/2014	XD	GWDP3X72I	0.5 U			177	31.9		7.8	313	0.17	2 U	4 U
4/28/2015	XX	GW223A781	0.5 U	0.5 U		184	34.9		10.8	308	0.1	2 U	4 U
4/28/2015	XD	GWDP1X784	0.5 U	0.5 U		184	35.2		11.1	302	0.1	2 U	4 U
7/14/2015	XX	GW223A7BD	0.5 U	2 U		182	37.8		11.9	319	0.1 U	2 U	4 U
10/27/2015	XX	GW223A7H2	0.5 U	0.5 U		186	41.2		12.1	326	0.1 U	2 U	4 U
4/27/2016	XX	GW223A85C	0.5 U	0.48		191	43.2		13.9	318	0.1 U	2 U	4 U
7/26/2016	XX	GW223A8A2	0.5 U	0.36		184	41.9		14.6	345	0.2 U	2 U	4 U
10/25/2016	XX	GW223A8I1	0.5 U	0.57		185	43.5		13.4	353	0.2 U	2 U	4 U
4/18/2017	XX	GW223A967	0.5 U	0.58		200	40		8	334	0.2 U	2 U	2.5 U
7/25/2017	XX	GW223A9C5	0.5 U	0.48		190	46		16	356	0.2 U	2 U	2.5 U
10/24/2017	XX	GW223A9G0	0.25 U	0.58		180	49		16	346	0.1 U	2 U	2.5 U
4/3/2018	XX	GW223AA1I	0.25 U	0.67		200	32		59	333	0.12	2 U	2.5 U
7/17/2018	XX	GW223AAB0	0.43	0.7		190	43		16	337	0.11	2 U	2.5 U
10/2/2018	XX	GW223AAJI	0.35	0.63		200	41		16	346	0.1 U	2 U	2.5 U
4/23/2019	XX	GW223AB4E	0.26	0.72		210	26		18	337	0.11	2 U	2.5 U
7/16/2019	XX	GW223ABB7	0.4	0.71		220	34		18	345	0.11	2 U	2.5 U
10/29/2019	XX	GW223ABH0	0.29	0.64		230	32		19	337	0.12	2 U	2.5 U
4/28/2020	XX	GW223ACC7	0.25 U	0.74		230	32		22	360	0.15	2 U	2.5 U
7/21/2020	XX	GW223ACH0	0.25 U	0.17		240	31		20	376	0.23	2 U	2.5 U
10/27/2020	XX	GW223AD24	0.25 U	0.55		250	31		19	337	0.13	44 M10	2.5 U

MW-223B

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	GW223B4AA	0.3 U			124	15.6		2.5	185		0.7 U	4 U
7/19/2011	XX	GW223B4E8	1.1			122	18.1		3.6	198		1.9 J	4 U
7/19/2011	XD	GWDP3X4DD	1.2			127	18		2.6	189		1.9 J	4 U
10/25/2011	XX	GW223B4I3	1			128	17.9		3.3	199		1.8 J	4
4/24/2012	XX	GW223B52D	0.57			118	22.3		5.1	190		2 U	4 U
7/24/2012	XX	GW223B57C	0.79			115	24.4		4.6	205		2 U	4 U
7/24/2012	XD	GWDP3X56H	0.45			117	23.7		4.6	191		2 U	4 U
10/23/2012	XX	GW223B5E3	0.3 U			121	24.1		5	216		2 U	4 U
4/23/2013	XX	GW223B5IE	0.597			124	32.6		5.6	201	0.16	2 U	4 U
7/30/2013	XX	GW223B64J	0.493			119	42.9		5.7	185	0.16	2 U	4 U
10/29/2013	XX	GW223B67C	0.5 U			125	34.3		5.5	202	0.2	2 U	4 U
4/22/2014	XX	GW223B6FF	0.5 U			135	55.7		7.6	225	4.13	2 U	4 U
7/29/2014	XX	GW223B700	1.2			133	34.8		3	225	0.18	2 U	4 U
10/21/2014	XX	GW223B73C	0.5 U			135	31.6		5.2	239	0.15	2 U	4 U
4/28/2015	XX	GW223B798	0.5 U	0.5 U		138	34.4		7	234	0.2	2 U	4 U
7/14/2015	XX	GW223B7D0	0.5 U	2 U		139	36.7		6.8	240	0.1 U	2 U	4 U
10/27/2015	XX	GW223B7I9	0.5 U	0.5 U		143	39.7		7.6	261	0.1 U	2 U	4 U
4/5/2016	XX	GW223B86J	0.5 U	0.15		146	40.1		8.8	228	0.1 U	2 U	12

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
(MW-223B)													
7/26/2016	XX	GW223B8B9	0.5 U	0.17		146	36.6		8.7	248	0.2 U	2 U	4 U
10/25/2016	XX	GW223B8J8	1	0.43		147	34.4		7.1	262	0.2 U	2 U	4 U
4/18/2017	XX	GW223B97E	0.5 U	0.43		160	1.3		12	246	0.2 U	2 U	2.5 U
7/25/2017	XX	GW223B9DC	0.5 U	0.41		150	40		9.3	261	0.2 U	2 U	2.5 U
10/24/2017	XX	GW223B9H7	0.34	0.45		150	44		9.4	252	0.1 U	2 U	2.5 U
4/3/2018	XX	GW223BA36	0.27	0.58		160	31		53	254	0.1 U	2 U	2.5 U
7/17/2018	XX	GW223BAC7	0.25 U	0.67		160	42		11	252	0.11	2 U	2.5 U
10/2/2018	XX	GW223BB15	0.25 U	0.58		170	42		11	280	0.1 U	2 U	2.5 U
4/23/2019	XX	GW223BB62	0.25 U	0.65		170	32		12	281	0.11	2 U	2.5 U
7/16/2019	XX	GW223BBCD	0.25 U	0.7		180	42		13	282	0.13	2 U	2.5 U
10/29/2019	XX	GW223BBI6	0.25 U	0.63		180	39		15	285	0.15	2 U	2.5 U
4/28/2020	XX	GW223BCDD	0.35	0.75		180	38		16	288	0.15	2 U	2.5 U
7/21/2020	XX	GW223BCI6	0.25	0.21		180	38		14	326	0.22	2 U	2.5 U
10/27/2020	XX	GW223BD3A	0.25 U	0.65		190	38		14	283	0.15	47 M10	2.5 U
MW-227													
4/26/2011	XX	GW227X492	0.3 U			76	1.1		7.5	114		0.7 U	4 U
7/19/2011	XX	GW227X4D0	0.3 U			80	1		9.7	115		0.7 U	4 U
10/25/2011	XX	GW227X4GF	0.3 U			78	2.2		11.2	107		0.7 U	4 U
4/24/2012	XX	GW227X515	0.3 U			79	1.6		12	108		2 U	4 U
7/24/2012	XX	GW227X564	0.3 U			75	1 U		13.4	109		2 U	4 U
10/23/2012	XX	GW227X5CF	0.31			78	2.6		11.2	222		2 U	4 U
4/23/2013	XX	GW227X5H6	0.3 U			81	2.4		14.4	118	0.1 U	2 U	4 U
7/30/2013	XX	GW227X63B	0.635			77	2		11.5	103	0.1 U	2 U	4 U
7/30/2013	XD	GWDP3X644	0.59			77	2.1		12.9	104	0.1 U	2 U	4 U
10/29/2013	XX	GW227X664	0.5 U			79	2.5		11	114	0.1 U	2 U	4 U
4/22/2014	XX	GW227X6E7	0.5 U			84	2		17.3	111	0.1 U	2 U	4 U
4/22/2014	XD	GWDP3X6F0	0.5 U			84	2.1		17.3	110	0.1 U	2 U	4 U
7/29/2014	XX	GW227X6IE	0.5 U			84	1.3		5.7	107	0.1 U	2 U	4 U
7/29/2014	XD	GWDP3X6J7	0.5 U			78	1.2		5.7	109	0.1 U	2 U	4 U
10/21/2014	XX	GW227X724	0.5 U			81	1.4		10.2	116	0.16	2 U	4 U
4/28/2015	XX	GW227X782	0.5 U	0.5 U		81	2.2		13.3	110	0.1 U	2 U	4 U
4/28/2015	XD	GWDP3X78F	0.5	0.5 U		82	2.1		13.4	115	0.1 U	2 U	4 U
7/14/2015	XX	GW227X7BE	0.5 U	2 U		80	1.4		12.4	109	0.1 U	2 U	4 U
7/14/2015	XD	GWDP1X7BG	0.5 U	2 U		78	1.8		13.1	104	0.1 U	2 U	7
10/27/2015	XX	GW227X7H3	0.5 U	0.5 U		79	2.1		12	115	0.1 U	2 U	4 U
10/27/2015	XD	GWDP1X7H5	0.5 U	0.5 U		77	2.2		12.1	108	0.1 U	2 U	4 U
4/5/2016	XD	GWDP3X866	0.5 U	0.05 U		78	1.5		13.5	112	0.1 U	2 U	4 U
4/5/2016	XX	GW227X85D	0.5 U	0.05 U		79	1.6		13.4	105	0.1 U	2 U	4 U
7/26/2016	XD	GWDP3X8AG	0.5 U	0.05 U		79	2.1		12.4	108	0.2 U	2 U	4 U
7/26/2016	XX	GW227X8A3	0.5 U	0.05 U		80	2		12.5	114	0.2 U	2 U	4 U
10/25/2016	XD	GWDP3X8IF	0.7	0.05 U		79	1.77		11.5	123	0.2 U	2 U	4 U
10/25/2016	XX	GW227X8I2	0.5 U	0.05 U		79	1.8		11.6	129	0.2 U	2 U	4 U
4/18/2017	XD	GWDP3X971	0.5 U	0.05 U		84	1.4		12	108	0.2 U	2 U	6
4/18/2017	XX	GW227X968	0.5 U	0.05 U		84	1.3		12	110	0.2 U	2 U	4
7/25/2017	XD	GWDP3X9CJ	0.5 U	0.05 U		80	1.9		13	119	0.2 U	2 U	2.5 U
7/25/2017	XX	GW227X9C6	0.5 U	0.05 U		80	1.9		13	113	0.2 U	2 U	2.5 U
10/24/2017	XD	GWDP3X9GE	0.25 U	0.05 U		75	1.8		12	110	0.1 U	2 U	2.5 U
10/24/2017	XX	GW227X9G1	0.25 U	0.05 U		76	2		12	122	0.1 U	2 U	2.5 U
4/3/2018	XD	GWDP3XA2D	0.25 U	0.091		80	1.2		7.8	109	0.1 U	2 U	2.5 U

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(MW-227)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/3/2018	XX	GW227XA1J	0.25 U	0.11		81	1.4		7.7	109	0.1 U	2 U	3.7
7/17/2018	XD	GWDP3XABE	0.25 U	0.057		76	1.1		12	102	0.1 U	2 U	2.5 U
7/17/2018	XX	GW227XAB1	0.25 U	0.083		80	1.2		12	101	0.1 U	2 U	2.5 U
10/2/2018	XD	GWDP3XB0C	0.88	0.07		80	1.4		12	113	0.1 U	2 U	2.5 U
10/2/2018	XX	GW227XAJJ	0.26	0.05 U		79	1.6		12	115	0.1 U	2 U	2.5 U
4/23/2019	XD	GWDP3XB59	0.25 U	0.092		81	1.1		14	106	0.1 U	2 U	6.3
4/23/2019	XX	GW227XB4F	0.25 U	0.12		81	1.3		14	108	0.1 U	2 U	10
7/16/2019	XD	GWDP3XBC1	0.25 U	0.05 U		79	1.3		12	103	0.1 U	2 U	2.5 U
7/16/2019	XX	GW227XBB8	0.25 U	0.05 U		80	1.4		13	114	0.1 U	2 U	4.3
10/29/2019	XD	GWDP3XBHE	1.8	0.091		78	1.6		13	110	0.1 U	2 U	2.5 U
10/29/2019	XX	GW227XBH1	0.25 U	0.05 U		82	1.3		12	106	0.1 U	2 U	2.5 U
4/28/2020	XD	GWDP3XCD1	0.25 U	0.13		82	1.2		17	105	0.1 U	2 U	2.5 U
4/28/2020	XX	GW227XCC8	0.25 U	0.11		81	1.4		15	115	0.1 U	2 U	2.5 U
7/21/2020	XD	GWDP3XCHE	0.25 U	0.05 U		77	1.3		13	118	0.1 U	2 U	2.5 U
7/21/2020	XX	GW227XCH1	0.25 U	0.05 U		80	1.5		13	117	0.1	2 U	2.5 U
10/27/2020	XD	GWDP3XD2I	0.25 U	0.065		82	1.2		12	103	0.1 U	16 M10	2.5 U
10/27/2020	XX	GW227XD25	0.25 U	0.056		84	1.1		11	104	0.1 U	14 M10	2.5 U

MW-301

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/27/2011	XX	GW301X493	0.34			76	1.3		10.3	126		0.7 U	4 U
7/20/2011	XX	GW301X4D1	0.41			73	1.4		11.7	118		0.7 U	4 U
10/26/2011	XX	GW301X4GG	0.3 U			72	1.9		11.3	127		0.7 U	6
4/25/2012	XX	GW301X516	0.3 U			76	2.3		15	123		2 U	13
7/25/2012	XX	GW301X565	0.3 U			74	2.3		14.3	118		2 U	4 U
10/24/2012	XX	GW301X5CG	0.3 U			77	2.3		15.1	130		2 U	20
10/24/2012	XD	GWDP4X5DE	0.31			75	2.3		15.2	118		2 U	15
4/22/2013	XX	GW301X5H7	!			!	!		!	!	!	!	!
7/31/2013	XX	GW301X63C	0.543			76	2.3		14.6	136	0.1 U	2 U	11
10/30/2013	XX	GW301X665	0.5 U			76	3.1		11.9	130	0.1 U	2 U	4
10/30/2013	XD	GWDP1X666	0.5 U			75	3.1		14.5	129	0.1 U	2 U	4 U
4/23/2014	XX	GW301X6E8	0.5 U			76	3.9		15.4	119	0.1 U	2 U	9
7/30/2014	XX	GW301X6IF	0.5 U			78	3.7		13.4	129	0.1 U	2 U	4
10/22/2014	XX	GW301X725	0.5 U			79	3.6		14.2	118	0.1 U	2 U	4 U
10/22/2014	XD	GWDP1X726	0.5 U			79	3.5		14.2	120	0.1 U	2 U	4 U
4/29/2015	XX	GW301X783	0.5 U	0.5 U		78	5.7		17.2	117	0.1 U	2 U	4 U
7/15/2015	XX	GW301X7BF	0.5 U	2 U		80	6.4		17	128	0.1 U	2 U	4 U
10/27/2015	XX	GW301X7H4	0.5 U	0.5 U		73	8		16.9	129	0.1 U	2 U	4 U
10/27/2015	XD	GWDP4X7I2	0.5 U	0.5 U		76	8.3		16.6	131	0.1 U	2 U	4 U
4/27/2016	XX	GW301X85E	0.5 U	0.06		77	8.8		17.5	133	0.1 U	2 U	20
7/27/2016	XX	GW301X8A4	0.5 U	0.06		75	8.2		14.9	139	0.2 U	2 U	14
10/26/2016	XD	GWDP4X8J1	0.5 U	0.05 U		75	8.9		17.1	143	0.2 U	2 U	4 U
10/26/2016	XX	GW301X8I3	0.5 U	0.05 U		76	9.1		17.2	146	0.2 U	2 U	4 U
4/19/2017	XX	GW301X969	0.5 U	0.05 U		79	12		17	138	0.2 U	2 U	2.5 U
7/26/2017	XX	GW301X9C7	0.5 U	0.05 U		74	15		19	136	0.2 U	2 U	2.5 U
10/25/2017	XD	GWDP4X9H0	0.25 U	0.09		71	12		18	162	0.1 U	2 U	2.5 U
10/25/2017	XX	GW301X9G2	0.25 U	0.07		70	15		18	150	0.1 U	2 U	2.5 U
4/4/2018	XX	GW301XA20	0.25 U	0.1		78	12		10	138	0.1 U	2 U	2.5 U
7/18/2018	XX	GW301XAB2	0.25 U	0.092		76	20		15	145	0.1 U	2 U	6
10/1/2018	XD	GWDP4XB0I	0.25 U	0.051		77	14		16	144	0.1	2 U	2.5 U
10/1/2018	XX	GW301XB00	0.25 U	0.06		75	16		16	147	0.1	2 U	2.5 U

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
(MW-301)													
4/24/2019	XX	GW301XB4G	0.25 U	0.066		74	21		17	148	0.1	2 U	2.5 U
7/17/2019	XX	GW301XBB9	0.25 U	0.051		78	25		17	159	0.1 U	2 U	2.5 U
10/28/2019	XD	GWDP4XBI0	0.25 U	0.07		77	27		18	163	0.15	2 U	2.5 U
10/28/2019	XX	GW301XBH2	0.25 U	0.056		74	26		17	161	0.15	2 U	2.5 U
4/27/2020	XX	GW301XCC9	0.25 U	0.083		77	20		19	148	0.1 U	2 U	2.5 U
7/20/2020	XX	GW301XCH2	0.25 U	0.05 U		76	25		18	153	0.11	2 U	2.5 U
10/26/2020	XD	GWDP4XD34	0.25 U	0.05 U		76	21		16	151	0.1 U	8.5 M10	2.5 U
10/26/2020	XX	GW301XD26	0.25 U	0.05 U		76	20		17	147	0.1 U	6.8 M10	2.5 U
MW-302R													
4/25/2011	XX	GW302X4A8	0.3 U			44	51.2		8.9	196		0.7 U	4 U
7/18/2011	XX	GW302X4E6	0.3 U			58	61.5		13.3	239		0.7 J	4 U
10/24/2011	XX	GW302X4I1	0.3 U			80	49.3		15.8	236		0.7 J	4 U
4/23/2012	XX	GW302X52B	0.3 U			51	28.2		10.8	150		2 U	4 U
7/23/2012	XX	GW302X57A	0.3			57	52.4		21.1	223		2 U	4 U
10/22/2012	XX	GW302X5E1	0.64			78	66.1		28.8	287		2 U	4 U
4/22/2013	XX	GW302X5IC	0.3 U			46	24.5		11.7	120	0.1 U	2 U	4 U
7/29/2013	XX	GW302X64H	0.68			53	77.1		17.9	234	0.1 U	2 U	4 U
10/28/2013	XX	GW302X67A	0.5 U			57	55.8		16	199	0.1 U	2 U	4 U
4/21/2014	XX	GW302X6FD	0.5 U			61	91.3		17.6	202	0.1 U	2 U	4 U
7/28/2014	XX	GW302X6JJ	0.6			70	89.7		6	315	0.2 U	2 U	4 U
10/20/2014	XX	GW302X73A	0.5 U			105	63.1		32.2	300	0.11	2 U	4 U
4/27/2015	XX	GW302X797	0.5 U	0.5 U		52	46.4		14.7	175	0.1 U	2 U	4 U
7/13/2015	XX	GW302X7CJ	0.5 U	2 U		58	79.4		15.3	275	0.1 U	2 U	4 U
10/26/2015	XX	GW302X7I8	0.5 U	0.5 U		87	89.4		17.5	326	0.2 U	2 U	4 U
4/4/2016	XX	GW302X86I	0.6	0.06		59	42.1		13.4	186	0.1 U	2 U	4 U
7/25/2016	XX	GW302X8B8	1.2	0.05 U		59	35.8		12.7	187	0.2 U	2 U	4 U
10/24/2016	XX	GW302X8J7	0.5 U	0.12		238	32		23.4	357	0.2 U	2 U	4 U
4/17/2017	XX	GW302X97D	0.5 U	0.29		65	39		17	182	0.2 U	2 U	2.5 U
7/24/2017	XX	GW302X9DB	0.5 U	0.31		61	48		22	200	0.2 U	2 U	5 U
10/23/2017	XX	GW302X9H6	0.25 U	0.31		160	42		31	322	0.16	2 U	2.5 U
4/2/2018	XX	GW302XA35	0.25 U	0.28		47	31		12	159	0.1 U	2 U	2.5 U
7/16/2018	XX	GW302XAC6	0.25 U	0.43		68	39		24	180	0.1 U	2 U	2.5 U
10/1/2018	XX	GW302XB14	0.32	0.73		330	43		38	506	0.14	2 U	2.5 U
4/22/2019	XX	GW302XB61	0.25 U	0.15		46	18		14	118	0.1 U	2 U	2.5 U
7/17/2019	XX	GW302XBCC	0.3	0.39		50	51		26	212	0.1 U	2 U	2.5 U
10/28/2019	XX	GW302XBI5	0.25 U	0.5		61	44		31	199	0.16	2 U	2.5 U
4/27/2020	XX	GW302XCDC	0.25 U	0.22		43	44		27	196	0.1 U	2 U	2.5 U
7/20/2020	XX	GW302XCI5	0.25 U	0.1		62	47		25	205	0.2 U	2 U	2.5 U
10/26/2020	XX	GW302XD39	0.29	0.49		120	44		29	254	0.1 U	24 M10	2.5 U
MW-303													
4/25/2011	XX	GW303X4AC	0.3 U			96	6.8		1.9 J	139		0.7 U	4 U
7/18/2011	XX	GW303X4EA	0.34			101	5.8		0.9 J	135		0.8 J	4 U
7/18/2011	XD	GWDP4X4DJ	0.36			101	5.3		0.8 J	138		0.7 J	4 U
10/24/2011	XX	GW303X4I5	0.3 U			105	5.9		1.1 J	132		0.8 J	4 U
10/24/2011	XD	GWDP4X4HE	0.3 U			106	5.9		1.1 J	135		0.9 J	4 U
4/23/2012	XX	GW303X52F	0.3 U			113	7.5		2.1	162		2 U	5
7/24/2012	XX	GW303X57E	!			!	!		!	!		!	!
MW12-303R													

SEVEE & MAHER ENGINEERS, INC.
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(MW12-303R)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/23/2012	XX	GW303X5EG	0.3 U			92	4.9		4.2	143		2 U	4 U
4/22/2013	XX	GW303X5IG	0.3 U			114	6.6		7.6	159	0.22	2 U	4 U
7/29/2013	XX	GW303X651	0.673			113	8		4.2	195	0.3	2 U	4 U
10/28/2013	XX	GW303X67D	0.5 U			111	8.4		2.8	158	0.42	2 U	4 U
4/21/2014	XX	GW303X6FH	0.5 U			126	15.1		6.3	162	0.38	2 U	4 U
7/28/2014	XX	GW303X701	0.9			115	9.6		2 U	157	0.15	2 U	4 U
10/20/2014	XX	GW303X73D	0.5 U			162	48.3		5.5	266	0.21	2 U	4 U
4/27/2015	XX	GW303X799	0.5 U	0.5 U		87	57.2		9.5	533	0.1 U	4.3	4 U
6/18/2015	XX	42173-1	0.5 U	0.5 U	1 U	135	76.4		4.1	314		2 U	6
7/13/2015	XX	GW303X7D1	0.6	2 U		130	39.4		3	221	0.19	2 U	4 U
10/26/2015	XX	GW303X7IA	0.5 U	0.5 U		136	39.4		4	214	0.1 U	2 U	4
4/4/2016	XX	GW303X870	0.5 U	0.05 U		103	48.8		18.2	236	0.1 U	6.4	4 U
7/25/2016	XX	GW303X8BA	0.5 U	5.9		130	51.8		10.6	326	0.2 U	4.1	4 U
10/24/2016	XX	GW303X8J9	1	2.4		152	71.3		32.8	391	0.2 U	11.6	38
4/17/2017	XX	GW303X97F	0.5 U	2.2		120	57		23	284	0.2 U	5.5	2.5 U
7/24/2017	XX	GW303X9DD	0.5 U	0.28		120	52		8.7	250	0.2 U	3.7	5 U
10/23/2017	XX	GW303X9H8	0.73	0.13		120	44		5.3	244	0.17	3.5	130
4/2/2018	XX	GW303XA37	0.63	1.5		42	220		430	1016	0.5 U	5.2	2.5
7/16/2018	XX	GW303XAC8	0.25 U	0.074		140	57		14	289	0.1 U	2 U	2.5 U
10/1/2018	XX	GW303XB16	0.34	0.072		120	45		5.7	265	0.1 U	2 U	37
4/22/2019	XX	GW303XB63	2	1		120	27		56	353	2.4	16	12
7/17/2019	XX	GW303XBCE	0.71	0.72		130	40		33	297	0.62	7.8	2.5 U
10/28/2019	XX	GW303XBI7	0.9	1.7		120	15		45	268	0.27	11	2.5 U
4/27/2020	XX	GW303XCDE	0.25 U	0.58		77	42		22	297	0.1 U	4.4	4.7
7/20/2020	XX	GW303XCI7	0.25 U	0.17		90	29		5.1	176	0.2 U	2 U	2.5 U
10/26/2020	XX	GW303XD3B	0.8	12		72	77		29	372	0.1 U	34 M10	2.5 U
MW-401A													
4/25/2011	XX	GW401A49H	0.3 U			58	1.1		2.1	83		0.7 U	4 U
7/18/2011	XX	GW401A4DF	0.3 U			56	1.3		2.4	89		0.7 U	4 U
10/24/2011	XX	GW401A4HA	0.3 U			58	2		2.7	76		0.7 U	4 U
4/23/2012	XX	GW401A520	0.3 U			56	1.9		4.4	89		2 U	4 U
7/23/2012	XX	GW401A56J	0.36			57	1.2		4.2	97		2 U	4 U
10/22/2012	XX	GW401A5DA	1.1			55	1.2		2 U	94		2 U	4 U
4/22/2013	XX	GW401A5I1	0.3 U			58	2.4		4.9	85	0.1 U	2 U	4 U
7/29/2013	XX	GW401A646	0.572			57	2.2		4.3	86	0.1 U	2 U	4 U
10/28/2013	XX	GW401A66J	0.5 U			57	2.8		4.3	87	0.1 U	2 U	4 U
4/21/2014	XX	GW401A6F2	0.5 U			62	2.9		4.8	81	0.1 U	2 U	4 U
7/28/2014	XX	GW401A6J9	0.5 U			61	1.5		2	89	0.1 U	2 U	4 U
10/20/2014	XX	GW401A730	0.5 U			62	1.8		3.3	83	0.1 U	2 U	4 U
4/27/2015	XX	GW401A78H	0.6	0.5 U		60	3.8		4.1	89	0.1 U	2 U	4 U
7/13/2015	XX	GW401A7C9	0.5 U	1 U		59	4.1		3.7	99	0.1 U	2 U	4 U
10/26/2015	XX	GW401A7HI	0.5 U	0.5 U		59	2.7		4.1	87	0.1 U	2 U	4 U
4/27/2016	XX	GW401A868	0.5 U	0.1		59	2.4		4.2	91	0.1 U	2 U	4 U
7/25/2016	XX	GW401A8AI	0.5 U	0.05 U		63	2.2		3.8	90	0.2 U	2 U	4 U
10/24/2016	XX	GW401A8IH	0.5 U	0.1		58	2.2		4	98	0.2 U	2 U	4 U
4/17/2017	XX	GW401A973	0.5 U	0.05		62	2.3		3.7	95	0.2 U	2 U	2.5 U
7/24/2017	XX	GW401A9D1	0.5 U	0.1		63	2.7		4.7	89	0.2 U	2 U	7
10/25/2017	XX	GW401A9GG	0.25 U	0.11		57	2.2		4.4	112	0.1 U	2 U	2.5 U
4/2/2018	XX	GW401AA2F	0.25 U	0.14		58	2.1		2.8	85	0.1 U	2 U	2.5 U

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(MW-401A)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/16/2018	XX	GW401AABG	0.25 U	0.14		60	3.1		4.7	89	0.1 U	2 U	2.5 U
10/1/2018	XX	GW401AB0E	0.25 U	0.083		61	2.8		4	91	0.1 U	2 U	2.5 U
4/22/2019	XX	GW401AB5B	0.25 U	0.1		61	3.4		4.5	91	0.1 U	2 U	2.5 U
7/15/2019	XX	GW401ABC3	0.25 U	0.1		62	3.8		4.3	92	0.1 U	2 U	2.5 U
10/28/2019	XX	GW401ABHG	0.25 U	0.12		61	4.9		5	98	0.1 U	2 U	2.5 U
4/27/2020	XX	GW401ACD3	0.25 U	0.16		63	4.8		5	106	0.1 U	2 U	2.5 U
7/20/2020	XX	GW401ACHG	0.25 U	0.05 U		61	5.3		4.9	97	0.1 U	2 U	2.5 U
10/26/2020	XX	GW401AD30	0.25 U	0.084		62	4.6		4	92	0.1 U	5 M10	2.5 U

MW-401B

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/25/2011	XX	GW401B49I	0.3 U			116	7.1		8	165		0.7 U	4 U
4/25/2011	XD	GWDP4X4A1	0.3 U			119	6.8		7.8	164		0.7 U	4 U
7/18/2011	XX	GW401B4DG	0.45			126	11.9		10.6	184		0.7 J	4 U
7/18/2011	XD	GWDP1X4D2	0.3 U			122	11.3		10.3	188		0.7 J	4 U
10/24/2011	XX	GW401B4HB	0.3 U			131	10.5		9.1	183		1.1 J	4 U
4/23/2012	XX	GW401B521	0.3 U			117	9.4		11	173		2 U	4 U
4/23/2012	XD	GWDP4X524	0.3 U			116	9.8		11	177		2 U	4 U
7/23/2012	XX	GW401B570	0.3 U			117	12		13.4	181		2 U	4 U
7/23/2012	XD	GWDP1X566	0.3 U			116	10.7		12.5	172		2 U	4 U
10/22/2012	XX	GW401B5DB	0.94			133	8.3		9.8	201		2 U	4 U
4/22/2013	XX	GW401B5I2	0.3 U			122	12.5		13.2	172	0.1	2 U	4 U
4/22/2013	XD	GWDP4X5I5	0.3 U			121	12.5		13	186	0.13	2 U	4 U
7/29/2013	XX	GW401B647	0.528			108	13		11.4	156	0.1 U	2 U	4 U
7/29/2013	XD	GWDP1X63D	0.512			116	16.6		12.8	175	0.1 U	2 U	4 U
10/28/2013	XX	GW401B670	0.5 U			139	16.3		13	212	0.22	2 U	4 U
10/28/2013	XD	GWDP4X673	0.5 U			138	15.8		13	206	0.21	2 U	4 U
4/21/2014	XX	GW401B6F3	0.5 U			135	16.2		13.7	170	0.21	2 U	4 U
4/21/2014	XD	GWDP4X6F6	0.5 U			128	15.1		13.7	160	0.23	2 U	4 U
7/28/2014	XX	GW401B6JA	0.7			139	12.5		5.3	198	0.15	2 U	4 U
7/28/2014	XD	GWDP4X6JD	0.5 U			141	12		5.3	195	0.16	2 U	4 U
10/20/2014	XX	GW401B731	0.5 U			156	11.5		9.6	212	0.2	8.9	4 U
10/20/2014	XD	GWDP4X734	0.5 U			163	11.5		9.6	217	0.2	2 U	4 U
4/27/2015	XX	GW401B78I	0.5 U	0.5 U		126	11.3		10.9	177	0.18	2 U	4 U
4/27/2015	XD	GWDP4X791	0.5 U	0.5 U		123	11		11.3	170	0.18	2 U	4 U
7/13/2015	XX	GW401B7CA	0.5 U	1 U		146	13		10.7	205	0.16	2 U	4 U
7/13/2015	XD	GWDP4X7CD	0.5 U	2 U		144	11.7		10.3	208	0.25	2 U	4 U
10/26/2015	XX	GW401B7HJ	0.5 U	0.5 U		158	13.6		11.9	211	0.1 U	2 U	4 U
10/26/2015	XD	GWDP3X7HG	0.5 U	0.5 U		155	13.7		11.8	219	0.1 U	2 U	4 U
4/6/2016	XD	GWDP4X86C	0.5 U	0.05 U		124	11.5		11.7	177	0.1 U	2 U	4 U
4/6/2016	XX	GW401B869	0.5 U	0.05 U		127	11.8		11.8	185	0.1 U	2 U	4 U
7/25/2016	XX	GW401B8AJ	0.5 U	0.05 U		157	13.1		10.4	225	0.2	2 U	4 U
10/24/2016	XD	GWDP1X8I4	0.5 U	0.05 U		163	8.5		12.2	214	0.2	2 U	4 U
10/24/2016	XX	GW401B8II	1	0.05 U		158	8.9		12.5	213	0.2	2 U	4 U
4/17/2017	XD	GWDP4X977	0.5 U	0.05 U		130	9.5		11	183	0.2 U	2 U	7
4/17/2017	XX	GW401B974	0.5 U	0.05 U		140	9.4		11	196	0.2 U	2 U	5
7/24/2017	XX	GW401B9D2	0.5 U	0.05 U		150	12		12	180	0.2 U	2 U	5 U
10/25/2017	XD	GWDP1X9G3	0.25 U	0.07		150	6.9		13	235	0.19	2 U	2.5 U
10/25/2017	XX	GW401B9GH	0.25 U	0.05 U		150	6.5		13	226	0.21	2 U	2.5 U
4/2/2018	XD	GWDP4XA2J	0.25 U	0.092		150	5.5		6	192	0.16	2 U	2.5 U
4/2/2018	XX	GW401BA2G	0.25 U	0.069		130	6.4		5.9	176	0.14	2 U	2.5 U

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(MW-401B)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/16/2018	XX	GW401BABH	0.25 U	0.057		150	11		12	198	0.14	2 U	2.5 U
10/1/2018	XD	GWDP1XB01	0.25 U	0.058		160	6.2		11	214	0.19	2 U	2.5 U
10/1/2018	XX	GW401BB0F	0.25 U	0.05 U		160	6.3		11	213	0.2	2 U	2.7
4/22/2019	XD	GWDP4XB5F	0.25 U	0.05 U		120	6.9		12	156	0.16	2 U	2.5 U
4/22/2019	XX	GW401BB5C	0.25 U	0.05 U		120	6.4		12	166	0.14	2 U	2.5 U
7/15/2019	XD	GWDP4XBC7	0.25 U	0.05 U		140	8.7		11	175	0.17	2 U	2.7
7/15/2019	XX	GW401BBC4	0.25 U	0.21		130	9.1		11	167	0.15	2 U	2.5 U
10/28/2019	XD	GWDP1XBH3	0.25 U	0.06		150	10		13	208	0.2	2 U	2.5
10/28/2019	XX	GW401BBHH	0.25 U	0.067		150	10		14	208	0.23	2 U	2.5 U
4/27/2020	XD	GWDP4XCD7	0.25 U	0.05 U		110	9		13	162	0.14	2 U	2.5 U
4/27/2020	XX	GW401BCD4	0.25 U	0.091		120	9.4		13	166	0.15	2 U	2.5 U
7/20/2020	XD	GWDP4XCI0	0.25 U	0.05 U		160	8.5		12	188	0.24	2 U	2.5 U
7/20/2020	XX	GW401BCHH	0.25 U	0.05 U		160	8.4		13	196	0.21	2 U	2.5 U
10/26/2020	XD	GWDP1XD27	0.25 U	0.05 U		160	6.9		11	208	0.19	32 M10	2.5 U
10/26/2020	XX	GW401BD31	0.25 U	0.051		160	7.2		11	211	0.19	23 M10	2.5 U

MW-402A

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/27/2011	XX	GW402A49J	0.3 U			52	1.2		4.1	78		0.7 U	4 U
7/20/2011	XX	GW402A4DH	0.54			51	1.6		4.2	80		0.7 U	4 U
10/26/2011	XX	GW402A4HC	0.3 U			54	0.8 J		4.4	86		0.7 U	4 U
4/24/2012	XX	GW402A522	0.3 U			52	2		7	70		2 U	4 U
7/25/2012	XX	GW402A571	0.3 U			52	1.6		6.4	80		2 U	4 U
10/24/2012	XX	GW402A5DC	0.31			51	2.3		7.3	83		2 U	4 U
4/22/2013	XX	GW402A5I3	0.3 U			51	2.5		9.3	99	0.1 U	2 U	4 U
7/31/2013	XX	GW402A648	0.3 U			53	1.3		7	81	0.1 U	2 U	4 U
10/30/2013	XX	GW402A671	0.5 U			51	1.8		7.2	89	0.1 U	2 U	4 U
4/23/2014	XX	GW402A6F4	0.5 U			56	1.7		8.1	76	0.1 U	2 U	4 U
7/30/2014	XX	GW402A6JB	0.5 U			52	1.5		6.9	87	0.1 U	2 U	4 U
10/22/2014	XX	GW402A732	0.5 U			58	1.4		7	76	0.1 U	2 U	4 U
4/29/2015	XX	GW402A78J	0.5 U	0.5 U		57	2.1		9.1	79	0.1 U	2 U	4 U
7/15/2015	XX	GW402A7CB	0.5 U	2 U		56	1.5		8.4	91	0.1 U	2 U	4 U
10/28/2015	XX	GW402A7I0	0.5 U	0.5 U		54	2.2		8.8	91	0.1 U	2 U	4 U
4/27/2016	XX	GW402A86A	0.5 U	0.06		57	2.1		8.8	86	0.1 U	2 U	4 U
7/27/2016	XX	GW402A8B0	0.5 U	0.05		55	1.6		7.8	86	0.2 U	2 U	4 U
10/26/2016	XX	GW402A8IJ	0.5 U	0.05		53	1.8		8.8	95	0.2 U	2 U	4 U
4/19/2017	XX	GW402A975	0.5 U	0.05 U		56	1.4		6.3	94	0.2 U	2 U	2.5 U
7/26/2017	XX	GW402A9D3	0.5 U	0.05 U		54	1.9		9.6	78	0.2 U	2 U	2.5 U
10/26/2017	XX	GW402A9GI	0.25 U	0.1		51	1.6		9.5	100	0.1 U	2 U	2.5 U
4/4/2018	XX	GW402AA2H	0.5 U	0.11		59	1.6		6.1	90	0.1 U	2 U	2.5 U
7/18/2018	XX	GW402AABI	0.27	0.065		54	1.4		8.4	81	0.1 U	2 U	2.5 U
10/3/2018	XX	GW402AB0G	0.25 U	0.059		54	1.7		8.8	95	0.1 U	2 U	2.5 U
4/24/2019	XX	GW402AB5D	0.25 U	0.06		55	1.5		9.2	87	0.1 U	2 U	2.5 U
7/17/2019	XX	GW402ABC5	0.25 U	0.064		55	1.4		8.8	90	0.1 U	2 U	2.5 U
10/30/2019	XX	GW402ABHI	0.25 U	0.062		57	1.7		11	83	0.1 U	2 U	2.5 U
4/29/2020	XX	GW402ACD5	0.25 U	0.085		56	1.7		9.6	76	0.1 U	2 U	2.5 U
7/22/2020	XX	GW402ACHI	0.25 U	0.051		57	1.8		9.3	80	0.1 U	2 U	2.5 U
10/28/2020	XX	GW402AD32	0.25 U	0.057		55	1.4		8.3	75	0.1 U	4.8 M10	2.5 U

MW-402B

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/27/2011	XX	GW402B4A0	0.3 U			68	1.1		6.6	92		0.7 U	4 U

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
(MW-402B)													
7/20/2011	XX	GW402B4DI	0.61			65	1.2		6.6	92		0.7 U	4 U
10/26/2011	XX	GW402B4HD	0.3 U			69	1.1		6.3	100		0.7 U	4 U
4/24/2012	XX	GW402B523	0.3 U			64	2.2		9	88		2 U	4 U
7/25/2012	XX	GW402B572	0.3 U			68	1.9		9.9	91		2 U	4 U
10/24/2012	XX	GW402B5DD	0.3 U			65	2.5		9.5	97		2 U	4 U
4/22/2013	XX	GW402B5I4	0.3 U			60	2.5		9	100	0.1 U	2 U	4 U
7/31/2013	XX	GW402B649	0.3 U			68	1.4		8.6	92	0.1 U	2 U	4 U
10/30/2013	XX	GW402B672	0.5 U			67	1.9		8.4	102	0.1 U	2 U	4 U
4/23/2014	XX	GW402B6F5	0.5 U			68	1.9		9	81	0.1 U	2 U	4 U
7/30/2014	XX	GW402B6JC	0.5 U			66	1.6		8.1	100	0.1 U	2 U	4 U
10/22/2014	XX	GW402B733	0.5 U			71	1.6		8.2	89	0.1 U	2 U	4 U
4/29/2015	XX	GW402B790	0.5 U	0.5 U		68	2		10.1	92	0.1 U	2 U	4 U
7/15/2015	XX	GW402B7CC	0.5 U	2 U		67	1.9		9.6	98	0.1 U	2 U	4 U
10/28/2015	XX	GW402B7I1	0.5 U	0.5 U		67	2.4		9.9	95	0.1 U	2 U	4 U
4/27/2016	XX	GW402B86B	0.5 U	0.05 U		68	2.1		9.8	94	0.1 U	2 U	4 U
7/27/2016	XX	GW402B8B1	0.5 U	0.05 U		66	1.7		8.8	94	0.2 U	2 U	4 U
10/26/2016	XX	GW402B8J0	0.5 U	0.05 U		66	2		9.8	105	0.2 U	2 U	8
4/19/2017	XX	GW402B976	0.5 U	0.06		68	1.6		6.5	96	0.2 U	2 U	2.5 U
7/26/2017	XX	GW402B9D4	0.5 U	0.05 U		67	2		11	88	0.2 U	2 U	2.5 U
10/26/2017	XX	GW402B9GJ	0.25 U	0.05		64	1.7		10	113	0.1 U	2 U	2.5 U
4/4/2018	XX	GW402BA2I	0.25 U	0.091		69	1.5		6.2	104	0.1 U	2 U	8
7/18/2018	XX	GW402BABJ	0.36	0.05 U		69	1.8		9.3	91	0.1 U	2 U	9.3
10/3/2018	XX	GW402BB0H	0.25 U	0.05 U		66	1.8		9.9	106	0.1 U	2 U	2.5 U
4/24/2019	XX	GW402BB5E	0.25 U	0.05 U		65	1.5		9.8	88	0.1 U	2 U	2.5 U
7/17/2019	XX	GW402BBC6	0.25 U	0.05 U		67	1.3		9.7	93	0.1 U	2 U	2.5 U
10/30/2019	XX	GW402BBHJ	0.25 U	0.05 U		69	18		2.6	88	0.11	2 U	2.5 U
4/29/2020	XX	GW402BCD6	0.25 U	0.059		68	1.4		11	79	0.1 U	2 U	2.5 U
7/22/2020	XX	GW402BCHJ	0.39	0.071		67	1.5		10	81	0.1 U	2 U	3.3
10/28/2020	XX	GW402BD33	0.25 U	0.05 U		72	1.2		9.3	85	0.1 U	6.1 M10	2.5 U
MW-501													
4/5/2018	XX	GW501XA6I	0.25 U	0.25	2 U		8.3	0.04 U	9.8	130	0.1 U	2 U	2.5 U
6/4/2018	XX	GW501XA7F	0.25 U	0.18	1 U		10	0.04 U	2.9	131	0.1 U	2 U	2.5 U
7/19/2018	XX	GW501XAED	0.33	0.24	1 U		10		2.5	151	0.1 U	2 U	2.5 U
8/20/2018	XX	GW501XAFE	0.25 U	0.21			11		2.8	157	0.1 U	2 U	2.5 U
4/24/2019	XX	GW501XB7C	0.25 U	0.43		140	10		2.9	190	0.12	2 U	2.5 U
7/17/2019	XX	GW501XBE0	0.25 U	0.25		75	9		2.5	117	0.1 U	6.4	2.5 U
10/30/2019	XX	GW501XBJ9	0.25 U	0.57		170	2.4		47	247	0.1 U	2 U	2.5 U
4/29/2020	XX	GW501XCF0	0.25 U	0.21		72	12		3	105	0.1 U	2 U	2.5 U
7/22/2020	XX	GW501XCJD	0.25 U	0.077		130	24		3	214	0.1	2 U	2.5 U
10/28/2020	XX	GW501XD4D	0.25 U	0.29		150	23		2.9	208	0.1 U	22 M10	2.5 U
MW09-901													
4/26/2011	XX	GW901X49G	0.3 U			90	1.3		8.4	126		0.7 U	4 U
7/19/2011	XX	GW901X4DE	0.3 U			86	1.3		8.3	125		0.7 U	4 U
10/25/2011	XX	GW901X4H9	0.3 U			87	1.2		7	109		1.2 J	4 U
4/24/2012	XX	GW901X51J	0.3 U			75	2.2		8.3	103		2 U	4 U
7/24/2012	XX	GW901X56I	0.3 U			77	1 U		9.5	108		2 U	4 U
10/23/2012	XX	GW901X5D9	0.3 U			82	2.5		9	118		2 U	4 U
4/23/2013	XX	GW901X5I0	0.3 U			81	2.5		10.8	116	0.1 U	2 U	4 U

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(MW09-901)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/30/2013	XX	GW901X645	0.52			80	2		10.7	110	0.1 U	2 U	4 U
10/29/2013	XX	GW901X66I	0.5 U			85	2.7		9.2	116	0.1 U	2 U	4 U
4/22/2014	XX	GW901X6F1	0.5 U			83	2.7		12.1	110	0.1 U	2 U	4 U
7/29/2014	XX	GW901X6J8	0.5 U			96	1.8		4.6	128	0.1 U	2 U	4 U
10/21/2014	XX	GW901X72J	0.5 U			132	3		8.1	170	0.1 U	2 U	4 U
4/28/2015	XX	GW901X78G	0.5 U	0.5 U		142	4.6		11	175	0.1 U	2 U	4 U
7/14/2015	XX	GW901X7C8	0.5	2 U		141	4.4		11.2	178	0.1 U	2 U	4 U
10/27/2015	XX	GW901X7HH	0.6	0.5 U		154	5.8		10.9	198	0.1 U	2 U	4 U
4/5/2016	XD	GWDP1X85F	0.5 U	0.13		154	5.2		12.4	194	0.1 U	2 U	4 U
4/5/2016	XX	GW901X867	0.5 U	0.06		155	5.4		12.3	188	0.1 U	2 U	4 U
7/26/2016	XD	GWDP1X8A5	0.5 U	0.05 U		158	6.2		12.1	205	1.2	2 U	4 U
7/26/2016	XX	GW901X8AH	1.5	0.05 U		157	6.1		12.4	203	0.2 U	2 U	4 U
10/25/2016	XX	GW901X8IG	0.5 U	0.11		159	5.9		9.9	224	0.2	2 U	4 U
4/18/2017	XD	GWDP1X96A	0.5 U	0.29		170	6		10	197	0.2 U	2 U	2.5 U
4/18/2017	XX	GW901X972	0.5 U	0.29		170	6.1		11	206	0.2 U	2 U	2.5 U
7/25/2017	XD	GWDP1X9C8	0.5 U	0.35		170	6.8		14	224	0.2 U	2 U	2.5 U
7/25/2017	XX	GW901X9D0	0.5 U	0.4		160	6.8		14	230	0.2 U	2 U	2.5 U
10/24/2017	XX	GW901X9GF	0.25 U	0.23		170	9.5		13	234	0.1 U	2 U	2.5 U
4/3/2018	XD	GWDP1XA21	0.25 U	0.61		170	7.4		45	220	0.16	2 U	2.5 U
4/3/2018	XX	GW901XA2E	0.34	0.6		170	7.4		47	235	0.15	2 U	2.5 U
7/17/2018	XD	GWDP1XAB3	0.25 U	0.76		170	13		13	234	0.12	2 U	2.5 U
7/17/2018	XX	GW901XABF	0.36	0.75		180	14		14	231	0.13	2 U	2.5 U*
10/2/2018	XX	GW901XB0D	0.25 U	0.37		170	10		13	234	0.17	2 U	2.5 U
4/23/2019	XD	GWDP1XB4H	0.3	0.18		170	4.7		11	217	0.32	2 U	2.5 U
4/23/2019	XX	GW901XB5A	0.25 U	0.2		170	4.8		11	217	0.26	2 U	2.5 U
7/16/2019	XD	GWDP1XBBA	0.25 U	0.24		180	8.7		12	236	0.22	2 U	2.5 U
7/16/2019	XX	GW901XBC2	0.25 U	0.22		180	8.6		12	227	0.23	2 U	2.5 U
10/29/2019	XX	GW901XBHF	0.25 U	0.05 U		160	5.1		13	209	0.27	2 U	2.5 U
4/28/2020	XD	GWDP1XCCA	0.25 U	0.1		170	5.9		14	220	0.32	2 U	2.5 U
4/28/2020	XX	GW901XCD2	0.25 U	0.11		170	6		14	216	0.32	2 U	2.5 U
7/21/2020	XD	GWDP1XCH3	0.25 U	0.073		170	4.2		12	216	0.32	2 U	2.5 U
7/21/2020	XX	GW901XCHF	0.25 U	0.05 U		170	4.4		13	219	0.29	2 U	2.5 U
10/27/2020	XX	GW901XD2J	0.25 U	0.05 U		160	3.3		12	194	0.15	39 M10	2.5 U

OW-06-03

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/10/2018	XX	GWXXXXA73	0.25 U	0.1	4		1.6	0.04 U	2.1	84	0.58	2	2.5 U
6/5/2018	XX	GWXXXXA80	I	I	I		I	I	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI	I	I	I		I		I	I	I	I	I
8/21/2018	XX	GWXXXXAFH	I	I			I		I	I	I	I	I
7/18/2019	XX	GWXXXXBDJ	I	I		I	I		I	I	I	I	I
7/20/2020	XX	GWXXXXCJC	I	I		I	I		I	I	I	I	I

OW-601A

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/11/2018	XX	GW601AA69	0.25 U	0.3	1 U		16	0.22	2.1	180	0.17	2 U	7100
6/6/2018	XX	GW601AA76	0.25 U	0.18	1 U		24	0.1	6.1	198	0.13	2 U	230
7/19/2018	XX	GW601AAE4	0.3	0.3	1 U		18		6.8	209	1.1	2 U	13
8/22/2018	XX	GW601AAF5	0.25 U	0.19			27		7	212	0.15	2 U	2.5 U
7/18/2019	XX	GW601ABB6	0.86	0.33		140	26		11	234	0.18	2 U	2.5 U
7/22/2020	XX	GW601ACGJ	0.25 U	0.45		150	20		25	225	0.13	2 U	57

OW-601B

(OW-601B)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/11/2018	XX	GW601BA6A	0.25 U	0.42	1 U		22	0.04 U	2 U	184	0.21	2 U	5.7
6/6/2018	XX	GW601BA77	0.25 U	0.25	1 U		31	0.04 U	2.6	196	0.16	2 U	6.5
7/19/2018	XX	GW601BAE5	0.25 U	0.58	1 U		41		3	224	0.21	2 U	2.5 U
8/22/2018	XX	GW601BAF6	0.25 U	0.49			61		10 U	277	0.5 U	2 U	16
7/18/2019	XX	GW601BBDF	0.25 U	0.51		120	26		3.1	213	0.2	2 U	3.3
7/22/2020	XX	GW601BCJ8	0.25 U	0.23		92	44		4 U	263	0.24	2 U	2.5 U

OW-602A

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/11/2018	XX	GW602AA6B	0.25 U	0.05 U	1 U		2.3	0.04 U	3.9	59	0.1 U	2 U	2.5 U
6/6/2018	XD	GWDP1XA75	0.25 U	0.56	1 U		11	0.04 U	4.4	102	0.1 U	2 U	2.5 U
6/6/2018	XX	GW602AA78	0.25 U	0.13	1 U		12	0.04 U	4.6	93	0.1 U	2 U	2.5 U
7/19/2018	XD	GWDP1XAE3	0.25 U	0.19	1 U		13		4.6	92	0.1 U	2 U	2.5 U
7/19/2018	XX	GW602AAE6	0.3	0.15	1 U		13		4.5	97	0.1 U	2 U	2.5 U
8/21/2018	XX	GW602AAF7	0.25 U	0.094			12		4.5	100	0.1 U	2 U	2.5 U
7/18/2019	XX	GW602ABDG	0.72	0.26		43	5.6		2.8	77	0.1 U	2 U	2.5 U
7/22/2020	XX	GW602ACJ9	0.25 U	0.064		56	11		2.9	108	0.1 U	2 U	2.5 U

OW-603B

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/12/2018	XX	GW603BA6C	0.34	0.081	3		2.1	0.04 U	2.2	161	1.1	4	7
6/5/2018	XX	GW603BA79	0.25 U	0.054	1 U		1.2	0.04 U	2.1	136	0.27	2 U	2.5 U
7/19/2018	XX	GW603BAE7	1.2	0.11	2		1.7		2.4	103	0.1 U	2 U	1500
8/21/2018	XX	GW603BAF8	0.25 U	0.099			2.5		2.4	99	0.1 U	2 U	28
7/18/2019	XX	GW603BBDH	11	0.28		60	2		2.9	99	0.1 U	2 U	2.5 U
7/22/2020	XX	GW603BCJA	I	I		I	I		I	I	I	I	I

OW-604A

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/12/2018	XX	GW604AA6D	0.25 U	0.46	1 U		1.1	0.04 U	3.5	62	0.1 U	2 U	2.5 U
6/4/2018	XX	GW604AA7A	0.25 U	0.18	1 U		1.7	0.04 U	2.5	63	0.1 U	2 U	2.5 U
7/19/2018	XX	GW604AAE8	0.28	0.16	1 U		1.9		2.7	74	0.1 U	2 U	2.5 U
8/21/2018	XX	GW604AAF9	0.25 U	0.24			1.8		2.6	101	0.1 U	2 U	2.5 U
7/18/2019	XX	GW604ABDI	0.62	0.57		53	1.5		2.8	87	0.1 U	2 U	2.5 U
7/21/2020	XX	GW604ACJB	0.25 U	0.78		69	4.7		3.3	116	0.1	2 U	2.5 U

P-04-02

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/27/2011	XX	GWXXXX4AE	0.3 U			90	1.1		8.9	129		0.7 U	4 U
7/20/2011	XX	GWXXXX4EC	0.38			93	1.1		12.2	138		0.7 U	4 U
10/26/2011	XX	GWXXXX4I7	!			!	!		!	!		!	!
4/25/2012	XX	GWXXXX52H	0.6			63	8.8		11.3	211		11.9	11
7/25/2012	XX	GWXXXX57G	0.35			94	7.8		25.2	205		5.2	9
10/24/2012	XX	GWXXXX5E7	0.62			85	4.9		25.1	198		5.7	13
4/22/2013	XX	GWXXXX5II	!			!	!		!	!	!	!	!

P-04-02R

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/15/2015	XX	GWXXXX7DJ	0.5 U	2 U		82	15.4		32.4	188	0.1 U	2 U	26
10/28/2015	XX	GWXXXX7J4	0.5 U	0.5 U		106	42.5		147	442	0.1 U	2 U	5
4/6/2016	XX	GWXXXX87I	0.5	0.05 U		112	15.4		114	325	0.1 U	2 U	4 U
7/27/2016	XX	GWXXXX8C7	0.5 U	0.05		129	15.8		158	456	0.4 U	2 U	4 U
10/26/2016	XX	GWXXXX904	0.5	0.05 U		121	13		146	394	0.4 U	32.5	4 U
4/19/2017	XX	GWXXXX98C	0.5 U	0.05		150	9.6		120	412	0.2 U	2 U	10
7/26/2017	XX	GWXXXX9E8	0.5 U	0.06		140	7.4		120	357	0.2 U	2 U	2.5 U
10/25/2017	XX	GWXXXX9I3	0.25 U	0.08		120	5		110	331	0.1 U	2 U	2.5 U

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(P-04-02R)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/4/2018	XX	GWXXXXA44	0.25 U	0.14		140	3		45	281	0.1 U	2 U	3.3
7/18/2018	XX	GWXXXXAD3	0.25 U	0.15		140	4		70	267	0.1 U	2 U	2.5 U
10/3/2018	XX	GWXXXXB21	0.25 U	0.094		130	3		69	254	0.1 U	2 U	2.5 U
4/22/2019	XX	GWXXXXB70	0.25 U	0.088		130	1.9		57	233	0.1 U	2 U	2.5 U
7/17/2019	XX	GWXXXXBDA	0.25 U	0.097		150	2.4		57	260	0.1 U	2 U	2.5 U
10/30/2019	XX	GWXXXXBJ2	0.25 U	0.1		140	6.2		9	215	0.1 U	2 U	2.5 U
4/29/2020	XX	GWXXXXCEA	0.25 U	0.092		170	2.8		45	236	0.1 U	2 U	2.5 U
7/22/2020	XX	GWXXXXCJ3	0.25 U	0.05 U		150	2.1		39	213	0.1 U	2 U	2.5 U
10/28/2020	XX	GWXXXXD46	0.25 U	0.05 U		140	1.7		34	195	0.1 U	15 M10	2.5 U

P-04-04

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/27/2011	XX	GWXXXX4AF	0.3 U			80	1		5.5	104		0.7 U	4 U
7/20/2011	XX	GWXXXX4ED	0.36			76	1.1		9	112		0.7 U	4 U
10/26/2011	XX	GWXXXX4I8	0.7			78	1.8		6.8	122		0.8 J	4 U
4/25/2012	XX	GWXXXX52I	0.3 U			75	1.8		8.5	114		2 U	4 U
7/25/2012	XX	GWXXXX57H	0.3 U			76	1.8		28.8	95		2 U	4 U
10/24/2012	XX	GWXXXX5E8	0.3 U			78	2		8.1	111		2 U	4 U
4/24/2013	XX	GWXXXX5IJ	0.479			80	1.3		9.2	115	0.1 U	2 U	4 U
7/31/2013	XX	GWXXXX654	0.613			76	1.4		7.8	100	0.1 U	2 U	4 U
10/30/2013	XX	GWXXXX67E	0.5 U			76	1.8		7.7	115	0.1 U	2 U	4 U
4/23/2014	XX	GWXXXX6G0	0.5 U			79	1.8		8.2	112	0.1 U	2 U	4 U
7/30/2014	XX	GWXXXX703	0.5 U			78	1.5		7.2	113	0.1 U	2 U	4 U
10/22/2014	XX	GWXXXX73E	0.5 U			80	1.5		7.4	102	0.1 U	2 U	4 U
4/29/2015	XX	GWXXXX79B	0.5 U	0.5 U		79	2		9.2	105	0.1 U	2 U	4 U
7/15/2015	XX	GWXXXX7D3	0.5 U	2 U		78	2.1		8.9	108	0.1 U	2 U	4 U
10/28/2015	XX	GWXXXX7IC	0.5 U	0.5 U		76	2.6		8.9	111	0.1 U	2 U	4 U
4/6/2016	XX	GWXXXX872	0.5 U	0.05 U		80	2.2		9.4	115	0.1 U	2 U	4 U
7/27/2016	XX	GWXXXX8BC	0.9	0.05 U		77	2.2		8.1	113	0.2 U	2 U	4 U
10/26/2016	XX	GWXXXX8JB	0.5 U	0.1		78	2.7		8.8	119	0.2 U	2 U	4 U
4/19/2017	XX	GWXXXX97H	0.5 U	0.05		81	2.8		5.3	112	0.2 U	2 U	2.5 U
7/26/2017	XX	GWXXXX9DF	0.5 U	0.09		77	3.4		9.4	109	0.2 U	2 U	2.5 U
10/25/2017	XX	GWXXXX9HA	0.25 U	0.11		73	3.1		8.7	125	0.1 U	2 U	2.5 U
4/4/2018	XX	GWXXXXA39	0.25 U	0.16		80	3.3		4.1	111	0.1 U	2 U	2.5 U
7/18/2018	XX	GWXXXXACA	0.28	0.13		77	4		7.8	112	0.1 U	2 U	2.5 U
10/3/2018	XX	GWXXXXB18	0.25 U	0.11		78	4.5		8.5	118	0.1 U	2 U	2.5 U
4/22/2019	XX	GWXXXXB65	0.27	0.13		76	4.3		9.7	118	0.1 U	2 U	2.5 U
7/17/2019	XX	GWXXXXBCG	0.25 U	0.13		81	5.6		9.1	115	0.1 U	2 U	2.5 U
10/30/2019	XX	GWXXXXBI9	0.25 U	0.14		78	5.9		8.8	114	0.1 U	2 U	2.5 U
4/29/2020	XX	GWXXXXCDG	0.41	0.14		81	7.2		9.4	105	0.1 U	2 U	2.5 U
7/22/2020	XX	GWXXXXCI9	0.25 U	0.05 U		77	7.4		8.8	115	0.1 U	2 U	2.5 U
10/28/2020	XX	GWXXXXD3D	0.25 U	0.092		77	7.5		7.8	109	0.1 U	3.7 M10	2.5 U

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/31/2013	XX	GW206A64I	I			I	I		I	I	I	I	I
10/28/2013	XX	GW206A67B					4.3		2 U				
4/21/2014	XX	GW206A6FJ					6.2		2 U				
7/28/2014	XX	GW206A702					3.3		2 U				
10/20/2014	XX	GW206A73B					3.6		2 U				
4/27/2015	XX	GW206A79A		0.5 U			5.5		4.8				
7/13/2015	XX	GW206A7D2		0.5 U			7.9		2 U				

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Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/26/2015	XX	GW206A7IB		0.7			8.5		2 U				
4/4/2016	XX	GW206A871		0.05 U			10.2		2 U				
4/26/2016	XX	GW206AHBC	0.5 U			63				95	0.1 U	2 U	57
7/25/2016	XX	GW206A8BB	0.6	0.05 U		63	12.5		2 U	103	0.2 U	2 U	20
10/24/2016	XX	GW206A8JA	0.5	0.05 U		61	15.7		2.2	108	0.2 U	2 U	11
4/17/2017	XX	GW206A97G	0.5 U	0.05 U		69	20		2 U	118	0.2 U	2 U	35
7/24/2017	XX	GW206A9DE	0.5 U	0.05 U		70	21		2.2	120	0.2 U	2 U	5 U
10/23/2017	XX	GW206A9H9	0.25 U	0.05 U		65	20		2.7	120	0.1 U	2 U	6
4/2/2018	XX	GW206AA38	0.25 U	0.063		71	19		2 U	123	0.1 U	2 U	2.5 U
7/16/2018	XX	GW206AAC9	0.31	0.064		74	24		2.8	130	0.1 U	2 U	2.5 U
10/1/2018	XX	GW206AB17	0.29	0.05 U		75	21		2.2	131	0.1 U	2 U	4.7
4/22/2019	XX	GW206AB64	0.25 U	0.05 U		74	19		2 U	124	0.1 U	2 U	4.3
7/17/2019	XX	GW206ABCF	0.3	0.05 U		79	22		2.4	136	0.1 U	2 U	7.7
10/28/2019	XX	GW206ABI8	0.25 U	0.067		78	21		3.1	135	0.1	2 U	18
4/27/2020	XX	GW206ACDF	0.25 U	0.088		78	20		2.1	135	0.1 U	2 U	15
7/20/2020	XX	GW206ACI8	0.25 U	0.05 U		83	22		3.4	134	0.1 U	2 U	2.5 U
10/26/2020	XX	GW206AD3C	A	A		A	A		A	A	A	A	A

PWS10-1

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/25/2011	XX	GWPWS1498				73	14.2	0.03 J	1.3 J	154		7.5	4 U
7/18/2011	XX	GWPWS14D6				110	7.3	0.14	2.9	171		8.4	42
10/24/2011	XX	GWPWS14H1				70	10.8	0.08	1.6 J	134		19.7	16
4/23/2012	XX	GWPWS151B				63	8.4	0.04 U	6.3	132		10.5	8
7/23/2012	XX	GWPWS156A				41	3.5	0.16	2 U	104		13.7	32
10/22/2012	XX	GWPWS15D1				48	8.2	0.09	2.7	130		13.3	25
4/22/2013	XX	GWPWS15HC				113	16.4	0.06	3.1	177	0.1	4.5	4 U
7/29/2013	XX	GWPWS163H				82	8.9	0.32	2 U	148	0.1 U	12.6	95
10/28/2013	XX	GWPWS166A				45	7	0.06	2.5	90	0.1 U	9.8	25
4/21/2014	XX	GWPWS16ED				130	22.9	0.16	2.2	197	0.1 U	8.4	34
7/28/2014	XX	GWPWS16J0				106	7.5	0.37	2 U	171	0.12	13.8	4 U
10/20/2014	XX	GWPWS172A				21	8.8	0.04 U	3.3	87	0.1 U	17.4	4 U
4/27/2015	XX	GWPWS1788		0.5 U		109	19.4	0.04 U	4.3	182	0.1 U	5.5	4 U
7/13/2015	XX	GWPWS17C0		2 U		76	8.4	0.52	2 U	156	0.1 U	12.5	156
10/26/2015	XX	GWPWS17H9		0.5 U		31	8.7	0.06	2.4	89	0.1 U	10.3	8
4/4/2016	XX	GWPWS185J		0.05 U		102	14.7	0.04	2.5	166	0.1 U	5.6	166
7/25/2016	XX	GWPWS18A9		0.05 U		50	3.1	0.19	2 U	122	0.2 U	13.8	21
10/24/2016	XX	GWPWS18I8		0.05 U		125	7.9	0.07	3.3	195	0.2 U	7.5	19
4/17/2017	XX	GWPWS196E		0.05 U		35	11	0.04 U	4	97	0.2 U	7.6	2.5 U
7/24/2017	XX	GWPWS19CC		0.05 U		130	7.3	0.04	3.4	150	0.2 U	5	110
10/25/2017	XX	GWPWS19G7		0.05 U		72	5.4	0.14	8.5	156	0.1 U	5.4	17
4/2/2018	XX	GWPWS1A25		0.27		56	8.2	0.04 U	4.5	106	0.1 U	3.8	2.5 U
7/16/2018	XX	GWPWS1AB7		0.076		77	5.1	0.13	2 U	132	0.1 U	12	16
10/1/2018	XX	GWPWS1B05		0.062		40	6	0.06	15	100	0.1 U	10	9.7
4/22/2019	XX	GWPWS1B51		0.14		67	8.7	0.04 U	6.4	141	0.1 U	10	16
7/15/2019	XX	GWPWS1BBE		0.16		38	8.4	0.08	2 U	105	0.1 U	21	24
10/28/2019	XX	GWPWS1BH7		0.057		69	8.7	0.04 U	9.9	134	0.1 U	9.4	11
4/27/2020	XX	GWPWS1CCE		0.073		99	13	0.04 U	8.9	180	0.1 U	8.6	11
7/20/2020	XX	GWPWS1CH7		0.05 U		81	12	0.09	2 U	191	0.1 U	30	14
10/26/2020	XX	GWPWS1D2B		0.05 U		95	9.6	0.04	9	172	0.1 U	28 M10	21

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(PWS10-2)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
PWS10-2													
4/25/2011	XX	GWPWS2499				12.1	5.8	0.02 J	1.7 J	60		7.3	4 U
7/18/2011	XX	GWPWS24D7				62	4.1	0.03 J	1.6 J	107		9.9	4 U
10/24/2011	XX	GWPWS24H2				36	3.8	0.03 J	2.9	76		10.2	78
4/23/2012	XX	GWPWS251C				10.6	8.3	0.04 U	7.7	79		11.5	4 U
7/23/2012	XX	GWPWS256B				35	3.2	0.05	2 U	90		13	4 U
10/22/2012	XX	GWPWS25D2				9.3	4.4	0.04 U	8.4	75		10.2	4
4/22/2013	XX	GWPWS25HD				30	8.4	0.04 U	3.8	82	0.1 U	6.4	5
7/29/2013	XX	GWPWS263I				28	19.8	0.05	2 U	111	0.1 U	11.8	62
10/28/2013	XX	GWPWS266B				28	5.1	0.1	4.3	78	0.1 U	5.5	43
4/21/2014	XX	GWPWS26EE				36	8.4	0.05	2.5	38	0.1 U	4.7	34
7/28/2014	XX	GWPWS26J1				55	8.3	0.04	2 U	119	0.1 U	10.4	7
10/20/2014	XX	GWPWS272B				38	9.8	0.05	8.8	113	0.1 U	13.6	4 U
4/27/2015	XX	GWPWS2789		0.5 U		39	5.8	0.05	2.5	91	0.1 U	9.9	6
7/13/2015	XX	GWPWS27C1		2 U		31	6.4	0.09	2.2	94	0.1 U	11.9	327
10/26/2015	XX	GWPWS27HA		0.5 U		27	5	0.04 U	5.2	62	0.1 U	2.6	4 U
4/4/2016	XX	GWPWS2860		0.08		38	8.5	0.08	6.3	81	0.1 U	4	12
7/25/2016	XX	GWPWS28AA		0.05 U		47	3	0.06	2 U	103	0.2 U	12.6	4 U
10/24/2016	XX	GWPWS28I9		0.05		35	5.4	0.22	7.4	89	0.2 U	9	82
4/17/2017	XX	GWPWS296F		0.08		37	4.9	0.04 U	3.1	81	0.2 U	7	7
7/24/2017	XX	GWPWS29CD		0.05 U		64	5.4	0.04 U	4	87	0.2 U	7.4	5
10/24/2017	XX	GWPWS29G8		D		D	D	D	D	D	D	D	D
4/2/2018	XX	GWPWS2A26		0.17		24	3.2	0.06	2.6	56	0.1 U	2.8	44
7/16/2018	XX	GWPWS2AB8		0.05		53	3.9	0.04	3	98	0.1 U	11	2.5 U
10/1/2018	XX	GWPWS2B06		0.087		38	4.2	0.04	9.7	86	0.1 U	8.3	3.7
4/22/2019	XX	GWPWS2B52		0.05 U		13	8.3	0.04 U	12	79	0.1 U	7.5	2.5 U
7/15/2019	XX	GWPWS2BBF		0.11		34	8.5	0.06	2 U	106	0.1 U	24	4
10/28/2019	XX	GWPWS2BH8		0.064		14	6.8	0.04	15	76	0.1 U	6.4	19
4/27/2020	XX	GWPWS2CCF		0.099		21	17	0.04	19	107	0.1 U	6.2	44
7/20/2020	XX	GWPWS2CH8		0.05 U		42	13	0.06	8.6	99	0.1 U	13	2.5 U
10/26/2020	XX	GWPWS2D2C		0.05 U		29	8.6	0.05	12	101	0.1 U	19 M10	20
PWS10-3													
4/25/2011	XX	GWPWS349A				64	2.3	0.03 J	0.6 U	105		4	4 U
7/18/2011	XX	GWPWS34D8				56	3.2	0.15	1.2 J	112		14.9	101
10/24/2011	XX	GWPWS34H3				37	3.4	0.07	0.6 U	95		13.4	10
4/23/2012	XX	GWPWS351D				16.4	4.5	0.06	6.3	66		7.5	60
7/23/2012	XX	GWPWS356C				26	3	0.07	2 U	89		13.8	18
10/22/2012	XX	GWPWS35D3				11.8	2.6	0.06	2 U	83		19	15
4/22/2013	XX	GWPWS35HE				21	4.1	0.08	2	72	0.1 U	11	8
7/29/2013	XX	GWPWS363J				56	5.4	0.5	2 U	141	0.1 U	21.6	39
10/28/2013	XX	GWPWS366C				22	6.2	0.08	2 U	73	0.1 U	11.9	29
4/21/2014	XX	GWPWS36EF				35	6.3	0.2	5	107	0.1 U	17	489
7/28/2014	XX	GWPWS36J2				32	5.2	0.27	2 U	92	0.1 U	14.8	57
10/20/2014	XX	GWPWS372D				24	8.9	0.06	2.5	89	0.1 U	18.4	19
4/27/2015	XX	GWPWS378A		0.5 U		10.4	5.3	0.09	7.4	68	0.1 U	8.7	58
7/13/2015	XX	GWPWS37C2		2 U		26	6.6	0.11	2 U	87	0.1 U	11.9	14
10/26/2015	XX	GWPWS37HB		0.5 U		25	2.4	0.05	10.2	91	0.1 U	12.3	9
4/4/2016	XX	GWPWS3861		0.05 U		68	3.2	0.04	4.6	98	0.1 U	2 U	14

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(PWS10-3)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/25/2016	XX	GWPWS38AB		D		D	D	D	D	D	D	D	D
10/24/2016	XX	GWPWS38IA		1.5		7.9	4	0.04 U	47.3	135	0.2 U	13.3	4 U
4/17/2017	XX	GWPWS396G		0.05 U		21	3.3	0.06	4.6	91	0.2 U	16	17
7/24/2017	XX	GWPWS39CE		0.05 U		62	4.6	0.11	2 U	120	0.2 U	20	17
10/24/2017	XX	GWPWS39G9		D		D	D	D	D	D	D	D	D
4/2/2018	XX	GWPWS3A27		0.23		5.8	4.5	0.04 U	4.1	48	0.1 U	6.6	4
7/16/2018	XX	GWPWS3AB9		D		D	D	D	D	D	D	D	D
10/1/2018	XX	GWPWS3B07		0.062		11	8.6	0.04	20	98	0.1 U	12	11
4/22/2019	XX	GWPWS3B53		0.05 U		12	15	0.04 U	2.3	82	0.1 U	13	3.3
7/15/2019	XX	GWPWS3BBG		0.062		26	8.9	0.14	2 U	82	0.1 U	27	18
10/28/2019	XX	GWPWS3BH9		0.15		11	1 U	0.04 U	2 U	29	0.1 U	2 U	11
4/27/2020	XX	GWPWS3CCG		0.14		22	1	0.04 U	2	61	0.1 U	11	2.5 U
7/20/2020	XX	GWPWS3CH9		0.092		51	1.8	0.15	2 U	129	0.1 U	30	11
10/26/2020	XX	GWPWS3D2D		0.054		25	7.8	0.1	3.9	106	0.1 U	34 M10	53

SW-1

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	SWXX1X495			3 U	16.7	6.8	0.02 J	1.6 J	70		8	5
7/19/2011	XX	SWXX1X4D3			4	107	6.9	0.21	2.6	157		8.4	144
10/25/2011	XX	SWXX1X4GI			4 U	19	5.8	0.02 J	2.4	64		13.4	11
4/24/2012	XX	SWXX1X518			5 U	13.9	9.3	0.04 U	3.6	65		10.8	4 U
7/24/2012	XX	SWXX1X567			4 U	40	3.8	0.11	2 U	89		13.8	15
10/23/2012	XX	SWXX1X5CI			2 U	35	6	0.04 U	5.6	104		9.6	13
4/23/2013	XX	SWXX1X5H9			4 U	15.3	12.7	0.04 U	3.1	60	0.1 U	7.4	4 U
7/30/2013	XX	SWXX1X63E			3 U	34	5.1	0.05	2 U	81	0.1 U	16.8	41
10/29/2013	XX	SWXX1X667			1 U	30	6.2	0.04 U	2.2	73	0.1 U	10.1	4 U
4/22/2014	XX	SWXX1X6EA			2 U	41	27.6	0.04	6.2	98	0.1 U	5.7	4 U
7/29/2014	XX	SWXX1X6IH			3 U	27	5.1	0.04 U	2 U	80	0.1 U	14.6	4 U
10/21/2014	XX	SWXX1X727			2 U	20	8.4	0.04 U	2.8	97	0.1 U	16.5	15
4/28/2015	XX	SWXX1X785		0.5 U	3 U	21	18	0.04 U	3.1	79	0.1 U	7.3	4 U
7/14/2015	XX	SWXX1X7BH		2 U	3 U	37	5.7	0.06	1.6 J	80	0.1 U	11.1	9
10/27/2015	XX	SWXX1X7H6		0.5 U	3 U	28	9	0.04 U	2.6	76	0.1 U	10.4	4 U
4/5/2016	XX	SWXX1X85G		0.05 U	3 U	21	16.3	0.04 U	3.4	69	0.1 U	6.1	4 U
7/26/2016	XX	SWXX1X8A6		0.05 U	4	83	4.1	0.95	2.2	135	0.2 U	12.9	377
10/25/2016	XX	SWXX1X8I5		0.05	3 U	15.5	11	0.04	6.6	126	0.2 U	17.3	4
4/18/2017	XX	SWXX1X96B		0.05	3 U	13	9.8	0.04 U	2 U	60	0.2 U	8.9	2.5 U
7/25/2017	XX	SWXX1X9C9		0.06	4	110	6.4	0.17	6.8	169	0.2 U	6.7	35
10/25/2017	XX	SWXX1X9G4		0.12	5	27	13	0.09	13	139	0.1 U	16	14
4/3/2018	XX	SWXX1XA22		0.25	2	45	11	0.04 U	3.5	92	0.1 U	4.5	2.5 U
7/17/2018	XX	SWXX1XAB4		0.063	6	100	5	0.17	2.2	151	0.1 U	10	640
10/2/2018	XX	SWXX1XB02		0.05 U	1 U	44	6.3	0.04	15	105	0.1 U	9.7	49
4/23/2019	XX	SWXX1XB4I		0.15	1 U	48	7.3	0.16	5.3	97	0.1 U	8.2	2.5 U
7/16/2019	XX	SWXX1XBBB		0.05 U	5	33	9.4	0.08	8.8	118	0.1 U	21	30
10/29/2019	XX	SWXX1XBH4		0.12	4	100	9.7	0.04 U	10	142	0.1 U	5	16
4/28/2020	XX	SWXX1XCCB		0.18	3	90	13	0.04	11	144	0.1 U	5.4	2.5 U
7/21/2020	XX	SWXX1XCH4		0.05 U	4	55	12	0.09	2 U	138	0.13	18	13
10/27/2020	XX	SWXX1XD28		0.064	9	85	17	0.11	15	196	0.1 U	49 M10	46

SW-2

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	SWXX2X496			3 U	11.5	6.7	0.01 J	0.9 J	57		8.3	4 U
4/26/2011	XD	SWDP2X49B			3 U	11.4	7.1	0.01 J	1 J	62		8.5	4 U

SEVEE & MAHER ENGINEERS, INC.
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(SW-2)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/19/2011	XX	SWXX2X4D4			4 U	35	2.9	0.06	1.6 J	83		12.6	15
7/19/2011	XD	SWDP2X4D9			4 U	33	2.8	0.06	1.5 J	82		13.3	6
10/25/2011	XX	SWXX2X4GJ			4 U	12.6	7.4	0.01 J	2.6	76		14	4 U
10/25/2011	XD	SWDP2X4H4			4 U	13	6.3	0.01 J	2.3	75		14.4	4 U
4/24/2012	XX	SWXX2X519			5 U	15.1	21.6	0.04 U	2.6	89		12	4 U
4/24/2012	XD	SWDP2X51E			5 U	15.4	21.6	0.04 U	2.6	90		11.7	4 U
7/24/2012	XX	SWXX2X568			4 U	17.6	3.3	0.08	2 U	71		18	17
10/23/2012	XX	SWXX2X5CJ			2 U	13	4.2	0.04 U	3	72		10.7	4 U
10/23/2012	XD	SWDP2X5D4			2 U	13.8	4	0.04 U	3	72		10.9	4 U
4/23/2013	XX	SWXX2X5HA			4 U	13	13.6	0.04 U	2 U	66	0.1 U	7.6	4 U
4/23/2013	XD	SWDP2X5HF			4 U	12.8	14.2	0.04 U	2 U	62	0.1 U	7.8	4 U
7/30/2013	XX	SWXX2X63F			3 U	25	4.5	0.04 U	2 U	74	0.1 U	24.1	4
10/29/2013	XX	SWXX2X668			1 U	22	6.6	0.04 U	2 U	65	0.1 U	11.8	4 U
10/29/2013	XD	SWDP2X66D			1 U	21	6.6	0.04	2 U	68	0.1 U	11.9	6
4/22/2014	XX	SWXX2X6EB			2 U	13.6	16.1	0.04 U	2.6	56	0.1 U	6.6	4 U
4/22/2014	XD	SWDP2X6EG			2 U	13.4	16.4	0.04 U	2.7	58	0.1 U	6.5	4 U
7/29/2014	XX	SWXX2X6II			5	26	5.3	0.1	2 U	76	0.1 U	15.1	42
10/21/2014	XX	SWXX2X728			2 U	13.7	9	0.04 U	2.2	95	0.1 U	17.6	4 U
10/21/2014	XD	SWDP2X72E			2 U	14.1	9	0.04 U	2.4	95	0.1 U	17.9	4 U
4/28/2015	XX	SWXX2X786		0.5 U	3 U	12	17.6	0.04 U	2.3	77	0.1 U	7.9	4 U
4/28/2015	XD	SWDP2X78B		0.5 U	3 U	11.9	19.3	0.04 U	3.4	76	0.1 U	7.8	4 U
7/14/2015	XX	SWXX2X7BI		2 U	3	27	6	0.04	2 U	73	0.1 U	12.4	19
10/27/2015	XX	SWXX2X7H7		0.5 U	3 U	16.2	9.2	0.04 U	2 U	71	0.1 U	14.1	30
10/27/2015	XD	SWDP2X7HC		0.5 U	3 U	16.1	9.3	0.04 U	2	74	0.1 U	12.3	4 U
4/5/2016	XD	SWDP2X862		0.05 U	3 U	15.7	16.4	0.04 U	3.1	62	0.1 U	6.3	4 U
4/5/2016	XX	SWXX2X85H		0.05 U	3 U	16.7	17.5	0.04 U	2.8	71	0.1 U	6.3	4 U
7/26/2016	XX	SWXX2X8A7		0.05 U	3	34	2.1	0.05	2 U	92	0.2 U	17.7	15
10/25/2016	XD	SWDP2X8IB		0.05 U	3 U	14.6	11.8	0.04	4.1	121	0.2 U	18.5	4 U
10/25/2016	XX	SWXX2X8I6		0.05 U	3 U	14.5	11.7	0.04	3.8	131	0.2 U	20.6	4 U
4/18/2017	XD	SWDP2X96H		0.05 U	3 U	12	7.2	0.04 U	2.5	61	0.2 U	8.7	2.5 U
4/18/2017	XX	SWXX2X96C		0.05 U	3 U	12	6.8	0.04 U	2.2	63	0.2 U	9.4	2.5 U
7/25/2017	XX	SWXX2X9CA		0.06	2 U	46	3.4	0.09	3.2	93	0.2 U	8.9	9
10/25/2017	XD	SWDP2X9GA		0.11	5	22	13	0.11	3.8	107	0.1 U	14	10
10/25/2017	XX	SWXX2X9G5		0.16	4	21	13	0.1	3.5	114	0.1 U	14	4.7
4/3/2018	XD	SWDP2XA28		0.076	1 U	7.9	6.4	0.04 U	2 U	54	0.1 U	6.9	2.5 U
4/3/2018	XX	SWXX2XA23		0.084	1 U	8.6	6.8	0.04 U	2 U	67	0.1 U	7.2	2.5 U
7/17/2018	XX	SWXX2XAB5		0.05 U	42	40	4.6	0.43	2.3	103	0.1 U	18	76
10/2/2018	XD	SWDP2XB08		0.05 U	8	21	10	0.11	9.8	96	0.1 U	16	42
10/2/2018	XX	SWXX2XB03		0.065	7	25	9.8	0.09	9.2	94	0.1 U	16	16
4/23/2019	XD	SWDP2XB54		0.05 U	1 U	13	16	0.04 U	2.1	77	0.1 U	13	2.5 U
4/23/2019	XX	SWXX2XB4J		0.05 U	1 U	13	16	0.04 U	2 U	73	0.1 U	13	2.5 U
7/16/2019	XD	SWDP2XBBH		0.05 U	3	23	12	0.06	2 U	107	0.1 U	24	19
7/16/2019	XX	SWXX2XBBC		0.05 U	3	23	12	0.05	2 U	93	0.1 U	30	22
10/29/2019	XD	SWDP2XBHA		0.05 U	1 U	14	9.5	0.04 U	2 U	117	0.1 U	30	2.5 U
10/29/2019	XX	SWXX2XBH5		0.05 U	1 U	13	9.3	0.04 U	2 U	66	0.1 U	13	2.5 U
4/28/2020	XD	SWDP2XCCH		0.089	2 U	15	12	0.04 U	3.1	62	0.1 U	7.1	2.5 U
4/28/2020	XX	SWXX2XCCC		0.084	2 U	14	12	0.04 U	2.8	61	0.1 U	7.2	2.5 U
7/21/2020	XD	SWDP2XCHA		0.05 U	2	33	4.5	0.12	2 U	100	0.1 U	21	3.7
7/21/2020	XX	SWXX2XCH5		0.05 U	2	33	4.3	0.04	2 U	113	0.1 U	21	2.5 U
10/27/2020	XD	SWDP2XD2E		0.05 U	1	13	9.8	0.04 U	4.4	84	0.1 U	28 M10	2.5 U

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(SW-2)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
10/27/2020	XX	SWXX2XD29		0.05 U	1 U	13	9.8	0.04 U	4.3	87	0.1 U	28 M10	2.5 U
SW-3													
4/26/2011	XX	SWXX3X497			3 U	12.3	5.8	0.01 J	1.4 J	57		7.3	4 U
7/19/2011	XX	SWXX3X4D5			4 U	36	5	0.04	0.6 J	85		11.8	4 U
10/25/2011	XX	SWXX3X4H0				18.5	5.6	0.02 J	1.9 J	72		12.9	4 U
10/26/2011	XX	SWXX3XHBB			4 U								
4/24/2012	XX	SWXX3X51A			5 U	10.9	4.6	0.04 U	3.5	58		11.3	4 U
7/24/2012	XX	SWXX3X569			4 U	33	2	0.05	2 U	79		11.1	4
7/24/2012	XD	SWDP2X56D			4 U	33	1.9	0.05	2 U	76		11	4 U
10/23/2012	XX	SWXX3X5D0			2 U	13.6	3.8	0.04 U	2.3	74		12.1	4 U
4/23/2013	XX	SWXX3X5HB			4 U	14.8	9.8	0.04 U	3.1	56	0.1 U	7	4 U
7/30/2013	XX	SWXX3X63G			3 U	28	5.2	0.04 U	2.4	67	0.1 U	13.7	5
7/30/2013	XD	SWDP2X640			3 U	28	5.1	0.04 U	2.3	72	0.1 U	13.7	4 U
10/29/2013	XX	SWXX3X669			1 U	29	7.7	0.04 U	2.7	74	0.1 U	7.8	4 U
4/22/2014	XX	SWXX3X6EC			2 U	12	13.8	0.04 U	3.3	53	0.1 U	6.4	4 U
7/29/2014	XX	SWXX3X6IJ			3 U	27	5.3	0.04 U	2 U	75	0.1 U	10	4 U
7/29/2014	XD	SWDP2X6J3			3 U	25	5.1	0.04 U	2 U	76	0.1 U	10.1	4 U
10/21/2014	XX	SWXX3X729			2 U	15.1	7	0.04 U	5.7	90	0.1 U	15.4	4 U
4/28/2015	XX	SWXX3X787		0.5 U	3 U	12.6	13.5	0.04 U	3.1	68	0.1 U	7.1	4 U
7/14/2015	XX	SWXX3X7BJ		2 U	3 U	29	6.1	0.04 U	2.3	69	0.1 U	9.7	4 U
7/14/2015	XD	SWDP2X7C3		2 U	3 U	28	6.1	0.04 U	2.2	69	0.1 U	9.7	4 U
10/27/2015	XX	SWXX3X7H8		0.5 U	3 U	23	9.1	0.04 U	3	85	0.1 U	9.1	4 U
4/5/2016	XX	SWXX3X85I		0.06	3 U	16.8	12.3	0.04 U	3.6	60	0.1 U	6.4	4 U
7/26/2016	XD	SWDP2X8AC		0.05 U	3 U	37	4.9	0.05	2.1	85	0.2 U	12.8	4 U
7/26/2016	XX	SWXX3X8A8		0.05 U	3 U	36	4.9	0.05	2.1	85	0.2 U	12.9	4 U
10/25/2016	XX	SWXX3X8I7		0.05 U	3 U	15.6	8.7	0.04 U	10.8	104	0.2 U	12.5	4 U
4/18/2017	XX	SWXX3X96D		0.05 U	3 U	12	4.3	0.04 U	4.2	55	0.2 U	8.4	2.5 U
7/25/2017	XD	SWDP2X9CF		0.06	2 U	43	11	0.04	2.6	101	0.2 U	8.5	4.3
7/25/2017	XX	SWXX3X9CB		0.05	2 U	43	11	0.04	2.6	100	0.2 U	9.6	2.5 U
10/25/2017	XX	SWXX3X9G6		0.22	7	22	20	0.06	11	139	0.1 U	15	2.5 U
4/3/2018	XX	SWXX3XA24		0.26	1 U	11	14	0.04 U	2 U	79	0.1 U	6.8	2.5 U
7/17/2018	XD	SWDP2XABA		0.07	3	41	11	0.09	2.5	85	0.1 U	13	25
7/17/2018	XX	SWXX3XAB6		0.074	3	40	10	0.09	2.6	91	0.1 U	12	17
10/2/2018	XX	SWXX3XB04		0.05 U	1 U	23	5.2	0.04 U	14	69	0.1 U	9	2.5 U
4/23/2019	XX	SWXX3XB50		0.05 U	1 U	11	10	0.04 U	2.7	63	0.1 U	11	2.5 U
7/16/2019	XX	SWXX3XBBD		0.05 U	2 U	31	7.3	0.05	2 U	93	0.1 U	19	2.5 U
10/29/2019	XX	SWXX3XBH6		0.05 U	1 U	11	5.9	0.04 U	2.5	66	0.1 U	14	2.5 U
4/28/2020	XX	SWXX3XCCD		0.1	2 U	13	9.9	0.04 U	3	56	0.1 U	8.1	2.5 U
7/21/2020	XX	SWXX3XCH6		0.05 U	1	31	12	0.04 U	2 U	108	0.1 U	12	2.5 U
10/27/2020	XX	SWXX3XD2A		0.065	1 U	26	18	0.04 U	6.4	73	0.11	17 M10	2.5 U
SW-DP1													
4/26/2011	XX	SWDP1X49D				46	4.1	0.03 J	4	85		2.3	6
7/19/2011	XX	SWDP1X4DB				69	2.4	0.02 J	4.5	92		4.1	4 U
10/25/2011	XX	SWDP1X4H6				43	3.4	0.03 J	6.1	51		3	5
4/24/2012	XX	SWDP1X51G				28	4.1	0.1	11.2	90		2.4	65
7/24/2012	XX	SWDP1X56F				63	4.1	0.14	8.1	97		3.3	6
10/23/2012	XX	SWDP1X5D6				23	3	0.08	5.5	90		2.2	46
4/23/2013	XX	SWDP1X5HH				57	15.2	0.06	27.4	118	0.13	2 U	12

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(SW-DP1)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
7/30/2013	XX	SWDP1X642				27	4.4	0.04 U	7.2	55	0.1 U	2.6	4 U
10/29/2013	XX	SWDP1X66F				69	5.5	0.04	9.1	90	0.1 U	2.8	12
4/22/2014	XX	SWDP1X6EI				32	5.4	0.05	5.3	58	0.1 U	2 U	10
7/29/2014	XX	SWDP1X6J5				16.2	1.8	0.07	2.3	44	0.1 U	2.4	6
10/21/2014	XX	SWDP1X72G				17	1.9	0.04 U	4.9	47	0.1 U	2.2	4 U
4/28/2015	XX	SWDP1X78D		0.5 U		35	8.3	0.05	7.4	75	0.1 U	2 U	11
7/14/2015	XX	SWDP1X7C5		2 U		46	3.1	0.04 U	4.1	68	0.1 U	2.8	4 U
10/27/2015	XX	SWDP1X7HE		0.5 U		25	5.3	0.04 U	5	56	0.1 U	2 U	4
4/5/2016	XX	SWDP1X864		0.05 U		32	6.7	0.05	8.1	67	0.1 U	2 U	11
7/26/2016	XX	SWDP1X8AE		0.05 U		45	3.9	0.04 U	7.2	78	0.2 U	3.8	4 U
10/25/2016	XX	SWDP1X8ID		0.05 U		24	2.1	0.04 U	8.6	72	0.2 U	2.7	8
4/18/2017	XX	SWDP1X96J		0.05 U		32	7.4	0.04 U	7	55	0.2 U	2.1	2.5 U
7/25/2017	XX	SWDP1X9CH		0.09		57	6.6	0.04	5.4	94	0.2 U	3.7	11
10/23/2017	XX	SWDP1X9GC		0.05 U		39	3.9	0.04 U	6.8	93	0.1 U	2.9	2.5 U
4/3/2018	XX	SWDP1XA2B		0.21		7.2	1.9	0.04 U	2.6	52	0.1 U	2 U	6
7/17/2018	XX	SWDP1XABC		0.055		30	1.4	0.05	4.6	61	0.1 U	3.4	18
10/2/2018	XX	SWDP1XB0A		0.05 U		25	1.9	0.04 U	7	49	0.1 U	2.4	3.7
4/23/2019	XX	SWDP1XB57		0.15		21	3.2	0.04 U	21	69	0.1 U	2 U	3.7
7/16/2019	XX	SWDP1XBBJ		0.05 U		23	1.5	0.04 U	12	60	0.1 U	2.3	2.5 U
10/29/2019	XX	SWDP1XBHC		0.23		42	2.2	0.06	9.4	84	0.1 U	3.6	16
4/28/2020	XX	SWDP1XCCJ		0.55		59	79	0.04	22	251	1.1	5.4	8
7/21/2020	XX	SWDP1XCHC		0.05 U		83	12	0.12	22	164	0.22	5.8	31
10/27/2020	XX	SWDP1XD2G		0.051		52	6.3	0.12	23	114	0.1 U	12 M10	25

SW-DP5

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/23/2013	XX	SWDP5X60I				37	10.7	0.06	32.1	110	0.1 U	2 U	7
7/30/2013	XX	SWDP5X65H				9	2.3	0.05	12.3	71	0.1 U	4.8	5
10/29/2013	XX	SWDP5X686				D	D	D	D	D	D	D	D
4/22/2014	XX	SWDP5X6GD				29	20.9	0.07	38	110	0.1 U	3.1	15
7/29/2014	XX	SWDP5X70F				26	3.9	0.1	7.5	81	0.1 U	2.9	29
10/21/2014	XX	SWDP5X743				23	4.1	0.05	22.9	90	0.1 U	2 U	9
4/28/2015	XX	SWDP5X7A3		0.5 U		31	20.1	0.05	38.1	137	0.1 U	2 U	12
7/14/2015	XX	SWDP5X7DF		2 U		50	8	0.04	14.4	107	0.1 U	3.8	9
10/27/2015	XX	SWDP5X7J2		D		D	D	D	D	D	D	D	D
7/26/2016	XX	SWDP5X8C4		D		D	D	D	D	D	D	D	D
10/25/2016	XX	SWDP5X902		I		I	I	I	I	I	I	I	I
4/18/2017	XX	SWDP5X989		D		D	D	D	D	D	D	D	D
7/25/2017	XX	SWDP5X9E6		0.05		57	4.7	0.06	24	127	0.2 U	5.6	7
10/24/2017	XX	SWDP5X9I1		D		D	D	D	D	D	D	D	D
4/3/2018	XX	SWDP5XA41		0.27		15	1.6	0.04	2.5	47	0.1 U	2 U	7.3
7/17/2018	XX	SWDP5XAD1		D		D	D	D	D	D	D	D	D
10/2/2018	XX	SWDP5XB1J		D		D	D	D	D	D	D	D	D
4/23/2019	XX	SWDP5XB6H		0.3		26	4.5	0.07	30	103	0.1 U	2	50
7/16/2019	XX	SWDP5XBD8		0.063		32	2.4	0.04 U	14	74	0.1 U	3	2.5 U
10/29/2019	XX	SWDP5XBJ0		0.065		23	2.3	0.06	26	80	0.1 U	2 U	21
4/28/2020	XX	SWDP5XCE8		0.14		33	6.8	0.04	36	101	0.1 U	2.5	14
7/21/2020	XX	SWDP5XCJ1		0.05 U		47	2.3	0.05	22	126	0.1 U	3.6	5
10/27/2020	XX	SWDP5XD44		0.089		30	1.9	0.08	14	69	0.1 U	6.7 M10	14

SW-DP6

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(SW-DP6)

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/26/2011	XX	SWDP6X49E				23	17.7	0.04	22.2	127		4.5	7
7/19/2011	XX	SWDP6X4DC				75	8.7	0.05	155	323		4.6	5
10/25/2011	XX	SWDP6X4H7				59	16.3	0.03 J	42.2	168		3.1	4 U
4/24/2012	XX	SWDP6X51H				16.8	10.3	0.04 U	21.3	91		4.4	5
7/24/2012	XX	SWDP6X56G				30	1.1	0.14	5.5	81		8.7	16
10/23/2012	XX	SWDP6X5D7				22	3.5	0.07	3.9	89		4.6	11
4/23/2013	XX	SWDP6X5HI				7.8	7	0.07	10.7	60	0.1 U	4.4	35
7/30/2013	XX	SWDP6X643				13.1	4.6	0.04 U	20.4	73	0.1 U	4.9	4
10/29/2013	XX	SWDP6X66G				12.6	4.9	0.04	23.2	71	0.1 U	3.8	4 U
4/22/2014	XX	SWDP6X6EJ				13.1	17.8	0.1	21.8	70	0.1 U	4.3	6
7/29/2014	XX	SWDP6X6J6				18.3	4.7	0.04 U	4.5	65	0.1 U	6.9	4 U
10/21/2014	XX	SWDP6X72H				13.7	3.6	0.04 U	12.9	62	0.1 U	4.7	4 U
4/28/2015	XX	SWDP6X78E		0.5 U		21	7.2	0.05	17.4	81	0.1 U	3.4	4
7/14/2015	XX	SWDP6X7C6		2 U		28	5.6	0.12	13.5	131	0.1 U	5.7	43
10/27/2015	XX	SWDP6X7HF		0.5 U		22	2.7	0.04 U	10.3	58	0.1 U	4	4 U
4/5/2016	XX	SWDP6X865		0.05 U		12.7	6.9	0.04 U	15	61	0.1 U	3.2	4 U
7/26/2016	XX	SWDP6X8AF		0.05 U		28	2.8	0.04 U	29.8	92	0.2 U	5.7	4 U
10/25/2016	XX	SWDP6X8IE		0.1		22	2	0.07	18.8	104	0.2 U	3.8	29
4/18/2017	XX	SWDP6X970		0.05 U		9.6	9.7	0.04 U	2 U	46	0.2 U	3.5	4
7/25/2017	XX	SWDP6X9CI		0.06		16	9.1	0.05	10	87	0.2 U	6.7	6
10/23/2017	XX	SWDP6X9GD		0.05 U		10	9.2	0.04 U	21	88	0.1 U	4.5	3.3
4/3/2018	XX	SWDP6XA2C		0.12		11	3.6	0.04	9.7	44	0.1 U	2.1	31
7/17/2018	XX	SWDP6XABD		0.05 U		18	7.9	0.05	32	94	0.1 U	6.6	9.7
10/2/2018	XX	SWDP6XB0B		0.05 U		6	4.6	0.04 U	40	58	0.1 U	4.7	2.5 U
4/23/2019	XX	SWDP6XB58		0.05 U		12	6.7	0.06	12	57	0.1 U	4.2	9.3
7/16/2019	XX	SWDP6XBC0		0.056		14	4.6	0.04 U	8.7	59	0.1 U	6.5	3.7
10/29/2019	XX	SWDP6XBHD		0.05 U		6.3	1.7	0.04 U	12	43	0.1 U	4.6	5
4/28/2020	XX	SWDP6XCD0		0.056		8.4	4.3	0.05	10	38	0.1 U	3.3	6.7
7/21/2020	XX	SWDP6XCHD		0.05 U		13	2.3	0.04	16	83	0.1 U	6.1	8
10/27/2020	XX	SWDP6XD2H		0.058		14	1.8	0.06	24	65	0.1 U	5.8 M10	13

OFFICE WELL

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/6/2016	XX	DWOFFX87J	0.5 U	0.2		93	19.5		16.4	174	0.5 U	2 U	4 U
4/19/2017	XX	DWOFFX98D	0.5 U	0.43		110	23		14	197	0.5 U	2 U	2.5 U
4/4/2018	XX	DWOFFXA45	0.25 U	0.57		120	23		43	221	0.1 U	2 U	2.7
4/22/2019	XX	DWOFFXB71	0.25 U	0.42		110	29		19	230	0.1 U	2 U	2.5 U
7/15/2019	XX	DWOFFXBDB	0.25 U	0.65		120	30		18	218	0.1 U	2 U	2.5 U

SCALE HOUSE WELL

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L
4/6/2016	XX	DWSCLX880	0.7	0.2		133	75.6		15.2	345	0.5 U	2 U	4
4/19/2017	XX	DWSCLX98E	0.5 U	0.65		140	74		15	360	0.5 U	2 U	2.5 U
4/4/2018	XX	DWSCLXA46	0.25 U	0.59		130	58		7.6	309	0.3 U	2 U	2.5 U
4/22/2019	XX	DWSCLXB72	0.25 U	0.47		130	60		24	310	0.2 U	2 U	2.5 U
7/15/2019	XX	DWSCLXBDC	0.25 U	0.62		130	75		21	329	0.2 U	2 U	2.5 U

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(SCALE HOUSE WELL) Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Nitrite/Nitrate - (N) mg/L	Biochemical Oxygen Demand mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Chloride mg/L	Total Phosphorus mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Bromide mg/L	Organic Carbon mg/L	Total Suspended Solids mg/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- ! - The sampling location was damaged or destroyed.
- A - The sampling location was Inaccessible
- D - The sampling location was dry.
- F12 - Pipe under water, no sample taken.
- F6 - No flow. Sample not taken.
- H2 - Waterlevel higher than pipes. See LF-COMP for readings
- I - The sampling location yielded insufficient quantity to collect a sample.
- J - Analyte was positively identified/Associated value is an estimate.
- M10 - Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.
- U - Not Detected above the laboratory reporting limit.

SEVEE & MAHER ENGINEERS, INC.
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(DP-4)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
DP-4										
4/25/2011	XX	GWXXXX4AD		0.012	26.3	0.28	7.2	1.48	1.1	8.3
7/18/2011	XX	GWXXXX4EB		0.016	25.5	0.22	7.4	1.38	1.1	8.8
10/24/2011	XX	GWXXXX4I6		0.002 U	29.2	0.24	8	1.68	1.3	10.3
4/25/2012	XX	GWXXXX52G		0.011	29.2	0.55	7.7	1.85	1.1	10.2
7/25/2012	XX	GWXXXX57F		0.011	25.8	0.46	7.6	1.59	1.3	10.5
10/24/2012	XX	GWXXXX5E6		0.006	25.2	0.52	7.9	1.92	1.2	11.8
4/24/2013	XX	GWXXXX5IH		0.011	29.5	0.89	8.2	1.81	1.3	10.8
LF-COMP										
7/19/2011	XX	LFXXXX4F1		0.014	44.3	0.02 U	10	0.02 U	4.3	9
4/24/2012	XX	LFXXXX53B		0.008	41.4	0.1	9.2	0.05 U	3.4	6.9
LF-UD-1										
4/26/2011	XX	LFUD1X4A2		0.014	42.8	0.02 U	9.3	0.02 U	3.3	8
7/19/2011	XX	LFUD1X4E0		0.014	45.2	0.03 J	9.8	0.02 U	4.1	9.1
10/25/2011	XX	LFUD1X4HF		0.002 U	43.2	0.03 J	11.4	0.02 U	3.1	8.4
4/24/2012	XX	LFUD1X525		H2	H2	H2	H2	H2	H2	H2
7/24/2012	XX	LFUD1X574		0.007	44.3	0.13	12.2	0.05 U	3.5	8.7
10/23/2012	XX	LFUD1X5DF		F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LFUD1X5I6		0.012	44.4	0.05 U	10.5	0.05 U	3.7	7.9
7/30/2013	XX	LFUD1X64B		0.015	49.7	0.05 U	10.8	0.05 U	3.2	7.1
10/29/2013	XX	LFUD1X674		F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD1X6F7		0.015	54.1	0.05	11.4	0.05 U	3.8	8.2
7/29/2014	XX	LFUD1X6JE		0.006	47.3	4.57	12.1	0.1	4	7.5
10/21/2014	XX	LFUD1X735		F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD1X792		0.005 U	48.9	0.59	11.2	0.05 U	3.7	8.2
7/14/2015	XX	LFUD1X7CE		0.013	52.8	0.05 U	10.7	0.05 U	3.5	8.1
10/27/2015	XX	LFUD1X7I3		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD1X86D		0.015	48.9	0.05 U	10.2	0.05 U	3.2	8.1
7/26/2016	XX	LFUD1X8B3		I	I	I	I	I	I	I
10/25/2016	XX	LFUD1X8J2		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD1X978		0.005	45	0.22	12	0.05 U	3.5	9.2
7/25/2017	XX	LFUD1X9D6		0.005 U	58	0.12	14	0.05 U	3.9	10
10/25/2017	XX	LFUD1X9H1		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD1XA30	UF	0.005 U	57	0.05 U	13	0.05 U	3.6	9.5
7/17/2018	XX	LFUD1XAC1		F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFUD1XB0J		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD1XB5G	UF	0.005 U	58	0.05	10	0.05 U	3.3	7.8
7/16/2019	XX	LFUD1XBC8		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD1XBI1		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD1XCD8		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD1XCI1		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD1XD35		F6	F6	F6	F6	F6	F6	F6
LF-UD-2										
4/26/2011	XX	LFUD2X4A3		0.009	30.7	0.02 U	8	0.02 U	2.6	5.2
7/19/2011	XX	LFUD2X4E1		0.014	33.6	0.02 U	8.9	0.02 U	2.6	6.1
10/25/2011	XX	LFUD2X4HG		0.002 U	34.2	0.02 U	8.9	0.02 U	2.7	5.9
4/24/2012	XX	LFUD2X526		H2	H2	H2	H2	H2	H2	H2

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(LF-UD-2)

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
			-	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7/24/2012	XX	LFUD2X575		0.005 U	39	0.05 U	10.4	0.05 U	3.1	6.7
10/23/2012	XX	LFUD2X5DG		0.01	35.6	0.05 U	9.9	0.05 U	2.7	6.3
4/23/2013	XX	LFUD2X5I7		0.011	36.3	0.05 U	9.6	0.05 U	3	6.8
7/30/2013	XX	LFUD2X64C		0.012	40.3	0.05 U	10.3	0.05 U	2.6	6.2
10/29/2013	XX	LFUD2X675		0.008	50.5	0.05 U	10.7	0.05 U	3.4	7.3
4/22/2014	XX	LFUD2X6F8		0.012	46	0.05 U	11.4	0.05 U	3.2	7.4
7/29/2014	XX	LFUD2X6JF		0.018	46.3	0.05 U	10.8	0.05 U	3	7
10/21/2014	XX	LFUD2X736		0.016	71.5	0.05 U	12.3	0.05 U	4.5	9.2
4/28/2015	XX	LFUD2X793		0.013	49.8	0.05 U	10.9	0.05 U	3.3	7.7
7/14/2015	XX	LFUD2X7CF		0.013	50.8	0.05 U	10.8	0.05 U	3.4	8
10/27/2015	XX	LFUD2X7I4		0.011	57.2	0.05 U	11.9	0.05 U	3.7	8.4
4/5/2016	XX	LFUD2X86E		0.015	47	0.05 U	11.2	0.05 U	3	7.5
7/26/2016	XX	LFUD2X8B4		0.024	58.9	0.12	13.5	0.05 U	4.2	9.6
10/25/2016	XX	LFUD2X8J3		0.005 U	68.8	0.05 U	12	0.05 U	3.9	9
4/18/2017	XX	LFUD2X979		0.005	46	0.38	12	0.05 U	3.7	10
7/25/2017	XX	LFUD2X9D7		0.005 U	57	0.14	15	0.05 U	3.3	8.7
10/25/2017	XX	LFUD2X9H2		0.008	68	0.71	14	0.05 U	4.6	9.6
4/3/2018	XX	LFUD2XA31	UF	0.005 U	49	0.05 U	13	0.05 U	3.5	9.5
7/17/2018	XX	LFUD2XAC2	UF	0.005 U	67	0.13	14	0.05 U	3.6	9.3
10/2/2018	XX	LFUD2XB10	UF	0.005 U	70	0.05 U	14	0.05 U	4.5	12
4/23/2019	XX	LFUD2XB5H		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD2XBC9	UF	0.005 U	59	0.05 U	12	0.05 U	3.8	11
10/29/2019	XX	LFUD2XBI2	UF	0.005 U	52	0.7	10	0.05 U	3.5	9.2
4/28/2020	XX	LFUD2XCD9	UF	0.005 U	60	0.1	11	0.05 U	3.6	9
7/21/2020	XX	LFUD2XCI2	UF	0.005	65	2.5	15	0.13	5.4	14
10/27/2020	XX	LFUD2XD36	UF	0.005 U	61	0.05 U	13	0.05 U	4.3	14

LF-UD-3A,B

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/26/2011	XX	LFXXXX4B1		0.01	47.2	0.02 U	8.8	0.06	1.8	7.2
7/19/2011	XX	LFXXXX4EJ		H2	H2	H2	H2	H2	H2	H2
10/25/2011	XX	LFXXXX4IC		F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LFXXXX534		H2	H2	H2	H2	H2	H2	H2
7/24/2012	XX	LFXXXX581		F6	F6	F6	F6	F6	F6	F6
10/23/2012	XX	LFXXXX5EC		F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LFXXXX5J5		F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LFXXXX65A		F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFXXXX67J		F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFXXXX6G6		F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LFXXXX708		F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFXXXX73H		F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79G		F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFXXXX7D8		F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFXXXX7IF		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX877		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFXXXX8BH		F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFXXXX8JF		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982		F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LFXXXX9DJ		F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LFXXXX9HE		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E		F6	F6	F6	F6	F6	F6	F6

(LF-UD-3A,B)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/17/2018	XX	LFXXXXACE		F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFXXXXB1C		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBD1		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBID		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCIE		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD3H		F6	F6	F6	F6	F6	F6	F6

LF-UD-4

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	LFXXXX4B3		F12	F12	F12	F12	F12	F12	F12
7/19/2011	XX	LFXXXXHG2		H2	H2	H2	H2	H2	H2	H2
10/25/2011	XX	LFXXXX4GA		F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LFXXXX536		H2	H2	H2	H2	H2	H2	H2
7/24/2012	XX	LFXXXX582		0.007	63.5	0.05 U	12.1	0.05 U	5.8	10.6
10/23/2012	XX	LFXXXX5CA		0.011	48.6	0.05 U	11.1	0.05 U	3.8	8.4
4/23/2013	XX	LFXXXX5J6		0.012	44.8	0.05 U	10.6	0.05 U	3.7	8.2
7/30/2013	XX	LFXXXX65B		F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFXXXX680		0.009	49.4	0.05 U	10.9	0.05 U	3.4	7.4
4/22/2014	XX	LFXXXX6G7		0.014	62.6	0.05 U	11.3	0.05 U	4.7	9
7/29/2014	XX	LFXXXX709		F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFXXXX73I		F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79H		F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFXXXX7D9		F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFXXXX7IG		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX878		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFXXXX8BI		0.005	60.7	0.28	13.9	0.05 U	4.3	10.2
10/25/2016	XX	LFXXXX8JG		0.005 U	75.7	0.05 U	13.8	0.05 U	4.3	9.9
4/18/2017	XX	LFXXXX983		0.007	47	0.06	12	0.05 U	3.6	9.5
7/25/2017	XX	LFXXXX9E0		0.005 U	57	0.13	14	0.05 U	3.9	11
10/25/2017	XX	LFXXXX9HF		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3F		F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFXXXXACF	UF	0.005	68	0.06	14	0.05 U	3.6	9.5
10/2/2018	XX	LFXXXXB1D		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBD2		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBIE	UF	0.005	51	1.4	9.9	0.16	3.4	8.5
4/28/2020	XX	LFXXXXCE2		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCIF		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD3I		F6	F6	F6	F6	F6	F6	F6

LF-UD-5and6

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	LFXXXX4B4		0.017	64.6	0.02 U	13.3	0.02 U	5.7	8.8
7/19/2011	XX	LFXXXX4F2		0.012	59.1	0.15	13.6	0.02 U	5.5	10.2
10/25/2011	XX	LFXXXX4G7		0.008	71.3	11.3	15.4	0.25	7	10
4/24/2012	XX	LFXXXX537		0.008	65.9	0.05	12.9	0.05 U	5.3	9.8
7/24/2012	XX	LFXXXX584		0.01	68.3	0.05 U	14.1	0.05 U	5.5	9.8
10/23/2012	XX	LFXXXX5C7		0.014	52.5	0.26	11.9	0.05	4.8	8.7
4/23/2013	XX	LFXXXX5J7		0.009	42.8	0.05	8.4	0.05 U	4	6.7
7/30/2013	XX	LFXXXX65C		0.016	48.5	0.08	9.4	0.05 U	3.4	6.2

(LF-UD-5and6)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/29/2013	XX	LFXXXX681		0.009	56.1	0.05 U	11.4	0.05 U	3.9	7.7
4/22/2014	XX	LFXXXX6G8		0.015	55.5	0.05 U	10.9	0.05 U	3.6	7.6
7/29/2014	XX	LFXXXX70A		0.014	64.7	0.05 U	12	0.05 U	4.2	8.3
10/21/2014	XX	LFXXXX73J		F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79I		0.015	55.8	0.05 U	11.2	0.05 U	3.4	8.3
7/14/2015	XX	LFXXXX7DA		I	I	I	I	I	I	I
10/27/2015	XX	LFXXXX7IH		0.01	47.4	0.05 U	10.1	0.05 U	4.2	8
4/5/2016	XX	LFXXXX879		0.016	54.5	0.05 U	10.4	0.05 U	3.3	8.3
7/26/2016	XX	LFXXXX8BJ		0.024	62.3	0.05 U	12.5	0.05 U	3.8	8.8
10/25/2016	XX	LFXXXX8JH		0.005 U	52.6	0.05 U	9.8	0.05 U	2.9	6.9
4/18/2017	XX	LFXXXX984		0.005 U	39	0.09	10	0.05 U	3	8.1
7/25/2017	XX	LFXXXX9E1		0.005 U	55	0.05 U	12	0.05 U	3.5	9.4
10/25/2017	XX	LFXXXX9HG		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3G	UF	0.007	38	0.05 U	10	0.05 U	2.6	8
7/17/2018	XX	LFXXXXACG	UF	0.005	52	0.05 U	9.7	0.05 U	2.7	7.2
10/2/2018	XX	LFXXXXB1E	UF	0.005 U	54	0.62	12	0.05 U	3.1	9.2
4/23/2019	XX	LFXXXXB6C	UF	0.005 U	42	0.05 U	9.5	0.05 U	2.4	7.5
7/16/2019	XX	LFXXXXBD3	UF	0.005 U	45	0.05 U	10	0.05 U	2.7	8.5
10/29/2019	XX	LFXXXXBIF	UF	0.005 U	40	0.88	9.1	0.05	2.5	7.4
4/28/2020	XX	LFXXXXCE3	UF	0.005 U	43	0.05 U	9.5	0.05 U	2.4	7.7
7/21/2020	XX	LFXXXXCIG	UF	0.005 U	50	0.05 U	11	0.05 U	3.1	9
10/27/2020	XX	LFXXXXD3J		F6	F6	F6	F6	F6	F6	F6
LF-UD-6										
4/26/2011	XX	LFUD6X4B6		0.02	81.2	0.02 U	16.7	0.02 U	5	11.3
7/19/2011	XX	LFUD6X4F4		0.003 J	83.1	6.28	17.6	0.17	5.9	9.6
10/25/2011	XX	LFUD6X4G9		0.006	94.1	0.02 U	18.6	0.02 U	5.1	8.7
4/24/2012	XX	LFUD6X539		0.007	75.7	0.05 U	15.9	0.05 U	4.7	7.9
7/24/2012	XX	LFUD6X586		0.011	96.4	0.05 U	22.2	0.05 U	5.3	26.5
10/23/2012	XX	LFUD6X5C9		0.025	83.7	0.05 U	23.7	0.05 U	5.1	64.1
4/23/2013	XX	LFUD6X5J9		0.015	62	0.05 U	14.7	0.05 U	3.3	39.7
7/30/2013	XX	LFUD6X65E		0.023	86.3	0.05 U	24.2	0.05 U	4.3	74.3
10/29/2013	XX	LFUD6X683		0.019	85.6	0.06	25.4	0.05 U	4.4	73.6
4/22/2014	XX	LFUD6X6GA		0.019	72.7	0.05 U	21	0.05 U	4.6	57.3
7/29/2014	XX	LFUD6X70C		0.026	80.5	0.05 U	22.5	0.05 U	4.1	69.1
10/21/2014	XX	LFUD6X740		0.019	87.9	0.05 U	23.3	0.05 U	4.1	70.9
4/28/2015	XX	LFUD6X7A0		0.026	76.5	0.05 U	21.5	0.05 U	4	66.4
7/14/2015	XX	LFUD6X7DC		0.021	87.3	0.05 U	22	0.05 U	4.1	67.6
10/27/2015	XX	LFUD6X7IJ		0.017	84.2	0.05 U	23.7	0.05 U	4.4	66.6
4/5/2016	XX	LFUD6X87B		0.023	79.1	0.05 U	21.8	0.05 U	4.3	64.1
7/26/2016	XX	LFUD6X8C1		D	D	D	D	D	D	D
10/25/2016	XX	LFUD6X8JJ		I	I	I	I	I	I	I
4/18/2017	XX	LFUD6X986		0.005	58	0.23	15	0.05 U	4.8	14
7/25/2017	XX	LFUD6X9E3		I	I	I	I	I	I	I
10/25/2017	XX	LFUD6X9HI		0.005	80	0.05	6.8	0.05 U	2.6	1
4/3/2018	XX	LFUD6XA3I	UF	0.005	48	0.05 U	6.7	0.05 U	2.2	4.6
7/17/2018	XX	LFUD6XACI	UF	0.005	53	0.05 U	7.1	0.05 U	1.9	1.1
10/2/2018	XX	LFUD6XB1G	UF	0.005 U	47	0.05 U	6.6	0.05 U	1.9	1.4
4/23/2019	XX	LFUD6XB6E	UF	0.005	59	0.05 U	7.4	0.05 U	2.4	2
7/16/2019	XX	LFUD6XBD5	UF	0.005 U	24	0.05 U	3.3	0.05 U	1.7	0.9

(LF-UD-6)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/29/2019	XX	LFUD6XBIH	UF	0.005 U	24	0.1	2.9	0.68	5.3	0.5
4/28/2020	XX	LFUD6XCE5	UF	0.005 U	52	0.05 U	6	3.3	5.7	1.9
7/21/2020	XX	LFUD6XCII		D	D	D	D	D	D	D
10/27/2020	XX	LFUD6XD41		F6	F6	F6	F6	F6	F6	F6

LF-UD-7

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/24/2012	XX	LFUD7X53A		H2	H2	H2	H2	H2	H2	H2
7/24/2012	XX	LFXXXX587		F6	F6	F6	F6	F6	F6	F6
10/23/2012	XX	LFXXXX5EF		F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LFUD7X5JA		F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LFUD7X65F		F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LFUD7X684		F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD7X6GB		F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LFUD7X70D		F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LFUD7X741		F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD7X7A1		F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LFUD7X7DD		F6	F6	F6	F6	F6	F6	F6
10/27/2015	XX	LFUD7X7J0		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD7X87C		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD7X8C2		F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD7X900		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987		F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LFUD7X9E4		F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LFUD7X9HJ		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J		F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFUD7XACJ		F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LFUD7XB1H		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD7XBD6		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD7XBII		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD7XCIJ		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD7XD42		F6	F6	F6	F6	F6	F6	F6

LF-UD-8

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/23/2013	XX	LFUD8X5JD		0.014	39.3	0.05 U	9	0.05 U	3.7	6.9
7/30/2013	XX	LFUD8X65G		0.013	50.1	0.05 U	10.7	0.05 U	3.7	7.1
10/29/2013	XX	LFUD8X685		0.009	49.1	0.05 U	11.1	0.05 U	3.7	7.3
4/22/2014	XX	LFUD8X6GC		F12	F12	F12	F12	F12	F12	F12
7/29/2014	XX	LFUD8X70E		0.005	14.5	0.85	1.6	0.05 U	1.2	2.4
10/21/2014	XX	LFUD8X742		0.005 U	9.6	0.44	1.2	0.05 U	1.1	2.1
4/28/2015	XX	LFUD8X7A2		0.005 U	11	0.75	1.1	0.05 U	1.5	2.9
7/14/2015	XX	LFUD8X7DE		I	I	I	I	I	I	I
10/27/2015	XX	LFUD8X7J1		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD8X87D		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD8X8C3		F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD8X901		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988		0.005 U	5.3	0.61	0.8	0.11	1.1	3.7
7/25/2017	XX	LFUD8X9E5		D	D	D	D	D	D	D
10/25/2017	XX	LFUD8X9I0		F6	F6	F6	F6	F6	F6	F6

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(LF-UD-8)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/3/2018	XX	LFUD8XA40	UF	0.005 U	8.3	0.48	1.1	0.15	0.8	2.2
7/17/2018	XX	LFUD8XAD0		D	D	D	D	D	D	D
10/2/2018	XX	LFUD8XB1I		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD8XB6G	UF	0.005 U	8.7	1.1	1.3	0.1	1.6	3.5
7/16/2019	XX	LFUD8XBD7	UF	0.005 U	6.4	1.5	1	0.05 U	1.4	2.6
10/29/2019	XX	LFUD8XBIJ	UF	0.005 U	4.8	0.35	0.8	0.05 U	0.9	1.3
4/28/2020	XX	LFUD8XCE7		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD8XCJ0		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD8XD43		F6	F6	F6	F6	F6	F6	F6

LF-UD-9

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/5/2016	XX	LFUD9X881		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LFUD9X8CA		F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LFUD9X905		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F		0.007	55	1.4	6.8	0.06	4.3	6.5
10/25/2017	XX	LFUD9X9I4		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD9XA47		F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFUD9XAD4		D	D	D	D	D	D	D
10/2/2018	XX	LFUD9XB22		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFUD9XBDD		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFUD9XBJ3		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFUD9XCJ6		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFUD9XD47		F6	F6	F6	F6	F6	F6	F6

LF-UD-10

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
10/25/2017	XX	LFXXXX9ID		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA48		F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LFU10XAD6		D	D	D	D	D	D	D
10/3/2018	XX	LFXXXXB27		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74		F6	F6	F6	F6	F6	F6	F6
7/16/2019	XX	LFXXXXBDE		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LFXXXXBJ7		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE		F6	F6	F6	F6	F6	F6	F6
7/21/2020	XX	LFXXXXCJ7		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LFXXXXD4B		F6	F6	F6	F6	F6	F6	F6

LP-UD-1

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/26/2011	XX	LPUD1X4A4		F6	F6	F6	F6	F6	F6	F6
7/19/2011	XX	LPUD1X4E2		F6	F6	F6	F6	F6	F6	F6
10/25/2011	XX	LPUD1X4HH		F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LPUD1X527		F6	F6	F6	F6	F6	F6	F6
7/24/2012	XX	LPUD1X576		F6	F6	F6	F6	F6	F6	F6
10/23/2012	XX	LPUD1X5DH		F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LPUD1X5I8		F6	F6	F6	F6	F6	F6	F6
7/30/2013	XX	LPUD1X64D		F6	F6	F6	F6	F6	F6	F6
10/29/2013	XX	LPUD1X676		F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LPUD1X6F9		F6	F6	F6	F6	F6	F6	F6
7/29/2014	XX	LPUD1X6JG		F6	F6	F6	F6	F6	F6	F6
10/21/2014	XX	LPUD1X737		F6	F6	F6	F6	F6	F6	F6

(LP-UD-1)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/28/2015	XX	LPUD1X794		F6	F6	F6	F6	F6	F6	F6
7/14/2015	XX	LPUD1X7CG		F6	F6	F6	F6	F6	F6	F6
10/26/2015	XX	LPUD1X7I5		F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LPUD1X86F		F6	F6	F6	F6	F6	F6	F6
7/26/2016	XX	LPUD1X8B5		F6	F6	F6	F6	F6	F6	F6
10/25/2016	XX	LPUD1X8J4		F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A		F6	F6	F6	F6	F6	F6	F6
7/25/2017	XX	LPUD1X9D8		F6	F6	F6	F6	F6	F6	F6
10/25/2017	XX	LPUD1X9H3		F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32		F6	F6	F6	F6	F6	F6	F6
7/17/2018	XX	LPUD1XAC3		F6	F6	F6	F6	F6	F6	F6
10/2/2018	XX	LPUD1XB11		F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I	UF	0.005 U	32	0.05	8.7	0.05 U	1.7	5.5
7/16/2019	XX	LPUD1XBCA		F6	F6	F6	F6	F6	F6	F6
10/29/2019	XX	LPUD1XBI3		F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LPUD1XCDA		F6	F6	F6	F6	F6	F6	F6
7/22/2020	XX	LPUD1XCI3		F6	F6	F6	F6	F6	F6	F6
10/27/2020	XX	LPUD1XD37		F6	F6	F6	F6	F6	F6	F6

LP-UD-2

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	LPUD2X4A5		0.008	32.6	0.02 U	10.6	0.02 U	2.4	8.5
7/19/2011	XX	LPUD2X4E3		0.002 J	31.5	2.86	10.2	0.36	2.7	9.3
10/25/2011	XX	LPUD2X4HI		0.002 U	33.1	0.88	10.7	0.08	2.8	9.6
4/24/2012	XX	LPUD2X528		0.006	29.9	0.11	9.7	0.05 U	2.9	8.5
7/24/2012	XX	LPUD2X577		0.008	40.5	0.05 U	11.7	0.05 U	3.2	9.7
10/23/2012	XX	LPUD2X5DI		0.012	29.9	0.05 U	10	0.05 U	2.4	9
4/23/2013	XX	LPUD2X5I9		0.011	33.9	0.05 U	10.4	0.05 U	2.3	8
7/30/2013	XX	LPUD2X64E		0.011	37.1	0.05 U	10.8	0.05 U	2.5	8.1
10/29/2013	XX	LPUD2X677		0.01	36.4	0.05 U	11.4	0.05 U	2.2	7.9
4/22/2014	XX	LPUD2X6FA		0.011	37.7	0.05 U	11.5	0.05 U	2.3	8
7/29/2014	XX	LPUD2X6JH		0.015	36.5	0.05 U	10	0.05 U	2.8	8.2
10/21/2014	XX	LPUD2X738		0.011	40.1	0.05 U	10.5	0.05 U	2.3	8
4/28/2015	XX	LPUD2X795		0.013	34.4	0.05 U	10	0.05 U	1.8	7
7/14/2015	XX	LPUD2X7CH		0.01	39.3	0.05 U	9.8	0.05 U	2.4	7.6
10/27/2015	XX	LPUD2X7I6		0.01	33.4	0.05 U	10.3	0.05 U	2.1	7
4/5/2016	XX	LPUD2X86G		0.013	33.8	0.05 U	9.3	0.05 U	1.7	6.4
7/26/2016	XX	LPUD2X8B6		0.024	45.8	0.11	11.3	0.19	3.4	8.2
10/25/2016	XX	LPUD2X8J5		0.005 U	68.2	2.36	15.9	0.8	3.3	10.4
4/18/2017	XX	LPUD2X97B		0.005	49	0.05 U	16	0.05 U	2.1	11
7/25/2017	XX	LPUD2X9D9		0.005 U	37	0.05 U	11	0.05 U	2.4	7.5
10/25/2017	XX	LPUD2X9H4		0.005 U	38	0.1	10	0.05 U	2.2	7
4/3/2018	XX	LPUD2XA33	UF	0.005 U	34	0.05 U	11	0.05 U	2	7
7/17/2018	XX	LPUD2XAC4	UF	0.007	38	0.05 U	9.5	0.05 U	2.1	6.5
10/2/2018	XX	LPUD2XB12	UF	0.005 U	41	0.05 U	11	0.05 U	2.1	7.3
4/23/2019	XX	LPUD2XB5J	UF	0.005 U	33	0.05 U	8.8	0.05 U	1.8	5.6
7/16/2019	XX	LPUD2XBCB	UF	0.005 U	32	0.05 U	9.9	0.05 U	2.3	7.3
10/29/2019	XX	LPUD2XBI4	UF	0.005 U	34	0.05 U	9.2	0.05 U	2.1	6.3
4/28/2020	XX	LPUD2XCDB	UF	0.005 U	36	0.05 U	10	0.05 U	1.7	6.1
7/21/2020	XX	LPUD2XCI4	UF	0.005 U	38	0.17	12	0.05 U	2.8	7.9
10/27/2020	XX	LPUD2XD38	UF	0.005 U	40	0.61	12	0.05 U	2.1	7.4

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(MW04-102)

MW04-102

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/25/2011	XX	GW102X4AG		0.005	26.3	0.02 J	7.5	0.02 U	1.7	6.9
7/19/2011	XX	GW102X4EE		0.002 U	26.8	0.02 U	7.2	0.02 U	1.7	7.1
10/25/2011	XX	GW102X4I9		0.004 J	25.4	0.02 U	7.5	0.02 U	2	7.6
4/24/2012	XX	GW102X52J		0.005	23.5	0.05 U	7.8	0.05 U	1.7	6.9
7/24/2012	XX	GW102X57I		0.005 U	25	0.05 U	7.6	0.05 U	1.9	7.9
10/22/2012	XX	GW102X5E9		0.005 U	31.2	0.05 U	8.1	0.05 U	2	8.9
4/23/2013	XX	GW102X5J0		0.008	24.2	0.05 U	7	0.05 U	1.6	7.1
7/31/2013	XX	GW102X655		0.017	27.5	0.05 U	7.4	0.05 U	1.5	7
10/28/2013	XX	GW102X67F		0.013	25.6	0.05 U	7.1	0.05 U	2.1	8.2
4/23/2014	XX	GW102X6G1		0.01	27.4	0.05 U	6.9	0.05 U	1.5	7.2
7/30/2014	XX	GW102X704		0.01	27.1	0.05 U	6.9	0.05 U	1.8	7.9
10/21/2014	XX	GW102X73F		0.012	27	0.05 U	7	0.05 U	1.8	7.5
4/29/2015	XX	GW102X79C		0.015	26.6	0.05 U	7	0.05 U	1.5	7.2
7/14/2015	XX	GW102X7D4		0.009	26.5	0.05 U	6.3	0.05 U	1.5	7
10/28/2015	XX	GW102X7ID		0.006	24.3	0.05 U	6.6	0.05 U	1.7	7
4/5/2016	XX	GW102X873		0.008	26	0.05 U	6.5	0.05 U	1.4	6.8
7/26/2016	XX	GW102X8BD		0.013	28.2	0.06	7	0.05 U	1.7	7.3
10/25/2016	XX	GW102X8JC		0.005	30	0.19	7.2	0.05 U	2.4	8.7
4/19/2017	XX	GW102X97I		0.006	25	0.05 U	7.1	0.05 U	1.6	6.9
7/26/2017	XX	GW102X9DG		0.005 U	24	0.05 U	6.4	0.05 U	1.6	7.3
10/25/2017	XX	GW102X9HB		0.005 U	28	0.12	7.1	0.05 U	1.9	8.4
4/4/2018	XX	GW102XA3A	UF	0.005 U	25	0.11	7.1	0.05 U	1.4	7.5
7/18/2018	XX	GW102XACB	UF	0.005 U	28	0.09	7	0.05 U	1.7	7.9
10/3/2018	XX	GW102XB19	UF	0.005 U	27	0.05 U	6.9	0.05 U	1.7	7
4/24/2019	XX	GW102XB66	UF	0.005	26	0.14	7.1	0.05 U	1.5	7.1
7/17/2019	XX	GW102XBCH	UF	0.005 U	24	0.05 U	7.1	0.05 U	1.7	7.9
10/28/2019	XX	GW102XBIA	UF	0.005	24	0.05 U	6.6	0.05 U	1.6	6.9
4/27/2020	XX	GW102XCDH	UF	0.005 U	28	0.05 U	7.5	0.05 U	1.5	7.2
7/20/2020	XX	GW102XCIA	UF	0.005 U	25	0.06	6.9	0.05 U	2	8
10/26/2020	XX	GW102XD3E	UF	0.005 U	26	0.05 U	6.9	0.05 U	1.4	8

MW04-105

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	GW105X4AH		0.01	27.2	0.03 J	10	0.02 U	1.4	13.4
4/26/2011	XD	GWDP3X49F		0.012	27.4	0.02 J	9.7	0.02 U	1.5	13.3
7/18/2011	XX	GW105X4EF		0.006	28.3	0.02 U	10.9	0.02 J	1.3	14.9
10/25/2011	XX	GW105X4IA		0.002 U	22.7	0.02 U	8.4	0.05	1.3	11
10/25/2011	XD	GWDP1X4GH		0.002 U	26.3	0.03 J	9.8	0.03 J	1.5	13
4/23/2012	XX	GW105X530		0.005 U	23.7	0.05 U	9.1	0.05 U	1.5	12.1
4/23/2012	XD	GWDP3X51I		0.005 U	21.9	0.05 U	9	0.05 U	1.5	12
7/24/2012	XX	GW105X57J		0.005 U	27	0.05 U	11.3	0.08	1.4	12.4
10/22/2012	XX	GW105X5EA		0.007	27	0.05 U	9.2	0.59	1.3	8.7
10/22/2012	XD	GWDP1X5CH		0.006	22.4	0.05 U	8.7	0.53	1.3	8.4
4/24/2013	XX	GW105X5J1		0.012	25.9	0.05 U	9.1	0.05 U	1.3	8.4
4/24/2013	XD	GWDP3X5HJ		0.01	25.8	0.05 U	9.1	0.05 U	1.3	8.6

MW04-109R

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	GW109X4AI		0.014	62.7	0.02 U	11.8	0.02 J	2.2	9.1
7/19/2011	XX	GW109X4EG		0.01	55.7	0.02 U	10.7	0.03 J	2.1	8.3
10/25/2011	XX	GW109X4IB		0.002 U	57.7	0.02 U	11	0.03 J	2.2	9.6

(MW04-109R)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/24/2012	XX	GW109X531		0.008	50.3	0.05 U	10.1	0.05 U	2.2	10.6
7/24/2012	XX	GW109X580		0.009	52.8	0.05 U	10.9	0.05 U	2.2	10
10/23/2012	XX	GW109X5EB		0.017	54	0.05 U	11	0.06	2	9.8
4/23/2013	XX	GW109X5J2		0.017	54.1	0.05 U	9.7	0.05 U	2	9
7/30/2013	XX	GW109X657		0.016	62.5	0.05 U	10.8	0.1	1.8	8.2
10/29/2013	XX	GW109X67G		0.015	58.5	0.05 U	10.9	0.15	1.9	8.4
4/22/2014	XX	GW109X6G3		0.019	60.1	0.05 U	9.9	0.13	2	7.5
7/29/2014	XX	GW109X705		0.018	62.1	0.05 U	10.5	0.31	1.9	7.7
10/21/2014	XX	GW109X73G		0.014	62.8	0.05 U	10.4	0.35	2	7.2
4/28/2015	XX	GW109X79D		0.019	63.4	0.05 U	10.4	0.33	1.8	6.9
7/14/2015	XX	GW109X7D5		0.015	57.3	0.05 U	9.4	0.5	1.7	6.5
10/27/2015	XX	GW109X7IE		0.017	54	0.05 U	10.8	0.64	2	7.3
4/5/2016	XX	GW109X874		0.024	61.2	0.05 U	9.5	0.58	1.7	6.1
7/26/2016	XX	GW109X8BE		0.031	62.9	0.05 U	11.1	0.85	1.9	7.3
10/25/2016	XX	GW109X8JD		0.005	65.9	0.05 U	11.1	0.98	2.3	7.8
4/18/2017	XX	GW109X97J		0.005 U	62	0.05 U	12	0.78	2	6.9
7/25/2017	XX	GW109X9DH		0.005 U	68	0.05 U	12	1.4	2.1	6.9
10/24/2017	XX	GW109X9HC		0.006	69	0.05 U	12	1.4	2	7.1
4/3/2018	XX	GW109XA3B	UF	0.005 U	67	0.05 U	13	0.48	2.2	7.8
7/17/2018	XX	GW109XACC	UF	0.005	67	0.05 U	12	1.1	1.8	6.4
10/2/2018	XX	GW109XB1A	UF	0.005 U	67	0.05 U	12	1.3	2.1	7.5
4/23/2019	XX	GW109XB67	UF	0.005 U	64	0.05 U	13	0.53	1.9	6.8
7/16/2019	XX	GW109XBCI	UF	0.005 U	65	0.05 U	13	1.2	1.9	7.4
10/29/2019	XX	GW109XBIB	UF	0.005 U	60	0.05 U	12	1.3	2.3	7.5
4/28/2020	XX	GW109XCDI	UF	0.005 U	59	0.05 U	12	0.37	1.8	6.5
7/21/2020	XX	GW109XCIB	UF	0.005 U	58	0.05 U	13	0.96	2.3	7.6
10/27/2020	XX	GW109XD3F	UF	0.005 U	53	0.05 U	11	1.3	1.7	7

MW06-01

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/10/2018	XD	GWDP1XA68	UF	0.005 U	8.7	0.05 U	2.5	0.05 U	0.4	2.7
4/10/2018	XX	GWXXXXA70	UF	0.005 U	8.6	0.05 U	2.4	0.05 U	0.4	2.7
6/4/2018	XX	GWXXXXA7H	UF	0.005 U	11	0.05 U	3	0.05 U	0.4	2.9
7/18/2018	XX	GWXXXXAEF	UF	0.005 U	10	0.05 U	2.6	0.05 U	0.4	2.8
8/20/2018	XD	GWDP1XAF4	UF	0.005 U	9.2	0.05 U	2.4	0.05 U	0.4	2.6
8/20/2018	XX	GWXXXXAFG	UF	0.005 U	9	0.05 U	2.5	0.05 U	0.4	2.5
4/24/2019	XX	GWXXXXB7D	UF	0.005 U	8.4	0.66	2.6	0.05 U	0.6	2.7
7/18/2019	XX	GWXXXXBE1	UF	0.005 U	9	0.05 U	3.2	0.05 U	0.6	3.4
10/30/2019	XX	GWXXXXBJ8	UF	0.005 U	8.5	0.05 U	2.5	0.05 U	0.5	2.7
4/29/2020	XX	GWXXXXCF1	UF	0.005 U	9.5	0.05 U	2.7	0.05 U	0.6	2.9
7/22/2020	XX	GWXXXXCJE	UF	0.005 U	8.9	0.05 U	2.9	0.05 U	0.9	3.5
10/28/2020	XX	GWXXXXD4C	UF	0.005 U	9.3	0.05 U	2.9	0.05 U	0.5	3.4

MW-204

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	GW204X4A9		0.009	19.5	0.02 U	6.3	0.02 U	1	6.7
7/19/2011	XX	GW204X4E7		0.01	20	0.02 U	5.9	0.02 J	0.9	7
10/26/2011	XX	GW204X4I2		0.002 U	19.8	0.02 U	5.6	0.02 U	1	6.7
4/24/2012	XX	GW204X52C		0.005	16.7	0.05 U	5.6	0.05 U	0.9	6.2
7/23/2012	XX	GW204X57B		0.005 U	18.4	0.25	5.7	0.05 U	0.9	7
10/24/2012	XX	GW204X5E2		0.005	17.9	0.05	6.4	0.05 U	1	7.8
4/24/2013	XX	GW204X5ID		0.008	19.6	0.05 U	6	0.05 U	0.9	6.8

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(MW-206)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
MW-206										
4/25/2011	XX	GW206X48I		0.009	16.4	0.32	5.1	0.02 J	0.9	5
7/18/2011	XX	GW206X4CG		0.005	16.3	0.91	4.9	0.04 J	0.9	5.2
10/24/2011	XX	GW206X4GB		0.005	15.9	0.18	5	0.02 U	0.8	5
4/23/2012	XX	GW206X511		0.006	15.2	0.29	5.2	0.05 U	0.9	5.5
7/23/2012	XX	GW206X560		0.006	14.8	0.13	4.6	0.05 U	0.8	4.6
7/23/2012	XD	GWDP4X573		0.005	14.7	0.24	4.6	0.05 U	0.8	4.7
10/22/2012	XX	GW206X5CB		0.01	17.6	0.33	5.3	0.05 U	0.8	5.3
4/22/2013	XX	GW206X5H2		0.008	14.5	0.05 U	4.8	0.05 U	0.8	5.1
7/29/2013	XX	GW206X637		0.008	15.7	0.05 U	4.7	0.05 U	0.6	4.1
7/29/2013	XD	GWDP4X64A		0.008	15.4	0.05 U	4.7	0.05 U	0.6	4.3
10/28/2013	XX	GW206X660		0.013	16	0.05 U	4.9	0.05 U	0.9	5.2
4/21/2014	XX	GW206X6E3		0.007	16.3	0.08	4.8	0.05 U	0.8	4.8
7/28/2014	XX	GW206X6IB		0.01	16.2	0.05 U	4.5	0.05 U	0.7	4.7
7/28/2014	XD	GWDP1X6IG		0.009	16.1	0.05 U	4.5	0.05 U	0.7	4.6
10/20/2014	XX	GW206X721		0.014	16.3	0.05 U	4.3	0.05 U	0.7	4.3
4/27/2015	XX	GW206X77J		0.01	16.2	0.19	4.6	0.05 U	0.7	4.4
7/13/2015	XX	GW206X7BB		0.012	17.5	0.05 U	4.8	0.05 U	0.7	4.7
7/13/2015	XD	GWDP3X7C7		0.016	15.7	0.05 U	4.3	0.05 U	0.6	4.2
10/26/2015	XX	GW206X7H0		0.016	14.9	0.05 U	4.7	0.05 U	0.7	4.7
4/4/2016	XX	GW206X85A		0.005	15.9	0.05 U	4.5	0.05 U	0.7	4.2
7/25/2016	XD	GWDP4X8B2		0.021	17.3	0.05 U	4.8	0.05 U	0.7	4.3
7/25/2016	XX	GW206X8A0		0.022	16.9	0.05 U	4.7	0.05 U	0.7	4.3
10/24/2016	XX	GW206X8HJ		0.008	17.5	0.05 U	5	0.05 U	0.9	4.8
4/17/2017	XX	GW206X965		0.01	17	0.05	5.2	0.05 U	0.8	5
7/24/2017	XD	GWDP4X9D5		0.008	16	0.05 U	4.8	0.05 U	0.5	4.3
7/24/2017	XX	GW206X9C3		0.005 U	16	0.05 U	4.8	0.05 U	0.6	4.4
10/23/2017	XX	GW206X9FI		0.007	17	0.05	5.1	0.05 U	0.8	4.8
4/2/2018	XX	GW206XA1G	UF	0.008	19	0.3	5.9	0.05 U	0.9	5.5
7/16/2018	XD	GWDP4XAC0	UF	0.008	17	0.05 U	4.9	0.05 U	0.8	4.5
7/16/2018	XX	GW206XAAI	UF	0.007	17	0.09	4.8	0.05 U	0.7	4.5
10/1/2018	XX	GW206XAJG	UF	0.007	18	0.05	5.3	0.05 U	0.7	4.8
4/22/2019	XX	GW206XB4C	UF	0.005	18	0.25	5.3	0.05 U	0.7	4.6
7/17/2019	XX	GW206XBB5	UF	0.006	16	0.05 U	5.4	0.05 U	0.8	5.2
10/28/2019	XX	GW206XBGJ	UF	0.006	16	0.05	4.8	0.05 U	0.8	4.5
4/27/2020	XX	GW206XCC5	UF	0.006	18	0.09	5.2	0.05 U	0.7	4.6
7/20/2020	XX	GW206XCGI	UF	0.005	16	0.05 U	4.9	0.05 U	0.8	4.7
10/26/2020	XX	GW206XD23	UF	0.005	16	0.2	4.8	0.05 U	0.4	4.3
MW-223A										
4/26/2011	XX	GW223A491		0.011	53.3	0.02 U	6	0.02 U	0.7	3.7
4/26/2011	XD	GWDP1X494		0.012	53.4	0.02 U	6	0.02 U	0.7	3.9
7/19/2011	XX	GW223A4CJ		0.005	58.4	0.02 U	6.1	0.02 U	0.7	3.5
10/25/2011	XX	GW223A4GE		0.002 U	55.9	0.02 U	6.4	0.02 U	0.8	4.1
10/25/2011	XD	GWDP3X4H8		0.002 U	56.8	0.02 U	6.6	0.02 U	0.8	4.1
4/24/2012	XX	GW223A514		0.005	54.4	0.05 U	6.5	0.05 U	0.7	4
4/24/2012	XD	GWDP1X517		0.006	57.9	0.05 U	6.5	0.05 U	0.7	3.7
7/24/2012	XX	GW223A563		0.005 U	60.7	0.05 U	7.2	0.05 U	0.8	4.4
10/23/2012	XX	GW223A5CE		0.008	61.5	0.05 U	7.2	0.05 U	0.7	4.3

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(MW-223A)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/23/2012	XD	GWDP3X5D8		0.007	57.4	0.05 U	7.1	0.05 U	0.7	4.5
4/23/2013	XX	GW223A5H5		0.012	68.1	0.05 U	8	0.05 U	0.9	4.7
4/23/2013	XD	GWDP1X5H8		0.011	65.3	0.05 U	7.8	0.05 U	0.8	4.4
7/30/2013	XX	GW223A63A		0.01	73.8	0.05 U	7.7	0.05 U	0.7	4
10/29/2013	XX	GW223A663		0.013	74.1	0.05 U	9.1	0.05 U	0.8	4.7
10/29/2013	XD	GWDP3X66H		0.012	67.5	0.05 U	8.2	0.05 U	0.8	4.4
4/22/2014	XX	GW223A6E6		0.014	78.7	0.05 U	8.5	0.05 U	0.8	4.5
4/22/2014	XD	GWDP1X6E9		0.015	80.3	0.05 U	8.7	0.05 U	0.8	4.7
7/29/2014	XX	GW223A6ID		0.016	77.2	0.05 U	8	0.05 U	0.8	4.5
10/21/2014	XX	GW223A723		0.007	73.2	0.05 U	7.8	0.05 U	0.8	4.5
10/21/2014	XD	GWDP3X72I		0.009	73.6	0.05 U	7.5	0.05 U	0.8	4.3
4/28/2015	XX	GW223A781		0.012	75.4	0.05 U	8.2	0.05 U	0.8	4.6
4/28/2015	XD	GWDP1X784		0.013	75.4	0.05 U	8.1	0.05 U	0.8	4.6
7/14/2015	XX	GW223A7BD		0.015	76	0.05 U	7.5	0.05 U	0.8	4.3
10/27/2015	XX	GW223A7H2		0.01	71.3	0.05 U	8.3	0.05 U	0.8	4.7
4/27/2016	XX	GW223A85C		0.034	85.6	0.05 U	8.9	0.05 U	0.8	4.8
7/26/2016	XX	GW223A8A2		0.021	83.9	0.05 U	9.1	0.05 U	0.9	4.9
10/25/2016	XX	GW223A8I1		0.006	89.3	0.05 U	9	0.05 U	0.9	5.1
4/18/2017	XX	GW223A967		0.005	78	0.05 U	9.6	0.05 U	0.9	5.1
7/25/2017	XX	GW223A9C5		0.005 U	93	0.05 U	10	0.05 U	0.9	5.6
10/24/2017	XX	GW223A9G0		0.005	93	0.05 U	10	0.05 U	0.9	5.5
4/3/2018	XX	GW223AA1I	UF	0.005 U	86	0.05 U	11	0.05 U	1	5.9
7/17/2018	XX	GW223AAB0	UF	0.006	91	0.05 U	8.9	0.05 U	0.7	4.3
10/2/2018	XX	GW223AAJI	UF	0.005 U	98	0.05 U	11	0.05 U	0.9	6
4/23/2019	XX	GW223AB4E	UF	0.005 U	91	0.05 U	10	0.05 U	0.9	5.4
7/16/2019	XX	GW223ABB7	UF	0.005 U	89	0.05 U	10	0.05 U	1	6
10/29/2019	XX	GW223ABH0	UF	0.005 U	92	0.05 U	10	0.05 U	1	5.4
4/28/2020	XX	GW223ACC7	UF	0.005 U	100	0.05 U	11	0.05	1	5.6
7/21/2020	XX	GW223ACH0	UF	0.005 U	94	0.05 U	11	0.05 U	1.2	6.2
10/27/2020	XX	GW223AD24	UF	0.005 U	100	0.05 U	11	0.05 U	0.9	6.2

MW-223B

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	GW223B4AA		0.013	40.2	0.02 J	10.3	0.02 U	0.7	4.3
7/19/2011	XX	GW223B4E8		0.005	37.8	0.04 J	9.5	0.04 J	1.7	4.1
7/19/2011	XD	GWDP3X4DD		0.006	36.1	0.04 J	9.7	0.05	1.9	4.3
10/25/2011	XX	GW223B4I3		0.002 U	38.5	0.49	10.6	0.07	2	4.8
4/24/2012	XX	GW223B52D		0.005 U	37	0.24	9.8	0.05 U	0.6	4.2
7/24/2012	XX	GW223B57C		0.005 U	40.5	0.1	11	0.05 U	0.8	4.6
7/24/2012	XD	GWDP3X56H		0.005	43.1	0.08	10.9	0.05 U	0.8	4.6
10/23/2012	XX	GW223B5E3		0.011	39	0.09	10.7	0.05 U	0.7	4.6
4/23/2013	XX	GW223B5IE		0.009	41.3	0.06	11.1	0.05 U	0.7	4.7
7/30/2013	XX	GW223B64J		0.008	46.2	0.12	11.3	0.05 U	0.7	4.3
10/29/2013	XX	GW223B67C		0.008	44.3	0.09	11.5	0.05 U	0.8	4.9
4/22/2014	XX	GW223B6FF		0.011	51.2	0.24	12.3	0.05 U	0.8	4.8
7/29/2014	XX	GW223B700		0.014	50.6	0.05 U	11.9	0.05 U	0.8	4.9
10/21/2014	XX	GW223B73C		0.005 U	49.2	0.06	11	0.05 U	0.8	4.9
4/28/2015	XX	GW223B798		0.012	49.9	0.05	12	0.05 U	0.7	5
7/14/2015	XX	GW223B7D0		0.012	50	0.05	11.7	0.05 U	0.8	4.9
10/27/2015	XX	GW223B7I9		0.009	46.1	0.05 U	12.2	0.05 U	0.8	4.9
4/5/2016	XX	GW223B86J		0.014	52.5	0.51	11.7	0.05 U	0.7	4.8

(MW-223B)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/26/2016	XX	GW223B8B9		0.017	57.2	0.08	13.5	0.05 U	0.8	5.1
10/25/2016	XX	GW223B8J8		0.005 U	61.7	0.05 U	13.5	0.05 U	0.9	5.3
4/18/2017	XX	GW223B97E		0.005 U	52	0.05	14	0.05 U	0.8	5.3
7/25/2017	XX	GW223B9DC		0.005 U	60	0.05 U	15	0.05 U	0.8	5.6
10/24/2017	XX	GW223B9H7		0.005 U	66	0.05 U	15	0.05 U	0.8	5.6
4/3/2018	XX	GW223BA36	UF	0.007	56	0.05 U	15	0.05 U	0.8	5.4
7/17/2018	XX	GW223BAC7	UF	0.005	65	0.05 U	14	0.05 U	0.7	4.7
10/2/2018	XX	GW223BB15	UF	0.005 U	68	0.05 U	16	0.05 U	0.9	6
4/23/2019	XX	GW223BB62	UF	0.005 U	66	0.05	17	0.05 U	0.8	5.8
7/16/2019	XX	GW223BBCD	UF	0.005 U	68	0.05 U	17	0.05 U	1.1	6.4
10/29/2019	XX	GW223BBI6	UF	0.005 U	64	0.05 U	16	0.05 U	0.9	5.5
4/28/2020	XX	GW223BCDD	UF	0.005 U	65	0.05	15	0.05 U	0.8	5
7/21/2020	XX	GW223BCI6	UF	0.005 U	64	0.06	17	0.05 U	0.9	6.1
10/27/2020	XX	GW223BD3A	UF	0.005 U	67	0.15	17	0.05 U	0.9	6.1

MW-227

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	GW227X492		0.019	21.4	0.02 U	5.5	0.02 U	1	5.1
7/19/2011	XX	GW227X4D0		0.012	21.4	0.02 U	5.4	0.02 U	0.9	5.3
10/25/2011	XX	GW227X4GF		0.017	20.5	0.06	5.6	0.02 U	1.1	3.1
4/24/2012	XX	GW227X515		0.012	19.9	0.05 U	5.4	0.05 U	1	5
7/24/2012	XX	GW227X564		0.011	22	0.05 U	5.7	0.05 U	1.1	5.3
10/23/2012	XX	GW227X5CF		0.014	22.4	0.05 U	5.6	0.05 U	1	5.5
4/23/2013	XX	GW227X5H6		0.018	22.1	0.05 U	5.5	0.05 U	1.1	5.4
7/30/2013	XX	GW227X63B		0.017	22.8	0.05 U	5.5	0.05 U	0.8	4.7
7/30/2013	XD	GWDP3X644		0.016	23	0.05 U	5.3	0.05 U	0.8	4.8
10/29/2013	XX	GW227X664		0.017	21	0.05 U	5.5	0.05 U	1	5.5
4/22/2014	XX	GW227X6E7		0.017	24.1	0.05 U	5.8	0.05 U	1.2	5.6
4/22/2014	XD	GWDP3X6F0		0.018	23.4	0.05 U	5.8	0.05 U	1.1	5.5
7/29/2014	XX	GW227X6IE		0.019	23.4	0.05 U	5.4	0.05 U	1	5
7/29/2014	XD	GWDP3X6J7		0.019	22.3	0.05 U	5.3	0.05 U	1	5.2
10/21/2014	XX	GW227X724		0.021	22.7	0.05 U	5.2	0.05 U	1.1	5.4
4/28/2015	XX	GW227X782		0.021	23.2	0.05 U	5.4	0.05 U	1	5.4
4/28/2015	XD	GWDP3X78F		0.018	22.5	0.05 U	5.4	0.05 U	1	5.2
7/14/2015	XX	GW227X7BE		0.015	23.4	0.05 U	5.1	0.05 U	1	5.1
7/14/2015	XD	GWDP1X7BG		0.016	20.9	0.05 U	4.8	0.05 U	1	5
10/27/2015	XX	GW227X7H3		0.015	19.8	0.05 U	5.1	0.05 U	1	5.1
10/27/2015	XD	GWDP1X7H5		0.017	18	0.05 U	5.1	0.05 U	1	5
4/5/2016	XD	GWDP3X866		0.013	22.1	0.05 U	4.8	0.05 U	0.9	4.8
4/5/2016	XX	GW227X85D		0.016	21.8	0.05 U	4.9	0.05 U	0.9	4.9
7/26/2016	XD	GWDP3X8AG		0.023	22.9	0.08	5.6	0.05 U	1.1	5.4
7/26/2016	XX	GW227X8A3		0.024	23	0.09	5.5	0.05 U	1.1	5.2
10/25/2016	XD	GWDP3X8IF		0.012	26.4	0.1	5.5	0.05 U	1.2	5.3
10/25/2016	XX	GW227X8I2		0.012	26	0.1	5.4	0.05 U	1.2	5.4
4/18/2017	XD	GWDP3X971		0.016	22	0.11	6	0.05 U	1.2	5.8
4/18/2017	XX	GW227X968		0.017	20	0.11	5.8	0.05 U	1.1	5.3
7/25/2017	XD	GWDP3X9CJ		0.014	22	0.05 U	5.5	0.05 U	1	5.1
7/25/2017	XX	GW227X9C6		0.011	23	0.08	5.7	0.05 U	1	5.3
10/24/2017	XD	GWDP3X9GE		0.02	25	0.05 U	5.7	0.05 U	1	5.4
10/24/2017	XX	GW227X9G1		0.019	24	0.05 U	5.5	0.05 U	1	5.2
4/3/2018	XD	GWDP3XA2D	UF	0.013	21	0.05	5.6	0.05 U	1.1	5.5

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

(MW-227)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/3/2018	XX	GW227XA1J	UF	0.013	21	0.05 U	5.7	0.05 U	1.1	5.7
7/17/2018	XD	GWDP3XABE	UF	0.016	24	0.05 U	5.1	0.05 U	0.9	4.5
7/17/2018	XX	GW227XAB1	UF	0.014	24	0.05 U	5	0.05 U	0.9	4.7
10/2/2018	XD	GWDP3XB0C	UF	0.013	26	0.05 U	6.2	0.16	1.1	5.8
10/2/2018	XX	GW227XAJJ	UF	0.014	26	0.05 U	6	0.15	1.1	5.9
4/23/2019	XD	GWDP3XB59	UF	0.013	25	0.05	6.1	0.05 U	1.1	5.4
4/23/2019	XX	GW227XB4F	UF	0.015	26	0.08	6	0.05 U	1.1	5.4
7/16/2019	XD	GWDP3XBC1	UF	0.015	22	0.08	5.7	0.05 U	1.1	5.5
7/16/2019	XX	GW227XBB8	UF	0.015	21	0.05	5.3	0.05 U	1	5.4
10/29/2019	XD	GWDP3XBHE	UF	0.012	21	0.13	5.3	0.05 U	1.2	5.1
10/29/2019	XX	GW227XBH1	UF	0.013	22	0.05 U	5.4	0.05 U	1.2	5.4
4/28/2020	XD	GWDP3XCD1	UF	0.011	24	0.06	5.9	0.05 U	1.1	5.3
4/28/2020	XX	GW227XCC8	UF	0.016	23	0.05	5.4	0.05 U	1	4.8
7/21/2020	XD	GWDP3XCHE	UF	0.011	23	0.05	5.8	0.05 U	2.1	5.7
7/21/2020	XX	GW227XCH1	UF	0.013	21	0.05 U	5.8	0.05 U	1.5	5.9
10/27/2020	XD	GWDP3XD2I	UF	0.012	23	0.05 U	5.7	0.05 U	1.1	5.5
10/27/2020	XX	GW227XD25	UF	0.012	22	0.05 U	5.7	0.05 U	1	5.6

MW-301

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/27/2011	XX	GW301X493		0.005	18.1	0.24	4.5	0.02 J	0.7	11.4
7/20/2011	XX	GW301X4D1		0.012	18.5	0.26	4.4	0.02 J	0.7	10.6
10/26/2011	XX	GW301X4GG		0.002 U	18.7	0.27	4.3	0.02 J	0.7	10.7
4/25/2012	XX	GW301X516		0.009	16.9	0.15	4.4	0.05 U	0.7	11.1
7/25/2012	XX	GW301X565		0.006	14.9	0.05 U	4.5	0.05 U	0.7	11.8
10/24/2012	XX	GW301X5CG		0.006	16.7	0.32	4.3	0.05 U	0.6	10.3
10/24/2012	XD	GWDP4X5DE		0.008	17.1	0.31	4.4	0.05 U	0.6	10
4/22/2013	XX	GW301X5H7		!	!	!	!	!	!	!
7/31/2013	XX	GW301X63C		0.01	19.2	0.54	4.8	0.05	0.7	10.4
10/30/2013	XX	GW301X665		0.006	19.3	0.13	4.7	0.05 U	0.6	10.1
10/30/2013	XD	GWDP1X666		0.008	18.7	0.15	4.7	0.05 U	0.6	10.2
4/23/2014	XX	GW301X6E8		0.007	20.7	0.22	4.7	0.05	0.7	11.5
7/30/2014	XX	GW301X6IF		0.006	19.6	0.1	4.8	0.05 U	0.8	12.2
10/22/2014	XX	GW301X725		0.011	19.9	0.05 U	4.6	0.05 U	0.7	11.4
10/22/2014	XD	GWDP1X726		0.01	20.3	0.05	4.8	0.05 U	0.7	11.7
4/29/2015	XX	GW301X783		0.012	19.9	0.05 U	4.9	0.05 U	0.7	12
7/15/2015	XX	GW301X7BF		0.006	19.3	0.06	4.6	0.05 U	0.7	11.7
10/27/2015	XX	GW301X7H4		0.005	17.5	0.05 U	5	0.05 U	0.7	10.7
10/27/2015	XD	GWDP4X7I2		0.007	16.6	0.05 U	5	0.05 U	0.7	10.9
4/27/2016	XX	GW301X85E		0.018	21.9	0.05 U	5.2	0.05 U	0.7	12.2
7/27/2016	XX	GW301X8A4		0.011	21.6	0.56	5.2	0.18	0.7	11.1
10/26/2016	XD	GWDP4X8J1		0.01	20.5	0.12	5.4	0.05 U	0.8	12.5
10/26/2016	XX	GW301X8I3		0.01	20.4	0.1	5.6	0.05 U	0.8	13
4/19/2017	XX	GW301X969		0.006	20	0.07	5.4	0.05 U	0.7	11
7/26/2017	XX	GW301X9C7		0.006	21	0.05 U	5.4	0.05 U	0.8	11
10/25/2017	XD	GWDP4X9H0		0.007	24	0.05	5.9	0.05 U	0.7	12
10/25/2017	XX	GW301X9G2		0.005	24	0.06	5.8	0.05 U	0.8	12
4/4/2018	XX	GW301XA20	UF	0.006	25	0.11	6.2	0.06	0.8	13
7/18/2018	XX	GW301XAB2	UF	0.005 U	25	0.18	6	0.06	0.8	12
10/1/2018	XD	GWDP4XB0I	UF	0.005	25	0.05	6.3	0.05 U	0.7	13
10/1/2018	XX	GW301XB00	UF	0.005 U	25	0.1	6.3	0.05	0.7	13

SEVEE & MAHER ENGINEERS, INC.
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(MW-301)

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
			-	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4/24/2019	XX	GW301XB4G	UF	0.005	24	0.07	6.2	0.05 U	0.8	12
7/17/2019	XX	GW301XBB9	UF	0.005 U	25	0.05 U	6.6	0.05 U	0.9	14
10/28/2019	XD	GWDP4XBI0	UF	0.006	25	0.05 U	6.5	0.05 U	1	12
10/28/2019	XX	GW301XBH2	UF	0.005 U	22	0.1	5.7	0.05 U	0.8	12
4/27/2020	XX	GW301XCC9	UF	0.006	26	0.06	6.6	0.05 U	0.8	14
7/20/2020	XX	GW301XCH2	UF	0.005 U	24	0.18	6.2	0.16	0.8	13
10/26/2020	XD	GWDP4XD34	UF	0.005 U	23	0.14	6.1	0.12	0.4	12
10/26/2020	XX	GW301XD26	UF	0.005 U	22	0.06	5.8	0.06	0.4	12

MW-302R

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/25/2011	XX	GW302X4A8		0.009	29.4	0.02 U	2.6	0.02 U	0.8	14.9
7/18/2011	XX	GW302X4E6		0.009	33.8	0.02 U	3.1	0.02 U	1	20.6
10/24/2011	XX	GW302X4I1		0.002 U	42.2	0.02 U	3.7	0.02 U	1.2	24.7
4/23/2012	XX	GW302X52B		0.005 U	26	0.05 U	2.3	0.05 U	0.8	13.2
7/23/2012	XX	GW302X57A		0.005 U	32.6	0.05 U	2.8	0.05 U	0.9	18.4
10/22/2012	XX	GW302X5E1		0.009	54.6	0.05 U	4.3	0.05 U	1.2	28.6
4/22/2013	XX	GW302X5IC		0.005	21.1	0.05 U	1.8	0.05 U	0.7	11
7/29/2013	XX	GW302X64H		0.005 U	33	0.05 U	3	0.05 U	0.8	17.8
10/28/2013	XX	GW302X67A		0.008	32.6	0.05 U	2.9	0.05 U	1.1	20.3
4/21/2014	XX	GW302X6FD		0.006	38.5	0.05 U	2.9	0.05 U	0.9	16.7
7/28/2014	XX	GW302X6JJ		0.009	50.2	0.05 U	3.6	0.05 U	1	20.8
10/20/2014	XX	GW302X73A		0.015	54.4	0.05 U	4.7	0.05 U	1.2	26.7
4/27/2015	XX	GW302X797		0.006	29.2	0.05 U	2.1	0.05 U	0.7	16.2
7/13/2015	XX	GW302X7CJ		0.01	40.7	0.05 U	3.1	0.05 U	0.9	22.1
10/26/2015	XX	GW302X7I8		0.009	51.3	0.05 U	4	0.05 U	0.9	20.9
4/4/2016	XX	GW302X86I		0.009	30.4	0.05 U	2	0.05 U	0.7	13
7/25/2016	XX	GW302X8B8		0.015	32.9	0.05 U	2.5	0.05 U	0.7	14.9
10/24/2016	XX	GW302X8J7		0.005 U	99.2	0.05 U	8.1	0.05 U	1.5	22.5
4/17/2017	XX	GW302X97D		0.005 U	33	0.05 U	2.6	0.05 U	0.8	17
7/24/2017	XX	GW302X9DB		0.005 U	33	0.05 U	2.7	0.05 U	0.7	20
10/23/2017	XX	GW302X9H6		0.005 U	73	0.05 U	6.1	0.05 U	1.3	28
4/2/2018	XX	GW302XA35	UF	0.005	29	0.05 U	2.5	0.05 U	0.8	20
7/16/2018	XX	GW302XAC6	UF	0.005 U	36	0.05 U	2.9	0.05 U	0.8	20
10/1/2018	XX	GW302XB14	UF	0.005 U	140	0.05 U	8.6	0.1	2.4	35
4/22/2019	XX	GW302XB61	UF	0.005 U	21	0.05 U	1.8	0.05 U	0.6	11
7/17/2019	XX	GW302XBCC	UF	0.005 U	30	0.05 U	3	0.05 U	0.9	26
10/28/2019	XX	GW302XBI5	UF	0.005 U	29	0.05 U	2.5	0.05 U	0.9	22
4/27/2020	XX	GW302XCDC	UF	0.005 U	31	0.05 U	2.5	0.05 U	0.7	18
7/20/2020	XX	GW302XCI5	UF	0.005 U	32	0.05 U	3	0.05 U	0.9	22
10/26/2020	XX	GW302XD39	UF	0.005 U	54	0.05 U	4.6	0.05 U	1	27

MW-303

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/25/2011	XX	GW303X4AC		0.012	21.1	0.07	9.7	0.02 U	0.8	6.9
7/18/2011	XX	GW303X4EA		0.017	18.7	0.04 J	9.2	0.02 J	0.8	6.7
7/18/2011	XD	GWDP4X4DJ		0.02	18.8	0.03 J	9.2	0.02 J	0.8	6.8
10/24/2011	XX	GW303X4I5		0.002 U	23.3	0.02 U	10.9	0.02 U	0.9	7.6
10/24/2011	XD	GWDP4X4HE		0.002 U	22.9	0.02 U	10.2	0.02 U	0.8	7.2
4/23/2012	XX	GW303X52F		0.005 U	25.2	0.07	12.1	0.05 U	1	8.5
7/24/2012	XX	GW303X57E		!	!	!	!	!	!	!

MW12-303R

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(MW12-303R)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/23/2012	XX	GW303X5EG		0.005 U	16.6	0.1	7.8	0.32	1.5	10.4
4/22/2013	XX	GW303X5IG		0.01	21.3	0.05 U	9.5	0.06	2.1	15.9
7/29/2013	XX	GW303X651		0.008	24.3	0.05 U	10	0.05 U	1.5	8.8
10/28/2013	XX	GW303X67D		0.015	23.7	0.05 U	10.3	0.05 U	1.7	9.2
4/21/2014	XX	GW303X6FH		0.013	26.5	0.05 U	10.3	0.05 U	1.6	18.2
7/28/2014	XX	GW303X701		0.01	26.4	0.05 U	10.3	0.05 U	1.5	9.5
10/20/2014	XX	GW303X73D		0.013	28	0.05 U	10.9	0.05 U	1.4	46.8
4/27/2015	XX	GW303X799		0.013	64.2	0.05 U	7.2	1.07	3.1	82.8
6/18/2015	XX	42173-1		0.005 U	45.5	0.09	7.1	0.21	2.3	55.2
7/13/2015	XX	GW303X7D1		0.016	40.6	0.05 U	8.5	0.09	1.7	22.3
10/26/2015	XX	GW303X7IA		0.009	31.8	0.19	7.9	0.31	1.8	29
4/4/2016	XX	GW303X870		0.012	28.8	0.06	2.5	0.05 U	1.4	37.7
7/25/2016	XX	GW303X8BA		0.036	55	0.05 U	9.2	0.05 U	2.3	28.7
10/24/2016	XX	GW303X8J9		0.005 U	61	2.29	5.7	3.13	2.6	60.8
4/17/2017	XX	GW303X97F		0.005 U	46	0.05	4.7	0.05	4.3	39
7/24/2017	XX	GW303X9DD		0.005 U	47	0.05 U	7.4	0.05	4.2	22
10/23/2017	XX	GW303X9H8	FILT	0.006	45	0.05 U	8.2	0.21	3.1	21
4/2/2018	XX	GW303XA37	UF	0.005 U	160	0.08	22	0.16	5.6	110
7/16/2018	XX	GW303XAC8	UF	0.007	56	0.05 U	15	0.05 U	2.2	15
10/1/2018	XX	GW303XB16	UF	0.005 U	46	0.62	14	0.62	2	13
4/22/2019	XX	GW303XB63	UF	0.005 U	60	0.35	8.3	0.76	5.7	25
7/17/2019	XX	GW303XBCE	UF	0.005 U	50	0.05 U	9	0.14	4.3	29
10/28/2019	XX	GW303XBI7	UF	0.005 U	43	0.05 U	5.6	0.1	3.8	20
4/27/2020	XX	GW303XCDE	UF	0.005 U	52	0.13	7.4	0.2	3.2	18
7/20/2020	XX	GW303XCI7	UF	0.005 U	30	0.05 U	6.1	0.06	2.5	11
10/26/2020	XX	GW303XD3B	UF	0.005 U	57	0.05 U	9.5	0.07	3.1	24

MW-401A

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/25/2011	XX	GW401A49H		0.005	14.9	0.02 U	4.5	0.02 U	0.8	4
7/18/2011	XX	GW401A4DF		0.009	14.3	0.02 U	4	0.02 U	0.7	3.7
10/24/2011	XX	GW401A4HA		0.005	14.3	0.02 U	4.2	0.02 U	0.7	3.8
4/23/2012	XX	GW401A520		0.007	12.9	0.05 U	4.3	0.05 U	0.8	4
7/23/2012	XX	GW401A56J		0.005 U	12.1	0.05 U	3.9	0.05 U	0.7	3.5
10/22/2012	XX	GW401A5DA		0.005 U	13	0.05 U	4.4	0.05 U	0.7	4
4/22/2013	XX	GW401A5I1		0.005	13.7	0.05 U	3.9	0.05 U	0.7	4
7/29/2013	XX	GW401A646		0.005 U	14.7	0.05 U	4.1	0.05 U	0.6	3.3
10/28/2013	XX	GW401A66J		0.009	14	0.05 U	4	0.05 U	0.7	3.7
4/21/2014	XX	GW401A6F2		0.006	15.4	0.05 U	4.2	0.05 U	0.7	3.9
7/28/2014	XX	GW401A6J9		0.005	14.7	0.05 U	3.9	0.05 U	0.7	3.7
10/20/2014	XX	GW401A730		0.01	14.5	0.05 U	4	0.05 U	0.6	3.6
4/27/2015	XX	GW401A78H		0.009	15.7	0.06	4.2	0.05 U	0.7	3.9
7/13/2015	XX	GW401A7C9		0.013	15.2	0.05 U	4	0.05 U	0.7	3.9
10/26/2015	XX	GW401A7HI		0.009	15.1	0.05 U	4.1	0.05 U	0.6	3.8
4/27/2016	XX	GW401A868		0.017	16.4	0.05 U	4.3	0.05 U	0.7	3.9
7/25/2016	XX	GW401A8AI		0.018	15.7	0.05 U	4.2	0.05 U	0.7	3.6
10/24/2016	XX	GW401A8IH		0.006	16.5	0.06	4.5	0.05 U	0.8	3.9
4/17/2017	XX	GW401A973		0.007	15	0.05 U	4.4	0.05 U	0.8	3.7
7/24/2017	XX	GW401A9D1		0.005	15	0.05 U	4.2	0.05 U	0.6	3.8
10/25/2017	XX	GW401A9GG		0.008	16	0.05 U	4.3	0.05 U	0.7	3.8
4/2/2018	XX	GW401AA2F	UF	0.005	16	0.05 U	4.7	0.05 U	0.8	4.5

(MW-401A)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/16/2018	XX	GW401AABG	UF	0.006	17	0.05 U	4.3	0.05 U	0.7	3.9
10/1/2018	XX	GW401AB0E	UF	0.006	17	0.05 U	4.6	0.05 U	0.6	4.1
4/22/2019	XX	GW401AB5B	UF	0.005 U	17	0.05 U	4.8	0.05 U	0.8	4.2
7/15/2019	XX	GW401ABC3	UF	0.007	15	0.05 U	4.3	0.05 U	0.6	3.8
10/28/2019	XX	GW401ABHG	UF	0.007	15	0.05 U	4.1	0.05 U	0.7	3.6
4/27/2020	XX	GW401ACD3	UF	0.007	18	0.05 U	4.8	0.05 U	0.7	4
7/20/2020	XX	GW401ACHG	UF	0.005 U	16	0.05 U	4.6	0.05 U	0.8	4.1
10/26/2020	XX	GW401AD30	UF	0.007	17	0.05 U	4.7	0.05 U	0.6	3.7

MW-401B

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/25/2011	XX	GW401B49I		0.016	25.9	0.4	8.3	0.07	1.1	10.5
4/25/2011	XD	GWDP4X4A1		0.019	25.2	0.41	8.1	0.07	1.1	10.3
7/18/2011	XX	GW401B4DG		0.021	26.8	0.54	8.9	0.15	1.1	11.5
7/18/2011	XD	GWDP1X4D2		0.022	27.2	0.54	8.8	0.15	1.1	11.9
10/24/2011	XX	GW401B4HB		0.006	33.7	1.1	10.1	0.16	1.3	13.4
4/23/2012	XX	GW401B521		0.017	25.3	0.19	8.3	0.05	1.1	10.9
4/23/2012	XD	GWDP4X524		0.015	24.6	0.23	9	0.05	1.2	11.7
7/23/2012	XX	GW401B570		0.011	29.9	0.63	8.8	0.16	1.1	11.4
7/23/2012	XD	GWDP1X566		0.014	26.5	0.5	8.4	0.16	1.1	10.8
10/22/2012	XX	GW401B5DB		0.016	34.5	0.99	11	0.2	1.4	14.7
4/22/2013	XX	GW401B5I2		0.013	28.9	0.39	8.7	0.18	1.1	12.9
4/22/2013	XD	GWDP4X5I5		0.012	29.4	0.36	8.7	0.17	1.1	12.5
7/29/2013	XX	GW401B647		0.022	28.8	0.51	8.4	0.22	0.9	10
7/29/2013	XD	GWDP1X63D		0.02	31.4	0.59	9.4	0.21	1	10.9
10/28/2013	XX	GW401B670		0.027	35.1	1.72	10.8	0.28	1.5	14.9
10/28/2013	XD	GWDP4X673		0.03	37.4	1.61	10.3	0.28	1.5	15.2
4/21/2014	XX	GW401B6F3		0.031	30.2	1.45	8.8	0.2	1.1	11.4
4/21/2014	XD	GWDP4X6F6		0.032	29.3	1.65	9	0.22	1.1	11.6
7/28/2014	XX	GW401B6JA		0.023	36	1.63	9.6	0.18	1.2	13.6
7/28/2014	XD	GWDP4X6JD		0.027	35.9	1.68	9.8	0.18	1.2	12.7
10/20/2014	XX	GW401B731		0.026	38.8	1.95	10.9	0.16	1.4	16.2
10/20/2014	XD	GWDP4X734		0.026	37	1.89	10.4	0.15	1.3	15.1
4/27/2015	XX	GW401B78I		0.026	29.8	1.37	8.4	0.28	1	10.4
4/27/2015	XD	GWDP4X791		0.027	28.4	1.28	8.4	0.26	1	10.4
7/13/2015	XX	GW401B7CA		0.026	37	1.57	9.8	0.22	1.1	12.6
7/13/2015	XD	GWDP4X7CD		0.029	36.4	1.52	9.6	0.21	1.1	12.6
10/26/2015	XX	GW401B7HJ		0.027	35.4	2.13	10.6	0.22	1.3	13.6
10/26/2015	XD	GWDP3X7HG		0.028	37.2	2.17	10.7	0.22	1.3	13.5
4/6/2016	XD	GWDP4X86C		0.028	30.6	0.92	8.4	0.18	1	10.7
4/6/2016	XX	GW401B869		0.025	33.3	0.9	8.8	0.18	1	10.6
7/25/2016	XX	GW401B8AJ		0.058	43.3	2.79	12.1	0.19	1.4	13.9
10/24/2016	XD	GWDP1X8I4		0.015	43.1	2.02	12.3	0.13	1.5	15.7
10/24/2016	XX	GW401B8II		0.013	44.8	2.07	12.9	0.13	1.6	15.9
4/17/2017	XD	GWDP4X977		0.045	30	3	10	0.4	1.2	13
4/17/2017	XX	GW401B974		0.044	31	3	10	0.43	1.2	13
7/24/2017	XX	GW401B9D2		0.02	37	1.3	10	0.17	1	12
10/25/2017	XD	GWDP1X9G3		0.033	43	3.5	12	0.35	1.3	13
10/25/2017	XX	GW401B9GH		0.015	43	1.7	12	0.2	1.3	14
4/2/2018	XD	GWDP4XA2J	UF	0.013	40	0.55	11	0.08	1.3	14
4/2/2018	XX	GW401BA2G	UF	0.013	37	0.47	10	0.07	1.1	13

(MW-401B)

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
			-	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7/16/2018	XX	GW401BABH	UF	0.028	43	1.9	11	0.24	1.2	12
10/1/2018	XD	GWDP1XB01	UF	0.01	41	1.6	11	0.15	1.3	14
10/1/2018	XX	GW401BB0F	UF	0.01	42	1.9	12	0.17	1.4	13
4/22/2019	XD	GWDP4XB5F	UF	0.02	27	0.64	8	0.13	0.9	9.8
4/22/2019	XX	GW401BB5C	UF	0.021	26	0.63	8.1	0.13	0.9	9.7
7/15/2019	XD	GWDP4XBC7	UF	0.02	33	1.3	9.7	0.15	0.9	10
7/15/2019	XX	GW401BBC4	UF	0.02	34	1.4	10	0.16	1.1	11
10/28/2019	XD	GWDP1XBH3	UF	0.017	39	1.9	11	0.15	1.4	11
10/28/2019	XX	GW401BBHH	UF	0.013	38	1.6	10	0.13	1.2	10
4/27/2020	XD	GWDP4XCD7	UF	0.019	31	0.68	8.9	0.1	1	9.8
4/27/2020	XX	GW401BCD4	UF	0.023	30	0.67	8.5	0.09	0.9	9.7
7/20/2020	XD	GWDP4XCI0	UF	0.025	36	2.6	11	0.2	1.8	11
7/20/2020	XX	GW401BCHH	UF	0.028	39	2.5	11	0.21	1.5	11
10/26/2020	XD	GWDP1XD27	UF	0.013	38	2	11	0.21	1	11
10/26/2020	XX	GW401BD31	UF	0.016	42	2.1	12	0.22	1.2	12

MW-402A

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/27/2011	XX	GW402A49J		0.024	10.5	0.02 U	2.7	0.02 U	0.6	7.8
7/20/2011	XX	GW402A4DH		0.025	10.7	0.02 U	2.8	0.02 U	0.7	8.1
10/26/2011	XX	GW402A4HC		0.023	11	0.02 U	2.8	0.02 U	0.6	8.2
4/24/2012	XX	GW402A522		0.019	10.7	0.05 U	2.9	0.05 U	0.6	7.8
7/25/2012	XX	GW402A571		0.021	11.3	0.05 U	2.9	0.05 U	0.6	8.6
10/24/2012	XX	GW402A5DC		0.017	11.1	0.05 U	3.1	0.05 U	0.6	8.5
4/22/2013	XX	GW402A5I3		0.021	10.7	0.05 U	3	0.05 U	0.7	9.1
7/31/2013	XX	GW402A648		0.024	11.8	0.05 U	3.1	0.05 U	0.6	7.7
10/30/2013	XX	GW402A671		0.02	12.1	0.05 U	3	0.05 U	0.6	8.2
4/23/2014	XX	GW402A6F4		0.023	11.9	0.05 U	2.9	0.05 U	0.6	8.3
7/30/2014	XX	GW402A6JB		0.022	12	0.05 U	3	0.05 U	0.7	8.9
10/22/2014	XX	GW402A732		0.024	12.5	0.05 U	3	0.05 U	0.6	8.7
4/29/2015	XX	GW402A78J		0.023	11.6	0.05 U	3	0.05 U	0.6	8.8
7/15/2015	XX	GW402A7CB		0.025	11.4	0.05 U	2.8	0.05 U	0.6	8.4
10/28/2015	XX	GW402A7I0		0.021	10.5	0.05 U	2.8	0.05 U	0.5	7.4
4/27/2016	XX	GW402A86A		0.025	12.3	0.05 U	3.1	0.05 U	0.6	8.6
7/27/2016	XX	GW402A8B0		0.026	12.4	0.05 U	3.1	0.05 U	0.7	8.8
10/26/2016	XX	GW402A8IJ		0.017	11.7	0.05 U	3.2	0.05 U	0.6	8.9
4/19/2017	XX	GW402A975		0.019	11	0.05 U	3.3	0.05 U	0.6	8.8
7/26/2017	XX	GW402A9D3		0.016	11	0.05 U	2.9	0.05 U	0.6	7.9
10/26/2017	XX	GW402A9GI		0.019	13	0.05 U	3.2	0.05 U	0.5	7.7
4/4/2018	XX	GW402AA2H	UF	0.024	13	0.05 U	3.4	0.05 U	0.7	10
7/18/2018	XX	GW402AABI	UF	0.015	14	0.26	3	0.05 U	0.7	8.2
10/3/2018	XX	GW402AB0G	UF	0.024	12	0.05 U	3	0.05 U	0.6	8.5
4/24/2019	XX	GW402AB5D	UF	0.017	12	0.05 U	3.1	0.05 U	0.6	8.5
7/17/2019	XX	GW402ABC5	UF	0.02	12	0.05 U	3.4	0.05 U	0.7	10
10/30/2019	XX	GW402ABHI	UF	0.019	11	0.05 U	3.1	0.05 U	0.7	8.5
4/29/2020	XX	GW402ACD5	UF	0.02	12	0.05 U	3.2	0.05 U	0.8	8.5
7/22/2020	XX	GW402ACHI	UF	0.018	12	0.05 U	3.3	0.05 U	1	9.5
10/28/2020	XX	GW402AD32	UF	0.015	12	0.05 U	3.4	0.05 U	0.6	10

MW-402B

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/27/2011	XX	GW402B4A0		0.022	14.2	0.02 U	4.8	0.02 J	0.6	7.9

(MW-402B)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/20/2011	XX	GW402B4DI		0.023	13.2	0.02 U	4.7	0.02 J	0.7	7.8
10/26/2011	XX	GW402B4HD		0.016	15	0.02 U	4.8	0.02 U	0.7	8.1
4/24/2012	XX	GW402B523		0.018	13.6	0.05 U	4.9	0.05 U	0.7	8.1
7/25/2012	XX	GW402B572		0.017	15	0.05 U	4.9	0.05 U	0.7	8.1
10/24/2012	XX	GW402B5DD		0.02	13.9	0.05 U	5.1	0.05 U	0.6	8.1
4/22/2013	XX	GW402B5I4		0.019	13.2	0.05 U	4.7	0.05 U	0.6	8.4
7/31/2013	XX	GW402B649		0.024	14.9	0.05 U	5	0.05 U	0.6	7.6
10/30/2013	XX	GW402B672		0.019	15.5	0.05 U	4.9	0.05 U	0.6	8.1
4/23/2014	XX	GW402B6F5		0.019	15.1	0.05 U	4.7	0.05 U	0.6	8
7/30/2014	XX	GW402B6JC		0.023	14.8	0.05 U	4.7	0.05 U	0.6	8.5
10/22/2014	XX	GW402B733		0.021	14.7	0.05 U	4.6	0.05 U	0.7	8.3
4/29/2015	XX	GW402B790		0.021	14.8	0.05 U	4.7	0.05 U	0.6	8
7/15/2015	XX	GW402B7CC		0.024	14.7	0.05 U	4.5	0.05 U	0.6	7.8
10/28/2015	XX	GW402B7I1		0.022	13.5	0.05 U	4.6	0.05 U	0.6	7.7
4/27/2016	XX	GW402B86B		0.031	15.6	0.05 U	5	0.05 U	0.6	8.2
7/27/2016	XX	GW402B8B1		0.023	15.3	0.05 U	4.8	0.05 U	0.6	8.3
10/26/2016	XX	GW402B8J0		0.022	14.8	0.18	5.2	0.05	0.7	9.4
4/19/2017	XX	GW402B976		0.021	13	0.05 U	4.9	0.05 U	0.7	8.3
7/26/2017	XX	GW402B9D4		0.021	14	0.05 U	4.6	0.05 U	0.6	8.1
10/26/2017	XX	GW402B9GJ		0.021	17	0.05 U	5.1	0.05 U	0.6	7.9
4/4/2018	XX	GW402BA2I	UF	0.019	16	0.06	5.3	0.05 U	0.7	9.1
7/18/2018	XX	GW402BABJ	UF	0.016	15	0.06	4.8	0.05 U	0.6	8.5
10/3/2018	XX	GW402BB0H	UF	0.019	16	0.05 U	4.8	0.05 U	0.6	8.8
4/24/2019	XX	GW402BB5E	UF	0.02	15	0.05 U	4.8	0.05 U	0.6	8.2
7/17/2019	XX	GW402BBC6	UF	0.017	13	0.05 U	5.2	0.05 U	0.7	9.8
10/30/2019	XX	GW402BBHJ	UF	0.02	14	0.05 U	4.8	0.05 U	0.7	8.1
4/29/2020	XX	GW402BCD6	UF	0.017	15	0.05 U	4.9	0.05 U	0.7	8.2
7/22/2020	XX	GW402BCHJ	UF	0.018	14	0.06	5.1	0.05 U	0.7	9.2
10/28/2020	XX	GW402BD33	UF	0.016	15	0.05 U	5.3	0.05 U	0.6	9.4

MW-501

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/5/2018	XX	GW501XA6I	UF	0.008	30	0.05 U	4.9	0.05 U	0.8	4.6
6/4/2018	XX	GW501XA7F	UF	0.009	30	0.05 U	5.5	0.05	0.7	4.1
7/19/2018	XX	GW501XAED	UF	0.005 U	30	0.05	5.4	0.06	0.7	3.9
8/20/2018	XX	GW501XAFE	UF	0.006	33	0.05 U	5.7	0.08	0.7	3.9
4/24/2019	XX	GW501XB7C	UF	0.005 U	47	0.17	6.8	0.21	0.8	5.1
7/17/2019	XX	GW501XBE0	UF	0.009	21	0.05 U	5.1	0.05 U	0.8	4.3
10/30/2019	XX	GW501XBJ9	UF	0.005 U	60	0.05 U	7.8	0.05 U	1	5.4
4/29/2020	XX	GW501XCF0	UF	0.005 U	21	0.05 U	4.7	0.05 U	0.7	3.5
7/22/2020	XX	GW501XCJD	UF	0.005 U	44	0.05	9.2	0.05 U	1.1	6.4
10/28/2020	XX	GW501XD4D	UF	0.005 U	50	0.05 U	8.2	0.05 U	0.9	6.1

MW09-901

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/26/2011	XX	GW901X49G		0.007	23.3	0.02 U	6.1	0.02 U	2.1	6
7/19/2011	XX	GW901X4DE		0.002 J	21.3	0.02 U	5.9	0.02 U	1.8	5.9
10/25/2011	XX	GW901X4H9		0.002 U	21	0.02 U	6.1	0.02 U	2	6.2
4/24/2012	XX	GW901X51J		0.005	18.8	0.05 U	5.4	0.05 U	1.6	5.2
7/24/2012	XX	GW901X56I		0.005	21.2	0.05 U	6	0.05 U	1.8	5.5
10/23/2012	XX	GW901X5D9		0.008	19.9	0.05 U	6	0.05 U	1.8	6.4
4/23/2013	XX	GW901X5I0		0.009	19.1	0.05 U	5.4	0.05 U	1.7	5.1

(MW09-901)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/30/2013	XX	GW901X645		0.01	21.8	0.05 U	5.9	0.05 U	1.5	4.9
10/29/2013	XX	GW901X66I		0.009	22.5	0.05 U	6.1	0.05 U	1.7	5.9
4/22/2014	XX	GW901X6F1		0.008	21.8	0.05 U	6.2	0.05 U	1.8	5.6
7/29/2014	XX	GW901X6J8		0.012	28.5	0.05 U	7.7	0.05 U	2.1	7.7
10/21/2014	XX	GW901X72J		0.009	33.4	0.05 U	8.9	0.05 U	2.3	13.1
4/28/2015	XX	GW901X78G		0.012	33.5	0.05 U	9.3	0.05 U	2.1	12.1
7/14/2015	XX	GW901X7C8		0.011	33.2	0.05 U	9.1	0.05 U	2.2	10.6
10/27/2015	XX	GW901X7HH		0.011	32.1	0.05 U	10.7	0.05 U	2.5	12.7
4/5/2016	XD	GWDP1X85F		0.016	36.4	0.05 U	9.6	0.05 U	2.1	11
4/5/2016	XX	GW901X867		0.015	36.6	0.05 U	10	0.05 U	2.1	11.3
7/26/2016	XD	GWDP1X8A5		0.02	41	0.05 U	11.8	0.05 U	2.5	12.4
7/26/2016	XX	GW901X8AH		0.019	41.5	0.05 U	11.6	0.05 U	2.5	11.9
10/25/2016	XX	GW901X8IG		0.005	46.2	0.05 U	11.5	0.05 U	2.6	14.4
4/18/2017	XD	GWDP1X96A		0.005 U	38	0.05 U	12	0.05 U	2.2	10
4/18/2017	XX	GW901X972		0.006	39	0.05 U	13	0.05 U	2.6	12
7/25/2017	XD	GWDP1X9C8		0.005 U	50	0.05 U	14	0.05 U	2.6	11
7/25/2017	XX	GW901X9D0		0.005 U	50	0.05 U	14	0.05 U	2.6	11
10/24/2017	XX	GW901X9GF		0.005 U	53	0.05 U	14	0.05 U	2.3	11
4/3/2018	XD	GWDP1XA21	UF	0.005 U	51	0.05 U	16	0.05 U	2.5	12
4/3/2018	XX	GW901XA2E	UF	0.005 U	50	0.05	13	0.05 U	2.3	10
7/17/2018	XD	GWDP1XAB3	UF	0.005 U	51	0.05 U	12	0.05 U	2	8.2
7/17/2018	XX	GW901XABF	UF	0.005 U	56	0.05 U	13	0.05 U	2.2	8.7
10/2/2018	XX	GW901XB0D	UF	0.005 U	58	0.05 U	14	0.05 U	2.3	11
4/23/2019	XD	GWDP1XB4H	UF	0.005 U	49	0.05 U	12	0.05 U	1.8	9.8
4/23/2019	XX	GW901XB5A	UF	0.005 U	49	0.05 U	12	0.05 U	1.8	9.8
7/16/2019	XD	GWDP1XBBA	UF	0.005 U	49	0.05 U	13	0.05 U	1.9	11
7/16/2019	XX	GW901XBC2	UF	0.005 U	51	0.05 U	13	0.05 U	1.8	11
10/29/2019	XX	GW901XBHF	UF	0.005 U	44	0.05 U	11	0.05 U	1.9	10
4/28/2020	XD	GWDP1XCCA	UF	0.005 U	46	0.05 U	12	0.05 U	1.7	8.8
4/28/2020	XX	GW901XCD2	UF	0.005 U	46	0.05 U	12	0.05 U	1.7	8.9
7/21/2020	XD	GWDP1XCH3	UF	0.005 U	42	0.05 U	12	0.05 U	2.9	9.9
7/21/2020	XX	GW901XCHF	UF	0.005 U	45	0.05 U	13	0.05 U	2	9.9
10/27/2020	XX	GW901XD2J	UF	0.005 U	43	0.05 U	12	0.12	1.6	10

OW-06-03

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/10/2018	XX	GWXXXXA73	UF	0.005 U	17	0.32	4.4	0.65	1.1	6.6
6/5/2018	XX	GWXXXXA80		I	I	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI		I	I	I	I	I	I	I
8/21/2018	XX	GWXXXXAFH		I	I	I	I	I	I	I
7/18/2019	XX	GWXXXXBDJ		I	I	I	I	I	I	I
7/20/2020	XX	GWXXXXCJC		I	I	I	I	I	I	I

OW-601A

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/11/2018	XX	GW601AA69	UF	0.005 U	39	0.97	10	0.2	1.9	7.2
4/11/2018	XX	GW601AHHA	FILT	0.005 U	36	0.18	8.8	0.19	1.8	6.6
6/6/2018	XX	GWXXXXHG4	FILT	0.005 U	41	0.06	11	0.23	1.8	7.9
7/19/2018	XX	GW601AAE4	UF	0.005 U	43	0.4	11	0.29	2.1	10
8/22/2018	XX	GW601AAF5	UF	0.005 U	43	0.05 U	10	0.19	2.3	13
7/18/2019	XX	GW601ABB6	UF	0.005 U	42	0.05 U	12	0.07	2.5	16
7/22/2020	XX	GW601ACGJ	UF	0.005 U	37	0.87	10	0.05	2.4	25

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(OW-601B)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
OW-601B										
4/11/2018	XX	GW601BA6A	UF	0.005 U	40	0.05 U	12	0.09	1.9	8
6/6/2018	XX	GW601BA77	UF	0.007	39	0.28	12	1	1.9	8.2
7/19/2018	XX	GW601BAE5	UF	0.005 U	36	0.19	11	0.11	1.5	7
8/22/2018	XX	GW601BAF6	UF	0.005 U	40	0.19	13	0.05 U	1.4	6.8
7/18/2019	XX	GW601BBDF	UF	0.005 U	34	0.74	13	0.64	1.8	8.7
7/22/2020	XX	GW601BCJ8	UF	0.005 U	35	0.31	13	0.05 U	1.4	8.3
OW-602A										
4/11/2018	XX	GW602AA6B	UF	0.005 U	14	0.05 U	2.8	0.05 U	0.6	2.5
6/6/2018	XD	GWDP1XA75	UF	0.005 U	19	0.05 U	4.1	0.05 U	0.4	3.4
6/6/2018	XX	GW602AA78	UF	0.008	18	0.05 U	4.1	0.05 U	0.5	3
7/19/2018	XD	GWDP1XAE3	UF	0.005 U	17	0.05 U	3.5	0.05 U	0.4	2.6
7/19/2018	XX	GW602AAE6	UF	0.005 U	17	0.05 U	3.6	0.05 U	0.4	2.7
8/21/2018	XX	GW602AAF7	UF	0.005 U	18	0.1	3.5	0.05 U	0.4	2.5
7/18/2019	XX	GW602ABDG	UF	0.005 U	13	0.05 U	3	0.05 U	0.4	2.8
7/22/2020	XX	GW602ACJ9	UF	0.005 U	17	0.05 U	4.1	0.05 U	0.5	3.3
OW-603B										
4/12/2018	XX	GW603BA6C	UF	0.005 U	34	0.11	11	0.16	1.4	8.5
6/5/2018	XX	GW603BA79	UF	0.005 U	27	0.05	8.1	0.11	1	5.9
7/19/2018	XX	GW603BAE7	UF	0.017	21	19	8.5	0.93	3.7	4.9
7/19/2018	XX	GWXXXXHG5	FILT	0.005 U	13	1.3	4.5	0.37	1.2	4.2
8/21/2018	XX	GW603BAF8	UF	0.005 U	13	0.54	4.6	0.77	1.5	3.9
7/18/2019	XX	GW603BBDH	UF	0.008	12	0.08	4.7	0.2	1.6	5.4
7/22/2020	XX	GW603BCJA		I	I	I	I	I	I	I
OW-604A										
4/12/2018	XX	GW604AA6D	UF	0.005 U	10	0.05 U	2.6	0.05 U	0.6	3.5
6/4/2018	XX	GW604AA7A	UF	0.007	8.9	0.05 U	2.3	0.05 U	0.5	3.1
7/19/2018	XX	GW604AAE8	UF	0.005 U	9.2	0.05 U	2.4	0.05 U	0.5	2.7
8/21/2018	XX	GW604AAF9	UF	0.005 U	15	0.05 U	3.4	0.05 U	0.6	3.1
7/18/2019	XX	GW604ABDI	UF	0.005 U	13	0.05 U	4.2	0.05 U	0.6	4.4
7/21/2020	XX	GW604ACJB	UF	0.005 U	18	0.05 U	5	0.05 U	0.7	4.7
P-04-02										
4/27/2011	XX	GWXXXX4AE		0.01	22.4	0.02 U	6.7	0.02 U	1.2	6.6
7/20/2011	XX	GWXXXX4EC		0.012	22.8	0.02 U	6.9	0.02 U	1.3	6.7
10/26/2011	XX	GWXXXX4I7		!	!	!	!	!	!	!
4/25/2012	XX	GWXXXX588		0.005	16	0.27	4.6	0.05 U	1.6	11.4
4/25/2012	XX	GWXXXX52H		0.007	16.3	1.43	5.1	0.07	1.7	11.2
7/25/2012	XX	GWXXXX57G		0.005 U	23.8	0.52	6.9	0.05	1.6	17.6
10/24/2012	XX	GWXXXX5E7		0.005	16.9	0.24	4.1	0.16	1.7	25.8
4/22/2013	XX	GWXXXX5II		!	!	!	!	!	!	!
P-04-02R										
7/15/2015	XX	GWXXXX7DJ		0.007	17.5	1.52	4.3	0.08	1.7	32.7
10/28/2015	XX	GWXXXX7J4		0.009	29.8	0.22	7.8	0.21	2	92
4/6/2016	XX	GWXXXX87I		0.015	29.3	0.05 U	7.9	0.05 U	1.6	61.8
7/27/2016	XX	GWXXXX8C7		0.016	37	0.05 U	9.4	0.05 U	2.4	112
10/26/2016	XX	GWXXXX904		0.008	35	0.05 U	10.2	0.05 U	2.5	98.9

(P-04-02R)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/19/2017	XX	GWXXXX98C		0.009	30	0.15	9.5	0.05 U	2.4	96
4/19/2017	XX	GWXXXX98H	FILT	0.007	29	0.05 U	9.3	0.05 U	2.3	87
7/26/2017	XX	GWXXXX9E8		0.008	30	0.05 U	8.4	0.05 U	2.3	78
7/26/2017	XX	GWXXXX9EA	FILT	0.005 U	29	0.05 U	7.8	0.05 U	1.8	65
10/25/2017	XX	GWXXXX9I3		0.007	32	0.07	8.6	0.05 U	2.1	73
4/4/2018	XX	GWXXXXA44	UF	0.009	29	0.05 U	8.3	0.05 U	1.9	64
4/4/2018	XX	GWXXXXA29	FILT	0.008	27	0.05 U	7.8	0.05 U	1.9	69
7/18/2018	XX	GWXXXXAD5	FILT	0.005 U	27	0.05 U	7	0.05 U	1.6	45
7/18/2018	XX	GWXXXXAD3	UF	0.006	28	0.05 U	7	0.05 U	1.8	56
10/3/2018	XX	GWXXXXB21	UF	0.005	28	0.05 U	7.9	0.05 U	1.8	51
4/22/2019	XX	GWXXXXB70	UF	0.007	27	0.05 U	7.5	0.05 U	1.9	50
7/17/2019	XX	GWXXXXBDA	UF	0.008	22	0.05 U	7.3	0.05 U	2	61
10/30/2019	XX	GWXXXXBJ2	UF	0.006	22	0.09	6.6	0.05 U	1.8	49
4/29/2020	XX	GWXXXXCEA	UF	0.006	22	0.05 U	6	0.05 U	1.6	49
7/22/2020	XX	GWXXXXCJ3	UF	0.006	22	0.05 U	6.8	0.05 U	1.7	47
10/28/2020	XX	GWXXXXD46	UF	0.008	23	0.05 U	7.2	0.05 U	1.6	43

P-04-04

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/27/2011	XX	GWXXXX4AF		0.011	20.9	0.02 U	5	0.02 U	1.3	4
7/20/2011	XX	GWXXXX4ED		0.01	20.8	0.02 U	5.1	0.02 U	1.3	3.7
10/26/2011	XX	GWXXXX4I8		0.002 U	22	0.02 U	5.2	0.02 U	1.4	3.7
4/25/2012	XX	GWXXXX52I		0.008	18.3	0.05 U	5.1	0.05 U	1.3	4.1
7/25/2012	XX	GWXXXX57H		0.005	21.2	0.05 U	5.2	0.05 U	1.3	4.2
10/24/2012	XX	GWXXXX5E8		0.01	19.9	0.05 U	5.8	0.05 U	1.3	4.2
4/24/2013	XX	GWXXXX5IJ		0.011	21.7	0.05 U	5.3	0.05 U	1.4	4.1
7/31/2013	XX	GWXXXX654		0.012	22	0.05 U	5.5	0.05 U	1.2	3.7
10/30/2013	XX	GWXXXX67E		0.008	21.7	0.05 U	5.2	0.05 U	1.2	3.6
4/23/2014	XX	GWXXXX6G0		0.012	21.7	0.05 U	5.2	0.05 U	1.4	4.1
7/30/2014	XX	GWXXXX703		0.008	22.3	0.05 U	5.2	0.05 U	1.4	4.3
10/22/2014	XX	GWXXXX73E		0.013	21.1	0.05 U	5	0.05 U	1.3	3.9
4/29/2015	XX	GWXXXX79B		0.012	21.9	0.05 U	5.2	0.05 U	1.3	4.3
7/15/2015	XX	GWXXXX7D3		0.014	20.4	0.05 U	4.9	0.05 U	1.3	3.9
10/28/2015	XX	GWXXXX7IC		0.011	21.6	0.05 U	4.9	0.05 U	1.2	3.7
4/6/2016	XX	GWXXXX872		0.009	21.5	0.05 U	4.9	0.05 U	1.3	3.8
7/27/2016	XX	GWXXXX8BC		0.012	23.3	0.05 U	5.4	0.05 U	1.4	4.1
10/26/2016	XX	GWXXXX8JB		0.009	21.7	0.05 U	5.7	0.05 U	1.4	4.4
4/19/2017	XX	GWXXXX97H		0.01	20	0.05 U	5.5	0.05 U	1.4	4.2
7/26/2017	XX	GWXXXX9DF		0.005	22	0.05 U	5.1	0.05 U	1.2	3.9
10/25/2017	XX	GWXXXX9HA		0.011	23	0.05 U	5.5	0.05 U	1.2	4.3
4/4/2018	XX	GWXXXXA39	UF	0.007	24	0.05 U	5.7	0.05 U	1.4	4.6
7/18/2018	XX	GWXXXXACA	UF	0.005	24	0.05 U	5.2	0.05 U	1.3	4
10/3/2018	XX	GWXXXXB18	UF	0.007	24	0.05 U	5.4	0.05 U	1.3	4.3
4/22/2019	XX	GWXXXXB65	UF	0.005 U	24	0.05 U	5.8	0.05 U	1.4	4.4
7/17/2019	XX	GWXXXXBCG	UF	0.007	21	0.05 U	5.9	0.05 U	1.5	4.9
10/30/2019	XX	GWXXXXBI9	UF	0.007	22	0.05 U	5.8	0.05 U	1.4	4.4
4/29/2020	XX	GWXXXXCDG	UF	0.008	23	0.05 U	5.6	0.05 U	1.4	4.5
7/22/2020	XX	GWXXXXCI9	UF	0.005	21	0.05 U	6	0.05 U	1.3	4.6
10/28/2020	XX	GWXXXXD3D	UF	0.007	24	0.05 U	6	0.05 U	1.3	4.6

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(P-206A)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/31/2013	XX	GW206A64I		I	I	I	I	I	I	I
10/28/2013	XX	GW206A67B		0.01	11.1	4.26	3.5	0.2	1.3	8.4
4/21/2014	XX	GW206A6FJ		0.008	11.7	10.3	3.8	0.25	1.6	8.4
7/28/2014	XX	GW206A702		0.008	13.2	16.8	4	0.31	1.3	7.6
10/20/2014	XX	GW206A73B		0.009	11.9	4.6	3.2	0.15	0.9	7.3
4/27/2015	XX	GW206A79A		0.009	11.8	1.44	3.1	0.1	1	7.3
7/13/2015	XX	GW206A7D2		0.013	12.8	0.51	3.1	0.1	1	7.4
10/26/2015	XX	GW206A7IB		0.013	13	5.84	3.8	0.17	1	7.8
4/4/2016	XX	GW206A871		0.009	13.9	0.26	3.5	0.08	0.9	7.2
7/25/2016	XX	GW206A8BB		0.022	16.4	2.47	4.2	0.12	1	8.3
10/24/2016	XX	GW206A8JA		0.009	19.5	0.21	5	0.1	1.2	9.1
4/17/2017	XX	GW206A97G		0.01	19	1.6	5.2	0.11	1.2	9.1
7/24/2017	XX	GW206A9DE		0.006	20	0.31	5.1	0.08	0.9	9.3
10/23/2017	XX	GW206A9H9		0.007	22	0.46	5.6	0.08	1	9.1
4/2/2018	XX	GW206AA38	UF	0.007	22	0.44	6	0.09	1.2	11
7/16/2018	XX	GW206AAC9	UF	0.007	23	0.28	5.7	0.09	1.2	10
10/1/2018	XX	GW206AB17	UF	0.009	24	0.49	6.2	0.09	1.1	9.9
4/22/2019	XX	GW206AB64	UF	0.007	23	0.72	6.2	0.09	1.2	9.2
7/17/2019	XX	GW206ABCF	UF	0.006	19	0.22	6.1	0.07	1.3	9.7
10/28/2019	XX	GW206ABI8	UF	0.005	20	0.8	5.4	0.07	1.1	7.6
4/27/2020	XX	GW206ACDF	UF	0.006	24	0.62	6.5	0.08	1.2	9.1
7/20/2020	XX	GW206ACI8	UF	0.005 U	23	0.24	6.5	0.08	1.3	9.3
10/26/2020	XX	GW206AD3C		A	A	A	A	A	A	A

PWS10-1

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/25/2011	XX	GWPWS1498		0.013	18.4	2.97	7.5	0.1	1	7.6
7/18/2011	XX	GWPWS14D6		0.007	23.9	5.09	7.7	0.56	1.4	8.7
10/24/2011	XX	GWPWS14H1		0.002 U	20.7	4.27	6.9	0.35	1.1	6.7
4/23/2012	XX	GWPWS151B		0.007	16.3	0.48	5.1	0.07	0.6	7.9
7/23/2012	XX	GWPWS156A		0.005 U	9.8	3.47	3.2	0.4	0.5	5.1
10/22/2012	XX	GWPWS15D1		0.006	13.2	2.61	5.3	0.1	0.4	6.4
4/22/2013	XX	GWPWS15HC		0.011	30.9	1.35	9.3	0.09	1.8	10
7/29/2013	XX	GWPWS163H		0.005 U	18.9	4.66	6.3	0.31	1.3	7.2
10/28/2013	XX	GWPWS166A		0.005 U	9.5	1.56	3.4	0.09	0.7	5.6
4/21/2014	XX	GWPWS16ED		0.015	30.3	6.52	12.7	0.19	1.1	8.4
7/28/2014	XX	GWPWS16J0		0.005 U	27.2	4.06	7.4	0.26	2.1	8.1
10/20/2014	XX	GWPWS172A		0.005 U	6.8	0.55	2.3	0.05 U	0.7	5.1
4/27/2015	XX	GWPWS1788		0.019	30.8	1.33	8.4	0.06	1.2	8.5
7/13/2015	XX	GWPWS17C0		0.011	20.2	7.27	5.8	0.31	1.8	6.3
10/26/2015	XX	GWPWS17H9		0.01	8.7	1.18	2.7	0.07	0.5	4.7
4/4/2016	XX	GWPWS185J		0.005 U	26.6	2.36	7.4	0.1	0.4	8.1
7/25/2016	XX	GWPWS18A9		0.014	13.9	4.77	4.1	0.35	0.6	4.3
10/24/2016	XX	GWPWS18I8		0.005	38.1	8.08	10.4	0.92	0.9	8.5
4/17/2017	XX	GWPWS196E		0.007	10	0.34	3.1	0.06	0.7	6.6
7/24/2017	XX	GWPWS19CC		0.005 U	35	1.7	9.3	0.5	0.8	8.9
10/25/2017	XX	GWPWS19G7		0.011	20	5.8	6.3	0.31	0.8	7.2
4/2/2018	XX	GWPWS1A25	UF	0.005 U	19	0.07	4.9	0.28	1.2	7.1
7/16/2018	XX	GWPWS1AB7	UF	0.005	21	3.8	5.6	0.56	0.8	6.1
10/1/2018	XX	GWPWS1B05	UF	0.005	15	1.3	4.1	0.1	0.6	5.7
4/22/2019	XX	GWPWS1B51	UF	0.005 U	21	3.8	6.5	0.2	0.8	6.9

(PWS10-1)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/15/2019	XX	GWPWS1BBE	UF	0.01	9.9	4.1	2.9	0.8	0.5	6.3
10/28/2019	XX	GWPWS1BH7	UF	0.005 U	20	0.75	5.3	0.22	0.9	5.3
4/27/2020	XX	GWPWS1CCE	UF	0.005 U	31	8.1	8.4	2.3	1.2	9.2
7/20/2020	XX	GWPWS1CH7	UF	0.005	24	13	6.7	2.6	2.2	8
10/26/2020	XX	GWPWS1D2B	UF	0.005 U	29	0.76	8.9	0.41	1.6	7.5
PWS10-2										
4/25/2011	XX	GWPWS2499		0.002 U	6.1	3.06	1.9	0.03 J	1.1	3.2
7/18/2011	XX	GWPWS24D7		0.003 J	15.2	0.9	3.9	0.43	0.7	5.1
10/24/2011	XX	GWPWS24H2		0.002 U	12.3	2.09	2.8	0.07	1.1	2.8
4/23/2012	XX	GWPWS251C		0.005 U	5.7	1.48	1.6	0.05 U	0.3 U	4.2
7/23/2012	XX	GWPWS256B		0.005 U	8.1	1.55	2.7	0.07	0.4	4.6
10/22/2012	XX	GWPWS25D2		0.005 U	6.6	0.32	1.4	0.05	0.8	2.9
4/22/2013	XX	GWPWS25HD		0.005 U	9.2	2.34	3.1	0.05 U	0.3 U	4.4
7/29/2013	XX	GWPWS263I		0.005 U	13.9	2.42	3.2	0.05 U	0.5	5.1
10/28/2013	XX	GWPWS266B		0.005 U	8.9	6.07	1.9	0.44	0.8	3.2
4/21/2014	XX	GWPWS26EE		0.005	10.1	4.83	3.4	0.17	1.1	3.5
7/28/2014	XX	GWPWS26J1		0.014	14.3	2.25	4	0.05 U	0.3 U	5.8
10/20/2014	XX	GWPWS272B		0.012	13.2	2.16	3	0.16	0.6	5.5
4/27/2015	XX	GWPWS2789		0.005 U	10.4	1.28	3.5	0.05	0.5	7.8
7/13/2015	XX	GWPWS27C1		0.01	12.3	13.8	4.7	0.4	1	4.4
10/26/2015	XX	GWPWS27HA		0.012	9.3	0.08	1.3	0.05 U	1.3	1.6
4/4/2016	XX	GWPWS2860		0.005	11.3	0.99	2.7	0.07	0.8	3.5
7/25/2016	XX	GWPWS28AA		0.015	13.1	1.23	3.5	0.06	0.3 U	3.6
10/24/2016	XX	GWPWS28I9		0.007	15.4	6.51	4.7	0.3	1.6	3.4
4/17/2017	XX	GWPWS296F		0.006	10	1.7	2.8	0.08	1	3.2
7/24/2017	XX	GWPWS29CD		0.005 U	16	0.93	4.1	0.14	0.3 U	5.1
10/24/2017	XX	GWPWS29G8		D	D	D	D	D	D	D
4/2/2018	XX	GWPWS2A26	UF	0.005 U	8.9	1.3	1.6	0.07	1.1	2.3
7/16/2018	XX	GWPWS2AB8	UF	0.005	15	1.6	3.7	0.26	0.4	4.6
10/1/2018	XX	GWPWS2B06	UF	0.005 U	14	0.61	3.1	0.06	0.4	4.2
4/22/2019	XX	GWPWS2B52	UF	0.005 U	8.7	0.05 U	1.2	0.05 U	1.3	4.8
7/15/2019	XX	GWPWS2BBF	UF	0.005	9.7	2.7	2.6	0.28	0.8	5.4
10/28/2019	XX	GWPWS2BH8	UF	0.005 U	9	0.45	1.2	0.94	1.1	2.9
4/27/2020	XX	GWPWS2CCF	UF	0.005	29	2	3.9	0.61	1.9	7.6
7/20/2020	XX	GWPWS2CH8	UF	0.005 U	13	0.95	2.9	0.09	1.7	7.5
10/26/2020	XX	GWPWS2D2C	UF	0.005 U	15	1.6	2.6	0.28	1.8	4.6
PWS10-3										
4/25/2011	XX	GWPWS349A		0.011	17.8	1.69	3.4	0.05	0.2 J	3.9
7/18/2011	XX	GWPWS34D8		0.004 J	12.9	3.85	3.5	1.48	1.3	4.6
10/24/2011	XX	GWPWS34H3		0.002 U	10.6	4.95	2.4	0.09	0.1 J	2.5
4/23/2012	XX	GWPWS351D		0.005 U	5.1	0.64	2.3	0.05 U	0.3 U	3.5
7/23/2012	XX	GWPWS356C		0.005 U	6.2	1.54	2.3	0.12	0.3	4.2
10/22/2012	XX	GWPWS35D3		0.005 U	4.4	3.07	1.7	0.15	0.3 U	3.2
4/22/2013	XX	GWPWS35HE		0.005 U	4.9	1.42	1.8	0.05	0.4	3.9
7/29/2013	XX	GWPWS363J		0.005	13.3	11.4	3.9	0.51	1.1	5.6
10/28/2013	XX	GWPWS366C		0.006	6.2	1.53	2.3	0.09	0.5	4.5
4/21/2014	XX	GWPWS36EF		0.007	9.9	9.29	4.5	0.35	1.4	5.4
7/28/2014	XX	GWPWS36J2		0.005 U	7.5	5.45	2.2	0.22	0.7	5.3

(PWS10-3)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/20/2014	XX	GWPWS372D		0.006	6.2	1.2	2.2	0.07	0.6	5.2
4/27/2015	XX	GWPWS378A		0.005 U	4.8	1.78	1.7	0.08	0.6	2.6
7/13/2015	XX	GWPWS37C2		0.007	8	2.44	2.2	0.11	0.3 U	3.8
10/26/2015	XX	GWPWS37HB		0.01	8.1	1.57	2.6	0.15	0.3 U	4.2
4/4/2016	XX	GWPWS3861		0.005 U	20.6	0.48	3.6	0.05 U	0.6	4.2
7/25/2016	XX	GWPWS38AB		D	D	D	D	D	D	D
10/24/2016	XX	GWPWS38IA		0.005 U	17.1	0.22	5	0.1	0.3 U	6
4/17/2017	XX	GWPWS396G		0.005	6	1.5	2.1	0.34	0.9	3.5
7/24/2017	XX	GWPWS39CE		0.006	15	5.2	4.2	0.39	2.6	6.4
10/24/2017	XX	GWPWS39G9		D	D	D	D	D	D	D
4/2/2018	XX	GWPWS3A27	UF	0.005	3.5	0.17	1.3	0.05 U	0.6	3.8
7/16/2018	XX	GWPWS3AB9		D	D	D	D	D	D	D
10/1/2018	XX	GWPWS3B07	UF	0.005 U	9.6	0.37	3	0.05 U	0.6	6
4/22/2019	XX	GWPWS3B53	UF	0.005 U	4.3	0.34	1.6	0.05 U	1.1	8.6
7/15/2019	XX	GWPWS3BBG	UF	0.01	6.6	5.9	2.3	0.34	0.3	5.8
10/28/2019	XX	GWPWS3BH9	UF	0.005 U	3	0.7	0.7	0.21	0.6	0.5
4/27/2020	XX	GWPWS3CCG	UF	0.005 U	6	0.3	1.7	0.05 U	0.7	1.9
7/20/2020	XX	GWPWS3CH9	UF	0.007	13	13	3.5	2.8	0.4	3
10/26/2020	XX	GWPWS3D2D	UF	0.005 U	9.3	2.8	3.1	1	0.7	4.1

SW-1

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	SWXX1X495		0.005	5.4	0.32	1.7	0.02 U	0.5	5
7/19/2011	XX	SWXX1X4D3		0.009	26.2	10.9	7.4	1.1	1.5	8.4
10/25/2011	XX	SWXX1X4GI		0.002 U	7.5	0.53	2	0.02 J	0.3	4.5
4/24/2012	XX	SWXX1X518		0.005 U	5.4	0.23	1.8	0.05 U	1	5.1
7/24/2012	XX	SWXX1X567		0.01	10.6	2.32	3.6	0.25	0.8	5
10/23/2012	XX	SWXX1X5CI		0.005 U	11.6	0.3	2.6	0.05	1.1	4.1
4/23/2013	XX	SWXX1X5H9		0.005 U	5.2	0.24	1.9	0.05 U	1	6.3
7/30/2013	XX	SWXX1X63E		0.005 U	9.6	2.92	3.2	0.12	0.4	3.6
10/29/2013	XX	SWXX1X667		0.005 U	7.2	0.57	2.7	0.05 U	0.4	4.3
4/22/2014	XX	SWXX1X6EA		0.005 U	14.8	0.74	3.8	0.06	1	8
7/29/2014	XX	SWXX1X6IH		0.005 U	7.5	0.73	2.3	0.05 U	0.3	4.3
10/21/2014	XX	SWXX1X727		0.007	7.9	0.86	2.6	0.05 U	0.6	5.5
4/28/2015	XX	SWXX1X785		0.006	6.5	0.15	2.1	0.05 U	0.7	8.6
7/14/2015	XX	SWXX1X7BH		0.005 U	9.2	1.24	2.6	0.19	0.3	4.4
10/27/2015	XX	SWXX1X7H6		0.005 U	6.8	0.37	2.4	0.05 U	0.3	4.5
4/5/2016	XX	SWXX1X85G		0.005 U	5.7	0.08	1.9	0.05 U	0.4	6.6
7/26/2016	XX	SWXX1X8A6		0.012	22.6	8.95	6.9	0.41	1.1	6
10/25/2016	XX	SWXX1X8I5		0.005 U	9.5	0.71	2.9	0.05 U	0.7	4.9
4/18/2017	XX	SWXX1X96B		0.005 U	3.6	0.26	1.5	0.05 U	0.5	5.2
7/25/2017	XX	SWXX1X9C9		0.007	29	3.1	8.4	0.41	1.1	7.9
10/25/2017	XX	SWXX1X9G4		0.005 U	13	1.5	4	0.11	2.7	5.1
4/3/2018	XX	SWXX1XA22	UF	0.005 U	15	0.08	4.8	0.05 U	1	7.8
7/17/2018	XX	SWXX1XAB4	UF	0.01	28	9.8	7.1	0.73	0.9	6
10/2/2018	XX	SWXX1XB02	UF	0.005 U	16	0.89	4.2	0.09	0.6	6
4/23/2019	XX	SWXX1XB4I	UF	0.005 U	15	0.14	4.2	0.05 U	0.9	5
7/16/2019	XX	SWXX1XBBB	UF	0.006	10	4.8	3.3	1.1	0.5	6.5
10/29/2019	XX	SWXX1XBH4	UF	0.005 U	27	0.21	7.2	0.12	1.5	8
4/28/2020	XX	SWXX1XCCB	UF	0.005 U	24	0.07	6.5	0.05 U	1.4	7.1
7/21/2020	XX	SWXX1XCH4	UF	0.005 U	14	4.3	4.8	1.1	2.8	8.1

(SW-1)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
10/27/2020	XX	SWXX1XD28	UF	0.005 U	27	2.3	9.4	1.8	3.8	9.8

SW-2

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	SWXX2X496		0.006	3.8	0.17	1.4	0.02 U	0.4	5.7
4/26/2011	XD	SWDP2X49B		0.006	3.6	0.17	1.3	0.02 U	0.3	5.4
7/19/2011	XX	SWXX2X4D4		0.002 U	8.2	1.17	2.7	0.03 J	0.6	4.4
7/19/2011	XD	SWDP2X4D9		0.002 J	7.5	1.23	2.6	0.03 J	0.6	4.2
10/25/2011	XX	SWXX2X4GJ		0.002 U	5.3	0.32	1.7	0.02 U	0.2 J	4.8
10/25/2011	XD	SWDP2X4H4		0.002 U	5.4	0.31	1.8	0.02 U	0.2 J	4.9
4/24/2012	XX	SWXX2X519		0.005 U	6.1	0.26	2.5	0.05 U	1.2	11.1
4/24/2012	XD	SWDP2X51E		0.005 U	6.3	0.27	2.6	0.05 U	1.2	11.3
7/24/2012	XX	SWXX2X568		0.005 U	6.1	1.41	2.5	0.09	0.3	4.1
10/23/2012	XX	SWXX2X5CJ		0.005 U	3.9	0.31	1.6	0.05 U	0.9	2.9
10/23/2012	XD	SWDP2X5D4		0.005 U	4	0.34	1.6	0.05 U	0.9	2.8
4/23/2013	XX	SWXX2X5HA		0.005 U	4.2	0.2	1.8	0.05 U	1.2	6.7
4/23/2013	XD	SWDP2X5HF		0.005	4.1	0.16	1.8	0.05 U	1.1	6.4
7/30/2013	XX	SWXX2X63F		0.005 U	6.6	1.1	2.3	0.05	0.3 U	3.2
10/29/2013	XX	SWXX2X668		0.005 U	5.3	0.32	2.2	0.05 U	0.3	4.2
10/29/2013	XD	SWDP2X66D		0.005 U	5	0.32	2.1	0.05 U	0.3	3.8
4/22/2014	XX	SWXX2X6EB		0.005 U	4.7	0.24	1.8	0.05 U	0.8	5.5
4/22/2014	XD	SWDP2X6EG		0.005 U	4.5	0.24	1.8	0.05 U	0.8	5.5
7/29/2014	XX	SWXX2X6II		0.005 U	5.9	1.52	2	0.12	0.3 U	4.2
10/21/2014	XX	SWXX2X728		0.005 U	6.3	0.5	2.2	0.05 U	0.6	5.3
10/21/2014	XD	SWDP2X72E		0.005 U	6.3	0.5	2.3	0.05 U	0.5	5.6
4/28/2015	XX	SWXX2X786		0.005 U	4.4	0.17	1.7	0.05 U	0.6	8.1
4/28/2015	XD	SWDP2X78B		0.005 U	4.4	0.17	1.7	0.05 U	0.6	8.1
7/14/2015	XX	SWXX2X7BI		0.005 U	7.1	0.89	2.2	0.19	0.4	4.1
10/27/2015	XX	SWXX2X7H7		0.005 U	4.8	0.21	1.8	0.05 U	0.3 U	4.1
10/27/2015	XD	SWDP2X7HC		0.005 U	4.8	0.21	1.9	0.05 U	0.3 U	4.6
4/5/2016	XD	SWDP2X862		0.005 U	4.5	0.07	1.8	0.05 U	0.4	6.7
4/5/2016	XX	SWXX2X85H		0.005 U	4.6	0.07	1.8	0.05 U	0.4	6.9
7/26/2016	XX	SWXX2X8A7		0.011	9.1	1.41	2.8	0.12	0.3 U	3
10/25/2016	XD	SWDP2X8IB		0.005 U	9	0.69	2.8	0.05 U	0.7	4.9
10/25/2016	XX	SWXX2X8I6		0.005 U	8.6	0.65	2.7	0.05 U	0.7	4.7
4/18/2017	XD	SWDP2X96H		0.007	3.4	0.25	1.4	0.05 U	0.5	5.5
4/18/2017	XX	SWXX2X96C		0.005	3.3	0.26	1.4	0.05 U	0.5	5.3
7/25/2017	XX	SWXX2X9CA		0.005 U	11	2.5	3.3	0.35	0.5	5.1
10/25/2017	XD	SWDP2X9GA		0.005	7.9	1.1	2.6	0.11	1.8	6
10/25/2017	XX	SWXX2X9G5		0.005 U	7.8	1.1	2.6	0.11	1.7	5.8
4/3/2018	XD	SWDP2XA28	UF	0.005 U	2.5	0.25	1	0.05 U	0.4	3.5
4/3/2018	XX	SWXX2XA23	UF	0.005 U	2.4	0.25	1	0.05 U	0.4	3.7
7/17/2018	XX	SWXX2XAB5	UF	0.006	10	3.1	2.9	0.34	0.4	4
10/2/2018	XD	SWDP2XB08	UF	0.005 U	9	0.65	3.3	0.05 U	0.6	6.3
10/2/2018	XX	SWXX2XB03	UF	0.005 U	9.2	1	3.3	0.05 U	0.6	6.3
4/23/2019	XD	SWDP2XB54	UF	0.005 U	4.5	0.5	1.8	0.05 U	1.4	8.7
4/23/2019	XX	SWXX2XB4J	UF	0.005 U	4.8	0.48	1.8	0.05 U	1.4	8.4
7/16/2019	XD	SWDP2XBBH	UF	0.005	6.1	1.7	2.4	0.29	0.3	7.9
7/16/2019	XX	SWXX2XBBC	UF	0.005 U	5.9	1.7	2.3	0.33	0.3 U	7.5
10/29/2019	XD	SWDP2XBHA	UF	0.005 U	4.8	0.28	1.9	0.05 U	0.3 U	4.5
10/29/2019	XX	SWXX2XBH5	UF	0.005 U	4.9	0.29	1.9	0.05 U	0.3 U	4.6

(SW-2)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/28/2020	XD	SWDP2XCCH	UF	0.005 U	4.7	0.14	2	0.05 U	0.3	5.4
4/28/2020	XX	SWXX2XCCC	UF	0.005 U	4.7	0.11	1.9	0.05 U	0.3	5.2
7/21/2020	XD	SWDP2XCHA	UF	0.005 U	6.8	1.1	2.6	0.05	0.5	5.5
7/21/2020	XX	SWXX2XCH5	UF	0.005 U	7.3	1.2	2.7	0.08	0.5	5.4
10/27/2020	XD	SWDP2XD2E	UF	0.005 U	6.5	0.56	2.5	0.05 U	0.5	5.3
10/27/2020	XX	SWXX2XD29	UF	0.005 U	6.6	0.54	2.6	0.05 U	0.4	5.4

SW-3

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/26/2011	XX	SWXX3X497		0.003 J	4.7	0.21	1.3	0.02 J	0.4	5.5
7/19/2011	XX	SWXX3X4D5		0.003 J	10.1	1.03	2.6	0.21	0.2 J	4.3
10/25/2011	XX	SWXX3X4H0		0.002 U	6.8	0.54	1.7	0.03 J	0.4	4.1
4/24/2012	XX	SWXX3X51A		0.005 U	4.3	0.26	1.2	0.05 U	0.7	2.9
7/24/2012	XX	SWXX3X569		0.005	10.1	1.34	3	0.46	0.5	5.4
7/24/2012	XD	SWDP2X56D		0.005 U	7.5	1.17	3	0.42	0.5	5.2
10/23/2012	XX	SWXX3X5D0		0.005 U	4.3	0.36	1.2	0.05 U	0.7	2.4
4/23/2013	XX	SWXX3X5HB		0.005 U	4.8	0.17	1.6	0.05 U	0.7	4.7
7/30/2013	XX	SWXX3X63G		0.005 U	8.4	0.8	2.2	0.07	0.3 U	3.1
7/30/2013	XD	SWDP2X640		0.005 U	8.6	0.79	2.2	0.07	0.3 U	3.1
10/29/2013	XX	SWXX3X669		0.005 U	7.5	0.46	2.6	0.05	0.5	4.5
4/22/2014	XX	SWXX3X6EC		0.005 U	4.4	0.19	1.3	0.05 U	0.6	4.9
7/29/2014	XX	SWXX3X6IJ		0.005 U	7.7	0.49	1.9	0.05 U	0.6	3.4
7/29/2014	XD	SWDP2X6J3		0.005 U	8.3	0.52	2	0.05 U	0.6	3.8
10/21/2014	XX	SWXX3X729		0.005 U	8	0.46	2.2	0.05 U	0.9	4.7
4/28/2015	XX	SWXX3X787		0.005	5	0.19	1.5	0.05 U	0.5	6.8
7/14/2015	XX	SWXX3X7BJ		0.005 U	8.1	0.84	2.2	0.43	0.5	4.3
7/14/2015	XD	SWDP2X7C3		0.005 U	8.2	0.91	2.2	0.45	0.4	4.3
10/27/2015	XX	SWXX3X7H8		0.005 U	6.2	0.21	1.9	0.05 U	0.4	4
4/5/2016	XX	SWXX3X85I		0.005 U	5.5	0.21	1.6	0.05 U	0.4	5.6
7/26/2016	XD	SWDP2X8AC		0.005	11.2	1.05	2.7	0.44	0.3 U	4
7/26/2016	XX	SWXX3X8A8		0.005 U	11.2	1.06	2.8	0.44	0.3 U	4.2
10/25/2016	XX	SWXX3X8I7		0.005 U	10.4	0.6	2.3	0.09	1	4.1
4/18/2017	XX	SWXX3X96D		0.006	3.4	0.2	1.1	0.05 U	0.4	4.2
7/25/2017	XD	SWDP2X9CF		0.005 U	12	1.5	3.3	0.81	0.3 U	6.9
7/25/2017	XX	SWXX3X9CB		0.005 U	12	1.2	3.1	0.63	0.3 U	6.7
10/25/2017	XX	SWXX3X9G6		0.008	9.7	0.6	2.4	0.28	2.4	11
4/3/2018	XX	SWXX3XA24	UF	0.005	3.8	0.19	1.4	0.05 U	0.4	7.2
7/17/2018	XD	SWDP2XABA	UF	0.007	13	3.3	2.7	1.2	0.5	7.3
7/17/2018	XX	SWXX3XAB6	UF	0.005	12	2.7	2.6	1	0.4	6.2
10/2/2018	XX	SWXX3XB04	UF	0.005 U	11	0.28	2.3	0.05 U	0.6	4
4/23/2019	XX	SWXX3XB50	UF	0.005 U	4.4	0.3	1.2	0.05 U	0.8	6.1
7/16/2019	XX	SWXX3XBBD	UF	0.005 U	8.3	2.1	2.2	0.51	1.1	4.8
10/29/2019	XX	SWXX3XBH6	UF	0.005 U	4.8	0.46	1.3	0.05 U	0.4	3.1
4/28/2020	XX	SWXX3XCCD	UF	0.005 U	4.3	0.3	1.2	0.06	0.5	6.4
7/21/2020	XX	SWXX3XCH6	UF	0.005 U	8.6	1.4	2.6	0.48	1	7.2
10/27/2020	XX	SWXX3XD2A	UF	0.005 U	7.4	0.53	2.1	0.06	1.2	5

SW-DP1

Date	Type	Sample ID	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
4/26/2011	XX	SWDP1X49D		0.005	15.5	0.16	2.5	0.03 J	1.4	3.1
7/19/2011	XX	SWDP1X4DB		0.009	21.8	0.06	2.8	0.09	1.7	3
10/25/2011	XX	SWDP1X4H6		0.002 U	15.5	0.25	1.9	0.03 J	1.5	1.9

(SW-DP1)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/24/2012	XX	SWDP1X51G		0.005 U	13.9	2.94	2.3	0.13	1.9	2.1
7/24/2012	XX	SWDP1X56F		0.005	20.6	0.17	4.2	0.11	2.4	3.6
10/23/2012	XX	SWDP1X5D6		0.005 U	10.4	1.93	1.4	0.21	1.3	1.2
4/23/2013	XX	SWDP1X5HH		0.005	27.8	0.42	3.4	0.13	2.7	4.9
7/30/2013	XX	SWDP1X642		0.007	11	0.27	1.1	0.1	0.9	1.4
10/29/2013	XX	SWDP1X66F		0.005	24.2	0.24	3.6	0.21	1.8	3.5
4/22/2014	XX	SWDP1X6EI		0.006	10.8	0.31	1.5	0.05 U	1.2	1.8
7/29/2014	XX	SWDP1X6J5		0.005 U	6.7	0.29	0.7	0.05	0.6	0.8
10/21/2014	XX	SWDP1X72G		0.005	8	0.1	0.8	0.05 U	0.8	1
4/28/2015	XX	SWDP1X78D		0.008	13	0.23	1.4	0.08	1.1	3.2
7/14/2015	XX	SWDP1X7C5		0.005	14.4	0.23	1.7	0.08	0.3 U	1.7
10/27/2015	XX	SWDP1X7HE		0.005 U	8.4	0.12	1.1	0.05 U	1.3	1.6
4/5/2016	XX	SWDP1X864		0.005 U	12	0.53	1.7	0.05	1.2	2.4
7/26/2016	XX	SWDP1X8AE		0.013	17.1	0.29	2	0.08	1.4	2.1
10/25/2016	XX	SWDP1X8ID		0.005 U	11.6	0.7	1.1	0.06	1.3	1.3
4/18/2017	XX	SWDP1X96J		0.005	8.5	0.35	1.7	0.06	1	1.8
7/25/2017	XX	SWDP1X9CH		0.005 U	19	1	3.7	0.17	0.8	3.4
10/23/2017	XX	SWDP1X9GC		0.005	15	0.48	2.6	0.09	1.9	2.4
4/3/2018	XX	SWDP1XA2B	UF	0.005 U	3.8	0.17	0.4	0.05 U	0.6	0.8
7/17/2018	XX	SWDP1XABC	UF	0.007	13	0.9	1.6	0.08	0.3 U	0.8
10/2/2018	XX	SWDP1XB0A	UF	0.005 U	10	0.41	1.1	0.05	1.6	1.1
4/23/2019	XX	SWDP1XB57	UF	0.005 U	14	0.28	1.1	0.06	1.1	1.6
7/16/2019	XX	SWDP1XBBJ	UF	0.005	12	0.29	1.1	0.05	0.4	1.2
10/29/2019	XX	SWDP1XBHC	UF	0.005 U	15	1.4	1.7	0.14	2.1	1.6
4/28/2020	XX	SWDP1XCCJ	UF	0.005 U	24	0.39	4	0.11	12	27
7/21/2020	XX	SWDP1XCHC	UF	0.005 U	31	0.78	3.4	0.69	2.9	8.8
10/27/2020	XX	SWDP1XD2G	UF	0.005 U	23	1.5	2.2	0.32	5.3	3.2

SW-DP5

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/23/2013	XX	SWDP5X60I		0.005 U	22.4	0.32	1.8	0.06	1.9	4.7
7/30/2013	XX	SWDP5X65H		0.006	14.4	0.33	0.8	0.05 U	1	1.9
10/29/2013	XX	SWDP5X686		D	D	D	D	D	D	D
4/22/2014	XX	SWDP5X6GD		0.005 U	19.7	1.34	1.6	0.17	2.2	5.4
7/29/2014	XX	SWDP5X70F		0.006	14.2	0.4	0.8	0.09	1.6	1.9
10/21/2014	XX	SWDP5X743		0.01	18.4	0.27	0.8	0.05 U	1.3	1.5
4/28/2015	XX	SWDP5X7A3		0.007	24.1	0.23	1.3	0.09	1.9	8.6
7/14/2015	XX	SWDP5X7DF		0.005 U	22.6	0.38	1.2	0.22	2.2	3.2
10/27/2015	XX	SWDP5X7J2		D	D	D	D	D	D	D
7/26/2016	XX	SWDP5X8C4		D	D	D	D	D	D	D
10/25/2016	XX	SWDP5X902		I	I	I	I	I	I	I
4/18/2017	XX	SWDP5X989		D	D	D	D	D	D	D
7/25/2017	XX	SWDP5X9E6		0.005 U	29	0.32	1.8	0.16	2.6	2.4
10/24/2017	XX	SWDP5X9I1		D	D	D	D	D	D	D
4/3/2018	XX	SWDP5XA41	UF	0.005 U	5.3	0.23	0.5	0.05 U	0.7	1.3
7/17/2018	XX	SWDP5XAD1		D	D	D	D	D	D	D
10/2/2018	XX	SWDP5XB1J		D	D	D	D	D	D	D
4/23/2019	XX	SWDP5XB6H	UF	0.005 U	19	1.7	1.4	0.15	1.3	2.9
7/16/2019	XX	SWDP5XBD8	UF	0.005 U	14	0.23	0.9	0.13	1.4	1.5
10/29/2019	XX	SWDP5XBJ0	UF	0.005 U	16	1.1	1	0.25	1.3	1.2
4/28/2020	XX	SWDP5XCE8	UF	0.005 U	22	0.49	1.2	0.17	1.4	3.7

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(SW-DP5)

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
7/21/2020	XX	SWDP5XCJ1	UF	0.005 U	22	0.62	1.4	0.27	1.8	2.2
10/27/2020	XX	SWDP5XD44	UF	0.005 U	13	1.2	1	0.19	1.5	1.5

SW-DP6

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/26/2011	XX	SWDP6X49E		0.003 J	19.1	0.28	1.9	0.06	1.9	6.4
7/19/2011	XX	SWDP6X4DC		0.009	63.3	0.12	7.3	0.09	3.2	7.5
10/25/2011	XX	SWDP6X4H7		0.002 U	39.4	0.17	4	0.06	2.4	6
4/24/2012	XX	SWDP6X51H		0.005 U	14.1	0.1	1.9	0.05 U	1.6	3.8
7/24/2012	XX	SWDP6X56G		0.006	11	1.32	2.5	0.79	3.4	2.2
10/23/2012	XX	SWDP6X5D7		0.005 U	6.6	2.63	1.9	0.16	1.9	1.4
4/23/2013	XX	SWDP6X5HI		0.005 U	5.6	1.39	1.3	0.05	1.6	3
7/30/2013	XX	SWDP6X643		0.005 U	10.2	0.31	1.4	0.05	1.1	1.8
10/29/2013	XX	SWDP6X66G		0.005 U	10.6	0.23	1.6	0.05 U	1.1	1.9
4/22/2014	XX	SWDP6X6EJ		0.005 U	10.4	0.99	1.1	0.24	1.3	5.4
7/29/2014	XX	SWDP6X6J6		0.005 U	7.7	1.29	1	0.05 U	1	2.6
10/21/2014	XX	SWDP6X72H		0.005 U	9.6	0.36	1.1	0.05 U	1	2
4/28/2015	XX	SWDP6X78E		0.006	11.1	0.7	1.1	0.05 U	1.5	2.8
7/14/2015	XX	SWDP6X7C6		0.005 U	12.4	2.46	2.4	0.46	2.3	2.7
10/27/2015	XX	SWDP6X7HF		0.005 U	8.4	0.19	1.4	0.05 U	1.3	1.5
4/5/2016	XX	SWDP6X865		0.005 U	8.2	0.57	1	0.05 U	1.1	2.8
7/26/2016	XX	SWDP6X8AF		0.009	18.5	0.6	1.7	0.08	1.6	2
10/25/2016	XX	SWDP6X8IE		0.005 U	14.6	1.85	1.5	0.09	1.9	1.6
4/18/2017	XX	SWDP6X970		0.005 U	5.3	0.64	0.8	0.11	1	3.5
7/25/2017	XX	SWDP6X9CI		0.005 U	8.5	1.4	1.5	0.05 U	0.7	5.1
10/23/2017	XX	SWDP6X9GD		0.005 U	10	0.26	1.4	0.05 U	1.3	4.3
4/3/2018	XX	SWDP6XA2C	UF	0.005 U	7.9	0.47	1.1	0.16	0.9	2.2
7/17/2018	XX	SWDP6XABD	UF	0.005	15	0.5	1.5	0.1	1.3	4.3
10/2/2018	XX	SWDP6XB0B	UF	0.005 U	16	0.23	1.7	0.05 U	1.5	3.5
4/23/2019	XX	SWDP6XB58	UF	0.005	8.1	1.3	1.2	0.1	1.6	3.5
7/16/2019	XX	SWDP6XBC0	UF	0.005	6.6	1.6	1.1	0.05 U	1.5	2.8
10/29/2019	XX	SWDP6XBHD	UF	0.005 U	4.6	0.38	0.7	0.05 U	0.9	1.3
4/28/2020	XX	SWDP6XCD0	UF	0.005 U	4.6	0.4	0.7	0.05 U	0.8	2.6
7/21/2020	XX	SWDP6XCHD	UF	0.005 U	7.8	0.73	1.1	0.2	1.4	2.4
10/27/2020	XX	SWDP6XD2H	UF	0.005 U	10	0.9	1.4	0.09	1.9	1.6

OFFICE WELL

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/6/2016	XX	DWOFFX87J		0.005 U	38	0.05 U	4.7	0.05 U	0.6	8.3
4/19/2017	XX	DWOFFX98D		0.005 U	37	0.05 U	5.4	0.05 U	0.9	10
4/4/2018	XX	DWOFFXA45	UF	0.005 U	51	0.05 U	6.2	0.05 U	0.9	13
4/22/2019	XX	DWOFFXB71	UF	0.005 U	50	0.05 U	5.6	0.05 U	0.9	14
7/15/2019	XX	DWOFFXBDB	UF	0.005 U	43	0.05 U	5.3	0.05 U	0.7	13

SCALE HOUSE WELL

Date	Type	Sample ID	Filtration -	Arsenic mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L
4/6/2016	XX	DWSCLX880		0.005 U	69.8	0.22	8.7	0.05 U	1.3	18.8
4/19/2017	XX	DWSCLX98E		0.005 U	64	0.05 U	9.6	0.05 U	1.5	23
4/4/2018	XX	DWSCLXA46	UF	0.005	64	0.05	8.5	0.05 U	1.3	20
4/22/2019	XX	DWSCLXB72	UF	0.005 U	59	0.09	8.2	0.05 U	1.4	25
7/15/2019	XX	DWSCLXBDC	UF	0.005 U	64	0.05 U	8.8	0.05 U	1.5	26

(SCALE HOUSE WELL)	Filtration	Arsenic	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
	-	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Date Type Sample ID								

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

! - The sampling location was damaged or destroyed.
A - The sampling location was Inaccessible
D - The sampling location was dry.
F12 - Pipe under water, no sample taken.
F6 - No flow. Sample not taken.
H2 - Waterlevel higher than pipes. See LF-COMP for readings
I - The sampling location yielded insufficient quantity to collect a sample.
J - Analyte was positively identified/Associated value is an estimate.
U - Not Detected above the laboratory reporting limit.

Sample collection notes:

FILT - One or more analytical parameters were field filtered.
UF - No analytical parameters were field filtered

REPORT PREPARED: 4/1/2021 10:22

FOR: Juniper Ridge Landfill

SUMMARY REPORT

VOA Part 1 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
DP-4																	
4/25/2011	XX	GWXXXX4AD	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52G	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2013	XX	GWXXXX5IH	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
LF-COMP																	
4/24/2012	XX	LFXXXX53B	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
LF-UD-1																	
4/26/2011	XX	LFUD1X4A2	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD1X525	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD1X5I6	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFUD1X6F7	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LFUD1X792	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LFUD1X86D	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/18/2017	XX	LFUD1X978	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFUD1XA30	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LFUD1XB5G	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LFUD1XCD8	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-2																	
4/26/2011	XX	LFUD2X4A3	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD2X526	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD2X5I7	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFUD2X6F8	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LFUD2X793	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LFUD2X86E	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/18/2017	XX	LFUD2X979	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFUD2XA31	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LFUD2XB5H	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD2XCD9	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
LF-UD-3A,B																	
4/26/2011	XX	LFXXXX4B1	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX534	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J5	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFXXXX6G6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79G	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX877	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-4																	
4/26/2011	XX	LFXXXX4B3	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12
4/24/2012	XX	LFXXXX536	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J6	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFXXXX6G7	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LFXXXX79H	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX878	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-4)

Date	Type	Sample ID	Chloromethane	Bromomethane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloroethene	1,1-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	1,2-Dichloroethane	Methyl Ethyl Ketone	1,1,1-Trichloroethane	Carbon Tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4/18/2017	XX	LFXXXX983	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFXXXXA3F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE2	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

LF-UD-5and6

Date	Type	Sample ID	Chloromethane	Bromomethane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloroethene	1,1-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	1,2-Dichloroethane	Methyl Ethyl Ketone	1,1,1-Trichloroethane	Carbon Tetrachloride
4/26/2011	XX	LFXXXX4B4	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX537	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2013	XX	LFXXXX5J7	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFXXXX6G8	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LFXXXX79I	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LFXXXX879	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/18/2017	XX	LFXXXX984	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFXXXXA3G	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LFXXXXB6C	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LFXXXXCE3	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

LF-UD-6

Date	Type	Sample ID	Chloromethane	Bromomethane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloroethene	1,1-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	1,2-Dichloroethane	Methyl Ethyl Ketone	1,1,1-Trichloroethane	Carbon Tetrachloride
4/26/2011	XX	LFUD6X4B6	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD6X539	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2013	XX	LFUD6X5J9	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFUD6X6GA	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LFUD6X7A0	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LFUD6X87B	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/18/2017	XX	LFUD6X986	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFUD6XA3I	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LFUD6XB6E	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LFUD6XCE5	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

LF-UD-7

Date	Type	Sample ID	Chloromethane	Bromomethane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloroethene	1,1-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	1,2-Dichloroethane	Methyl Ethyl Ketone	1,1,1-Trichloroethane	Carbon Tetrachloride
4/24/2012	XX	LFUD7X53A	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD7X5JA	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD7X6GB	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD7X7A1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD7X87C	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

LF-UD-8

Date	Type	Sample ID	Chloromethane	Bromomethane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloroethene	1,1-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	1,2-Dichloroethane	Methyl Ethyl Ketone	1,1,1-Trichloroethane	Carbon Tetrachloride
4/23/2013	XX	LFUD8X5JD	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LFUD8X6GC	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12
4/28/2015	XX	LFUD8X7A2	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LFUD8X87D	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFUD8XA40	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LFUD8XB6G	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LFUD8XCE7	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

LF-UD-9

(LF-UD-9) Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
4/5/2016	XX	LFUD9X881	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LFUD9XA47	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-10																	
4/3/2018	XX	LFXXXXA48	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-1																	
4/26/2011	XX	LPUD1X4A4	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LPUD1X527	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LPUD1X5I8	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LPUD1X6F9	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LPUD1X794	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LPUD1X86F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LPUD1XCDA	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-2																	
4/26/2011	XX	LPUD2X4A5	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	LPUD2X528	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2013	XX	LPUD2X5I9	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2014	XX	LPUD2X6FA	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/28/2015	XX	LPUD2X795	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	LPUD2X86G	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/18/2017	XX	LPUD2X97B	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	LPUD2XA33	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	LPUD2XB5J	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	LPUD2XCDB	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
MW06-01																	
4/10/2018	XD	GWDP1XA68	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/10/2018	XX	GWXXXXA70	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/4/2018	XX	GWXXXXA7H	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
MW-204																	
4/26/2011	XX	GW204X4A9	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/24/2012	XX	GW204X52C	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2013	XX	GW204X5ID	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
MW12-303R																	
6/18/2015	XX	42173-1	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
MW-401B																	
4/25/2011	XX	GW401B49I	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/25/2011	XD	GWDP4X4A1	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/23/2012	XX	GW401B521	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
(MW-401B)																	
4/23/2012	XD	GWDP4X524	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2013	XX	GW401B5I2	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2013	XD	GWDP4X5I5	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/21/2014	XX	GW401B6F3	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/21/2014	XD	GWDP4X6F6	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	GW401B78I	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XD	GWDP4X791	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/6/2016	XD	GWDP4X86C	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/6/2016	XX	GW401B869	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/17/2017	XD	GWDP4X977	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/17/2017	XX	GW401B974	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/2/2018	XD	GWDP4XA2J	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/2/2018	XX	GW401BA2G	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2019	XD	GWDP4XB5F	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2019	XX	GW401BB5C	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/27/2020	XD	GWDP4XCD7	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/27/2020	XX	GW401BCD4	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
MW-501																	
4/5/2018	XX	GW501XA6I	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/4/2018	XX	GW501XA7F	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
OW-06-03																	
4/10/2018	XX	GWXXXXA73	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/5/2018	XX	GWXXXXA80	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
OW-601A																	
4/11/2018	XX	GW601AA69	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XX	GW601AA76	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/19/2018	XX	GW601AAE4	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
OW-601B																	
4/11/2018	XX	GW601BA6A	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XX	GW601BA77	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
OW-602A																	
4/11/2018	XX	GW602AA6B	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XD	GWDP1XA75	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XX	GW602AA78	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
OW-603B																	
4/12/2018	XX	GW603BA6C	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/5/2018	XX	GW603BA79	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
OW-604A																	
4/12/2018	XX	GW604AA6D	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/4/2018	XX	GW604AA7A	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
P-04-02																	
4/27/2011	XX	GWXXXX4AE	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52H	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
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(P-04-02)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
4/22/2013	XX	GWXXXX5II	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	1 U	0.5 U	0.5 U	5 U	14	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	2.5 U	1 U	1 U	1 U	3 U	5 U	5 U	0.5 U	0.75 U	0.75 U	0.75 U	0.5 U	5 U	0.5 U	0.5 U
10/29/2013	XX	BTXXXX68C	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/21/2014	XX	BTXXXX6G4	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/22/2014	XX	BTXXXX6G5	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/30/2014	XX	BTXXXX70B	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/21/2014	XX	BTXXXX748	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79E	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79F	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79J	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/15/2015	XX	BTXXXX7DB	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/27/2015	XX	BTXXXX7II	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	BTXXXX87GX	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	BTXXXX876	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/6/2016	XX	BTXXXX875	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/26/2016	XX	BTXXXX8BF	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/25/2016	XX	BTXXXX8JE	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/17/2017	XX	BTXXXX985	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/18/2017	XX	BTXXXX980	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/18/2017	XX	BTXXXX981	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/25/2017	XX	BTXXXX9DI	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/24/2017	XX	BTXXXX9HD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/2/2018	XX	BTXXXXA3C	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXA3H	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXHHD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXHG3	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/4/2018	XX	BTXXXXA5F	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/5/2018	XX	BTXXXXA71	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/10/2018	XX	BTXXXXA72	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/11/2018	XX	BTXXXXHHB	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/12/2018	XX	BTXXXXHHC	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/4/2018	XX	BTXXXXA74	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/5/2018	XX	BTXXXXA7I	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XX	BTXXXXA7J	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/17/2018	XX	BTXXXXACD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
7/19/2018	XX	BTXXXXAE2	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
8/20/2018	XX	BTXXXXAF3	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/2/2018	XX	BTXXXXB1B	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2019	XX	BTXXXXB6D	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	BTXXXXB69	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	BTXXXXB68	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/16/2019	XX	BTXXXXBCJ	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/29/2019	XX	BTXXXXBIC	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
2/25/2020	XX	BTXXXXC86	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
2/26/2020	XX	BTXXXXC5G	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/27/2020	XX	BTXXXXCDJ	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	BTXXXXCE4	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	BTXXXXCE0	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/30/2020	XX	BTXXXXCC3	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/23/2020	XX	BTXXXXCGE	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/21/2020	XX	BTXXXXCGH	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/21/2020	XX	BTXXXXCIC	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
8/20/2020	XX	BTXXXXD21	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/27/2020	XX	BTXXXXD3G	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- ! - The sampling location was damaged or destroyed.
- F12 - Pipe under water, no sample taken.
- F6 - No flow. Sample not taken.
- H2 - Waterlevel higher than pipes. See LF-COMP for readings
- I - The sampling location yielded insufficient quantity to collect a sample.
- U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 4/1/2021 10:22

FOR: Juniper Ridge Landfill

SUMMARY REPORT

VOA Part 2 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
DP-4																	
4/25/2011	XX	GWXXXX4AD	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52G	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2013	XX	GWXXXX5IH	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
LF-COMP																	
4/24/2012	XX	LFXXXX53B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
LF-UD-1																	
4/26/2011	XX	LFUD1X4A2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD1X525	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD1X5I6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFUD1X6F7	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LFUD1X792	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LFUD1X86D	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/18/2017	XX	LFUD1X978	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFUD1XA30	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LFUD1XB5G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LFUD1XCD8	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-2																	
4/26/2011	XX	LFUD2X4A3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD2X526	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD2X5I7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFUD2X6F8	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LFUD2X793	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LFUD2X86E	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/18/2017	XX	LFUD2X979	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFUD2XA31	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LFUD2XB5H	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD2XCD9	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
LF-UD-3A,B																	
4/26/2011	XX	LFXXXX4B1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX534	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J5	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFXXXX6G6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79G	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX877	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-4																	
4/26/2011	XX	LFXXXX4B3	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12
4/24/2012	XX	LFXXXX536	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFXXXX6G7	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LFXXXX79H	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX878	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LF-UD-4) Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
4/18/2017	XX	LFXXXX983	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFXXXXA3F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE2	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-5and6																	
4/26/2011	XX	LFXXXX4B4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX537	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/23/2013	XX	LFXXXX5J7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFXXXX6G8	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LFXXXX79I	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LFXXXX879	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/18/2017	XX	LFXXXX984	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFXXXXA3G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LFXXXXB6C	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LFXXXXCE3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
LF-UD-6																	
4/26/2011	XX	LFUD6X4B6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD6X539	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1.5	1 U	1 U
4/23/2013	XX	LFUD6X5J9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFUD6X6GA	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LFUD6X7A0	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LFUD6X87B	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/18/2017	XX	LFUD6X986	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFUD6XA3I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LFUD6XB6E	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LFUD6XCE5	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
LF-UD-7																	
4/24/2012	XX	LFUD7X53A	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD7X5JA	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD7X6GB	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD7X7A1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD7X87C	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-8																	
4/23/2013	XX	LFUD8X5JD	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LFUD8X6GC	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12
4/28/2015	XX	LFUD8X7A2	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LFUD8X87D	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFUD8XA40	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LFUD8XB6G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LFUD8XCE7	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-9																	

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(LF-UD-9)			Vinyl Acetate	Bromo dichloro methane	1,2-Dichloro propane	cis-1,3-Dichloro propene	Trichloroethene	Dibromo chloromethane	1,1,2-Trichloroethane	Benzene	trans-1,3-Dichloro propene	Bromoform	4-Methyl-2-Pentanone	2-Hexanone	Tetrachloro ethene	1,1,2,2-Tetrachloro ethane	Toluene
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4/5/2016	XX	LFUD9X881	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LFUD9XA47	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-10																	
4/3/2018	XX	LFXXXXA48	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-1																	
4/26/2011	XX	LPUD1X4A4	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LPUD1X527	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LPUD1X5I8	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LPUD1X6F9	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LPUD1X794	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LPUD1X86F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LPUD1XCDA	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-2																	
4/26/2011	XX	LPUD2X4A5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LPUD2X528	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/23/2013	XX	LPUD2X5I9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2014	XX	LPUD2X6FA	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/28/2015	XX	LPUD2X795	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	LPUD2X86G	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/18/2017	XX	LPUD2X97B	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	LPUD2XA33	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	LPUD2XB5J	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	LPUD2XCDB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
MW06-01																	
4/10/2018	XD	GWDP1XA68	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/10/2018	XX	GWXXXXA70	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/4/2018	XX	GWXXXXA7H	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
MW-204																	
4/26/2011	XX	GW204X4A9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.63 J
4/24/2012	XX	GW204X52C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2013	XX	GW204X5ID	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
MW12-303R																	
6/18/2015	XX	42173-1	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
MW-401B																	
4/25/2011	XX	GW401B49I	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/25/2011	XD	GWDP4X4A1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	GW401B521	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
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CUMBERLAND CENTER, ME 04021

Date	Type	Sample ID	Vinyl Acetate	Bromo dichloro methane	1,2-Dichloro propane	cis-1,3-Dichloro propene	Trichloroethene	Dibromo chloromethane	1,1,2-Trichloroethane	Benzene	trans-1,3-Dichloro propene	Bromoform	4-Methyl-2-Pentanone	2-Hexanone	Tetrachloro ethene	1,1,2,2-Tetrachloro ethane	Toluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(MW-401B)																	
4/23/2012	XD	GWDP4X524	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2013	XX	GW401B5I2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2013	XD	GWDP4X5I5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/21/2014	XX	GW401B6F3	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/21/2014	XD	GWDP4X6F6	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	GW401B78I	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XD	GWDP4X791	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/6/2016	XD	GWDP4X86C	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/6/2016	XX	GW401B869	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/17/2017	XD	GWDP4X977	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/17/2017	XX	GW401B974	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/2/2018	XD	GWDP4XA2J	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/2/2018	XX	GW401BA2G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/22/2019	XD	GWDP4XB5F	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/22/2019	XX	GW401BB5C	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/27/2020	XD	GWDP4XCD7	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/27/2020	XX	GW401BCD4	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
MW-501																	
4/5/2018	XX	GW501XA6I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/4/2018	XX	GW501XA7F	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
OW-06-03																	
4/10/2018	XX	GWXXXXA73	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/5/2018	XX	GWXXXXA80	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
OW-601A																	
4/11/2018	XX	GW601AA69	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1.1	1 U	1 U
6/6/2018	XX	GW601AA76	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/19/2018	XX	GW601AAE4	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
OW-601B																	
4/11/2018	XX	GW601BA6A	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/6/2018	XX	GW601BA77	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
OW-602A																	
4/11/2018	XX	GW602AA6B	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/6/2018	XD	GWDP1XA75	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/6/2018	XX	GW602AA78	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
OW-603B																	
4/12/2018	XX	GW603BA6C	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/5/2018	XX	GW603BA79	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
OW-604A																	
4/12/2018	XX	GW604AA6D	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/4/2018	XX	GW604AA7A	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
P-04-02																	
4/27/2011	XX	GWXXXX4AE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52H	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U

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(P-04-02)

Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
4/22/2013	XX	GWXXXX5II	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2012	XX	BTXXXX533	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/25/2012	XX	BTXXXX538	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	5 U	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.75 U	0.5 U	0.5 U	2 U	5 U	5 U	0.5 U	0.5 U	0.75 U
10/29/2013	XX	BTXXXX68C	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/21/2014	XX	BTXXXX6G4	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/22/2014	XX	BTXXXX6G5	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/30/2014	XX	BTXXXX70B	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/21/2014	XX	BTXXXX748	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79E	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79F	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79J	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/15/2015	XX	BTXXXX7DB	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/27/2015	XX	BTXXXX7II	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX87GX	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX876	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/6/2016	XX	BTXXXX875	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/26/2016	XX	BTXXXX8BF	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/25/2016	XX	BTXXXX8JE	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/17/2017	XX	BTXXXX985	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/18/2017	XX	BTXXXX980	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/18/2017	XX	BTXXXX981	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/25/2017	XX	BTXXXX9DI	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/24/2017	XX	BTXXXX9HD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/2/2018	XX	BTXXXXA3C	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXA3H	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXHHD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXHG3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/4/2018	XX	BTXXXXA5F	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/5/2018	XX	BTXXXXA71	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/10/2018	XX	BTXXXXA72	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/11/2018	XX	BTXXXXHHB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/12/2018	XX	BTXXXXHHC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/4/2018	XX	BTXXXXA74	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/5/2018	XX	BTXXXXA7I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/6/2018	XX	BTXXXXA7J	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/17/2018	XX	BTXXXXACD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U

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(QCBT)

Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
7/19/2018	XX	BTXXXXAE2	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
8/20/2018	XX	BTXXXXAF3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/2/2018	XX	BTXXXXB1B	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/22/2019	XX	BTXXXXB6D	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	BTXXXXB69	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	BTXXXXB68	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/16/2019	XX	BTXXXXBCJ	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/29/2019	XX	BTXXXXBIC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
2/25/2020	XX	BTXXXXC86	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
2/26/2020	XX	BTXXXXC5G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/27/2020	XX	BTXXXXCDJ	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	BTXXXXCE4	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	BTXXXXCE0	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/30/2020	XX	BTXXXXCC3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/23/2020	XX	BTXXXXCGE	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/21/2020	XX	BTXXXXCGH	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/21/2020	XX	BTXXXXCIC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
8/20/2020	XX	BTXXXXD21	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/27/2020	XX	BTXXXXD3G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

! - The sampling location was damaged or destroyed.
F12 - Pipe under water, no sample taken.
F6 - No flow. Sample not taken.
H2 - Waterlevel higher than pipes. See LF-COMP for readings
I - The sampling location yielded insufficient quantity to collect a sample.
J - Analyte was positively identified/Associated value is an estimate.
U - Not Detected above the laboratory reporting limit.

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	Chlorobenzene	Ethylbenzene	Styrene	o-Xylene	m,p-Xylene	Tetra hydrofuran	Trichloro fluoromethane	cis-1,2-Dichloroethene	Bromochloro methane	Dibromo methane	1,2-Dibromoethane	1,1,1,2-Tetrachloro ethane	1,2,3-Trichloro propane	1,2-Dibromo-3-Chloropropane	1,4-Dichloro benzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DP-4																	
4/25/2011	XX	GWXXXX4AD	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52G	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2013	XX	GWXXXX5IH	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LF-COMP																	
4/24/2012	XX	LFXXXX53B	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LF-UD-1																	
4/26/2011	XX	LFUD1X4A2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD1X525	H2	H2	H2	H2	H2		H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD1X5I6	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFUD1X6F7	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LFUD1X792	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LFUD1X86D	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LFUD1X978	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFUD1XA30	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LFUD1XB5G	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LFUD1XCD8	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-2																	
4/26/2011	XX	LFUD2X4A3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD2X526	H2	H2	H2	H2	H2		H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD2X5I7	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFUD2X6F8	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LFUD2X793	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LFUD2X86E	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LFUD2X979	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFUD2XA31	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LFUD2XB5H	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD2XCD9	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
LF-UD-3A,B																	
4/26/2011	XX	LFXXXX4B1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX534	H2	H2	H2	H2	H2		H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J5	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFXXXX6G6	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFXXXX79G	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX877	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-4																	
4/26/2011	XX	LFXXXX4B3	F12	F12	F12	F12	F12		F12	F12	F12	F12	F12	F12	F12	F12	F12
4/24/2012	XX	LFXXXX536	H2	H2	H2	H2	H2		H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFXXXX5J6	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFXXXX6G7	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LFXXXX79H	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFXXXX878	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6

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(LF-UD-4) Date	Type	Sample ID	Chlorobenzene ug/L	Ethylbenzene ug/L	Styrene ug/L	o-Xylene ug/L	m,p-Xylene ug/L	Tetra hydrofuran ug/L	Trichloro fluoromethane ug/L	cis-1,2-Dichloroethene ug/L	Bromochloro methane ug/L	Dibromo methane ug/L	1,2-Dibromoethane ug/L	1,1,1,2-Tetrachloro ethane ug/L	1,2,3-Trichloro propane ug/L	1,2-Dibromo-3-Chloropropane ug/L	1,4-Dichloro benzene ug/L
4/18/2017	XX	LFXXXX983	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFXXXXA3F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE2	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-5and6																	
4/26/2011	XX	LFXXXX4B4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFXXXX537	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/23/2013	XX	LFXXXX5J7	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFXXXX6G8	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LFXXXX79I	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LFXXXX879	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LFXXXX984	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFXXXXA3G	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LFXXXXB6C	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LFXXXXCE3	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
LF-UD-6																	
4/26/2011	XX	LFUD6X4B6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LFUD6X539	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/23/2013	XX	LFUD6X5J9	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFUD6X6GA	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LFUD6X7A0	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LFUD6X87B	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LFUD6X986	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFUD6XA3I	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LFUD6XB6E	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LFUD6XCE5	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
LF-UD-7																	
4/24/2012	XX	LFUD7X53A	H2	H2	H2	H2	H2		H2	H2	H2	H2	H2	H2	H2	H2	H2
4/23/2013	XX	LFUD7X5JA	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LFUD7X6GB	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LFUD7X7A1	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LFUD7X87C	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-8																	
4/23/2013	XX	LFUD8X5JD	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LFUD8X6GC	F12	F12	F12	F12	F12		F12	F12	F12	F12	F12	F12	F12	F12	F12
4/28/2015	XX	LFUD8X7A2	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LFUD8X87D	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFUD8XA40	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LFUD8XB6G	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LFUD8XCE7	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-9																	

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(LF-UD-9)			Chlorobenzene	Ethylbenzene	Styrene	o-Xylene	m,p-Xylene	Tetra hydrofuran	Trichloro fluoromethane	cis-1,2-Dichloroethene	Bromochloro methane	Dibromo methane	1,2-Dibromoethane	1,1,1,2-Tetrachloro ethane	1,2,3-Trichloro propane	1,2-Dibromo-3-Chloropropane	1,4-Dichloro benzene
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4/5/2016	XX	LFUD9X881	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LFUD9XA47	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LF-UD-10																	
4/3/2018	XX	LFXXXXA48	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-1																	
4/26/2011	XX	LPUD1X4A4	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/24/2012	XX	LPUD1X527	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2013	XX	LPUD1X5I8	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/22/2014	XX	LPUD1X6F9	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/28/2015	XX	LPUD1X794	F6	F6	F6	F6	F6		F6	F6	F6	F6	F6	F6	F6	F6	F6
4/5/2016	XX	LPUD1X86F	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LPUD1XCDA	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6
LP-UD-2																	
4/26/2011	XX	LPUD2X4A5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	LPUD2X528	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/23/2013	XX	LPUD2X5I9	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2014	XX	LPUD2X6FA	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/28/2015	XX	LPUD2X795	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	LPUD2X86G	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LPUD2X97B	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LPUD2XA33	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	LPUD2XB5J	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	LPUD2XCDB	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
MW06-01																	
4/10/2018	XD	GWDP1XA68	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/10/2018	XX	GWXXXXA70	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/4/2018	XX	GWXXXXA7H	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
MW-204																	
4/26/2011	XX	GW204X4A9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/24/2012	XX	GW204X52C	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2013	XX	GW204X5ID	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW12-303R																	
6/18/2015	XX	42173-1	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
MW-401B																	
4/25/2011	XX	GW401B49I	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/25/2011	XD	GWDP4X4A1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	GW401B521	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

(MW-401B) Date	Type	Sample ID	Chlorobenzene ug/L	Ethylbenzene ug/L	Styrene ug/L	o-Xylene ug/L	m,p-Xylene ug/L	Tetra hydrofuran ug/L	Trichloro fluoromethane ug/L	cis-1,2-Dichloroethene ug/L	Bromochloro methane ug/L	Dibromo methane ug/L	1,2-Dibromoethane ug/L	1,1,1,2-Tetrachloro ethane ug/L	1,2,3-Trichloro propane ug/L	1,2-Dibromo-3-Chloropropane ug/L	1,4-Dichloro benzene ug/L
4/23/2012	XD	GWDP4X524	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2013	XX	GW401B5I2	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2013	XD	GWDP4X5I5	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/21/2014	XX	GW401B6F3	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/21/2014	XD	GWDP4X6F6	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	GW401B78I	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XD	GWDP4X791	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/6/2016	XD	GWDP4X86C	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/6/2016	XX	GW401B869	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/17/2017	XD	GWDP4X977	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/17/2017	XX	GW401B974	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/2/2018	XD	GWDP4XA2J	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/2/2018	XX	GW401BA2G	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/22/2019	XD	GWDP4XB5F	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/22/2019	XX	GW401BB5C	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/27/2020	XD	GWDP4XCD7	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/27/2020	XX	GW401BCD4	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
MW-501																	
4/5/2018	XX	GW501XA6I	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/4/2018	XX	GW501XA7F	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
OW-06-03																	
4/10/2018	XX	GWXXXXA73	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/5/2018	XX	GWXXXXA80	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
OW-601A																	
4/11/2018	XX	GW601AA69	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XX	GW601AA76	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/19/2018	XX	GW601AAE4	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
OW-601B																	
4/11/2018	XX	GW601BA6A	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XX	GW601BA77	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
OW-602A																	
4/11/2018	XX	GW602AA6B	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XD	GWDP1XA75	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XX	GW602AA78	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
OW-603B																	
4/12/2018	XX	GW603BA6C	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/5/2018	XX	GW603BA79	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
OW-604A																	
4/12/2018	XX	GW604AA6D	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/4/2018	XX	GW604AA7A	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
P-04-02																	
4/27/2011	XX	GWXXXX4AE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/25/2012	XX	GWXXXX52H	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(P-04-02)

Date	Type	Sample ID	Chlorobenzene	Ethylbenzene	Styrene	o-Xylene	m,p-Xylene	Tetra hydrofuran	Trichloro fluoromethane	cis-1,2-Dichloroethene	Bromochloro methane	Dibromo methane	1,2-Dibromoethane	1,1,1,2-Tetrachloro ethane	1,2,3-Trichloro propane	1,2-Dibromo-3-Chloropropane	1,4-Dichloro benzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4/22/2013	XX	GWXXXX5II	!	!	!	!	!		!	!	!	!	!	!	!	!	!
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	0.5 U	0.5 U	1 U	1 U	1 U		2.5 U	0.5 U	2.5 U	5 U	2 U	0.5 U	5 U	2.5 U	2.5 U
10/29/2013	XX	BTXXXX68C	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/21/2014	XX	BTXXXX6G4	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/22/2014	XX	BTXXXX6G5	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/30/2014	XX	BTXXXX70B	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/21/2014	XX	BTXXXX748	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79E	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79F	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79J	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/15/2015	XX	BTXXXX7DB	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/27/2015	XX	BTXXXX7II	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX87GX	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX876	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/6/2016	XX	BTXXXX875	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/26/2016	XX	BTXXXX8BF	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/25/2016	XX	BTXXXX8JE	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/17/2017	XX	BTXXXX985	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/18/2017	XX	BTXXXX980	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/18/2017	XX	BTXXXX981	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/25/2017	XX	BTXXXX9DI	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/24/2017	XX	BTXXXX9HD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/2/2018	XX	BTXXXXA3C	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5	2 U	1 U
4/3/2018	XX	BTXXXXA3H	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	BTXXXXHHD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	BTXXXXHG3	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/4/2018	XX	BTXXXXA5F	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/5/2018	XX	BTXXXXA71	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/10/2018	XX	BTXXXXA72	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/11/2018	XX	BTXXXXHHB	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/12/2018	XX	BTXXXXHHC	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/4/2018	XX	BTXXXXA74	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/5/2018	XX	BTXXXXA7I	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XX	BTXXXXA7J	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/17/2018	XX	BTXXXXACD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Chlorobenzene ug/L	Ethylbenzene ug/L	Styrene ug/L	o-Xylene ug/L	m,p-Xylene ug/L	Tetra hydrofuran ug/L	Trichloro fluoromethane ug/L	cis-1,2-Dichloroethene ug/L	Bromochloro methane ug/L	Dibromo methane ug/L	1,2-Dibromoethane ug/L	1,1,1,2-Tetrachloro ethane ug/L	1,2,3-Trichloro propane ug/L	1,2-Dibromo-3-Chloropropane ug/L	1,4-Dichloro benzene ug/L
7/19/2018	XX	BTXXXXAE2	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
8/20/2018	XX	BTXXXXAF3	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/2/2018	XX	BTXXXXB1B	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/22/2019	XX	BTXXXXB6D	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	BTXXXXB69	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	BTXXXXB68	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/16/2019	XX	BTXXXXBCJ	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/29/2019	XX	BTXXXXBIC	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
2/25/2020	XX	BTXXXXC86	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
2/26/2020	XX	BTXXXXC5G	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/27/2020	XX	BTXXXXCDJ	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	BTXXXXCE4	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	BTXXXXCE0	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/30/2020	XX	BTXXXXCC3	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
6/23/2020	XX	BTXXXXCGE	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
7/21/2020	XX	BTXXXXCGH	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
7/21/2020	XX	BTXXXXCIC	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
8/20/2020	XX	BTXXXXD21	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
10/27/2020	XX	BTXXXXD3G	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

! - The sampling location was damaged or destroyed.

F12 - Pipe under water, no sample taken.

F6 - No flow. Sample not taken.

H2 - Waterlevel higher than pipes. See LF-COMP for readings

I - The sampling location yielded insufficient quantity to collect a sample.

U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 4/1/2021 10:22

FOR: Juniper Ridge Landfill

SUMMARY REPORT

VOA Part 4 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
DP-4							
4/25/2011	XX	GWXXXX4AD	0.5 U	0.5 U		0.5 U	0.5 U
4/25/2012	XX	GWXXXX52G	1 U	1 U		1 U	1 U
4/24/2013	XX	GWXXXX5IH	1 U	1 U		1 U	1 U
LF-COMP							
4/24/2012	XX	LFXXXX53B	1 U	1 U		1 U	1 U
LF-UD-1							
4/26/2011	XX	LFUD1X4A2	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LFUD1X525	H2	H2		H2	H2
4/23/2013	XX	LFUD1X5I6	1 U	1 U		1 U	1 U
4/22/2014	XX	LFUD1X6F7	1 U	20 U		5 U	5 U
4/28/2015	XX	LFUD1X792	1 U	20 U		5 U	5 U
4/5/2016	XX	LFUD1X86D	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	LFUD1X978	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFUD1XA30	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LFUD1XB5G	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LFUD1XCD8	F6	F6	F6	F6	F6
LF-UD-2							
4/26/2011	XX	LFUD2X4A3	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LFUD2X526	H2	H2		H2	H2
4/23/2013	XX	LFUD2X5I7	1 U	1 U		1 U	1 U
4/22/2014	XX	LFUD2X6F8	1 U	20 U		5 U	5 U
4/28/2015	XX	LFUD2X793	1 U	20 U		5 U	5 U
4/5/2016	XX	LFUD2X86E	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	LFUD2X979	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFUD2XA31	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LFUD2XB5H	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD2XCD9	1 U	20 U	2 U	5 U	5 U
LF-UD-3A,B							
4/26/2011	XX	LFXXXX4B1	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LFXXXX534	H2	H2		H2	H2
4/23/2013	XX	LFXXXX5J5	F6	F6		F6	F6
4/22/2014	XX	LFXXXX6G6	F6	F6		F6	F6
4/28/2015	XX	LFXXXX79G	F6	F6		F6	F6
4/5/2016	XX	LFXXXX877	F6	F6	F6	F6	F6
4/18/2017	XX	LFXXXX982	F6	F6	F6	F6	F6
4/3/2018	XX	LFXXXXA3E	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6A	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE1	F6	F6	F6	F6	F6
LF-UD-4							
4/26/2011	XX	LFXXXX4B3	F12	F12		F12	F12
4/24/2012	XX	LFXXXX536	H2	H2		H2	H2
4/23/2013	XX	LFXXXX5J6	1 U	1 U		1 U	1 U
4/22/2014	XX	LFXXXX6G7	1 U	20 U		5 U	5 U
4/28/2015	XX	LFXXXX79H	F6	F6		F6	F6
4/5/2016	XX	LFXXXX878	F6	F6	F6	F6	F6

SEVEE & MAHER ENGINEERS, INC.
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(LF-UD-4)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/18/2017	XX	LFXXXX983	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFXXXXA3F	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB6B	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCE2	F6	F6	F6	F6	F6

LF-UD-5and6

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/26/2011	XX	LFXXXX4B4	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LFXXXX537	1 U	1 U		1 U	1 U
4/23/2013	XX	LFXXXX5J7	1 U	1 U		1 U	1 U
4/22/2014	XX	LFXXXX6G8	1 U	20 U		5 U	5 U
4/28/2015	XX	LFXXXX79I	1 U	20 U		5 U	5 U
4/5/2016	XX	LFXXXX879	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	LFXXXX984	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFXXXXA3G	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LFXXXXB6C	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LFXXXXCE3	1 U	20 U	2 U	5 U	5 U

LF-UD-6

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/26/2011	XX	LFUD6X4B6	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LFUD6X539	1 U	1 U		1 U	1 U
4/23/2013	XX	LFUD6X5J9	1 U	1 U		1 U	1 U
4/22/2014	XX	LFUD6X6GA	1 U	20 U		5 U	5 U
4/28/2015	XX	LFUD6X7A0	1 U	20 U		5 U	5 U
4/5/2016	XX	LFUD6X87B	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	LFUD6X986	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFUD6XA3I	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LFUD6XB6E	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LFUD6XCE5	1 U	20 U	2 U	5 U	5 U

LF-UD-7

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/24/2012	XX	LFUD7X53A	H2	H2		H2	H2
4/23/2013	XX	LFUD7X5JA	F6	F6		F6	F6
4/22/2014	XX	LFUD7X6GB	F6	F6		F6	F6
4/28/2015	XX	LFUD7X7A1	F6	F6		F6	F6
4/5/2016	XX	LFUD7X87C	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD7X987	F6	F6	F6	F6	F6
4/3/2018	XX	LFUD7XA3J	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD7XB6F	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD7XCE6	F6	F6	F6	F6	F6

LF-UD-8

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/23/2013	XX	LFUD8X5JD	1 U	1 U		1 U	1 U
4/22/2014	XX	LFUD8X6GC	F12	F12		F12	F12
4/28/2015	XX	LFUD8X7A2	1 U	20 U		5 U	5 U
4/5/2016	XX	LFUD8X87D	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD8X988	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFUD8XA40	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LFUD8XB6G	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LFUD8XCE7	F6	F6	F6	F6	F6

LF-UD-9

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(LF-UD-9)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/5/2016	XX	LFUD9X881	F6	F6	F6	F6	F6
4/18/2017	XX	LFUD9X98F	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LFUD9XA47	F6	F6	F6	F6	F6
4/23/2019	XX	LFUD9XB73	F6	F6	F6	F6	F6
4/28/2020	XX	LFUD9XCED	F6	F6	F6	F6	F6

LF-UD-10

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/3/2018	XX	LFXXXXA48	F6	F6	F6	F6	F6
4/23/2019	XX	LFXXXXB74	F6	F6	F6	F6	F6
4/28/2020	XX	LFXXXXCEE	F6	F6	F6	F6	F6

LP-UD-1

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/26/2011	XX	LPUD1X4A4	F6	F6		F6	F6
4/24/2012	XX	LPUD1X527	F6	F6		F6	F6
4/23/2013	XX	LPUD1X5I8	F6	F6		F6	F6
4/22/2014	XX	LPUD1X6F9	F6	F6		F6	F6
4/28/2015	XX	LPUD1X794	F6	F6		F6	F6
4/5/2016	XX	LPUD1X86F	F6	F6	F6	F6	F6
4/18/2017	XX	LPUD1X97A	F6	F6	F6	F6	F6
4/3/2018	XX	LPUD1XA32	F6	F6	F6	F6	F6
4/23/2019	XX	LPUD1XB5I	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LPUD1XCDA	F6	F6	F6	F6	F6

LP-UD-2

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/26/2011	XX	LPUD2X4A5	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LPUD2X528	1 U	1 U		1 U	1 U
4/23/2013	XX	LPUD2X5I9	1 U	1 U		1 U	1 U
4/22/2014	XX	LPUD2X6FA	1 U	20 U		5 U	5 U
4/28/2015	XX	LPUD2X795	1 U	20 U		5 U	5 U
4/5/2016	XX	LPUD2X86G	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	LPUD2X97B	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LPUD2XA33	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	LPUD2XB5J	1 U	20 U	5 U	5 U	5 U
4/28/2020	XX	LPUD2XCDB	1 U	20 U	2 U	5 U	5 U

MW06-01

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/10/2018	XD	GWDP1XA68	1 U	20 U	5 U	5 U	5 U
4/10/2018	XX	GWXXXXA70	1 U	20 U	5 U	5 U	5 U
6/4/2018	XX	GWXXXXA7H	1 U	20 U	5 U	5 U	5 U

MW-204

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/26/2011	XX	GW204X4A9	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	GW204X52C	1 U	1 U		1 U	1 U
4/24/2013	XX	GW204X5ID	1 U	1 U		1 U	1 U

MW12-303R

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
6/18/2015	XX	42173-1	1 U	20 U		5 U	5 U

MW-401B

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/25/2011	XX	GW401B49I	0.5 U	0.5 U		0.5 U	0.5 U
4/25/2011	XD	GWDP4X4A1	0.5 U	0.5 U		0.5 U	0.5 U
4/23/2012	XX	GW401B521	1 U	1 U		1 U	1 U

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(MW-401B)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/23/2012	XD	GWDP4X524	1 U	1 U		1 U	1 U
4/22/2013	XX	GW401B5I2	1 U	1 U		1 U	1 U
4/22/2013	XD	GWDP4X5I5	1 U	1 U		1 U	1 U
4/21/2014	XX	GW401B6F3	1 U	20 U		5 U	5 U
4/21/2014	XD	GWDP4X6F6	1 U	20 U		5 U	5 U
4/27/2015	XX	GW401B78I	1 U	20 U		5 U	5 U
4/27/2015	XD	GWDP4X791	1 U	20 U		5 U	5 U
4/6/2016	XD	GWDP4X86C	1 U	20 U	5 U	5 U	5 U
4/6/2016	XX	GW401B869	1 U	20 U	5 U	5 U	5 U
4/17/2017	XD	GWDP4X977	1 U	20 U	5 U	5 U	5 U
4/17/2017	XX	GW401B974	1 U	20 U	5 U	5 U	5 U
4/2/2018	XD	GWDP4XA2J	1 U	20 U	5 U	5 U	5 U
4/2/2018	XX	GW401BA2G	1 U	20 U	5 U	5 U	5 U
4/22/2019	XD	GWDP4XB5F	1 U	20 U	5 U	5 U	5 U
4/22/2019	XX	GW401BB5C	1 U	20 U	5 U	5 U	5 U
4/27/2020	XD	GWDP4XCD7	1 U	20 U	2 U	5 U	5 U
4/27/2020	XX	GW401BCD4	1 U	20 U	2 U	5 U	5 U
MW-501							
4/5/2018	XX	GW501XA6I	1 U	20 U	5 U	5 U	5 U
6/4/2018	XX	GW501XA7F	1 U	20 U	5 U	5 U	5 U
OW-06-03							
4/10/2018	XX	GWXXXXA73	1 U	20 U	5 U	5 U	5 U
6/5/2018	XX	GWXXXXA80	I	I	I	I	I
7/19/2018	XX	GWXXXXAEI	I	I	I	I	I
OW-601A							
4/11/2018	XX	GW601AA69	1 U	20 U	5 U	5 U	5 U
6/6/2018	XX	GW601AA76	1 U	20 U	5 U	5 U	5 U
7/19/2018	XX	GW601AAE4	1 U	20 U	5 U	5 U	5 U
OW-601B							
4/11/2018	XX	GW601BA6A	1 U	20 U	5 U	5 U	5 U
6/6/2018	XX	GW601BA77	1 U	20 U	5 U	5 U	5 U
OW-602A							
4/11/2018	XX	GW602AA6B	1 U	20 U	5 U	5 U	5 U
6/6/2018	XD	GWDP1XA75	1 U	20 U	5 U	5 U	5 U
6/6/2018	XX	GW602AA78	1 U	20 U	5 U	5 U	5 U
OW-603B							
4/12/2018	XX	GW603BA6C	1 U	20 U	5 U	5 U	5 U
6/5/2018	XX	GW603BA79	1 U	20 U	5 U	5 U	5 U
OW-604A							
4/12/2018	XX	GW604AA6D	1 U	20 U	5 U	5 U	5 U
6/4/2018	XX	GW604AA7A	1 U	20 U	5 U	5 U	5 U
P-04-02							
4/27/2011	XX	GWXXXX4AE	0.5 U	0.5 U		0.5 U	0.5 U
4/25/2012	XX	GWXXXX52H	1 U	1 U		1 U	1 U

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(P-04-02)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/22/2013	XX	GWXXXX5II	!	!		!	!
QCBT							
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U		0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U		0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U		0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U		0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U		0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	1 U		1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	1 U		1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	1 U		1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U		1 U	1.5
10/23/2012	XX	BTXXXX5C8	1 U	1 U		1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U		1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U		1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U		1 U	1 U
7/30/2013	XX	BTXXXX65D	2.5 U	5 U		2.5 U	5 U
10/29/2013	XX	BTXXXX68C	1 U	20 U		5 U	5 U
4/21/2014	XX	BTXXXX6G4	1 U	20 U		5 U	5 U
4/22/2014	XX	BTXXXX6G5	1 U	20 U		5 U	5 U
7/30/2014	XX	BTXXXX70B	1 U	20 U		5 U	5 U
10/21/2014	XX	BTXXXX748	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79E	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79F	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79J	1 U	20 U		5 U	5 U
7/15/2015	XX	BTXXXX7DB	1 U	20 U		5 U	5 U
10/27/2015	XX	BTXXXX7II	1 U	20 U		5 U	5 U
4/5/2016	XX	BTXXXX87GX	1 U	20 U	5 U	5 U	5 U
4/5/2016	XX	BTXXXX876	1 U	20 U	5 U	5 U	5 U
4/6/2016	XX	BTXXXX875	1 U	20 U	5 U	5 U	5 U
7/26/2016	XX	BTXXXX8BF	1 U	20 U	5 U	5 U	5 U
10/25/2016	XX	BTXXXX8JE	1 U	20 U	5 U	5 U	5 U
4/17/2017	XX	BTXXXX985	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	BTXXXX980	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	BTXXXX981	1 U	20 U	5 U	5 U	5 U
7/25/2017	XX	BTXXXX9DI	1 U	20 U	5 U	5 U	5 U
10/24/2017	XX	BTXXXX9HD	1 U	20 U	5 U	5 U	5 U
4/2/2018	XX	BTXXXXA3C	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXA3H	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXHHD	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXHG3	1 U	20 U	5 U	5 U	5 U
4/4/2018	XX	BTXXXXA5F	1 U	20 U	5 U	5 U	5 U
4/5/2018	XX	BTXXXXA71	1 U	20 U	5 U	5 U	5 U
4/10/2018	XX	BTXXXXA72	1 U	20 U	5 U	5 U	5 U
4/11/2018	XX	BTXXXXHHB	1 U	20 U	5 U	5 U	5 U
4/12/2018	XX	BTXXXXHHC	1 U	20 U	5 U	5 U	5 U
6/4/2018	XX	BTXXXXA74	1 U	20 U	5 U	5 U	5 U
6/5/2018	XX	BTXXXXA7I	1 U	20 U	5 U	5 U	5 U
6/6/2018	XX	BTXXXXA7J	1 U	20 U	5 U	5 U	5 U
7/17/2018	XX	BTXXXXACD	1 U	20 U	5 U	5 U	5 U

(QCBT)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
7/19/2018	XX	BTXXXXAE2	1 U	20 U	5 U	5 U	5 U
8/20/2018	XX	BTXXXXAF3	1 U	20 U	5 U	5 U	5 U
10/2/2018	XX	BTXXXXB1B	1 U	20 U	5 U	5 U	5 U
4/22/2019	XX	BTXXXXB6D	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	BTXXXXB69	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	BTXXXXB68	1 U	20 U	5 U	5 U	5 U
7/16/2019	XX	BTXXXXBCJ	1 U	20 U	5 U	5 U	5 U
10/29/2019	XX	BTXXXXBIC	1 U	20 U	5 U	5 U	5 U
2/25/2020	XX	BTXXXXC86	1 U	20 U	2 U	5 U	5 U
2/26/2020	XX	BTXXXXC5G	1 U	20 U	2 U	5 U	5 U
4/27/2020	XX	BTXXXXCDJ	1 U	20 U	2 U	5 U	5 U
4/28/2020	XX	BTXXXXCE4	1 U	20 U	2 U	5 U	5 U
4/28/2020	XX	BTXXXXCE0	1 U	20 U	2 U	5 U	5 U
4/30/2020	XX	BTXXXXCC3	1 U	20 U	2 U	5 U	5 U
6/23/2020	XX	BTXXXXCGE	1 U	20 U	2 U	5 U	5 U
7/21/2020	XX	BTXXXXCGH	1 U	20 U	2 U	5 U	5 U
7/21/2020	XX	BTXXXXCIC	1 U	20 U	2 U	5 U	5 U
8/20/2020	XX	BTXXXXD21	1 U	20 U	2 U	5 U	5 U
10/27/2020	XX	BTXXXXD3G	1 U	20 U	2 U	5 U	5 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

! - The sampling location was damaged or destroyed.
F12 - Pipe under water, no sample taken.
F6 - No flow. Sample not taken.
H2 - Waterlevel higher than pipes. See LF-COMP for readings
I - The sampling location yielded insufficient quantity to collect a sample.
U - Not Detected above the laboratory reporting limit.

SEVEE & MAHER ENGINEERS, INC.
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(MW-223A)

Date	Type	Sample ID	Methane ug/L
MW-223A			
7/30/2013	XX	GW223A63A	6.6 U
MW-223B			
7/30/2013	XX	GW223B64J	40.6
10/29/2013	XX	GW223B67C	9.2
4/22/2014	XX	GW223B6FF	20 U
7/29/2014	XX	GW223B700	20 U
10/21/2014	XX	GW223B73C	30
4/28/2015	XX	GW223B798	20 U
7/14/2015	XX	GW223B7D0	20 U
10/27/2015	XX	GW223B7I9	20 U
4/5/2016	XX	GW223B86J	20 U
4/18/2017	XX	GW223B97E	20 U
4/3/2018	XX	GW223BA36	20 U
4/23/2019	XX	GW223BB62	20 U
7/16/2019	XX	GW223BBCD	20 U
10/29/2019	XX	GW223BBI6	20 U
4/28/2020	XX	GW223BCDD	20 U
7/21/2020	XX	GW223BCI6	20 U
10/27/2020	XX	GW223BD3A	20 U
MW-302R			
7/29/2013	XX	GW302X64H	6.6 U
MW12-303R			
7/29/2013	XX	GW303X651	6.6 U
MW-304A			
7/29/2013	XX	GW304A64G	6.6 U
PWS10-1			
4/27/2015	XX	GWPWS1788	830
7/13/2015	XX	GWPWS17C0	4600
10/26/2015	XX	GWPWS17H9	440
4/4/2016	XX	GWPWS185J	770
4/17/2017	XX	GWPWS196E	40
4/2/2018	XX	GWPWS1A25	20 U
4/22/2019	XX	GWPWS1B51	79
7/15/2019	XX	GWPWS1BBE	130
10/28/2019	XX	GWPWS1BH7	20 U
4/27/2020	XX	GWPWS1CCE	270
7/21/2020	XX	GWXXXXIOB	45
10/26/2020	XX	GWPWS1D2B	20 U
PWS10-2			
4/27/2015	XX	GWPWS2789	50
7/13/2015	XX	GWPWS27C1	690
10/26/2015	XX	GWPWS27HA	20 U
4/4/2016	XX	GWPWS2860	140
4/17/2017	XX	GWPWS296F	220

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(PWS10-2)

Date	Type	Sample ID	Methane ug/L
4/2/2018	XX	GWPWS2A26	20 U
4/22/2019	XX	GWPWS2B52	20 U
7/15/2019	XX	GWPWS2BBF	110
10/28/2019	XX	GWPWS2BH8	20 U
4/27/2020	XX	GWPWS2CCF	20 U
7/20/2020	XX	GWPWS2CH8	38
10/26/2020	XX	GWPWS2D2C	300

PWS10-3

Date	Type	Sample ID	Methane ug/L
4/27/2015	XX	GWPWS378A	20 U
7/13/2015	XX	GWPWS37C2	260
10/26/2015	XX	GWPWS37HB	160
4/4/2016	XX	GWPWS3861	20 U
4/17/2017	XX	GWPWS396G	20 U
4/2/2018	XX	GWPWS3A27	20 U
4/22/2019	XX	GWPWS3B53	20 U
7/15/2019	XX	GWPWS3BBG	280
10/28/2019	XX	GWPWS3BH9	20 U
4/27/2020	XX	GWPWS3CCG	20 U
7/20/2020	XX	GWPWS3CH9	4000
10/26/2020	XX	GWPWS3D2D	44

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

Leachate Locations

REPORT PREPARED: 3/17/2021 07:38

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Leachate - Field Data

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Specific Conductance µmhos/cm @25°C	pH STU	Temperature Deg C	Eh mV	Dissolved Oxygen mg/L	Alkalinity (CaCO3) (field) mg/L	Turbidity (field) NTU
4/27/2011	XX	LTC4LX49C	18420	6.9	17.4	109		1563	8.4
7/19/2011	XX	LTC4LX4DA	30700	7	28.3	115	2	1688	44
10/26/2011	XX	LTC4LX4H5	15850	7.1	18.3	100	1	750	6.1
4/24/2012	XX	LTC4LX51F	11470	6.7	15.7	-27	2	688	14.9
7/24/2012	XX	LTC4LX56E	25300	6.8	24.8	-93	3	D3	D3
10/23/2012	XX	LTC4LX5D5	19800	6.9	17.3	-33	D2	D3	D3
4/23/2013	XX	LTC4LX5HG	18590	7.1	17.1	92	1	1500	18.9
7/30/2013	XX	LTC4LX641	23400	6.7	23.6	44	D2	D3	D3
10/29/2013	XX	LTC4LX66E	24100	6.8	11.3	92	D2	D3	D3
4/22/2014	XX	LTC4LX6EH	15370	7.2	13.3	134	D2	D3	D3
7/30/2014	XX	LTC4LX6J4	23800	7.2	22.3	-30	D2	D3	D3
10/21/2014	XX	LTC4LX72F	21300	7.2	15.8	238	D2	D3	D3
4/28/2015	XX	LTC4LX78C	22600	7.5	12.1	-151	D2		D3
7/15/2015	XX	LTC4LX7C4	21500	6.9	22.7	-178	D2		D3
10/27/2015	XX	LTC4LX7HD	29100	7.6	9.4	-133	D2		D3
4/5/2016	XX	LTC4LX863	19950	5.5	10.9	100	D2		D3
7/26/2016	XX	LTC4LX8AD	29200	6.3	27.1	-6	D2		D3
10/25/2016	XX	LTC4LX8IC	25800	6.3	14.7	113	D2		1416
4/18/2017	XX	LTC4LX96I	26400	6.3	12.7	-102	D2		1009
7/25/2017	XX	LTC4LX9CG	25900	7.3	20.8	-141	D2		156
10/24/2017	XX	LTC4LX9GB	29800	7.6	22.2	-12	D2		126
4/3/2018	XX	LTC4LXA2A	11520	7	12.7	-41	D2		198
7/17/2018	XX	LTC4LXABB	26000	7.2	23.1	-127	D2		190
10/2/2018	XX	LTC4LXB09	23000	7.5	15.4	-76	D2		7.84
4/23/2019	XX	LTC4LXB56	13730	7	9.6	-6	7.5		1733
7/16/2019	XX	LTC4LXBBI	21908	7.1	26.1	7	D2		609
10/29/2019	XX	LTC4LXBHB	18730	7.1	15.2	-59	D2		1407
4/28/2020	XX	LTC4LXCCI	17490	6.6	12.6	-20	2.8		D3
7/21/2020	XX	LTC4LXCHB	25800	5.9	29	-311	1.1		D3
10/27/2020	XX	LTC4LXD2F	21900	7.5	12.8	-299	D2		741

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

D2 - Sample too dark to read D.O. reading.
D3 - Sample too dark to take reading.

REPORT PREPARED: 3/17/2021 07:39

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Leachate - Inorganics

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Total Kjeldahl Nitrogen mg/L	Total Phosphorus mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Sulfate mg/L	Ca-mg Hardness (CaCO3) mg/L	Bicarbonate Alkalinity (CaCO3) mg/L	Alkalinity (CaCO3) mg/L	Organic Carbon mg/L	Biochemical Oxygen Demand mg/L	Nitrite/Nitrate - (N) mg/L	Chloride mg/L	Bromide mg/L	Cyanide ug/L
4/27/2011	XX	LTC4LX49C	500		10570	5	72 J	1831	2280	2280	184	39		5910	23.3	0.006
7/19/2011	XX	LTC4LX4DA	810	0.92	14820	44	60 U		2800		270	45		10300		
10/26/2011	XX	LTC4LX4H5	510	0.59	8250	11	64.6 J		1400		182	47		4300		
4/24/2012	XX	LTC4LX51F	290		6080	108	133	1941	1370	1370	935	1120 G		2560	32.7	5 U
7/24/2012	XX	LTC4LX56E	710	0.77	15210	106	50.2		3630		2120	3090		6350		
10/23/2012	XX	LTC4LX5D5	490	0.46	14570	36	213		2740		1740	3190		9880		
4/23/2013	XX	LTC4LX5HG	697		10700	34	200 U	2424	2950	2950	935	1750		5610	73.3	5
7/30/2013	XX	LTC4LX641	742	1.39	15050	625	400 U		3700		2560	4850		24300	38.8	
10/29/2013	XX	LTC4LX66E	880	0.79	17400	140	10.4		3980		2450	855		5970	95	
4/22/2014	XX	LTC4LX6EH	520		8600	28	300 U	1889	2010	2010	364	434		7650	63.6	5 U
7/30/2014	XX	LTC4LX6J4	850		12040	64	2250		3200		761			13950	39	
10/21/2014	XX	LTC4LX72F	820	0.83	13280	44	200 U		2740		460	448		7070	100	
4/28/2015	XX	LTC4LX78C	800		10080	38	320 U	1738	3560	3560	580	1284		5420	57	5 U
7/15/2015	XX	LTC4LX7C4		2.93	17940	40	800		4710		373		10 U	11600	10 U	
10/27/2015	XX	LTC4LX7HD		2.99	15800	17	2670		3850		363		3 U	16100	30 U	
4/5/2016	XX	LTC4LX863	680		11850	119	205	2910	2800	2800	1426	2700		5910	84.1	5 U
7/26/2016	XX	LTC4LX8AD	550		16460	125	970		3850		1900		0.3 U	11100	72.7	
10/25/2016	XX	LTC4LX8IC	990		14380	60	1780		3490		1150		0.05 U	16100	120	
4/18/2017	XX	LTC4LX96I	1100		12732	30	640	2000	3700	3700	1200	890		12000	75	74
7/25/2017	XX	LTC4LX9CG	1300		15448	34	1500		4100		680		0.1 U	12000	72	
10/24/2017	XX	LTC4LX9GB	1000		15836	13	2700		3400		480		0.1 U	14000	20 U	
4/3/2018	XX	LTC4LXA2A	610		7956	25	1100	1400	2200	2200	360	320		9300	52	43
7/17/2018	XX	LTC4LXABB	1400		13	42	600 U		3600		450		0.5 U	8100	83	
10/2/2018	XX	LTC4LXB09	1000		12960	29	2900		2900		430		0.05 U	15000	63	
4/23/2019	XX	LTC4LXB56	470		8744	40	2200	2300	1900	1900	110	760		12000	83	17
7/16/2019	XX	LTC4LXBBI	780		12152	180	2000		3000		480		0.5 U	14000	40 U	
10/29/2019	XX	LTC4LXBHB	660		9832	48	1900		2600		570		0.073	11000	47	
4/28/2020	XX	LTC4LXCCI	730		10160	48	1300	1700	2400	2400	880	200		8300	52	5 U
7/21/2020	XX	LTC4LXCHB	780		14610	8	2000		3100		500		0.2	13000	120	
10/27/2020	XX	LTC4LXD2F	660		10940	29	120		2700		1100 M10		0.05 U	7400	77	

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

G - Greater than specified amount.
J - Analyte was positively identified/Associated value is an estimate.
M10 - Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.
U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:40

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Leachate - Metal (part 1 of 2)

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Aluminum mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L
4/27/2011	XX	LTC4LX49C	0.201	0.018	0.085	1.469	0.0002 U	344	0.024	0.012	9.61	0.002 J	236	2.45
7/19/2011	XX	LTC4LX4DA			0.121			469			12.7		372	2.3
10/26/2011	XX	LTC4LX4H5			0.059			305			19.7		205	2.24
4/24/2012	XX	LTC4LX51F	0.25	0.025 U	0.07	0.915	0.003 U	482	0.025	0.05 U	63	0.015 U	179	23.6
7/24/2012	XX	LTC4LX56E			0.11			845			82		466	26
10/23/2012	XX	LTC4LX5D5			0.177			934			45.3		433	14
4/23/2013	XX	LTC4LX5HG	0.223	0.005 U	0.102	1.285	0.0006 U	474	0.038	0.014	30.3	0.003 U	301	8.03
7/30/2013	XX	LTC4LX641			0.137			958			179		433	23.4
10/29/2013	XX	LTC4LX66E			0.16			860			100		532	16.7
4/22/2014	XX	LTC4LX6EH	0.22	0.005 U	0.131	1.222	0.0006 U	329	0.049	0.016	13.2	0.022	259	2.73
7/30/2014	XX	LTC4LX6J4			0.143			311			28.6		289	3.8
10/21/2014	XX	LTC4LX72F			0.186			406			27.3		355	4.23
4/28/2015	XX	LTC4LX78C	0.556	0.026	0.209	1.316	0.0012	259	0.093	0.034	11	0.095	265	1.8
7/15/2015	XX	LTC4LX7C4			0.287			393			9.7		431	1.9
10/27/2015	XX	LTC4LX7HD			0.29			318			5.9		307	1.6
4/5/2016	XX	LTC4LX863	0.231	0.005 U	0.157	1.304	0.0006 U	656	0.105	0.015	60.3	0.004	309	15.9
7/26/2016	XX	LTC4LX8AD			0.331			686			44.3		411	7.5
10/25/2016	XX	LTC4LX8IC			0.403			541			21.7		307	5.95
4/18/2017	XX	LTC4LX96I	0.72	0.025 U	0.54	1.5	0.003 U	300	0.025 U	0.05 U	8.5	0.03 U	300	1.8
7/25/2017	XX	LTC4LX9CG			0.6			300			6.7		350	1.5
10/24/2017	XX	LTC4LX9GB			0.34			310			5.4		310	2.5 U
4/3/2018	XX	LTC4LXA2A	0.65	0.025 U	0.33	0.77	0.003 U	260	0.09	0.05 U	9	0.015 U	190	2.2
7/17/2018	XX	LTC4LXABB			0.39			300			9.4		280	2.4
10/2/2018	XX	LTC4LXB09			0.3			290			7.8		270	2.2
4/23/2019	XX	LTC4LXB56	0.52	0.005 U	0.14	0.86	0.0006 U	560	0.078	0.01 U	17	0.007	230	10
7/16/2019	XX	LTC4LXBBI			0.24			510			5.1		310	4.4
10/29/2019	XX	LTC4LXBHB			0.23			350			12		280	4.1
4/28/2020	XX	LTC4LXCCI	0.54	0.005 U	0.25	0.94	0.0006 U	300	0.1	0.01 U	6	0.003 U	220	1.7
7/21/2020	XX	LTC4LXCHB			0.33			310			3.5		340	1.3
10/27/2020	XX	LTC4LXD2F			0.24			310			7.5		250	14

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

J - Analyte was positively identified/Associated value is an estimate.

U - Not Detected above the laboratory reporting limit.

SUMMARY REPORT

Leachate - Metal (part 2 of 2)

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Mercury mg/L	Potassium mg/L	Selenium mg/L	Silver mg/L	Sodium mg/L	Thallium mg/L	Vanadium mg/L	Zinc mg/L	Tin mg/L
4/27/2011	XX	LTC4LX49C	0.0002 U	1135	0.016	0.0007 J	1520	0.001 U	0.017	0.011	0.005 U
7/19/2011	XX	LTC4LX4DA		1806			2590				
10/26/2011	XX	LTC4LX4H5		1066			1580				
4/24/2012	XX	LTC4LX51F	0.0005 U	714	0.025	0.005 U	1024	0.02 U	0.05 U	0.155	0.075 U
7/24/2012	XX	LTC4LX56E		1719			2337				
10/23/2012	XX	LTC4LX5D5		1100			1842				
4/23/2013	XX	LTC4LX5HG	0.0005 U	1237	0.01	0.001 U	1844	0.004 U	0.01	0.016	0.019
7/30/2013	XX	LTC4LX641		1234			1910				
10/29/2013	XX	LTC4LX66E		1622			2290				
4/22/2014	XX	LTC4LX6EH	0.0005 U	941	0.035	0.001 U	1633	0.004 U	0.027	0.101	0.015 U
7/30/2014	XX	LTC4LX6J4		1140			1948				
10/21/2014	XX	LTC4LX72F		1472			2316				
4/28/2015	XX	LTC4LX78C	0.0005 U	1118	0.052	0.0021	3401	0.008 U	0.063	0.258	0.157
7/15/2015	XX	LTC4LX7C4		1845			8135				
10/27/2015	XX	LTC4LX7HD		1247			5081				
4/5/2016	XX	LTC4LX863	0.0005 U	954	0.005 U	0.0011 U	1681	0.004 U	0.024	0.136	0.015 U
7/26/2016	XX	LTC4LX8AD		1498			2687				
10/25/2016	XX	LTC4LX8IC		1131			2288				
4/18/2017	XX	LTC4LX96I	0.0005 U	1261	0.098	0.0055 U	3000	0.02 U	0.1	0.031	0.075 U
7/25/2017	XX	LTC4LX9CG		1300			3100				
10/24/2017	XX	LTC4LX9GB		1300			2600				
4/3/2018	XX	LTC4LXA2A	0.0005 U	740	0.043	0.2	1500	0.02 U	0.05 U	0.051	0.075 U
7/17/2018	XX	LTC4LXABB		1200			2700				
10/2/2018	XX	LTC4LXB09		1100			2400				
4/23/2019	XX	LTC4LXB56	0.0005 U	580	0.017	0.001 U	1300	0.004 U	0.016	0.093	0.015 U
7/16/2019	XX	LTC4LXBBI		1000			2200				
10/29/2019	XX	LTC4LXBHB		870			1900				
4/28/2020	XX	LTC4LXCCI	0.0005 U	790	0.022	0.001 U	1700	0.004 U	0.039	0.046	0.016
7/21/2020	XX	LTC4LXCHB		1400			2800				
10/27/2020	XX	LTC4LXD2F		900			2000				

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

J - Analyte was positively identified/Associated value is an estimate.
U - Not Detected above the laboratory reporting limit.

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	5 U	10 U	5 U	5 U	50 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U
7/19/2011	XX	LTC4LX4DA	0.5 U	1 U	0.5 U	0.5 U	5 U	136	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12	0.5 U	0.5 U
10/26/2011	XX	LTC4LX4H5	0.5 U	1 U	0.7 J	0.5 U	5 U	117	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	97	0.5 U	0.5 U
4/24/2012	XX	LTC4LX51F	5 U	10 U	5 U	5 U	25 U	974	5 U	5 U	5 U	5 U	5 U	10	3440	5 U	5 U
7/24/2012	XX	LTC4LX56E	5 U	10 U	5 U	5 U	25 U	2460	5 U	5 U	5 U	5 U	5 U	5 U	9540	5 U	5 U
10/23/2012	XX	LTC4LX5D5	25 U	50 U	25 U	25 U	125 U	2710	25 U	25 U	25 U	25 U	25 U	25 U	7490	25 U	25 U
4/23/2013	XX	LTC4LX5HG	25 U	50 U	25 U	25 U	125 U	1310	25 U	25 U	25 U	25 U	25 U	25 U	4110	25 U	25 U
7/30/2013	XX	LTC4LX641	250 U	100 U	100 U	100 U	300 U	4400	500 U	50 U	75 U	75 U	75 U	50 U	23000 E	50 U	50 U
10/29/2013	XX	LTC4LX66E	400 U	400 U	400 U	1000 U	1000 U	4000	400 U	200 U	200 U	200 U	200 U	200 U	20000	200 U	200 U
4/22/2014	XX	LTC4LX6EH	40 U	40 U	40 U	100 U	100 U	1000	40 U	20 U	20 U	20 U	20 U	20 U	1400	20 U	20 U
7/30/2014	XX	LTC4LX6J4	2 U	2 U	2 U	5 U	5 U	60	5 U	1 U	2 U	2 U	2 U	2 U	200	2 U	2 U
10/21/2014	XX	LTC4LX72F	20 U	20 U	20 U	50 U	50 U	400	20 U	10 U	10 U	10 U	10 U	10 U	1200	10 U	10 U
4/28/2015	XX	LTC4LX78C	20 U	20 U	20 U	50 U	50 U	2400	20 U	10 U	10 U	10 U	10 U	10 U	4400	10 U	10 U
7/15/2015	XX	LTC4LX7C4	20 U	20 U	20 U	50 U	50 U	1400	20 U	10 U	10 U	10 U	10 U	10 U	2000	10 U	10 U
10/27/2015	XX	LTC4LX7HD	20 U	20 U	20 U	50 U	50 U	1200	20 U	10 U	10 U	10 U	10 U	10 U	1300	10 U	10 U
4/5/2016	XX	LTC4LX863	20 U	20 U	20 U	50 U	50 U	2300	20 U	10 U	10 U	10 U	10 U	10 U	5900	10 U	10 U
7/26/2016	XX	LTC4LX8AD	20 U	20 U	20 U	50 U	50 U	2800	20 U	10 U	10 U	10 U	10 U	10 U	8000	10 U	10 U
10/25/2016	XX	LTC4LX8IC	2 U	2 U	2 U	5 U	5 U	2500	5 U	1 U	2 U	2 U	2 U	5	4800	2 U	2 U
4/18/2017	XX	LTC4LX96I	2 U	2 U	2 U	5 U	5 U	1900	2 U	1 U	1 U	1 U	1 U	1 U	2500	1 U	1 U
7/25/2017	XX	LTC4LX9CG	2 U	2 U	2 U	5 U	5 U	1100	2 U	1 U	1 U	1 U	1 U	4	1400	1 U	1 U
10/24/2017	XX	LTC4LX9GB	2 U	2 U	2 U	5 U	5 U	800	2 U	1 U	1 U	1 U	1 U	2	800	1 U	1 U
4/3/2018	XX	LTC4LXA2A	2 U	2 U	2 U	5 U	5.3	1700	2 U	1 U	1 U	1 U	1 U	6.1	1700	1 U	1 U
7/17/2018	XX	LTC4LXABB	2 U	2 U	2 U	5 U	5 U	230	2 U	1 U	1 U	1 U	1 U	1 U	210	1 U	1 U
10/2/2018	XX	LTC4LXB09	20 U	20 U	20 U	50 U	50 U	1000	20 U	10 U	10 U	10 U	10 U	10 U	970	10 U	10 U
4/23/2019	XX	LTC4LXB56	40 U	40 U	40 U	100 U	100 U	2000	40 U	20 U	20 U	20 U	20 U	20 U	2000	20 U	20 U
7/16/2019	XX	LTC4LXBBI	20 U	20 U	20 U	50 U	50 U	1200	20 U	10 U	10 U	10 U	10 U	10 U	1000	10 U	10 U
10/29/2019	XX	LTC4LXBHB	20 U	20 U	20 U	50 U	50 U	2100	20 U	10 U	10 U	10 U	10 U	10 U	2100	10 U	10 U
4/28/2020	XX	LTC4LXCCI	20 U	20 U	10 U	20 U	10 U	1200	20 U	5 U	10 U	10 U	10 U	10 U	1000	10 U	10 U
7/21/2020	XX	LTC4LXCHB	2 U	2 U	1 U	2 U	1.2	560	2 U	0.5 U	1 U	1 U	1 U	1.8	300	1 U	1 U
10/27/2020	XX	LTC4LXD2F	20 U	20 U	10 U	20 U	30	1700	20 U	5 U	10 U	10 U	10 U	10 U	2100	10 U	10 U
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	1 U	0.5 U	0.5 U	5 U	14	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	1 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	2 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	2.5 U	1 U	1 U	1 U	3 U	5 U	5 U	0.5 U	0.75 U	0.75 U	0.75 U	0.5 U	5 U	0.5 U	0.5 U
10/29/2013	XX	BTXXXX68C	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/21/2014	XX	BTXXXX6G4	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U

SUMMARY REPORT

Leachate - VOAs Part 1 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L
4/22/2014	XX	BTXXXX6G5	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/30/2014	XX	BTXXXX70B	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/21/2014	XX	BTXXXX748	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79E	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79F	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/27/2015	XX	BTXXXX79J	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/15/2015	XX	BTXXXX7DB	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/27/2015	XX	BTXXXX7II	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	BTXXXX87GX	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/5/2016	XX	BTXXXX876	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/6/2016	XX	BTXXXX875	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
7/26/2016	XX	BTXXXX8BF	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
10/25/2016	XX	BTXXXX8JE	2 U	2 U	2 U	5 U	5 U	10 U	5 U	1 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U
4/17/2017	XX	BTXXXX985	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/18/2017	XX	BTXXXX980	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/18/2017	XX	BTXXXX981	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/25/2017	XX	BTXXXX9DI	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/24/2017	XX	BTXXXX9HD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/2/2018	XX	BTXXXXA3C	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXA3H	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXHHD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/3/2018	XX	BTXXXXHG3	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/4/2018	XX	BTXXXXA5F	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/5/2018	XX	BTXXXXA71	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/10/2018	XX	BTXXXXA72	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/11/2018	XX	BTXXXXHHB	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/12/2018	XX	BTXXXXHHC	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/4/2018	XX	BTXXXXA74	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/5/2018	XX	BTXXXXA7I	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/6/2018	XX	BTXXXXA7J	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/17/2018	XX	BTXXXXACD	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/19/2018	XX	BTXXXXAE2	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
8/20/2018	XX	BTXXXXAF3	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/2/2018	XX	BTXXXXB1B	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/22/2019	XX	BTXXXXB6D	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	BTXXXXB69	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/23/2019	XX	BTXXXXB68	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/16/2019	XX	BTXXXXBCJ	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/29/2019	XX	BTXXXXBIC	2 U	2 U	2 U	5 U	5 U	10 U	2 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
2/25/2020	XX	BTXXXXC86	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
2/26/2020	XX	BTXXXXC5G	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/27/2020	XX	BTXXXXCDJ	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	BTXXXXCE0	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/28/2020	XX	BTXXXXCE4	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
4/30/2020	XX	BTXXXXCC3	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
6/23/2020	XX	BTXXXXCGE	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/21/2020	XX	BTXXXXCIC	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
7/21/2020	XX	BTXXXXCGH	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
8/20/2020	XX	BTXXXXD21	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
10/27/2020	XX	BTXXXXD3G	2 U	2 U	1 U	2 U	1 U	10 U	2 U	0.5 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Chloromethane ug/L	Bromomethane ug/L	Vinyl Chloride ug/L	Chloroethane ug/L	Methylene Chloride ug/L	Acetone ug/L	Carbon Disulfide ug/L	1,1-Dichloroethene ug/L	1,1-Dichloroethane ug/L	trans-1,2-Dichloroethene ug/L	Chloroform ug/L	1,2-Dichloroethane ug/L	Methyl Ethyl Ketone ug/L	1,1,1-Trichloroethane ug/L	Carbon Tetrachloride ug/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- E - Compound exceeded upper level of calibration range and required dilution.
- J - Analyte was positively identified/Associated value is an estimate.
- U - Not Detected above the laboratory reporting limit.

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	5 U	5 U	11
7/19/2011	XX	LTC4LX4DA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.2	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	7.4
10/26/2011	XX	LTC4LX4H5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.6	0.5 U	0.5 U	7.8 J	5 U	0.5 U	0.5 U	13
4/24/2012	XX	LTC4LX51F	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	5 U	5 U	13
7/24/2012	XX	LTC4LX56E	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	55	50 U	5 U	5 U	6.8
10/23/2012	XX	LTC4LX5D5	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U	25 U
4/23/2013	XX	LTC4LX5HG	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U	25 U
7/30/2013	XX	LTC4LX641	500 U	50 U	180 U	50 U	50 U	50 U	75 U	50 U	50 U	200 U	500 U	500 U	50 U	50 U	75 U
10/29/2013	XX	LTC4LX66E	2000 U	100 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	400 U	2000 U	2000 U	200 U	200 U	200 U
4/22/2014	XX	LTC4LX6EH	200 U	10 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40 U	200 U	200 U	20 U	20 U	20 U
7/30/2014	XX	LTC4LX6J4	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/21/2014	XX	LTC4LX72F	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	10 U
4/28/2015	XX	LTC4LX78C	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	10
7/15/2015	XX	LTC4LX7C4	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	10
10/27/2015	XX	LTC4LX7HD	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	10
4/5/2016	XX	LTC4LX863	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	20
7/26/2016	XX	LTC4LX8AD	100 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	100 U	100 U	10 U	10 U	20
10/25/2016	XX	LTC4LX8IC	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2	2 U	2 U	50	20	2 U	2 U	17
4/18/2017	XX	LTC4LX96I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	4	0.5 U	2 U	40	10 U	1 U	1 U	14
7/25/2017	XX	LTC4LX9CG	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	5	0.5 U	2 U	30	10 U	1 U	1 U	19
10/24/2017	XX	LTC4LX9GB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	2	0.5 U	2 U	20	10 U	1 U	1 U	6
4/3/2018	XX	LTC4LXA2A	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	5.6	0.5	2 U	35	10 U	1 U	1 U	26
7/17/2018	XX	LTC4LXABB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1	0.5 U	2 U	10 U	10 U	1 U	1 U	4.4
10/2/2018	XX	LTC4LXB09	100 U	5 U	10 U	5 U	10 U	10 U	10 U	10 U	5 U	20 U	100 U	100 U	10 U	10 U	26
4/23/2019	XX	LTC4LXB56	200 U	10 U	20 U	10 U	20 U	20 U	20 U	20 U	10 U	40 U	200 U	200 U	20 U	20 U	25
7/16/2019	XX	LTC4LXBBI	100 U	5 U	10 U	5 U	10 U	10 U	10 U	10 U	5 U	20 U	100 U	100 U	10 U	10 U	16
10/29/2019	XX	LTC4LXBHB	100 U	5 U	10 U	5 U	10 U	10 U	10 U	10 U	5 U	20 U	100 U	100 U	10 U	10 U	53
4/28/2020	XX	LTC4LXCCI	100 U	5 U	10 U	5 U	10 U	10 U	10 U	10 U	5 U	20 U	100 U	100 U	10 U	10 U	26
7/21/2020	XX	LTC4LXCHB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	5	0.5 U	2 U	20	10 U	1 U	1 U	16
10/27/2020	XX	LTC4LXD2F	100 U	5 U	10 U	5 U	10 U	10 U	10 U	10 U	5 U	20 U	100 U	100 U	10 U	10 U	24
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2012	XX	BTXXXX533	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/25/2012	XX	BTXXXX538	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	5 U	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.75 U	0.5 U	0.5 U	2 U	5 U	5 U	0.5 U	0.5 U	0.75 U
10/29/2013	XX	BTXXXX68C	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/21/2014	XX	BTXXXX6G4	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Vinyl Acetate ug/L	Bromo dichloro methane ug/L	1,2-Dichloro propane ug/L	cis-1,3-Dichloro propene ug/L	Trichloroethene ug/L	Dibromo chloromethane ug/L	1,1,2-Trichloroethane ug/L	Benzene ug/L	trans-1,3-Dichloro propene ug/L	Bromoform ug/L	4-Methyl-2-Pentanone ug/L	2-Hexanone ug/L	Tetrachloro ethene ug/L	1,1,2,2-Tetrachloro ethane ug/L	Toluene ug/L
4/22/2014	XX	BTXXXX6G5	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/30/2014	XX	BTXXXX70B	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/21/2014	XX	BTXXXX748	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79E	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79F	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79J	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/15/2015	XX	BTXXXX7DB	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/27/2015	XX	BTXXXX7II	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX87GX	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX876	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/6/2016	XX	BTXXXX875	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
7/26/2016	XX	BTXXXX8BF	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
10/25/2016	XX	BTXXXX8JE	10 U	0.5 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	10 U	10 U	2 U	2 U	1 U
4/17/2017	XX	BTXXXX985	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/18/2017	XX	BTXXXX980	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/18/2017	XX	BTXXXX981	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/25/2017	XX	BTXXXX9DI	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/24/2017	XX	BTXXXX9HD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/2/2018	XX	BTXXXXA3C	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXA3H	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXHHD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/3/2018	XX	BTXXXXHG3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/4/2018	XX	BTXXXXA5F	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/5/2018	XX	BTXXXXA71	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/10/2018	XX	BTXXXXA72	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/11/2018	XX	BTXXXXHHB	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/12/2018	XX	BTXXXXHHC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/4/2018	XX	BTXXXXA74	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/5/2018	XX	BTXXXXA7I	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/6/2018	XX	BTXXXXA7J	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/17/2018	XX	BTXXXXACD	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/19/2018	XX	BTXXXXAE2	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
8/20/2018	XX	BTXXXXAF3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/2/2018	XX	BTXXXXB1B	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/22/2019	XX	BTXXXXB6D	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	BTXXXXB69	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/23/2019	XX	BTXXXXB68	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/16/2019	XX	BTXXXXBCJ	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/29/2019	XX	BTXXXXBIC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
2/25/2020	XX	BTXXXXC86	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
2/26/2020	XX	BTXXXXC5G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/27/2020	XX	BTXXXXCDJ	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	BTXXXXCE0	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/28/2020	XX	BTXXXXCE4	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
4/30/2020	XX	BTXXXXCC3	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
6/23/2020	XX	BTXXXXCGE	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/21/2020	XX	BTXXXXCIC	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
7/21/2020	XX	BTXXXXCGH	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
8/20/2020	XX	BTXXXXD21	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U
10/27/2020	XX	BTXXXXD3G	10 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	2 U	10 U	10 U	1 U	1 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)			Vinyl Acetate	Bromo dichloro methane	1,2-Dichloro propane	cis-1,3-Dichloro propene	Trichloroethene	Dibromo chloromethane	1,1,2-Trichloroethane	Benzene	trans-1,3-Dichloro propene	Bromoform	4-Methyl-2-Pentanone	2-Hexanone	Tetrachloro ethene	1,1,2,2-Tetrachloro ethane	Toluene
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

J - Analyte was positively identified/Associated value is an estimate.
U - Not Detected above the laboratory reporting limit.

SUMMARY REPORT

Leachate - VOAs Part 3 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

Date	Type	Sample ID	Chlorobenzene	Ethylbenzene	Styrene	o-Xylene	m,p-Xylene	Tetra hydrofuran	Trichloro fluoromethane	cis-1,2-Dichloroethene	Bromochloro methane	Dibromo methane	1,2-Dibromoethane	1,1,1,2-Tetrachloro ethane	1,2,3-Trichloro propane	1,2-Dibromo-3-Chloropropane	1,4-Dichloro benzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	5 U	5 U	5 U	5 U	7.3 J		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
7/19/2011	XX	LTC4LX4DA	0.5 U	3.8	0.5 U	2.5	5.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.69 J
10/26/2011	XX	LTC4LX4H5	0.5 U	6.7	1	4.2	9.5		0.5 U	0.7 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1
4/24/2012	XX	LTC4LX51F	5 U	5.8	5 U	5 U	6.9		6.4	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
7/24/2012	XX	LTC4LX56E	5 U	5 U	5 U	5 U	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
10/23/2012	XX	LTC4LX5D5	25 U	25 U	25 U	25 U	25 U		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4/23/2013	XX	LTC4LX5HG	25 U	25 U	25 U	25 U	25 U		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
7/30/2013	XX	LTC4LX641	50 U	50 U	100 U	100 U	100 U		250 U	50 U	250 U	500 U	200 U	50 U	500 U	250 U	250 U
10/29/2013	XX	LTC4LX66E	200 U	200 U	200 U	200 U	200 U		1000 U	200 U	200 U	200 U	400 U	200 U	200 U	400 U	200 U
4/22/2014	XX	LTC4LX6EH	20 U	20 U	20 U	20 U	20 U		100 U	20 U	20 U	20 U	40 U	20 U	20 U	40 U	9.6 U
7/30/2014	XX	LTC4LX6J4	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/21/2014	XX	LTC4LX72F	10 U	10 U	10 U	10 U	10 U		50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
4/28/2015	XX	LTC4LX78C	10 U	10 U	10 U	10 U	10 U		50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
7/15/2015	XX	LTC4LX7C4	10 U	10 U	10 U	10 U	10 U		50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
10/27/2015	XX	LTC4LX7HD	10 U	10 U	10 U	10 U	10 U		50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
4/5/2016	XX	LTC4LX863	10 U	10	10 U	10 U	10 U	400	50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
7/26/2016	XX	LTC4LX8AD	10 U	10 U	10 U	10 U	10 U	600	50 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U
10/25/2016	XX	LTC4LX8IC	2 U	13	1 U	3	6	400	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/18/2017	XX	LTC4LX96I	1 U	7	1 U	3	6	500	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/25/2017	XX	LTC4LX9CG	1 U	7	1 U	5	9	500	5 U	1	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/24/2017	XX	LTC4LX9GB	1 U	3	1 U	2	3	400	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	LTC4LXA2A	1 U	7.5	1.1	5	9.6	400	5 U	1.4	1 U	1 U	2 U	1 U	0.5 U	2 U	1
7/17/2018	XX	LTC4LXABB	1 U	1.5	1 U	1 U	1.7	110	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/2/2018	XX	LTC4LXB09	10 U	10 U	10 U	10 U	11	430	50 U	10 U	10 U	10 U	20 U	10 U	5 U	20 U	10 U
4/23/2019	XX	LTC4LXB56	20 U	20 U	20 U	20 U	20 U	280	100 U	20 U	20 U	20 U	40 U	20 U	10 U	40 U	20 U
7/16/2019	XX	LTC4LXBBI	10 U	10 U	10 U	10 U	10	390	50 U	10 U	10 U	10 U	20 U	10 U	5 U	20 U	10 U
10/29/2019	XX	LTC4LXBHB	10 U	12	10 U	10 U	10 U	370	50 U	10 U	10 U	10 U	20 U	10 U	5 U	20 U	10 U
4/28/2020	XX	LTC4LXCCI	10 U	10 U	10 U	10 U	10 U	420	20 U	10 U	10 U	10 U	5 U	10 U	5 U	20 U	10 U
7/21/2020	XX	LTC4LXCHB	1 U	7.8	1 U	5.3	9.1	490	2 U	1.5	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1
10/27/2020	XX	LTC4LXD2F	10 U	10 U	10 U	10 U	12	350	20 U	10 U	10 U	10 U	5 U	10 U	5 U	20 U	10 U
QCBT																	
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
10/23/2012	XX	BTXXXX5C8	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
7/30/2013	XX	BTXXXX65D	0.5 U	0.5 U	1 U	1 U	1 U		2.5 U	0.5 U	2.5 U	5 U	2 U	0.5 U	5 U	2.5 U	2.5 U
10/29/2013	XX	BTXXXX68C	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/21/2014	XX	BTXXXX6G4	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Leachate - VOAs Part 3 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	Chlorobenzene ug/L	Ethylbenzene ug/L	Styrene ug/L	o-Xylene ug/L	m,p-Xylene ug/L	Tetra hydrofuran ug/L	Trichloro fluoromethane ug/L	cis-1,2-Dichloroethene ug/L	Bromochloro methane ug/L	Dibromo methane ug/L	1,2-Dibromoethane ug/L	1,1,1,2-Tetrachloro ethane ug/L	1,2,3-Trichloro propane ug/L	1,2-Dibromo-3-Chloropropane ug/L	1,4-Dichloro benzene ug/L
4/22/2014	XX	BTXXXX6G5	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/30/2014	XX	BTXXXX70B	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/21/2014	XX	BTXXXX748	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79E	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79F	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/27/2015	XX	BTXXXX79J	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/15/2015	XX	BTXXXX7DB	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/27/2015	XX	BTXXXX7II	2 U	1 U	1 U	1 U	1 U		5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX87GX	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/5/2016	XX	BTXXXX876	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/6/2016	XX	BTXXXX875	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
7/26/2016	XX	BTXXXX8BF	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
10/25/2016	XX	BTXXXX8JE	2 U	1 U	1 U	1 U	1 U	10 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
4/17/2017	XX	BTXXXX985	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/18/2017	XX	BTXXXX980	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/18/2017	XX	BTXXXX981	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/25/2017	XX	BTXXXX9DI	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/24/2017	XX	BTXXXX9HD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/2/2018	XX	BTXXXXA3C	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5	2 U	1 U
4/3/2018	XX	BTXXXXA3H	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	BTXXXXHHD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/3/2018	XX	BTXXXXHG3	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/4/2018	XX	BTXXXXA5F	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/5/2018	XX	BTXXXXA71	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/10/2018	XX	BTXXXXA72	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/11/2018	XX	BTXXXXHHB	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/12/2018	XX	BTXXXXHHC	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/4/2018	XX	BTXXXXA74	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/5/2018	XX	BTXXXXA7I	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
6/6/2018	XX	BTXXXXA7J	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/17/2018	XX	BTXXXXACD	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/19/2018	XX	BTXXXXAE2	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
8/20/2018	XX	BTXXXXAF3	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/2/2018	XX	BTXXXXB1B	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/22/2019	XX	BTXXXXB6D	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	BTXXXXB69	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
4/23/2019	XX	BTXXXXB68	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
7/16/2019	XX	BTXXXXBCJ	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
10/29/2019	XX	BTXXXXBIC	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	2 U	1 U	0.5 U	2 U	1 U
2/25/2020	XX	BTXXXXC86	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
2/26/2020	XX	BTXXXXC5G	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/27/2020	XX	BTXXXXCDJ	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	BTXXXXCE0	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/28/2020	XX	BTXXXXCE4	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
4/30/2020	XX	BTXXXXCC3	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
6/23/2020	XX	BTXXXXCGE	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
7/21/2020	XX	BTXXXXCIC	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
7/21/2020	XX	BTXXXXCGH	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
8/20/2020	XX	BTXXXXD21	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U
10/27/2020	XX	BTXXXXD3G	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	0.5 U	1 U	0.5 U	2 U	1 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)			Chlorobenzene	Ethylbenzene	Styrene	o-Xylene	m,p-Xylene	Tetra hydrofuran	Trichloro fluoromethane	cis-1,2-Dichloroethene	Bromochloro methane	Dibromo methane	1,2-Dibromoethane	1,1,1,2-Tetrachloro ethane	1,2,3-Trichloro propane	1,2-Dibromo-3-Chloropropane	1,4-Dichloro benzene
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

J - Analyte was positively identified/Associated value is an estimate.

U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:41 FOR: Juniper Ridge Landfill	SUMMARY REPORT Leachate - VOAs Part 4 of 4	 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/27/2011	XX	LTC4LX49C		5 U		5 U	5 U
7/19/2011	XX	LTC4LX4DA	0.5 U	0.5 U		0.5 U	0.5 U
10/26/2011	XX	LTC4LX4H5	0.5 U	0.5 U		0.5 U	0.5 U
4/24/2012	XX	LTC4LX51F	5 U	5 U		5 U	5 U
7/24/2012	XX	LTC4LX56E	5 U	5 U		5 U	35
10/23/2012	XX	LTC4LX5D5	25 U	25 U		25 U	25 U
4/23/2013	XX	LTC4LX5HG	25 U	25 U		25 U	25 U
7/30/2013	XX	LTC4LX641	250 U	500 U		250 U	500 U
10/29/2013	XX	LTC4LX66E	200 U	4000 U		1000 U	1000 U
4/22/2014	XX	LTC4LX6EH	9.6 U	400 U		100 U	100 U
7/30/2014	XX	LTC4LX6J4	1 U	20 U		5 U	5 U
10/21/2014	XX	LTC4LX72F	10 U	200 U		50 U	50 U
4/28/2015	XX	LTC4LX78C	10 U	200 U		50 U	50 U
7/15/2015	XX	LTC4LX7C4	10 U	200 U		50 U	50 U
10/27/2015	XX	LTC4LX7HD	10 U	200 U		50 U	50 U
4/5/2016	XX	LTC4LX863	10 U	200 U	50 U	50 U	50 U
7/26/2016	XX	LTC4LX8AD	10 U	200 U	50 U	50 U	50 U
10/25/2016	XX	LTC4LX8IC	1 U	20 U	8	5 U	5 U
4/18/2017	XX	LTC4LX96I	1 U	20 U	5 U	5 U	5 U
7/25/2017	XX	LTC4LX9CG	1 U	20 U	5 U	5 U	5 U
10/24/2017	XX	LTC4LX9GB	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	LTC4LXA2A	1 U	20 U	5 U	5 U	5 U
7/17/2018	XX	LTC4LXABB	1 U	20 U	5 U	5 U	5 U
10/2/2018	XX	LTC4LXB09	10 U	200 U	50 U	50 U	50 U
4/23/2019	XX	LTC4LXB56	20 U	400 U	100 U	100 U	100 U
7/16/2019	XX	LTC4LXBBI	10 U	200 U	50 U	50 U	50 U
10/29/2019	XX	LTC4LXBHB	10 U	200 U	50 U	50 U	50 U
4/28/2020	XX	LTC4LXCCI	10 U	200 U	20 U	50 U	50 U
7/21/2020	XX	LTC4LXCHB	1 U	20 U	6.5	5 U	5 U
10/27/2020	XX	LTC4LXD2F	10 U	200 U	20 U	50 U	50 U

QCBT

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/25/2011	XX	BTXXXX4AJ	0.5 U	0.5 U		0.5 U	0.5 U
4/26/2011	XX	BTXXXX4B0	0.5 U	0.5 U		0.5 U	0.5 U
4/27/2011	XX	BTXXXX4B5	0.5 U	0.5 U		0.5 U	0.5 U
7/19/2011	XX	BTXXXX4F3	0.5 U	0.5 U		0.5 U	0.5 U
10/26/2011	XX	BTXXXX4G8	0.5 U	0.5 U		0.5 U	0.5 U
4/23/2012	XX	BTXXXX532	1 U	1 U		1 U	1 U
4/24/2012	XX	BTXXXX533	1 U	1 U		1 U	1 U
4/25/2012	XX	BTXXXX538	1 U	1 U		1 U	1 U
7/24/2012	XX	BTXXXX585	1 U	1 U		1 U	1.5
10/23/2012	XX	BTXXXX5C8	1 U	1 U		1 U	1 U
4/22/2013	XX	BTXXXX5J3	1 U	1 U		1 U	1 U
4/23/2013	XX	BTXXXX5J4	1 U	1 U		1 U	1 U
4/24/2013	XX	BTXXXX5J8	1 U	1 U		1 U	1 U
7/30/2013	XX	BTXXXX65D	2.5 U	5 U		2.5 U	5 U
10/29/2013	XX	BTXXXX68C	1 U	20 U		5 U	5 U
4/21/2014	XX	BTXXXX6G4	1 U	20 U		5 U	5 U

SUMMARY REPORT

Leachate - VOAs Part 4 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)

Date	Type	Sample ID	1,2-Dichloro benzene ug/L	Acrylonitrile ug/L	Diethyl ether ug/L	trans-1,4-Dichloro-2-butene ug/L	Iodomethane ug/L
4/22/2014	XX	BTXXXX6G5	1 U	20 U		5 U	5 U
7/30/2014	XX	BTXXXX70B	1 U	20 U		5 U	5 U
10/21/2014	XX	BTXXXX748	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79E	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79F	1 U	20 U		5 U	5 U
4/27/2015	XX	BTXXXX79J	1 U	20 U		5 U	5 U
7/15/2015	XX	BTXXXX7DB	1 U	20 U		5 U	5 U
10/27/2015	XX	BTXXXX7II	1 U	20 U		5 U	5 U
4/5/2016	XX	BTXXXX87GX	1 U	20 U	5 U	5 U	5 U
4/5/2016	XX	BTXXXX876	1 U	20 U	5 U	5 U	5 U
4/6/2016	XX	BTXXXX875	1 U	20 U	5 U	5 U	5 U
7/26/2016	XX	BTXXXX8BF	1 U	20 U	5 U	5 U	5 U
10/25/2016	XX	BTXXXX8JE	1 U	20 U	5 U	5 U	5 U
4/17/2017	XX	BTXXXX985	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	BTXXXX980	1 U	20 U	5 U	5 U	5 U
4/18/2017	XX	BTXXXX981	1 U	20 U	5 U	5 U	5 U
7/25/2017	XX	BTXXXX9DI	1 U	20 U	5 U	5 U	5 U
10/24/2017	XX	BTXXXX9HD	1 U	20 U	5 U	5 U	5 U
4/2/2018	XX	BTXXXXA3C	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXA3H	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXHHD	1 U	20 U	5 U	5 U	5 U
4/3/2018	XX	BTXXXXHG3	1 U	20 U	5 U	5 U	5 U
4/4/2018	XX	BTXXXXA5F	1 U	20 U	5 U	5 U	5 U
4/5/2018	XX	BTXXXXA71	1 U	20 U	5 U	5 U	5 U
4/10/2018	XX	BTXXXXA72	1 U	20 U	5 U	5 U	5 U
4/11/2018	XX	BTXXXXHHB	1 U	20 U	5 U	5 U	5 U
4/12/2018	XX	BTXXXXHHC	1 U	20 U	5 U	5 U	5 U
6/4/2018	XX	BTXXXXA74	1 U	20 U	5 U	5 U	5 U
6/5/2018	XX	BTXXXXA7I	1 U	20 U	5 U	5 U	5 U
6/6/2018	XX	BTXXXXA7J	1 U	20 U	5 U	5 U	5 U
7/17/2018	XX	BTXXXXACD	1 U	20 U	5 U	5 U	5 U
7/19/2018	XX	BTXXXXAE2	1 U	20 U	5 U	5 U	5 U
8/20/2018	XX	BTXXXXAF3	1 U	20 U	5 U	5 U	5 U
10/2/2018	XX	BTXXXXB1B	1 U	20 U	5 U	5 U	5 U
4/22/2019	XX	BTXXXXB6D	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	BTXXXXB69	1 U	20 U	5 U	5 U	5 U
4/23/2019	XX	BTXXXXB68	1 U	20 U	5 U	5 U	5 U
7/16/2019	XX	BTXXXXBCJ	1 U	20 U	5 U	5 U	5 U
10/29/2019	XX	BTXXXXBIC	1 U	20 U	5 U	5 U	5 U
2/25/2020	XX	BTXXXXC86	1 U	20 U	2 U	5 U	5 U
2/26/2020	XX	BTXXXXC5G	1 U	20 U	2 U	5 U	5 U
4/27/2020	XX	BTXXXXCDJ	1 U	20 U	2 U	5 U	5 U
4/28/2020	XX	BTXXXXCE0	1 U	20 U	2 U	5 U	5 U
4/28/2020	XX	BTXXXXCE4	1 U	20 U	2 U	5 U	5 U
4/30/2020	XX	BTXXXXCC3	1 U	20 U	2 U	5 U	5 U
6/23/2020	XX	BTXXXXCGE	1 U	20 U	2 U	5 U	5 U
7/21/2020	XX	BTXXXXCIC	1 U	20 U	2 U	5 U	5 U
7/21/2020	XX	BTXXXXCGH	1 U	20 U	2 U	5 U	5 U
8/20/2020	XX	BTXXXXD21	1 U	20 U	2 U	5 U	5 U
10/27/2020	XX	BTXXXXD3G	1 U	20 U	2 U	5 U	5 U

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(QCBT)			1,2-Dichloro benzene	Acrylonitrile	Diethyl ether	trans-1,4-Dichloro-2-butene	Iodomethane
Date	Type	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:42 FOR: Juniper Ridge Landfill	SUMMARY REPORT Semi-VOA Part 1 of 7	Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

Date	Type	Sample ID	Phenol	Bis (2-Chloroethyl) ether	2-Chlorophenol	1,3-Dichloro benzene (SVOC)	1,4-Dichloro benzene (SVOC)	Benzyl Alcohol	1,2-Dichloro benzene (SVOC)	2-Methylphenol	Bis(2-Chloroiso propyl) ether	N-Nitroso-di-n-propylamine	Hexachloro ethane	Nitrobenzene	Isophorone	2-Nitrophenol	2,4-Dimethyl phenol
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	13	2 U	3 U	2 U	2 U		2 U	10	2 U	2 U	2 U	3 U	2 U	2 U	4 U
4/24/2012	XX	LTC4LX51F	9.5 U	9.5 U	9.5 U	9.5 U		19 U		9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	140	110 U	110 U	110 U		230 U		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	160	9.6 U	9.6 U	9.6 U		19 U		12	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	110	47 U	47 U	47 U	47 U	94 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	210	200 U	200 U	200 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	75	14 U	14 U	14 U	14 U	28 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	54	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56	85	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U
4/28/2020	XX	LTC4LXCCIDL	190														
4/28/2020	XX	LTC4LXCCI		9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Semi-VOA Part 2 of 7

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR) Date	Type	Sample ID	Bis(2-Chloroethoxy)methane ug/L	2,4-Dichlorophenol ug/L	1,2,4-Trichloro benzene (SVOC) ug/L	Naphthalene (SVOC) ug/L	4-Chloroaniline ug/L	Hexachloro butadiene (SVOC) ug/L	4-Chloro-3-Methylphenol ug/L	2-Methyl naphthalene ug/L	Hexachloro cyclo pentadiene ug/L	2,4,6-Trichlorophenol ug/L	2,4,5-Trichlorophenol ug/L	2-Chloro naphthalene ug/L	2-Nitroaniline ug/L	Dimethyl pthalate ug/L	Acenaphthylene ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	2 U	3 U	2 U	6 J	2 U	2 U	4 J	3 U	1 U	3 U	3 U	3 U	2 U	2 U	1 U
4/24/2012	XX	LTC4LX51F	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	24 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	280 U	110 U	280 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	9.6 U	9.6 U	9.6 U	12	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	24 U	9.6 U	24 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	120 U	47 U	120 U	47 U	47 U
4/5/2016	XX	LTC4LX863	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	500 U	200 U	500 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	14 U	14 U	14 U	20	14 U	14 U	14 U	14 U	14 U	14 U	36 U	14 U	36 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	24 U	9.4 U	24 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56	10 U	10 U	10 U	6.7	10 U	10 U	10 U	1.4	50 U	10 U	10 U	10 U	50 U	10 U	1 U
4/28/2020	XX	LTC4LXCCI	9.5 U	9.5 U	9.5 U	20	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	24 U	9.5 U	9.5 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

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U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:42 FOR: Juniper Ridge Landfill	SUMMARY REPORT Semi-VOA Part 3 of 7	Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	2,6-Dinitrotoluene ug/L	3-Nitroaniline ug/L	Acenaphthene ug/L	2,4-Dinitrophenol ug/L	4-Nitrophenol ug/L	Dibenzofuran ug/L	2,4-Dinitrotoluene ug/L	Diethyl phthalate ug/L	4-Chlorophenyl-phenylether ug/L	Fluorene ug/L	4-Nitroaniline ug/L	4,6-Dinitro-2-methylphenol ug/L	N-Nitroso diphenylamine ug/L	4-Bromophenyl-phenylether ug/L	Hexachloro benzene ug/L
4/27/2011	XX	LTC4LX49C	2 U	1 U	2 J	1 U	2 U	2 U	2 U	2 J	2 U	2 U	2 U	2 U	4 U	2 U	2 U
4/24/2012	XX	LTC4LX51F	9.5 U	24 U	9.5 U	24 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	24 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	110 U	280 U	110 U	280 U	280 U	110 U	110 U	110 U	110 U	110 U	280 U	280 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	9.6 U	24 U	9.6 U	24 U	24 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	24 U	24 U	9.6 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	47 U	120 U	47 U	120 U	120 U	47 U	47 U	47 U	47 U	47 U	120 U	120 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	200 U	500 U	200 U	500 U	500 U	200 U	200 U	200 U	200 U	200 U	500 U	500 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	14 U	36 U	14 U	36 U	36 U	14 U	14 U	14 U	14 U	14 U	36 U	36 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	9.4 U	24 U	9.4 U	24 U	24 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	24 U	24 U	9.4 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56	50 U	50 U	1.5	100 U	50 U	10 U	50 U	50 U	10 U	1 U	50 U	50 U	10 U	10 U	10 U
4/28/2020	XX	LTC4LXCCI	9.5 U	24 U	9.5 U	24 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	24 U	9.5 U	9.5 U	9.5 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

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Concentration Qualifier Notes:

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REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Semi-VOA Part 4 of 7

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR) Date	Type	Sample ID	Pentachlorophenol ug/L	Phenanthrene ug/L	Anthracene ug/L	Di-n-butylphthalate ug/L	Fluoranthene ug/L	Pyrene ug/L	Butylbenzyl phthalate ug/L	3,3-Dichloro benzidine ug/L	Benzo(a) Anthracene ug/L	Chrysene ug/L	Bis(2-Ethylhexyl) phthalate ug/L	Di-n-octylphthalate ug/L	Benzo(b) Fluoranthene ug/L	Benzo(k) Fluoranthene ug/L	Benzo(a) Pyrene ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	2 U	2 U	2 U	1 U	2 U	1 U
4/24/2012	XX	LTC4LX51F	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	280 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	24 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	120 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	500 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	36 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	24 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56	50 U	1 U	1 U	50 U	1 U	1 U	50 U	10 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U
4/28/2020	XX	LTC4LXCCI	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

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Concentration Qualifier Notes:

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REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Semi-VOA Part 5 of 7

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR) Date	Type	Sample ID	Indeno(1,2,3-c,d) Pyrene ug/L	Dibenz(a,h) Anthracene ug/L	Benzo(g,h,i) perylene ug/L	N-Nitroso dimethylamine ug/L	Carbazole ug/L	2,3,4,6-Tetrachloro phenol ug/L	2,6-Dichlorophenol ug/L	3&4-Methylphenol ug/L	2-Acetyl aminofluorene ug/L	4-Aminobiphenyl ug/L	2-sec-Butyl-4-6-dinitrophenol (Dinoseb) ug/L	3,3`-Dimethyl benzidine ug/L	1,3-Dinitro benzene (m-Dinitrobenzene) ug/L	Ethyl methanesulfonat e ug/L	Hexa chloropropene ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	2 U	2 U	1 U		2 U			23			0.21 U				
4/24/2012	XX	LTC4LX51F	9.5 U	9.5 U	9.5 U	9.5 U		9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	4.8 U	24 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	110 U	110 U	110 U	110 U		110 U	110 U	1000	110 U	110 U	4.8 U	280 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	9.6 U	9.6 U	9.6 U	9.6 U		9.6 U	9.6 U	690	9.6 U	9.6 U	5.2 U	24 U	9.6 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	47 U	47 U	47 U	47 U		47 U	47 U	890	47 U	47 U	4.7 U	120 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	200 U	200 U	200 U	200 U		200 U	200 U	1000	200 U	200 U	5.1 U	500 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96IDL								480							
4/18/2017	XX	LTC4LX96I	14 U	14 U	14 U	14 U		14 U	14 U		14 U	14 U	4.7 U	36 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2ADL								350							
4/3/2018	XX	LTC4LXA2A	9.4 U	9.4 U	9.4 U	9.4 U		9.4 U	9.4 U		9.4 U	9.4 U	4.4 U	24 U	9.4 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56RA											4.8 U				
4/23/2019	XX	LTC4LXB56	1 U	1 U	1 U	10 U	10 U	10 UH	10 UH	540	10 UH	10 UH		26 UH	10 UH	10 UH	10 UH
4/28/2020	XX	LTC4LXCCIRE											4.4 U				
4/28/2020	XX	LTC4LXCCIDL								540							
4/28/2020	XX	LTC4LXCCI	9.5 U	9.5 U	9.5 U	9.5 U		9.5 U	9.5 U		9.5 U	9.5 U	4.4 U	24 U	9.5 U	9.5 U	9.5 U

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SUMMARY REPORT

Semi-VOA Part 6 of 7

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

Date	Type	Sample ID	Isosafrole	Methapyrilene	3-Methyl cholanthrene	Methyl methane sulfonate	1-Naphthalene amine (1-Naphthyl amine)	2-Naphthalene amine (2-Naphthyl amine)	1,4-Naphtho quinone	5-Nitro-o-toluidine	N-Nitroso diethylamine	N-Nitrosodi-n-butylamine	N-Nitrosomethyl ethylamine	N-Nitroso piperidine	N-Nitroso pyrrolidine	Pentachloro benzene	Pentachloro nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LT-C4L & LT-C4LR																	
4/24/2012	XX	LTC4LX51F	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	110 U	280 U	110 U	110 U	110 U	110 U	280 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	9.6 U	24 U	9.6 U	9.6 U	9.6 U	9.6 U	24 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
4/28/2015	XX	LTC4LX78C	47 U	120 U	47 U	47 U	47 U	47 U	120 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	200 U	500 U	200 U	200 U	200 U	200 U	500 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	14 U	36 U	14 U	14 U	14 U	14 U	36 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	9.4 U	24 U	9.4 U	9.4 U	9.4 U	9.4 U	24 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
4/23/2019	XX	LTC4LXB56		26 UH	10 UH	10 UH	10 UH	10 UH	26 UH	10 UH	10 UH	10 UH	10 UH	10 UH	10 UH	10 UH	10 UH
4/28/2020	XX	LTC4LXCCI	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U

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Concentration Qualifier Notes:

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REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Semi-VOA Part 7 of 7

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Phenacetin ug/L	p-Phenylene diamine ug/L	Pronamide ug/L	1,2,4,5-Tetrachloro benzene ug/L	1,3,5-Trinitro benzene (sym-Trinitrobenzene) ug/L	Safrole ug/L	O-Toluidine ug/L	p-(Dimethyl amino) azobenzene ug/L	7,12-Dimethylbenz (a)anthracene ug/L	Acetophenone ug/L
4/24/2012	XX	LTC4LX51F	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	9.5 U
4/23/2013	XX	LTC4LX5HG	110 U	280 U	110 U	110 U	110 U	110 U	280 U	110 U	110 U	110 U
4/22/2014	XX	LTC4LX6EH	9.6 U	24 U	9.6 U	9.6 U	9.6 U	9.6 U	24 U	9.6 U	9.6 U	11
4/28/2015	XX	LTC4LX78C	47 U	120 U	47 U	47 U	47 U	47 U	120 U	47 U	47 U	47 U
4/5/2016	XX	LTC4LX863	200 U	500 U	200 U	200 U	200 U	200 U	500 U	200 U	200 U	200 U
4/18/2017	XX	LTC4LX96I	14 U	36 U	14 U	14 U	14 U	14 U	36 U	14 U	14 U	14 U
4/3/2018	XX	LTC4LXA2A	9.4 U	24 U	9.4 U	9.4 U	9.4 U	9.4 U	24 U	9.4 U	9.4 U	11
4/23/2019	XX	LTC4LXB56	10 UH	26 UH	10 UH	10 UH	10 UH	10 UH	26 UH	10 UH	10 UH	100 U
4/28/2020	XX	LTC4LXCCI	9.5 U	24 U	9.5 U	9.5 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	14

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REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Pesticides, Herbicides and PCBs Part 1 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	alpha-BHC ug/L	beta-BHC ug/L	delta-BHC ug/L	gamma-BHC (Lindane) ug/L	Heptachlor ug/L	Aldrin ug/L	Heptachlor Epoxide ug/L	Endosulfan I ug/L	Dieldrin ug/L	4,4'-DDE ug/L	Endrin ug/L	Endosulfan II ug/L	4,4'-DDD ug/L	Endosulfan Sulfate ug/L	4,4'-DDT ug/L
4/27/2011	XX	LTC4LX49C	0.0065 U	0.0059 U	0.012 U	0.0068 U	0.0075 U	0.007 U	0.43	0.006 U	0.0061 U	0.0046 U	0.0079 U	0.0054 U	0.0085 U	0.0063 U	0.0084 U
4/24/2012	XX	LTC4LX51F	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
4/23/2013	XX	LTC4LX5HG	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
4/22/2014	XX	LTC4LX6EH	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
4/28/2015	XX	LTC4LX78C	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
4/5/2016	XX	LTC4LX863	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
4/18/2017	XX	LTC4LX96IRE	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4/3/2018	XX	LTC4LXA2A	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
4/23/2019	XX	LTC4LXB56	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.036	0.02 U
4/28/2020	XX	LTC4LXCCI	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

SUMMARY REPORT

Pesticides, Herbicides and PCBs Part 2 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Methoxychlor ug/L	Endrin Ketone ug/L	alpha-Chlordane ug/L	gamma-Chlordane ug/L	Toxaphene ug/L	Aroclor-1016 ug/L	Aroclor-1221 ug/L	Aroclor-1232 ug/L	Aroclor-1242 ug/L	Aroclor-1248 ug/L	Aroclor-1254 ug/L	Aroclor-1260 ug/L	Endrin Aldehyde ug/L	Chlordane (technical) ug/L	2,4-Dichloro phenoxyacetic Acid ug/L
4/27/2011	XX	LTC4LX49C	0.0079 U	0.0074 U	0.0072 U	0.0057 U	0.16 U	0.14 U	0.19 U	0.085 U	0.17 U	0.19 U	0.075 U	0.16 U	0.0058 U		0.28 U
4/24/2012	XX	LTC4LX51F	0.47 U				0.94 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.094 U	0.47 U	2.8 U
4/23/2013	XX	LTC4LX5HG	0.48 U				0.97 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.097 U	0.48 U	2.9 U
4/22/2014	XX	LTC4LX6EH	0.48 U				0.95 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.095 U	0.48 U	3.1 U
4/28/2015	XX	LTC4LX78C	0.47 U				0.94 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.094 U	0.47 U	2.8 U
4/5/2016	XX	LTC4LX863	0.48 U				0.96 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.096 U	0.48 U	3.1 U
4/18/2017	XX	LTC4LX96IRE	0.52 U				1 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.1 U	0.52 U	
4/18/2017	XX	LTC4LX96I															2.8 U
4/3/2018	XX	LTC4LXA2A	0.47 U				0.94 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.094 U	0.47 U	2.7 U
4/23/2019	XX	LTC4LXB56RA															2.8 U
4/23/2019	XX	LTC4LXB56	0.1 U				0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U	0.1 U	
4/28/2020	XX	LTC4LXCCIRE															2.7 U
4/28/2020	XX	LTC4LXCCI	0.47 U				0.93 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.093 U	0.47 U	2.6 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

REPORT PREPARED: 3/17/2021 07:42 FOR: Juniper Ridge Landfill	SUMMARY REPORT Pesticides, Herbicides and PCBs Part 3 of 4	Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR) Date	Type	Sample ID	2,4,5-Trichloro phenoxypro pionic Acid ug/L	2,4,5-Trichloro phenoxyacetic acid ug/L	Diallate ug/L	Isodrin ug/L	Kepone ug/L	Dimethoate ug/L	Chlorobenzilate ug/L	Disulfoton ug/L	Famphur ug/L	Methyl Parathion ug/L	Parathion ug/L	Phorate ug/L	Thionazin ug/L	o,o,o-Triethyl phosphoro thioate ug/L	Dalapon ug/L
LT-C4L & LT-C4LR																	
4/27/2011	XX	LTC4LX49C	0.19 U	0.5 U													0.31 U
4/24/2012	XX	LTC4LX51F	2.8 U	2.8 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	9.5 U	28 U	9.5 U	24 U	9.5 U		9.5 U	
4/23/2013	XX	LTC4LX5HG	2.9 U	2.9 U	110 U	110 U	280 U	110 U	110 U	110 U	340 U	110 U	280 U	110 U	230 U	110 U	
4/22/2014	XX	LTC4LX6EH	3.1 U	3.1 U	9.6 U	9.6 U	24 U	9.6 U	9.6 U	9.6 U	29 U	9.6 U	24 U	9.6 U	19 U	9.6 U	
4/28/2015	XX	LTC4LX78C	2.8 U	2.8 U	47 U	47 U	120 U	47 U	47 U	47 U	140 U	47 U	120 U	47 U	94 U	47 U	
4/5/2016	XX	LTC4LX863	3.1 U	3.1 U	200 U	200 U	500 U	200 U	200 U	200 U	590 U	200 U	500 U	200 U	400 U	200 U	
4/18/2017	XX	LTC4LX96I	2.8 U	2.8 U	14 U	14 U	36 U	14 U	14 U	14 U	43 U	14 U	36 U	14 U	28 U	14 U	
4/3/2018	XX	LTC4LXA2A	2.7 U	2.7 U	9.4 U	9.4 U	24 U	9.4 U	9.4 U	9.4 U	28 U	9.4 U	24 U	9.4 U	19 U	9.4 U	
4/23/2019	XX	LTC4LXB56RA	2.9 U	2.9 U													
4/23/2019	XX	LTC4LXB56			10 UH	10 UH	26 UH	10 UH	10 UH	10 UH	31 UH	10 UH	26 UH	10 UH	21 UH	10 UH	
4/28/2020	XX	LTC4LXCCIRE	2.7 U	2.7 U													
4/28/2020	XX	LTC4LXCCI	2.7 U	2.6 U	9.5 U	9.5 U	24 U	9.5 U	9.5 U	9.5 U	28 U	9.5 U	24 U	9.5 U	19 U	9.5 U	

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

UH - Not Detected above the laboratory reporting limit. Analyzed outside U.S.EPA's recommended hold time

REPORT PREPARED: 3/17/2021 07:42

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Pesticides, Herbicides and PCBs Part 4 of 4

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(LT-C4L & LT-C4LR)

LT-C4L & LT-C4LR

Date	Type	Sample ID	Dicamba ug/L	Dichloroprop ug/L	MCPA ug/L	MCPP ug/L	2,4-DB ug/L	2-sec-Butyl-4-6-dinitrophenol (Dinoseb) ug/L
4/27/2011	XX	LTC4LX49C	0.14 U	0.26 U	32 U	48 U	0.51 U	0.21 U
4/24/2012	XX	LTC4LX51F						4.8 U
4/23/2013	XX	LTC4LX5HG						4.8 U
4/22/2014	XX	LTC4LX6EH						5.2 U
4/28/2015	XX	LTC4LX78C						4.7 U
4/5/2016	XX	LTC4LX863						5.1 U
4/18/2017	XX	LTC4LX96I						4.7 U
4/3/2018	XX	LTC4LXA2A						4.4 U
4/23/2019	XX	LTC4LXB56RA						4.8 U
4/28/2020	XX	LTC4LXCCIRE						4.4 U
4/28/2020	XX	LTC4LXCCI						4.4 U

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

U - Not Detected above the laboratory reporting limit.

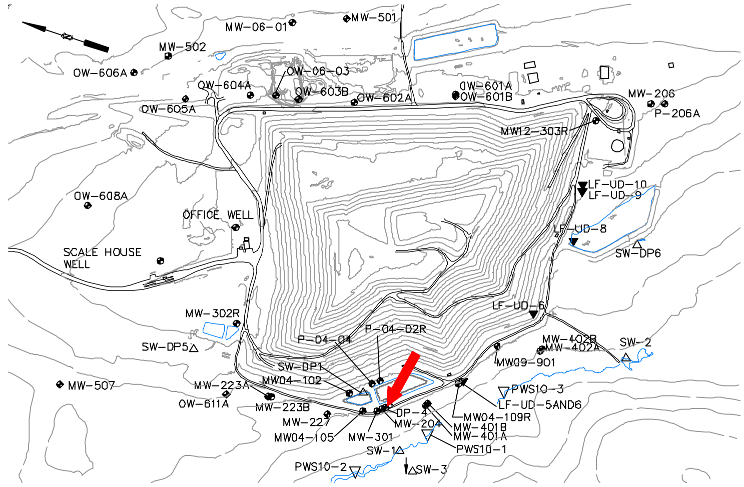
APPENDIX E

2020 WATER QUALITY SUMMARY REPORTS AND BOX & WHISKER PLOTS

SME
SEVEE & MAHER
ENGINEERS

Well Description

DP-4 is located downgradient of the landfill and former leachate pond and monitors groundwater quality within the overburden.



Screen Interval:	**18.5 ft. to 24.5 ft.**
Sampled:	**1 Time Annually(field parameters only)**
Sampled Since:	**01/30/04**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

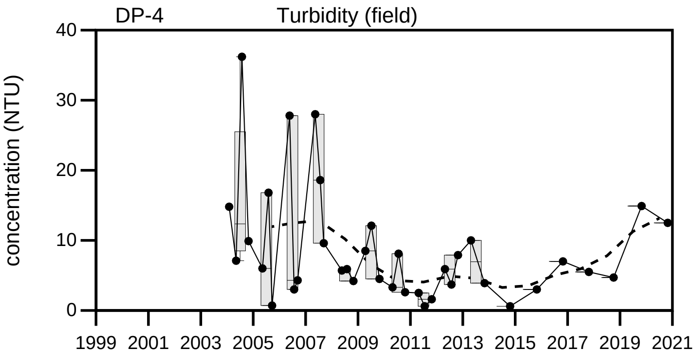
	2020				Historical (1/1/1980 - 12/31/2020)				
Indicator Parameters	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)				249	100	to 965	340	± 23	36
pH (STU)				6.4	5.6	to 7.3	6.5	± 0.061	36
Temperature (Deg C)				11.8	6	to 23.9	13	± 0.66	36
Water Level Elevation (Feet)				154.27	152.18	to 156.12	150	± 0.15	36
Eh (mV)				315	-51	to 352	240	± 15	35
Dissolved Oxygen (mg/L)				0.6	0.4	to 6	1.8	± 0.27	36
Turbidity (field) (NTU)				12.5	0.6	to 36.2	8.6	± 1.4	36

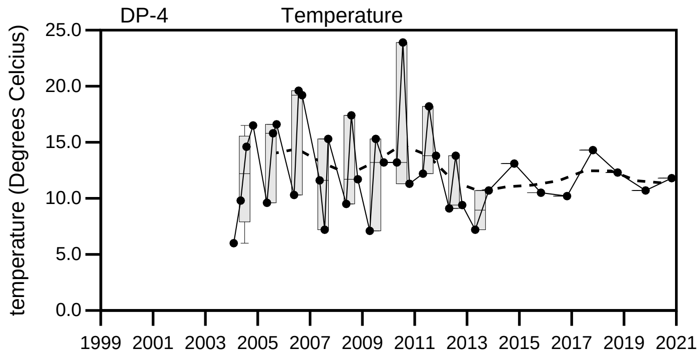
underlined/bold - values exceed a regulatory standard listed below.

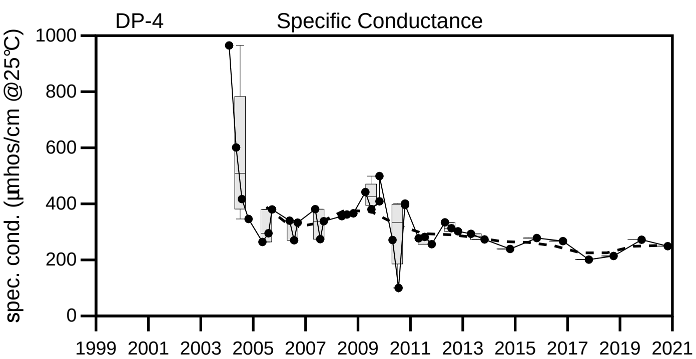
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

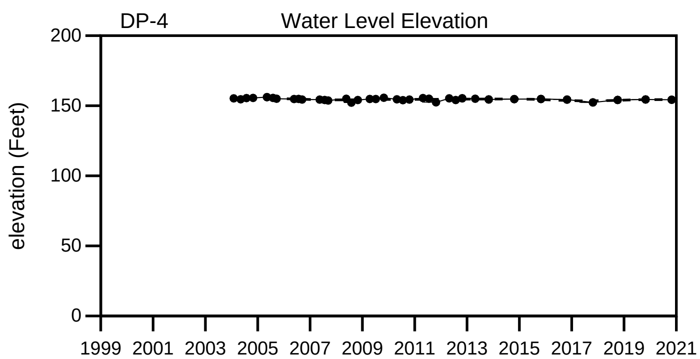
Comments

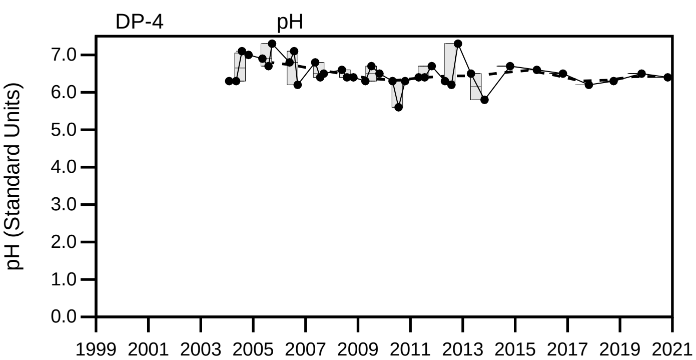
Q4= 10 - 2020

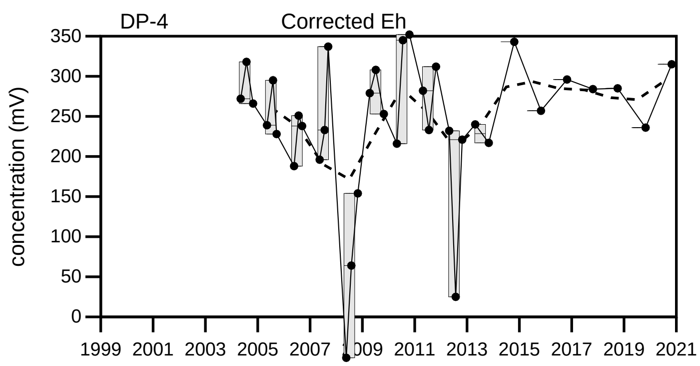


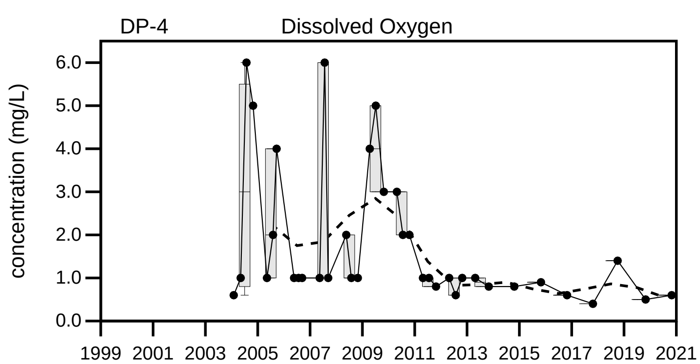












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

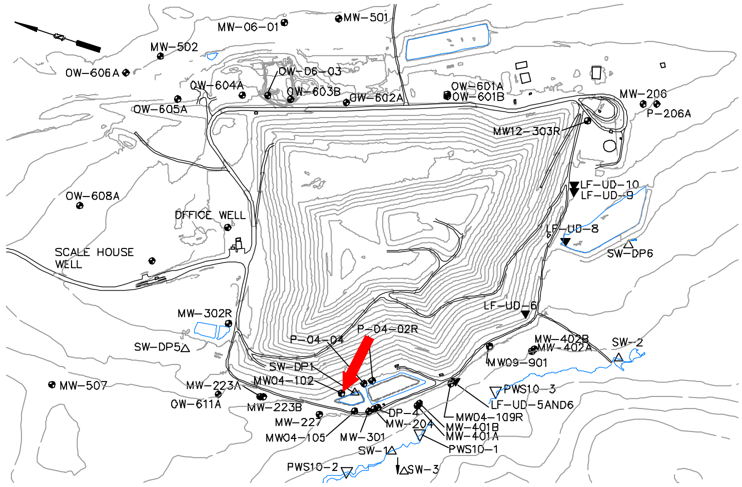
Juniper Ridge Landfill

DP-4

Sevee & Maher Engineers, Inc.

Well Description

MW04-102 monitors groundwater in the overburden downgradient of the landfill and upgradient of Stormwater Detention Pond-1.



Screen Interval:	**10 ft. to 15 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**01/18/2005**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		235	219	224	193	to	320	230	±	3.1	46
pH (STU)		7	7.6	7.2	6.2	to	8.4	7.9	±	0.056	46
Temperature (Deg C)		6.1	15.6	12.5	4	to	20.1	12	±	0.63	46
Water Level Elevation (Feet)		163.12	↓161.8	162.22	161.92	to	167.62	160	±	0.16	46
Eh (mV)		348	262	351	-8	to	476	310	±	13	46
Dissolved Oxygen (mg/L)		4.9	3.9	5.5	1	to	7.5	3.6	±	0.22	46
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	to	0.017	0.0054	±	0.000	46
Calcium (mg/L)		28	25	26	23.5	to	31.2	26	±	0.25	46
Iron (mg/L)		0.05 U	0.06	0.05 U	0.02 U	to	0.19	0.054	±	0.005	46
Magnesium (mg/L)		7.5	6.9	6.9	6.3	to	8.1	7	±	0.058	46
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.09	0.039	±	0.003	46
Potassium (mg/L)		1.5	2	1.4	1.2	to	3.2	1.8	±	0.055	46
Sodium (mg/L)		7.2	8	8	6.4	to	11	7.7	±	0.15	46
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.28	0.25 U	to	3.8	0.52	±	0.08	46
Nitrite/Nitrate - (N) (mg/L)		0.15	0.089	0.085	0.05 U	to	2 U	0.26	±	0.13	15
Total Dissolved Solids (mg/L)		138	133	136	116	to	151	130	±	1.3	46
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	5	3.8	±	0.094	46
Sulfate (mg/L)		13	13	11	5.7	to	14.5	10	±	0.33	46
Bicarbonate Alkalinity (CaCO3) (mg/L)		100	100	↑110	73	to	109	100	±	0.75	46
Organic Carbon (mg/L)		2 U	2 U	5.2 M10	0.5	to	5.3	1.8	±	0.12	46
Chloride (mg/L)		2 U	1.6	1.1	1 U	to	3.5	1.8	±	0.086	46
Bromide (mg/L)		0.2 U	0.1 U	0.1 U	0.03 U	to	0.2 U	0.1	±	0.01	25
Turbidity (field) (NTU)		1.2	2.4	2.7	0	to	8.1	1.4	±	0.22	46

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

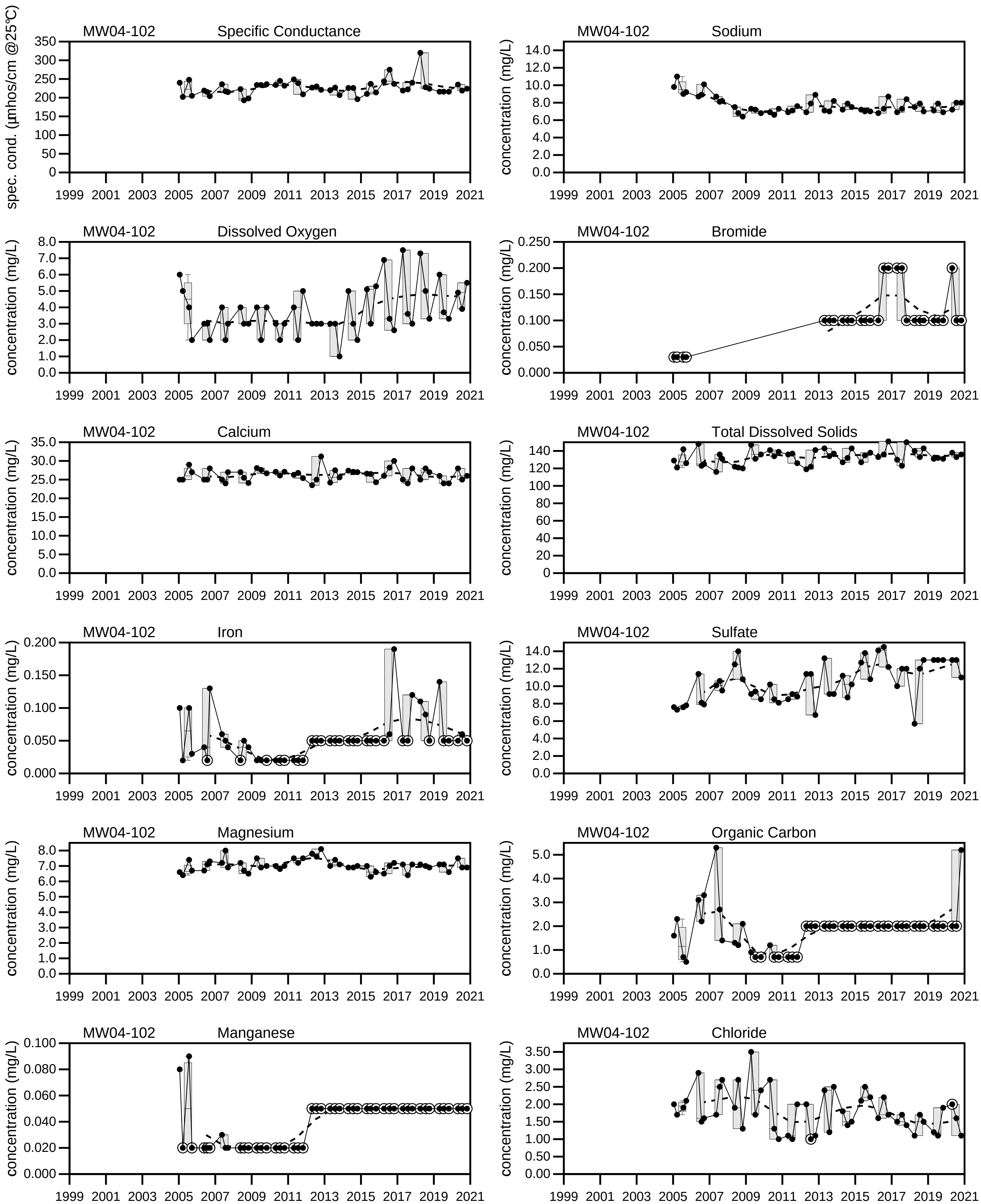
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

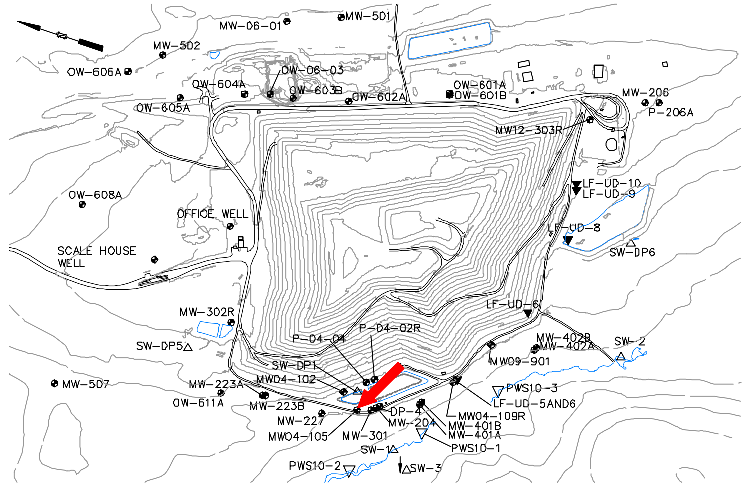
Juniper Ridge Landfill

MW04-102

Sevee & Maher Engineers, Inc.

Well Description

MW04-105 monitors groundwater in the overburden downgradient of the landfill and Stormwater Detention Pond-1.



Screen Interval:	**14.8 ft. to 19.8 ft.**
Sampled:	**1 Time Annually(field parameters only)**
Sampled Since:	**01/17/2005**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

	2020				Historical (1/1/1980 - 12/31/2020)		
Indicator Parameters	Q1	Q2	Q3	Q4	Min Max	Mean SE	n
Specific Conductance (µmhos/cm @25°C)				276	217 to 703	360 ± 19	33
pH (STU)				7.1	6.1 to 7.7	6.9 ± 0.062	33
Temperature (Deg C)				11.4	6.7 to 23.8	12 ± 0.61	33
Water Level Elevation (Feet)				157.29	156.39 to 159.79	160 ± 0.13	33
Eh (mV)				348	-7 to 447	300 ± 14	33
Dissolved Oxygen (mg/L)				0.6	0.4 to 4	1.3 ± 0.18	33
Turbidity (field) (NTU)				1.8	0 to 3.7	0.89 ± 0.16	33

underlined/bold - values exceed a regulatory standard listed below.

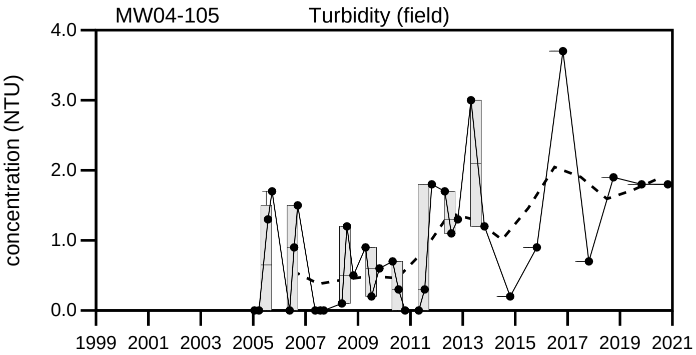
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

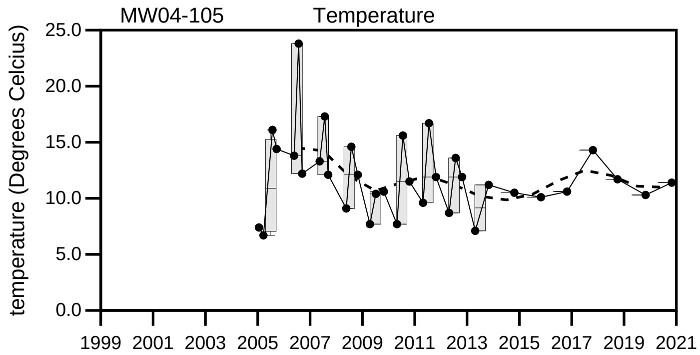
Comments

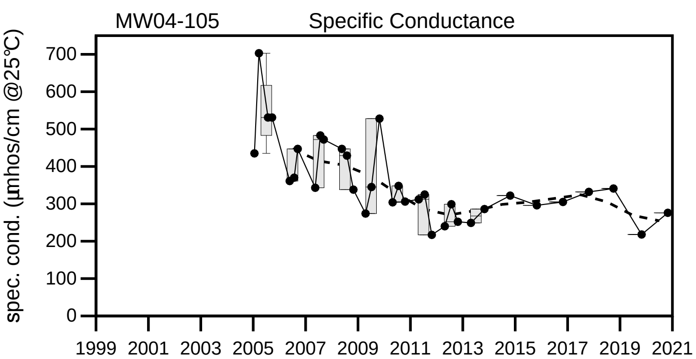
Q4= 10 - 2020

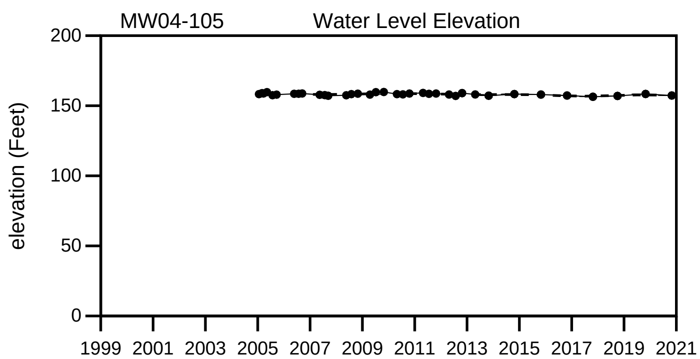
Data Group: 530
Printed: 3/22/2021 07:23

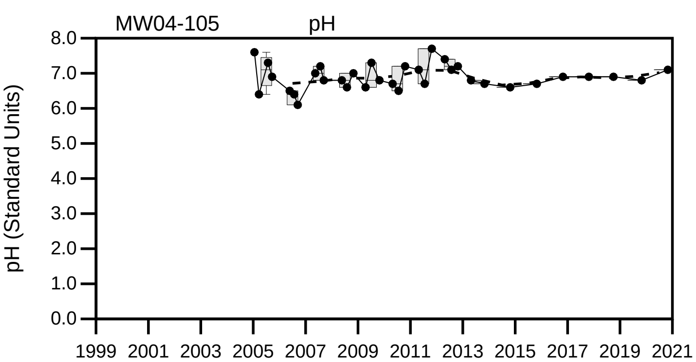
SME SEVEE & MAHER ENGINEERS

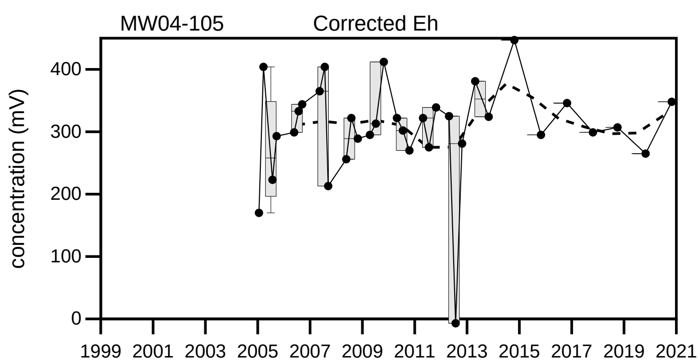


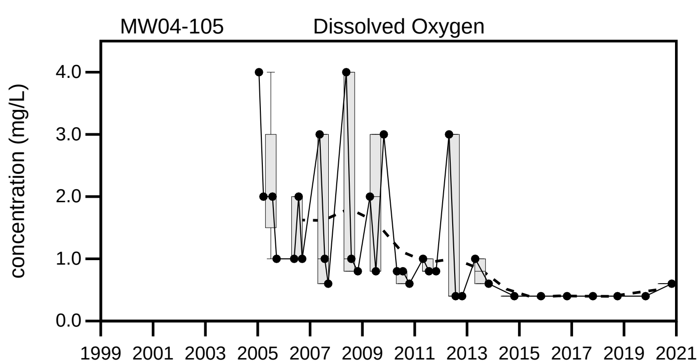












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

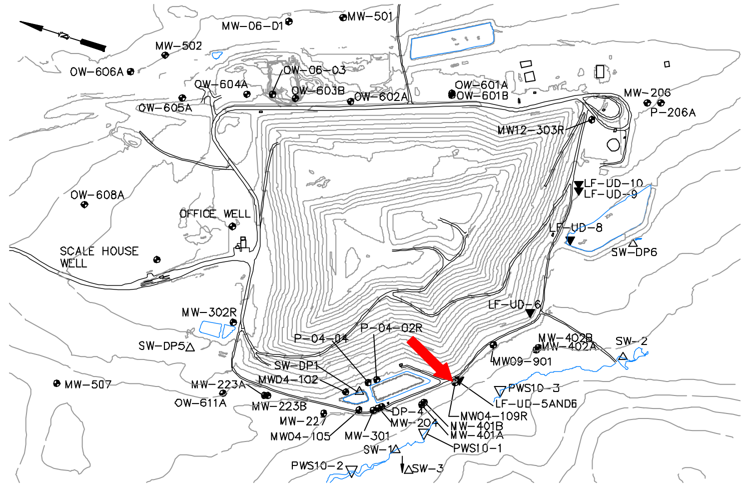
Juniper Ridge Landfill

MW04-105

Sevee & Maher Engineers, Inc.

Well Description

MW04-109R is located to the south of Cell #5 of the landfill and near Manhole #5. This well monitors water quality within the overburden downgradient of the landfill.



Screen Interval:	**15 ft. to 20 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**12/08/2009**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		385	408	391	237	to	556	420	±	9.7	31
pH (STU)		6.9	6.8	6.9	6.3	to	7.9	6.7	±	0.049	31
Temperature (Deg C)		8.7	20.2	9.2	5.9	to	21.9	13	±	0.87	31
Water Level Elevation (Feet)		153.68	152.85	153.05	151.51	to	154.46	150	±	0.12	31
Eh (mV)		354	236	327	-478	to	419	290	±	32	31
Dissolved Oxygen (mg/L)		↑4.3	1.8	0.6	0.1 U	to	2.6	0.86	±	0.1	31
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.002 U	to	0.033	0.013	±	0.001	31
Calcium (mg/L)		59	58	53	50.3	to	77.2	62	±	1.1	31
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.05 U	0.044	±	0.002	31
Magnesium (mg/L)		12	13	11	9.4	to	14.3	11	±	0.22	31
Manganese (mg/L)		**<u>0.37</u>**	**<u>0.96</u>**	**<u>1.3</u>**	0.02	to	1.4	0.48	±	0.086	31
Potassium (mg/L)		1.8	2.3	1.7	1.7	to	2.5	2	±	0.034	31
Sodium (mg/L)		6.5	7.6	7	6.1	to	10.6	8	±	0.22	31
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.29	0.27	0.25 U	to	0.92	0.4	±	0.026	31
Nitrite/Nitrate - (N) (mg/L)		0.11	0.073	0.058	0.05 U	to	2 U	0.26	±	0.13	15
Total Dissolved Solids (mg/L)		251	252	↓224	227	to	310	260	±	3	31
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	4 U	3.6	±	0.12	31
Sulfate (mg/L)		10	8	6.8	2.6	to	55	9.9	±	1.6	31
Bicarbonate Alkalinity (CaCO3) (mg/L)		210	200	190	184	to	233	200	±	2.4	31
Organic Carbon (mg/L)		2 U	2 U	↑54 M10	1.2	to	2.9	1.9	±	0.055	31
Chloride (mg/L)		4.2	3.6	2.8	1 U	to	15.9	6.8	±	0.5	31
Bromide (mg/L)		0.16	0.23	0.14	0.1 U	to	0.25	0.17	±	0.009	21
Turbidity (field) (NTU)		1.2	2.7	1.5	0	to	2.9	0.87	±	0.17	31

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

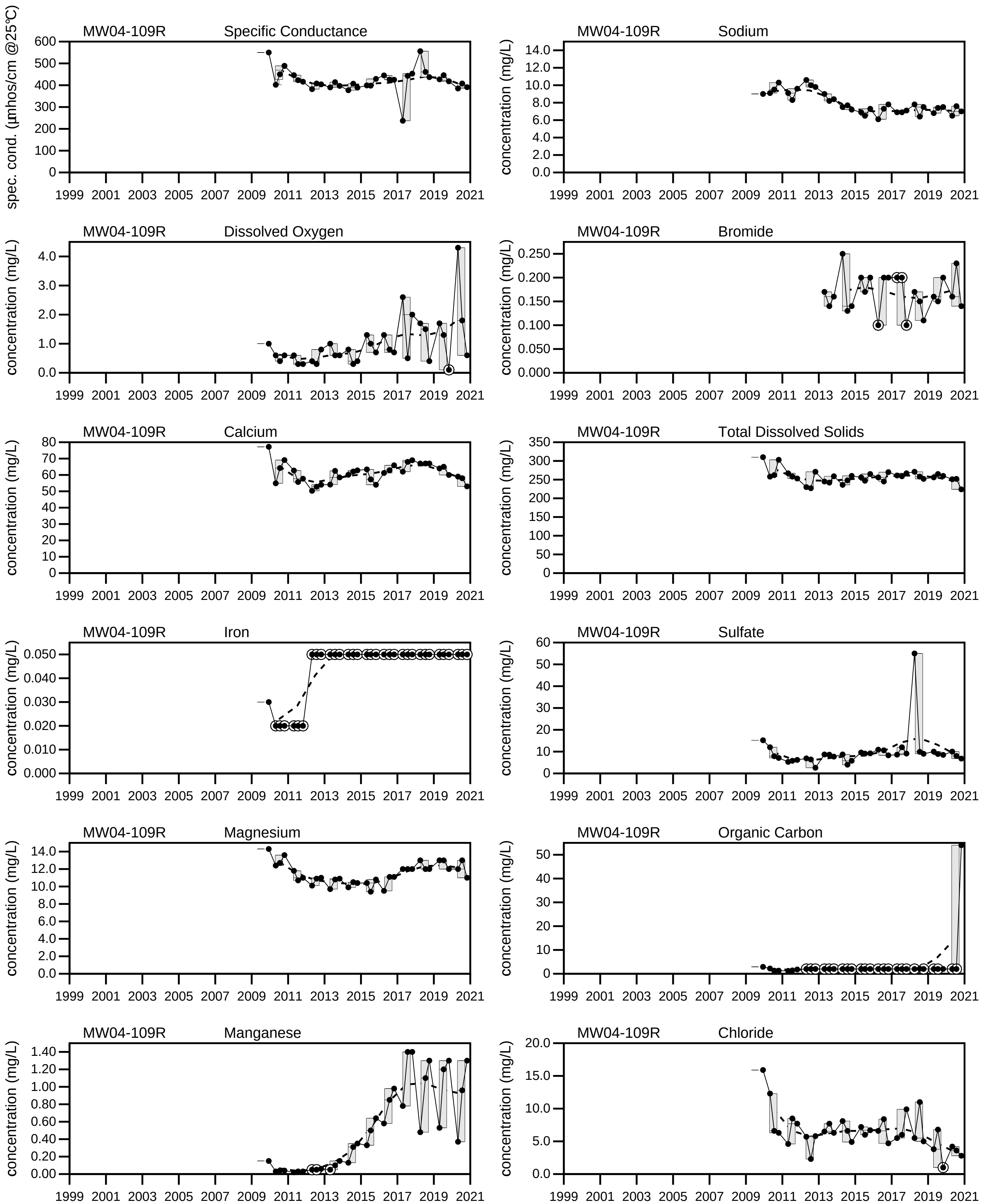
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

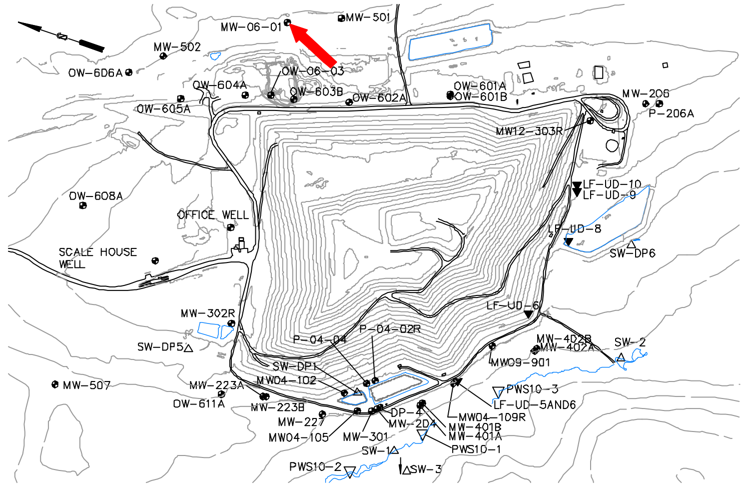
Juniper Ridge Landfill

MW04-109R

Sevee & Maher Engineers, Inc.

Well Description

MW06-01 monitors overburden groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**10 ft. to 20 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		95	98	83	67	to	102	87	±	4.1	7
pH (STU)		7.2	6.7	7.9	6.1	to	8.1	7.1	±	0.3	7
Temperature (Deg C)		6.5	↑18.1	9.8	6.4	to	12.2	9.2	±	0.82	7
Water Level Elevation (Feet)			↓162.881	↓163.461	164.431	to	165.951	170	±	0.35	4
Eh (mV)		394	386	372	219	to	508	350	±	34	7
Dissolved Oxygen (mg/L)		10.9	↓6.8	10.5	7.9	to	13	10	±	0.63	7
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.005 U	to	0.005 U	0.005	±	0	7
Calcium (mg/L)		9.5	8.9	9.3	8.4	to	11	9.2	±	0.36	7
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.05 U	to	0.66	0.14	±	0.087	7
Magnesium (mg/L)		2.7	2.9	2.9	2.4	to	3.2	2.7	±	0.11	7
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.05 U	to	0.05 U	0.05	±	3E-10	7
Potassium (mg/L)		0.6	↑0.9	0.5	0.4	to	0.6	0.47	±	0.036	7
Sodium (mg/L)		2.9	↑3.5	3.4	2.5	to	3.4	2.8	±	0.11	7
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.25 U	to	0.25 U	0.25	±	0	7
Nitrite/Nitrate - (N) (mg/L)		↑0.15	↓0.05 U	↑0.16	0.078	to	0.13	0.11	±	0.008	7
Total Dissolved Solids (mg/L)		60	64	53	50	to	78	66	±	4.7	7
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	2.5 U	2.5	±	0	7
Sulfate (mg/L)		3.3	3.3	2.7	2.3	to	9.2	3.6	±	0.93	7
Bicarbonate Alkalinity (CaCO3) (mg/L)		31	31	33	23	to	34	29	±	3.2	3
Organic Carbon (mg/L)		2 U	2 U	↑4.9 M10	2 U	to	2 U	2	±	0	7
Chloride (mg/L)		7.8	6.7	7.7	1.3	to	8.9	6	±	1	7
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.1 U	0.1	±	6E-10	7
Turbidity (field) (NTU)		0.3	0.2	0.3	0.1	to	3.5	1.5	±	0.55	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 606

Printed: 3/22/2021 14:16

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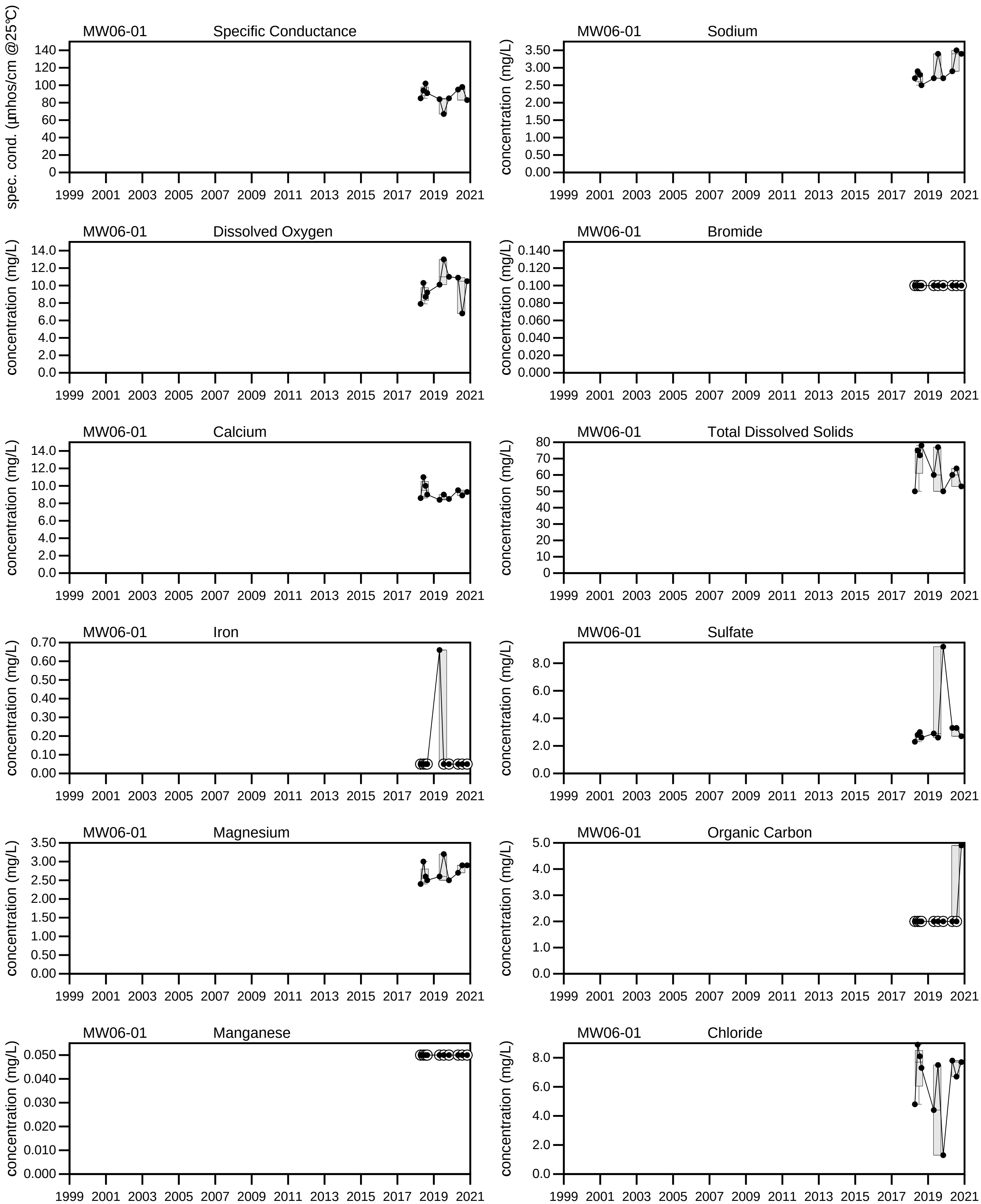
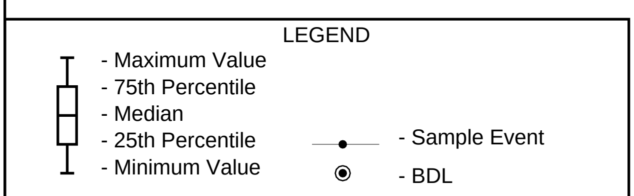




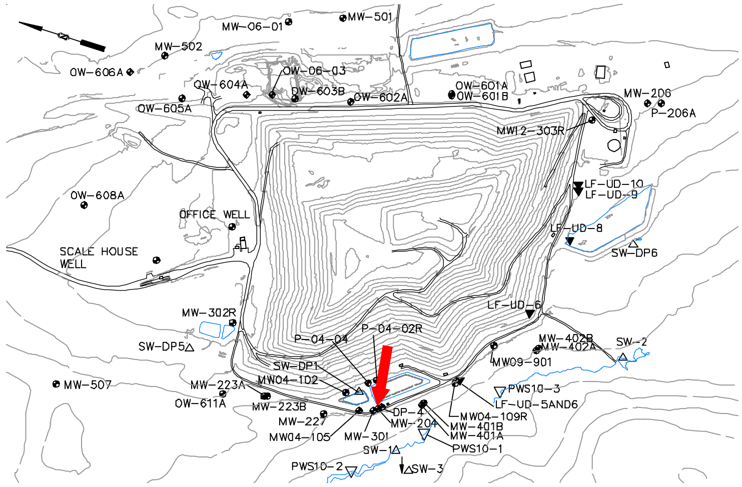
Juniper Ridge Landfill

MW06-01

Sevee & Maher Engineers, Inc.

Well Description

MW-204 monitors the overburden water quality downgradient from the landfill.



Screen Interval:	**13.8 ft. to 18.8 ft.**
Sampled:	**1 Time Annually(field parameters only)**
Sampled Since:	**11/13/90**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

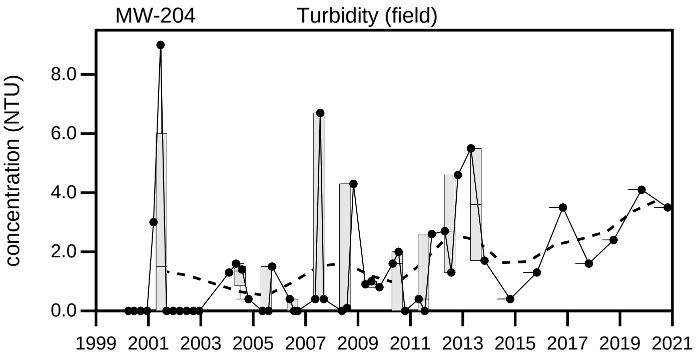
	2020				Historical (1/1/1980 - 12/31/2020)				
Indicator Parameters	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)				265	100	to 340	190	± 5.8	84
pH (STU)				6.6	5.7	to 9.2	6.8	± 0.061	84
Temperature (Deg C)				11.2	-1	to 18	9.9	± 0.38	84
Water Level Elevation (Feet)				154.65	150.53	to 161.5	160	± 0.22	81
Eh (mV)				337	35.2	to 491	290	± 15	46
Dissolved Oxygen (mg/L)				0.4	0.3	to 5.2	1.5	± 0.13	62
Turbidity (field) (NTU)				3.5	0	to 31	2.7	± 0.72	61

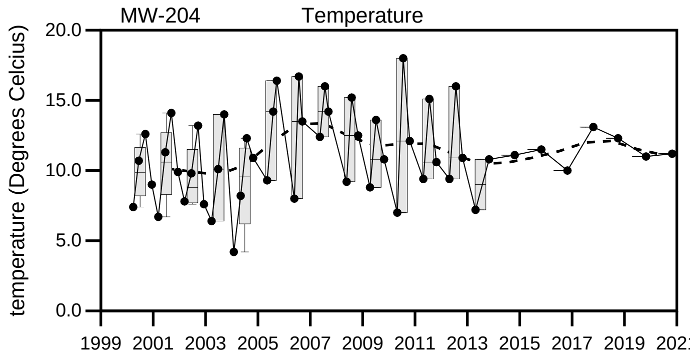
underlined/bold - values exceed a regulatory standard listed below.

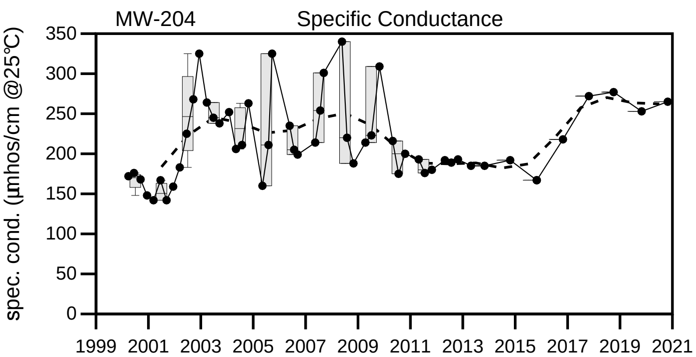
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

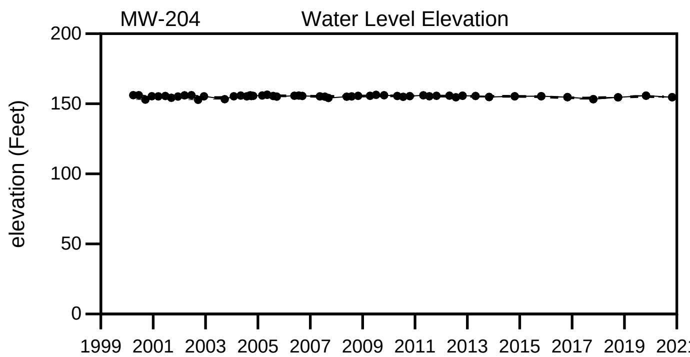
Comments

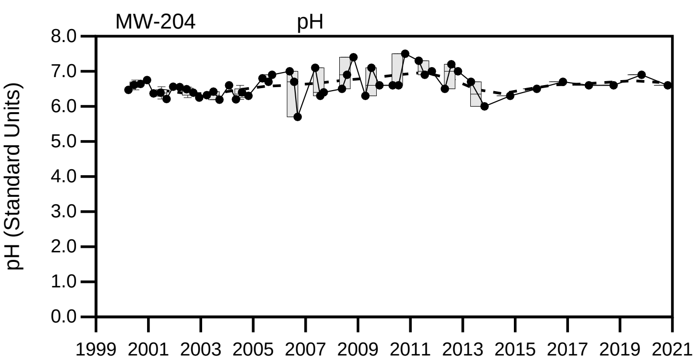
Q4= 10 - 2020

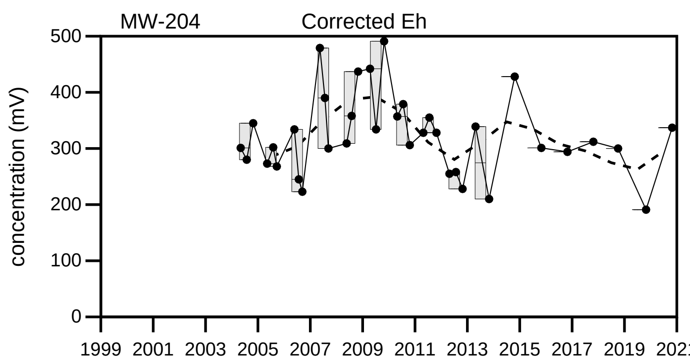


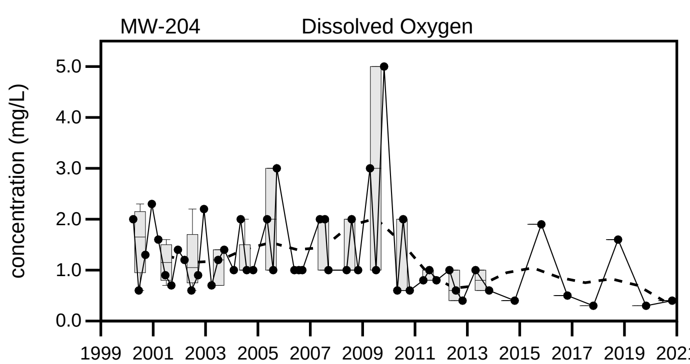












LEGEND

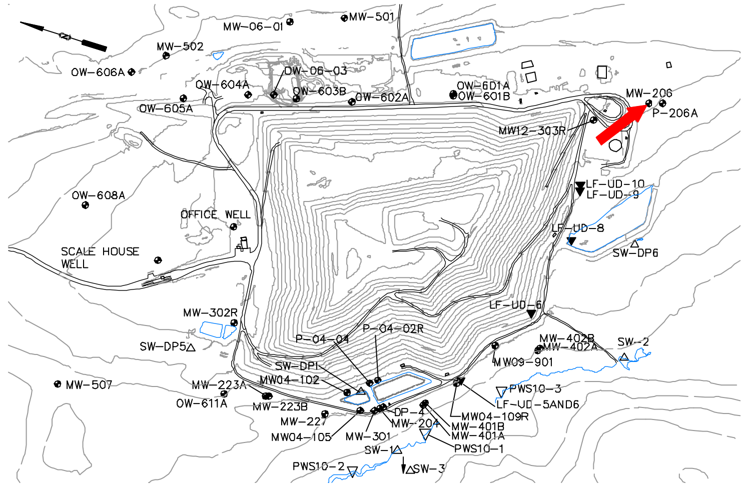
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

MW-204

Sevee & Maher Engineers, Inc.

Well Description



MW-206 monitors overburden water quality upgradient of the landfill.

Screen Interval: **15 ft. to 20 ft.**

Sampled: **3 Times Annually**

Sampled Since: **04/27/93**

Material Screened: **Overburden**

Well Condition: **Good**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		142	146	148	89	to	269	140	±	2.4	88
pH (STU)		7.4	8.1	7.6	6.2	to	8.6	7.9	±	0.05	88
Temperature (Deg C)		4.7	14.3	7.3	2.9	to	17.5	9.7	±	0.35	88
Water Level Elevation (Feet)		199.57	193.87	195.07	186.1	to	201.59	200	±	0.38	85
Eh (mV)		237	191	342	-334	to	464	260	±	17	59
Dissolved Oxygen (mg/L)		8.4	7.5	8.7	2	to	10.9	6.9	±	0.23	74
Arsenic (mg/L)		0.006	0.005	0.005	0.001	to	0.022	0.0074	±	0.000	48
Calcium (mg/L)		18	16	16	13	to	27.2	16	±	0.22	75
Iron (mg/L)		0.09	0.05 U	0.2	0.012	to	1.2	0.14	±	0.023	81
Magnesium (mg/L)		5.2	4.9	4.8	2.7	to	6.9	4.6	±	0.063	75
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.003	to	0.32	0.035	±	0.004	81
Potassium (mg/L)		0.7	0.8	0.4	0.3	to	2.5	0.84	±	0.047	48
Sodium (mg/L)		4.6	4.7	4.3	3.7	to	25	5.5	±	0.26	81
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.15 U	to	2.4	0.58	±	0.075	53
Nitrite/Nitrate - (N) (mg/L)		0.11	0.26	0.16	0.05 U	to	2 U	0.33	±	0.12	15
Total Dissolved Solids (mg/L)		101	89	89	30	to	190	90	±	2.5	81
Total Suspended Solids (mg/L)		3	2.5 U	2.5 U	2.5 U	to	37	5.1	±	0.73	48
Sulfate (mg/L)		2.4	2.6	1.7	0.2	to	5 U	2	±	0.13	81
Bicarbonate Alkalinity (CaCO3) (mg/L)		74	70	72	58	to	80	69	±	0.47	48
Organic Carbon (mg/L)		2 U	2 U	6.6 M10	0.5 U	to	9	1.7	±	0.14	81
Chloride (mg/L)		2.4	2.8	2	0.8	to	10 U	2.6	±	0.31	81
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	1.2	0.17	±	0.052	21
Turbidity (field) (NTU)		5.1	2.8	2.4	0	to	40	2.3	±	0.63	73

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

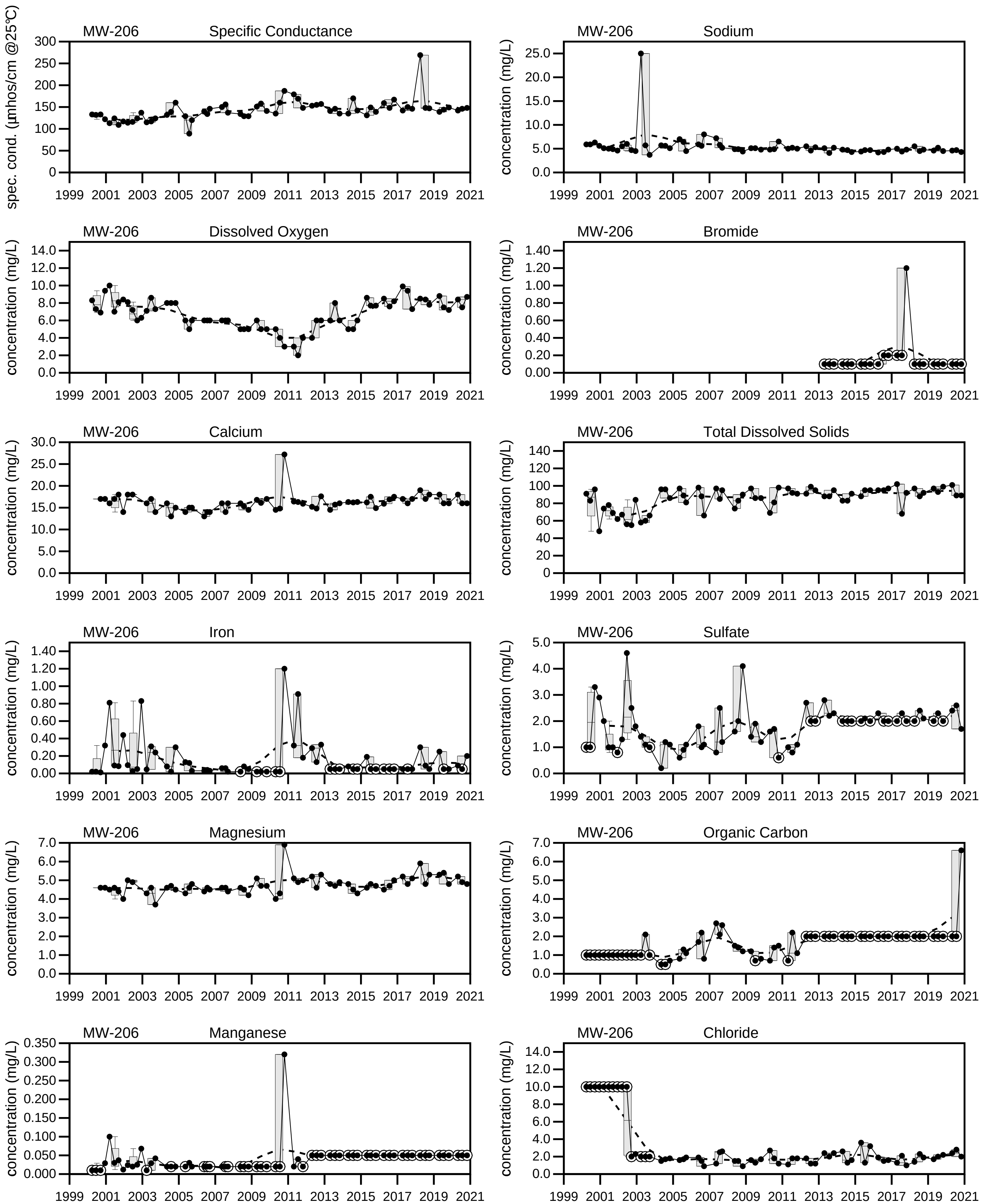
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533

Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

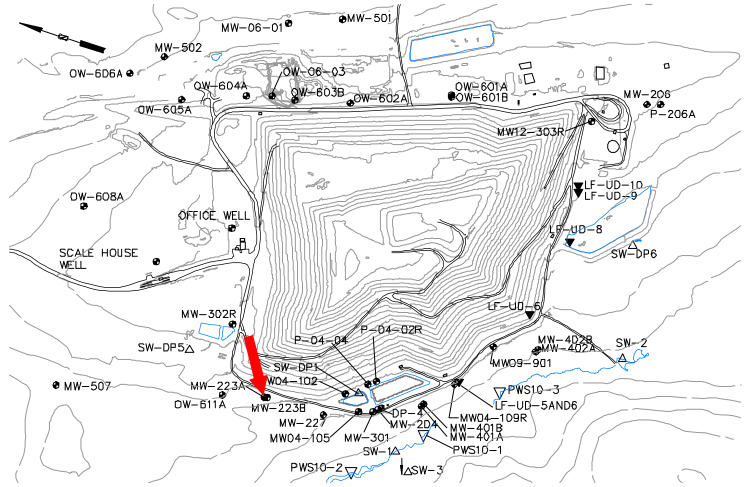
Juniper Ridge Landfill

MW-206

Sevee & Maher Engineers, Inc.

Well Description

MW-223A monitors the bedrock water quality downgradient of the landfill.



Screen Interval:	**28 ft. to 33 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**11/12/90**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (μmhos/cm @25°C)		531	575	583	79	651	270	16	90
pH (STU)		7.4	7.4	7.4	6.1	8.4	7.4	0.036	90
Temperature (Deg C)		6.2	13.5	9.5	4.5	16.2	9.4	0.28	90
Water Level Elevation (Feet)		174.99	173.12	173.74	169.83	176.4	170	0.13	87
Eh (mV)		336	212	295	-345	445	280	16	59
Dissolved Oxygen (mg/L)		0.8	0.8	0.8	0.1 U	9.4	3.2	0.27	73
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	0.034	0.0065	0.000	48
Calcium (mg/L)		↑100	94	↑100	23	98	47	2.8	78
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.005	120	1.5	1.5	82
Magnesium (mg/L)		11	11	11	2.3	11	5.2	0.3	78
Manganese (mg/L)		0.05	0.05 U	0.05 U	0.001	4	0.076	0.048	82
Potassium (mg/L)		1	1.2	0.9	0.4	1.3	0.76	0.025	48
Sodium (mg/L)		5.6	6.2	6.2	1.8	9.8	3.8	0.12	82
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.15 U	0.8	0.38	0.018	57
Nitrite/Nitrate - (N) (mg/L)		0.74	↓0.17	0.55	0.36	2 U	0.67	0.098	15
Total Dissolved Solids (mg/L)		↑360	↑376	337	36	356	180	10	82
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	4 U	3.7	0.085	48
Sulfate (mg/L)		22	20	19	2.9	59	7.5	0.77	82
Bicarbonate Alkalinity (CaCO3) (mg/L)		230	↑240	↑250	86	230	150	6.5	48
Organic Carbon (mg/L)		2 U	2 U	↑44 M10	0.5 U	3.4	1.4	0.071	82
Chloride (mg/L)		32	31	31	1 U	57.6	15	1.8	82
Bromide (mg/L)		0.15	↑0.23	0.13	0.1 U	0.22	0.14	0.01	21
Turbidity (field) (NTU)		1	1	1.5	0	999	18	14	71

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

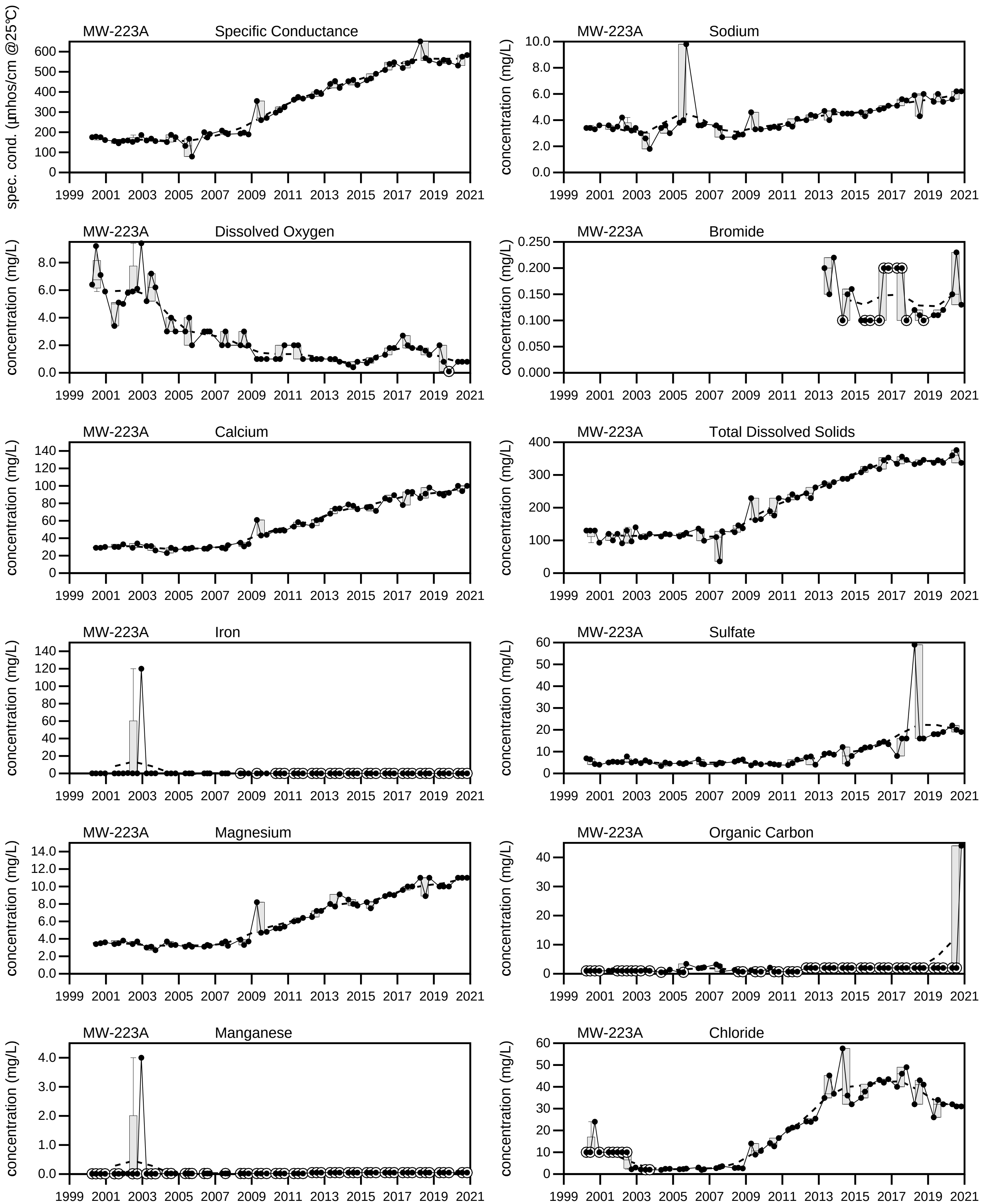
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

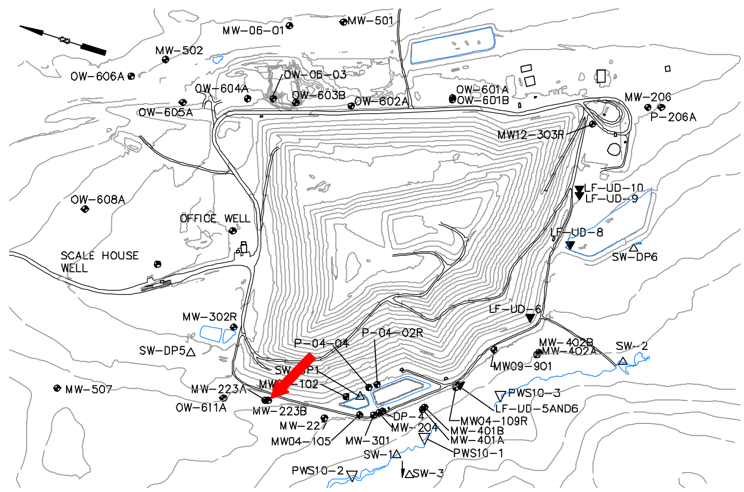
Juniper Ridge Landfill

MW-223A

Sevee & Maher Engineers, Inc.

Well Description

MW-223B monitors the overburden water quality downgradient of the landf



Screen Interval:	**12.6 ft. to 17.6 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**11/12/90**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		461	497	505	100	to	596	250	±	13	89
pH (STU)		7	7.1	7.2	6.3	to	8.2	7.2	±	0.033	89
Temperature (Deg C)		5.6	12.3	10.7	3.8	to	17.7	9.7	±	0.33	89
Water Level Elevation (Feet)		173.13	171.43	172.13	169.03	to	175.24	170	±	0.12	86
Eh (mV)		355	220	328	-402	to	446	270	±	19	58
Dissolved Oxygen (mg/L)		0.5	0.6	0.3	0.1 U	to	7.6	1.7	±	0.17	72
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	to	0.017	0.0058	±	0.000	48
Calcium (mg/L)		65	64	67	16	to	68	34	±	1.7	78
Iron (mg/L)		0.05	0.06	0.15	0.009	to	0.58	0.11	±	0.014	82
Magnesium (mg/L)		15	17	17	3.7	to	17	8.3	±	0.43	78
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.001 U	to	0.16	0.035	±	0.003	82
Potassium (mg/L)		0.8	0.9	0.9	0.3	to	2	0.79	±	0.039	48
Sodium (mg/L)		5	6.1	6.1	2.1	to	6.4	4.3	±	0.089	82
Total Kjeldahl Nitrogen (mg/L)		0.35	0.25	0.25 U	0.15 U	to	2.5 U	0.48	±	0.05	57
Nitrite/Nitrate - (N) (mg/L)		0.75	0.21	0.65	0.15	to	2 U	0.59	±	0.11	15
Total Dissolved Solids (mg/L)		288	326	283	67	to	330	160	±	7.4	82
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	12	3.9	±	0.19	48
Sulfate (mg/L)		16	14	14	2.2	to	53	5.9	±	0.65	82
Bicarbonate Alkalinity (CaCO3) (mg/L)		180	180	↑190	92	to	180	130	±	3.5	48
Organic Carbon (mg/L)		2 U	2 U	↑47 M10	0.5 U	to	8	1.7	±	0.12	82
Chloride (mg/L)		38	38	38	1 U	to	55.7	14	±	1.7	82
Bromide (mg/L)		0.15	0.22	0.15	0.03	to	4.13	0.31	±	0.17	23
Turbidity (field) (NTU)		1	1.4	1.9	0	to	83	2.3	±	1.2	70
Methane (ug/L)		20 U	20 U	20 U	9.2	to	40.6	21	±	1.8	14

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

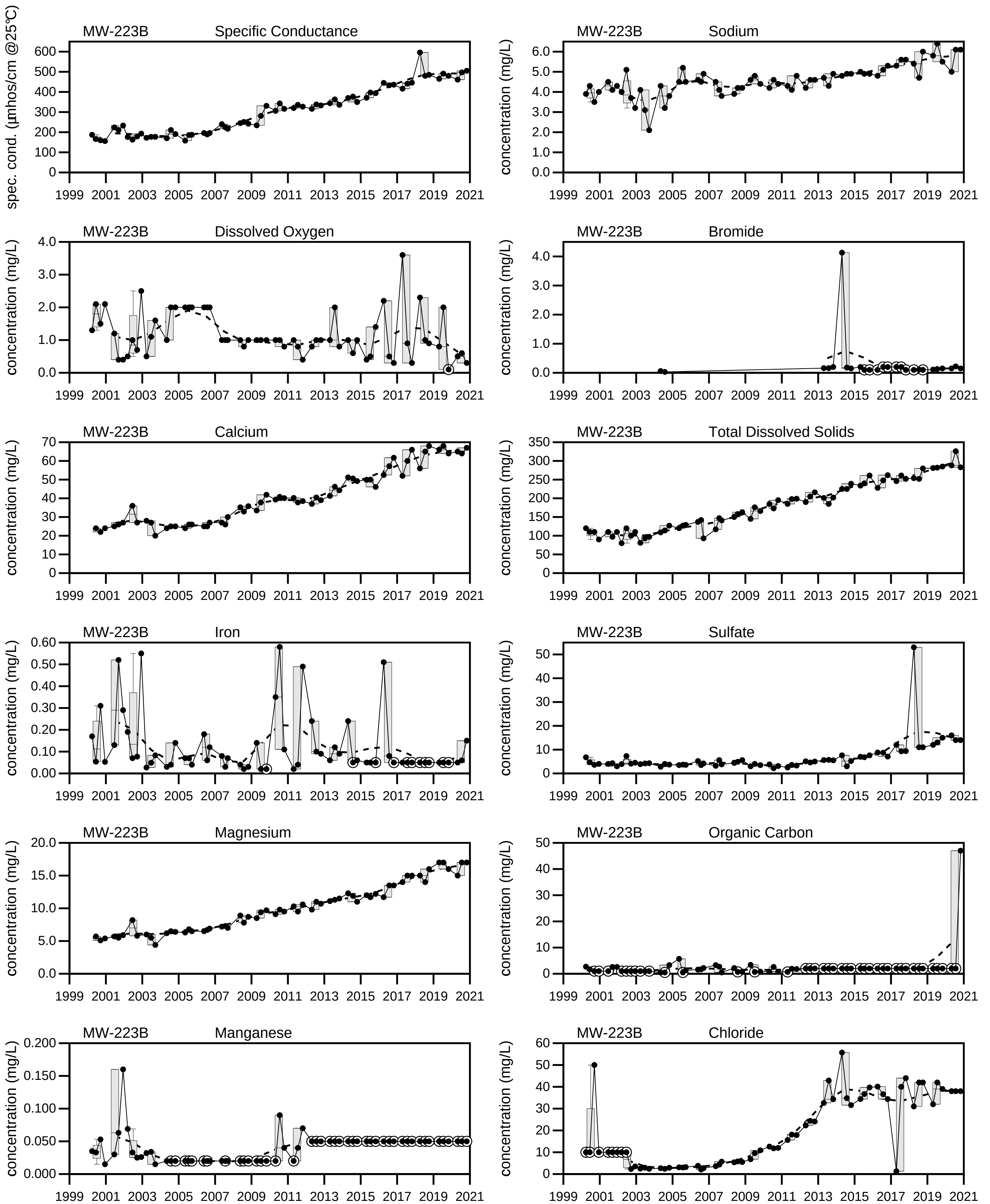
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME
SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

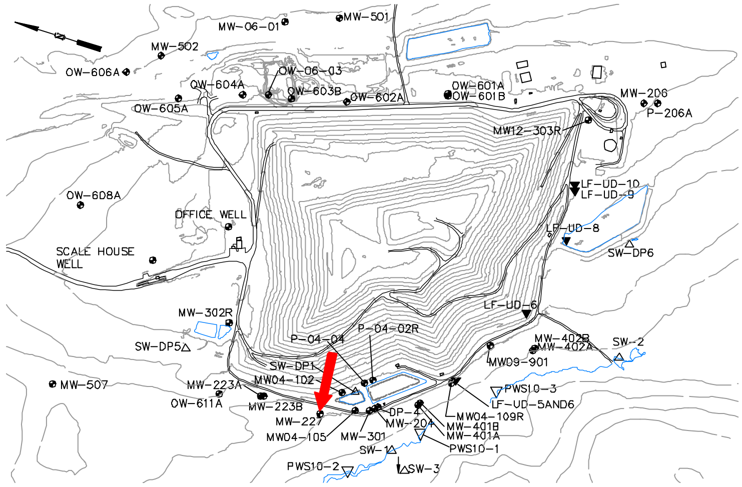
Juniper Ridge Landfill

MW-223B

Sevee & Maher Engineers, Inc.

Well Description

MW-227 monitors water quality in the overburden downgradient of the landfill.



Screen Interval:	**15 ft. to 20 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**11/13/90**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		173	182	184	90	to	310	180	±	2.9	91
pH (STU)		7.8	8	7.9	6.2	to	8.9	8	±	0.046	91
Temperature (Deg C)		5.8	12.9	10.9	1	to	16.8	9.8	±	0.36	91
Water Level Elevation (Feet)		159.92	159.18	159.78	149.5	to	161.09	160	±	0.22	88
Eh (mV)		352	219	314	-455	to	411	260	±	17	59
Dissolved Oxygen (mg/L)		2.7	2.7	5.3	0.1 U	to	8.7	2.3	±	0.19	74
Arsenic (mg/L)		**<u>0.016</u>**	**<u>0.013</u>**	**<u>0.012</u>**	0.007	to	0.024	0.014	±	0.000	48
Calcium (mg/L)		23	21	22	16	to	26	22	±	0.2	79
Iron (mg/L)		0.05	0.05 U	0.05 U	0.008	to	0.65	0.073	±	0.01	85
Magnesium (mg/L)		5.4	5.8	5.7	3.6	to	6	5.2	±	0.049	79
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.004	to	0.17	0.033	±	0.003	85
Potassium (mg/L)		1	1.5	1	0.6	to	1.6	1	±	0.022	48
Sodium (mg/L)		4.8	5.9	5.6	3.1	to	11	6.4	±	0.14	85
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.15 U	to	1	0.37	±	0.019	58
Nitrite/Nitrate - (N) (mg/L)		0.11	0.05 U	0.056	0.05 U	to	2 U	0.25	±	0.13	15
Total Dissolved Solids (mg/L)		115	117	104	59	to	222	110	±	2.6	85
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	10	4	±	0.14	48
Sulfate (mg/L)		15	13	11	1.3	to	17.3	11	±	0.29	85
Bicarbonate Alkalinity (CaCO3) (mg/L)		81	80	84	75	to	89	80	±	0.39	48
Organic Carbon (mg/L)		2 U	2 U	14 M10	0.5 U	to	42	2.3	±	0.51	85
Chloride (mg/L)		1.4	1.5	1.1	1 U	to	22.9	2.9	±	0.38	85
Bromide (mg/L)		0.1 U	0.1	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		1.5	2.2	2	0	to	962	15	±	13	72

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

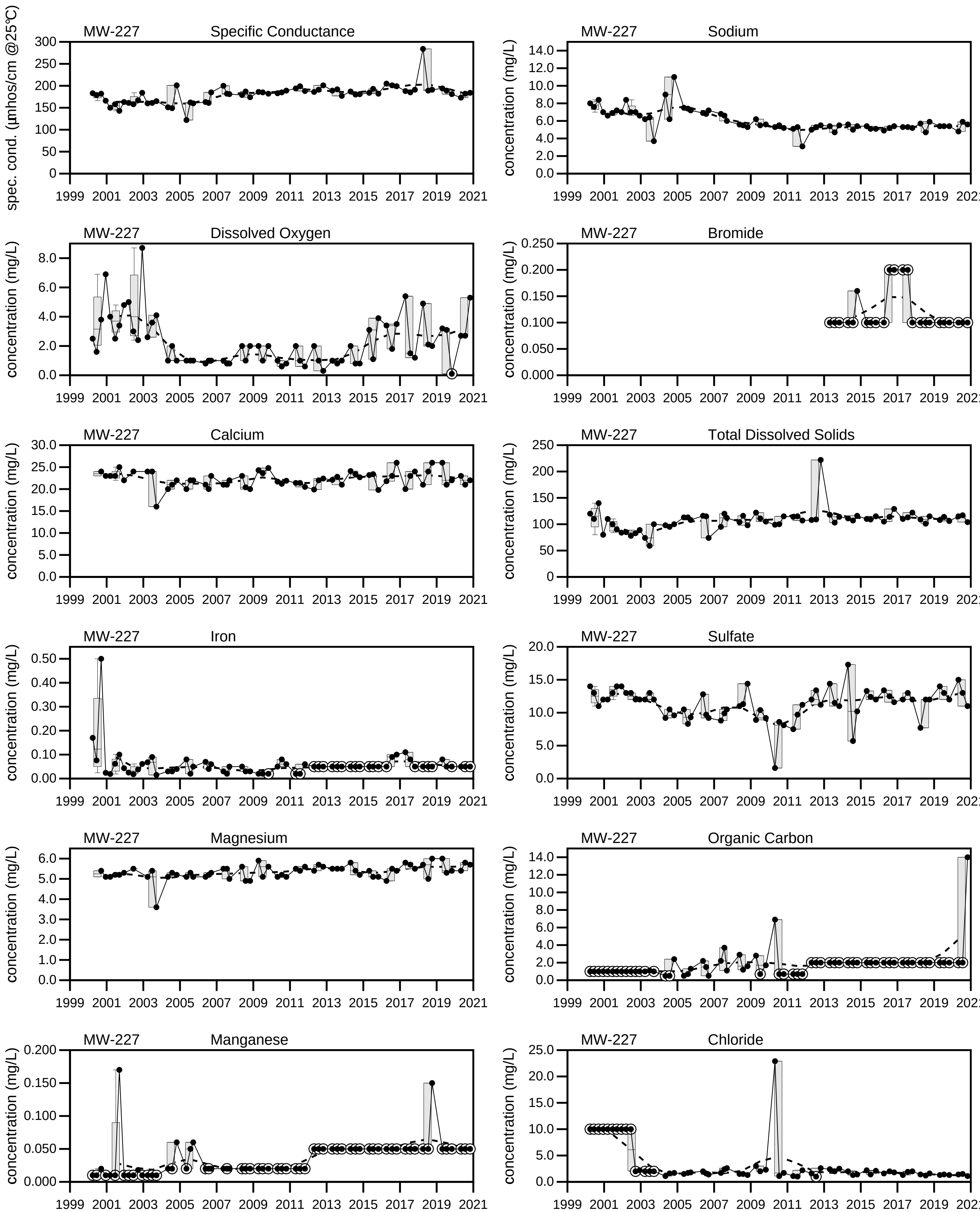
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

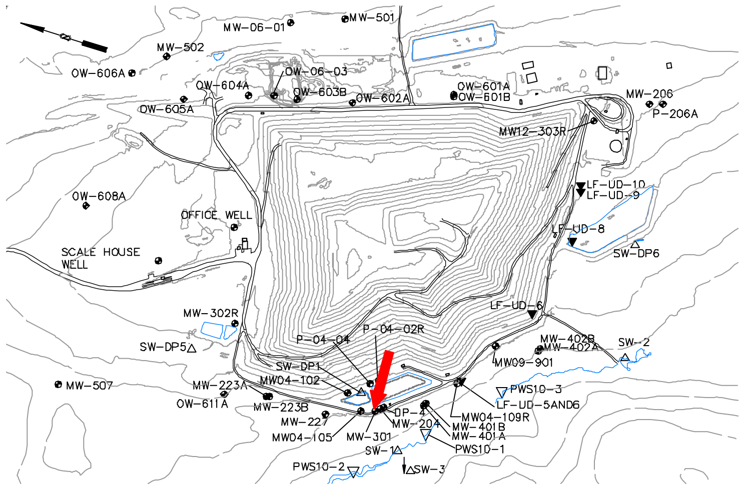
Juniper Ridge Landfill

MW-227

Sevee & Maher Engineers, Inc.

Well Description

MW-301 monitors the water quality within the bedrock downgradient of the landfill.



Screen Interval:	**162.7 ft. to 182.7 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**11/25/96**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		228	248	248	82	to	340	190	±	5.2	71
pH (STU)		7.8	7.9	7.3	6.2	to	8.4	7.8	±	0.057	71
Temperature (Deg C)		7.1	14.2	9.8	3.2	to	19.1	11	±	0.43	71
Water Level Elevation (Feet)		165.6	165.89	164.11	161.16	to	166.36	160	±	0.24	65
Eh (mV)		301	143	334	25	to	471	270	±	14	58
Dissolved Oxygen (mg/L)		0.2	0.2	0.2	0.1	to	5.5	2.1	±	0.21	69
Arsenic (mg/L)		0.006	0.005 U	0.005 U	0.001	to	0.018	0.0058	±	0.000	47
Calcium (mg/L)		26	24	22	14.9	to	31.4	19	±	0.36	67
Iron (mg/L)		0.06	0.18	0.06	0.011	to	1.59	0.16	±	0.027	71
Magnesium (mg/L)		6.6	6.2	5.8	2.5	to	6.6	4.6	±	0.089	67
Manganese (mg/L)		0.05 U	0.16	0.06	0.001	to	0.18	0.033	±	0.003	71
Potassium (mg/L)		0.8	0.8	↓0.4	0.5	to	1.2	0.76	±	0.018	47
Sodium (mg/L)		14	13	12	6.8	to	14.2	11	±	0.24	71
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.15 U	to	0.6	0.39	±	0.017	47
Nitrite/Nitrate - (N) (mg/L)		0.083	0.05 U	0.05 U	0.05 U	to	2 U	0.25	±	0.13	15
Total Dissolved Solids (mg/L)		148	153	147	66	to	161	120	±	2.6	71
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	21	6.1	±	0.71	47
Sulfate (mg/L)		19	18	17	4.9	to	19	12	±	0.41	71
Bicarbonate Alkalinity (CaCO3) (mg/L)		77	76	76	70	to	91	76	±	0.52	47
Organic Carbon (mg/L)		2 U	2 U	↑6.8 M10	0.5 U	to	5.7	1.5	±	0.096	71
Chloride (mg/L)		20	25	20	1 U	to	26	5.4	±	0.7	71
Bromide (mg/L)		0.1 U	0.11	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	20
Turbidity (field) (NTU)		2.4	3.3	2.7	0	to	18	2.1	±	0.4	68

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

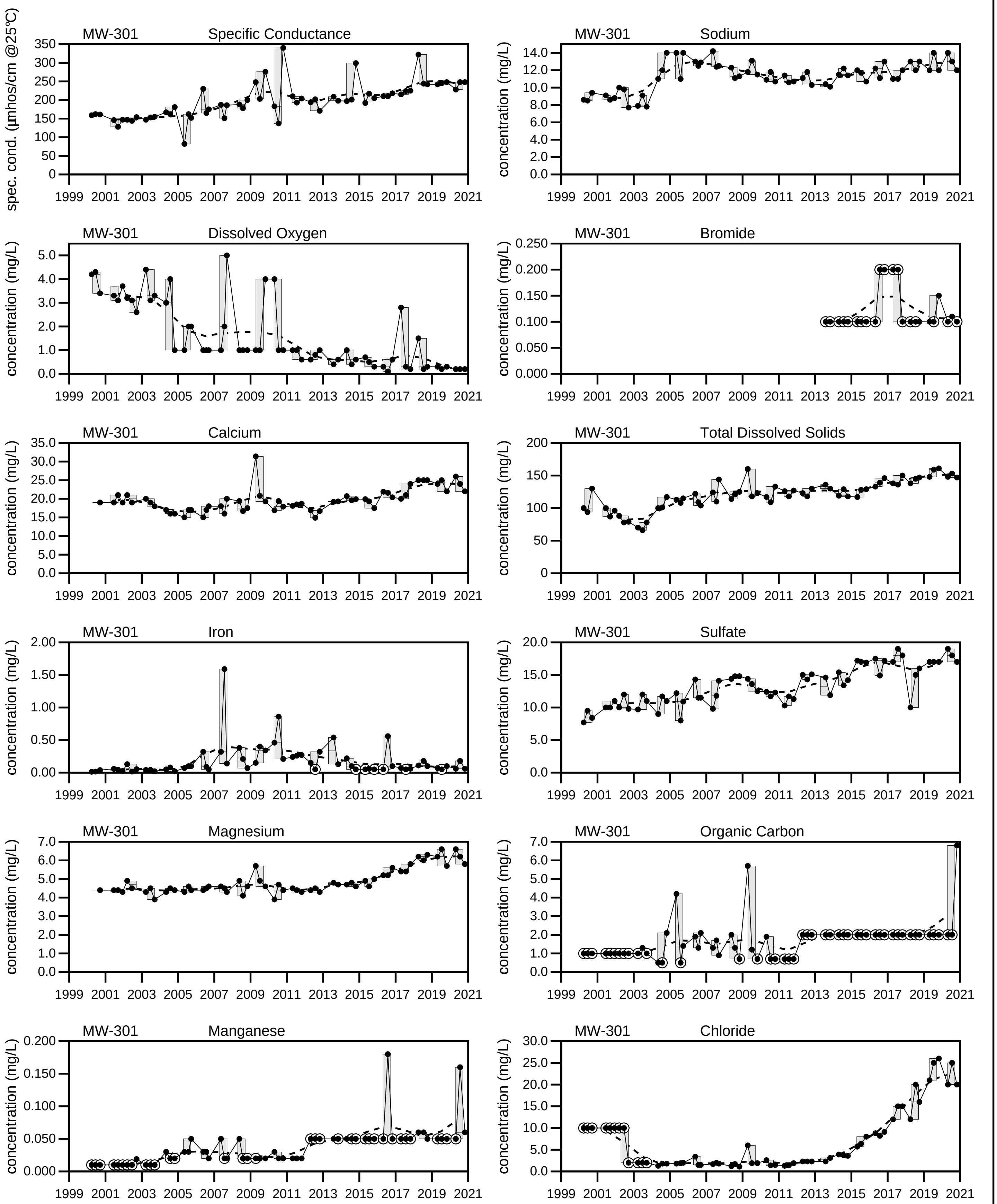
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

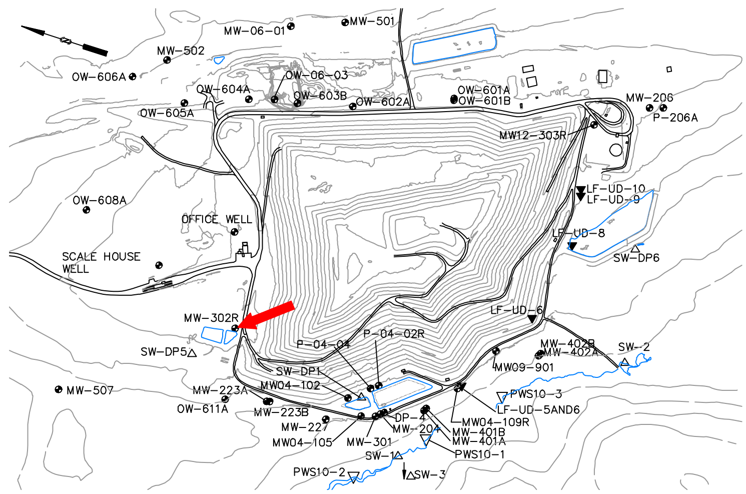
Juniper Ridge Landfill

MW-301

Sevee & Maher Engineers, Inc.

Well Description

MW-302R monitors the water quality in the shallow bedrock beside the landfill, but not directly downgradient of the landfill.



Screen Interval: **19.5 ft. to 29.5 ft.**

Sampled: **3 Times Annually**

Sampled Since: **05/20/2008**

Material Screened: **Bedrock**

Well Condition: **Good**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean ± SE	n
Specific Conductance (µmhos/cm @25°C)		269	399	562	167	to	851	380 ± 27	36
pH (STU)		↓5.7	↑7.1	6.6	6	to	6.9	6.6 ± 0.037	36
Temperature (Deg C)		6	12.8	9.7	6	to	13.6	10 ± 0.38	36
Water Level Elevation (Feet)		199.89	190.91	193.06	187.26	to	202.74	200 ± 0.77	36
Eh (mV)		367	289	361	223	to	546	350 ± 12	36
Dissolved Oxygen (mg/L)		7.8	5.3	2.2	1	to	9	3.7 ± 0.36	36
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.002 U	to	0.015	0.0065 ± 0.000	36
Calcium (mg/L)		31	32	54	17.6	to	140	42 ± 3.9	36
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.19	0.048 ± 0.005	36
Magnesium (mg/L)		2.5	3	4.6	1.4	to	8.6	3.3 ± 0.27	36
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.1	0.043 ± 0.003	36
Potassium (mg/L)		0.7	0.9	1	0.5	to	2.4	1 ± 0.065	36
Sodium (mg/L)		18	<u>**22**</u>	<u>**27**</u>	6	to	35	18 ± 1.2	36
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.29	0.25 U	to	1.2	0.43 ± 0.031	36
Nitrite/Nitrate - (N) (mg/L)		0.22	0.1	0.49	0.05 U	to	2 U	0.44 ± 0.12	15
Total Dissolved Solids (mg/L)		196	205	254	78	to	506	230 ± 14	36
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	5 U	3.7 ± 0.11	36
Sulfate (mg/L)		27	25	29	5.6	to	38	17 ± 1.4	36
Bicarbonate Alkalinity (CaCO3) (mg/L)		↓43	62	120	44	to	330	80 ± 9.5	36
Organic Carbon (mg/L)		2 U	2 U	↑24 M10	0.7 U	to	3.1	1.8 ± 0.088	36
Chloride (mg/L)		44	47	44	12.8	to	91.3	47 ± 3.5	36
Bromide (mg/L)		0.1 U	0.2 U	0.1 U	0.1 U	to	0.2 U	0.14 ± 0.01	21
Turbidity (field) (NTU)		0.8	1.9	1.7	0	to	5.5	1.5 ± 0.19	36

<u>**underlined/bold**</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

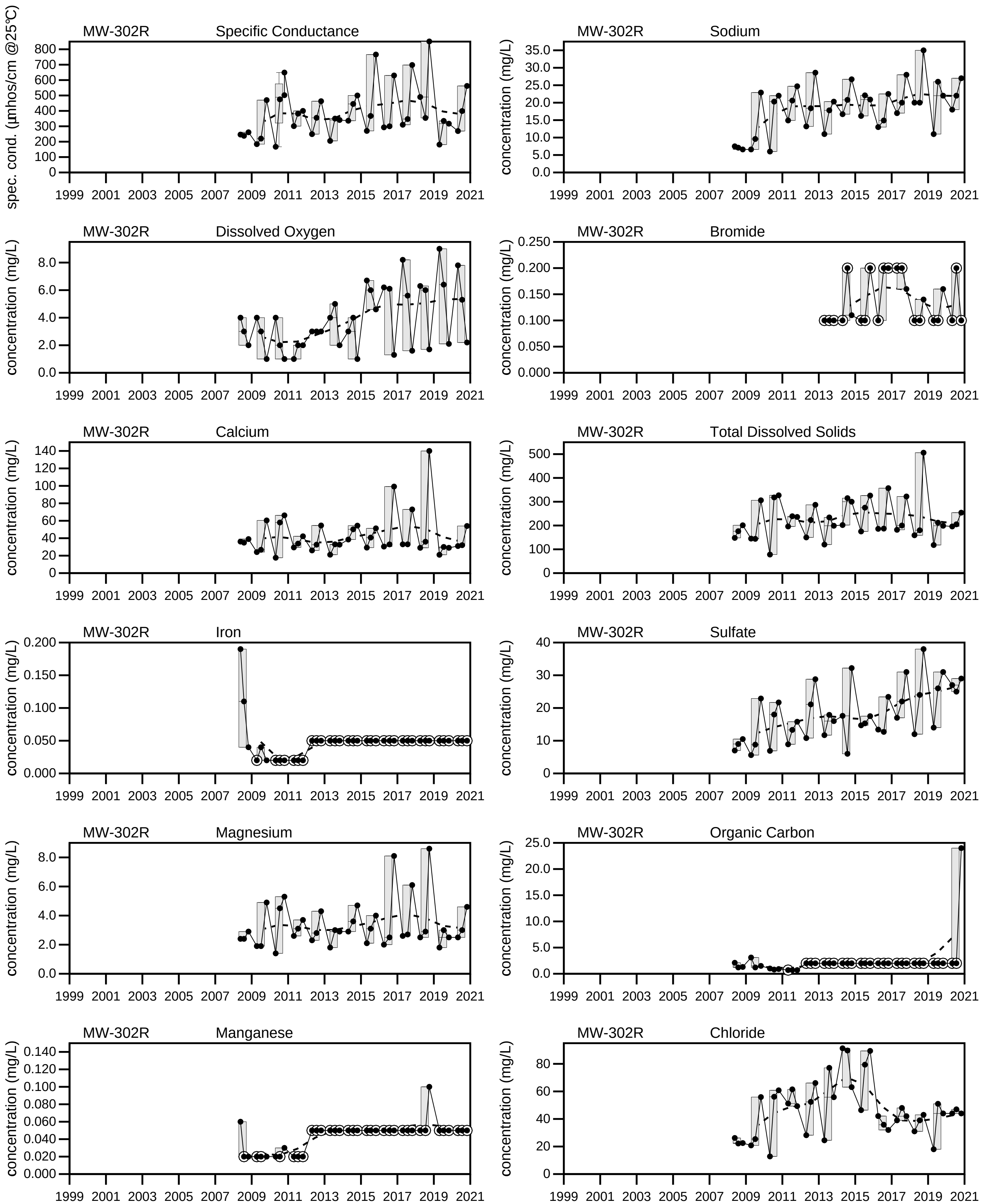
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

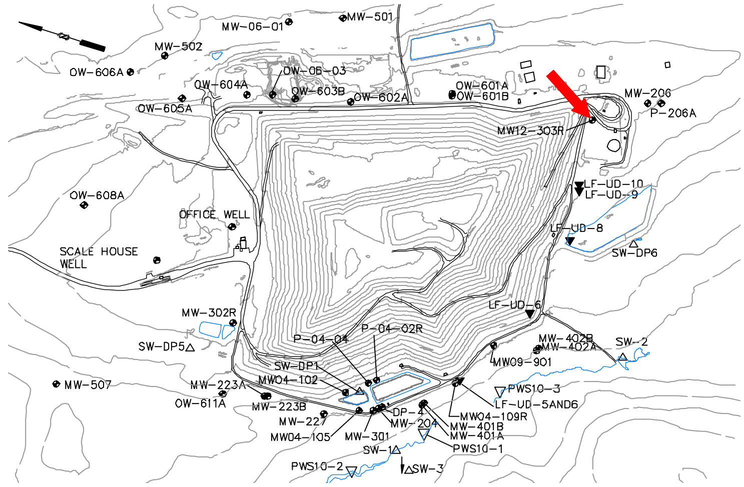
Juniper Ridge Landfill

MW-302R

Sevee & Maher Engineers, Inc.

Well Description

MW12-303R was installed in September 2012 to replace MW-303. MW12-303R monitors the background water quality at the site upgradient of the landfill.



Screen Interval:	**30.4 ft. to 40.4 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**10/23/12**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		409	280	577	189	to	1711	480	±	65	23
pH (STU)		6.1	6.9	6.2	5.9	to	7	6.4	±	0.058	23
Temperature (Deg C)		8.7	14.3	8.9	6.7	to	14.4	11	±	0.4	23
Water Level Elevation (Feet)		180.29	177.79	↓175.49	176.39	to	184.54	180	±	0.47	23
Eh (mV)		361	227	390	158	to	447	350	±	14	23
Dissolved Oxygen (mg/L)		1.9	1.1	1.3	0.2	to	7.7	2.5	±	0.48	23
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.005 U	to	0.036	0.0095	±	0.001	23
Calcium (mg/L)		52	30	57	16.6	to	160	46	±	6	23
Iron (mg/L)		0.13	0.05 U	0.05 U	0.05 U	to	2.29	0.2	±	0.099	23
Magnesium (mg/L)		7.4	6.1	9.5	2.5	to	22	9.2	±	0.81	23
Manganese (mg/L)		0.2	0.06	0.07	0.05 U	to	3.13	0.33	±	0.14	23
Potassium (mg/L)		3.2	2.5	3.1	1.4	to	5.7	2.7	±	0.28	23
Sodium (mg/L)		18	11	**<u>24</u>**	8.8	to	110	32	±	5.3	23
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.8	0.25 U	to	2	0.62	±	0.074	23
Nitrite/Nitrate - (N) (mg/L)		0.58	0.17	↑12	0.05 U	to	5.9	1.2	±	0.37	16
Total Dissolved Solids (mg/L)		297	176	372	143	to	1016	290	±	38	23
Total Suspended Solids (mg/L)		4.7	2.5 U	2.5 U	2.5 U	to	130	13	±	5.7	23
Sulfate (mg/L)		22	5.1	29	2 U	to	430	32	±	18	23
Bicarbonate Alkalinity (CaCO3) (mg/L)		77	90	72	42	to	162	120	±	5	23
Organic Carbon (mg/L)		4.4	2 U	↑34 M10	2 U	to	16	4.5	±	0.79	23
Chloride (mg/L)		42	29	77	4.9	to	220	45	±	9.1	23
Bromide (mg/L)		0.1 U	0.2 U	0.1 U	0.1 U	to	2.4	0.34	±	0.11	21
Turbidity (field) (NTU)		3.6	2.4	2.5	0.5	to	37.5	5	±	1.7	23

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

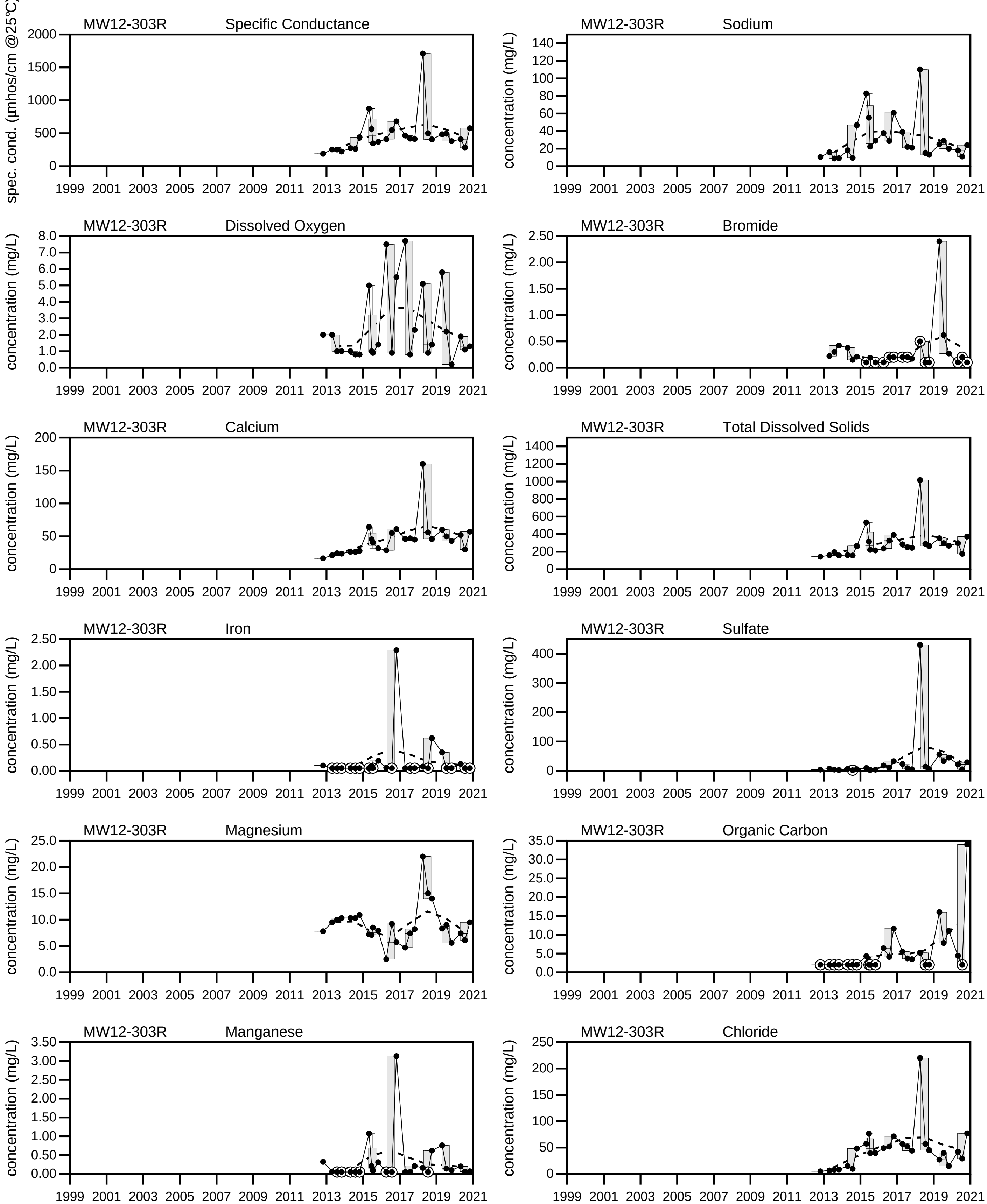
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 534

Printed: 3/22/2021 08:15

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

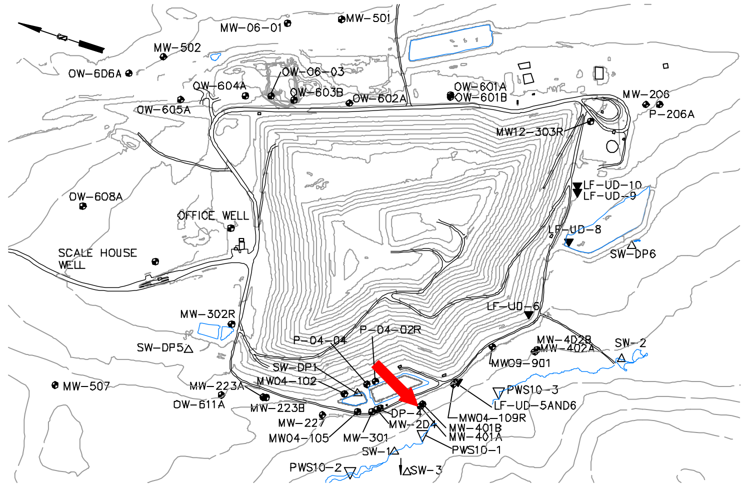
Juniper Ridge Landfill

MW12-303R

Sevee & Maher Engineers, Inc.

Well Description

MW-401A monitors bedrock water quality downgradient of the landfill and former leachate pond.



Screen Interval:	**98.8 ft. to 108.8 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**07/29/04**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		147	121	122	73	to	303	130	±	4.5	47
pH (STU)		8.5	7.5	7.6	6.6	to	8.6	7.9	±	0.067	47
Temperature (Deg C)		6.8	11.1	8.9	6.6	to	17.8	9.7	±	0.3	47
Water Level Elevation (Feet)		153.91	149.85	150.56	148.11	to	155.96	150	±	0.34	47
Eh (mV)		278	252	435	152	to	516	330	±	13	47
Dissolved Oxygen (mg/L)		5.7	5.3	5.7	1.2	to	11.1	5.3	±	0.22	47
Arsenic (mg/L)		0.007	0.005 U	0.007	0.001 U	to	0.018	0.0059	±	0.000	47
Calcium (mg/L)		↑18	16	17	11	to	17	15	±	0.2	47
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.07	0.04	±	0.002	47
Magnesium (mg/L)		4.8	4.6	4.7	3.7	to	4.8	4.2	±	0.042	47
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.05 U	0.036	±	0.002	47
Potassium (mg/L)		0.7	0.8	0.6	0.3	to	1.4	0.72	±	0.026	47
Sodium (mg/L)		4	4.1	3.7	3.2	to	5.2	4	±	0.066	47
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.25 U	to	1.1	0.42	±	0.025	47
Nitrite/Nitrate - (N) (mg/L)		0.16	0.05 U	0.084	0.05 U	to	1 U	0.21	±	0.067	15
Total Dissolved Solids (mg/L)		106	97	92	68	to	116	89	±	1.3	47
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	7	3.8	±	0.11	47
Sulfate (mg/L)		5	4.9	4	2 U	to	5	3.5	±	0.13	47
Bicarbonate Alkalinity (CaCO3) (mg/L)		63	61	62	51	to	64	58	±	0.45	47
Organic Carbon (mg/L)		2 U	2 U	5 M10	0.5 U	to	6.3	1.9	±	0.17	47
Chloride (mg/L)		4.8	↑5.3	4.6	1	to	4.9	2.2	±	0.12	47
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		0.5	0.2	0.3	0	to	4.9	0.6	±	0.13	47

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

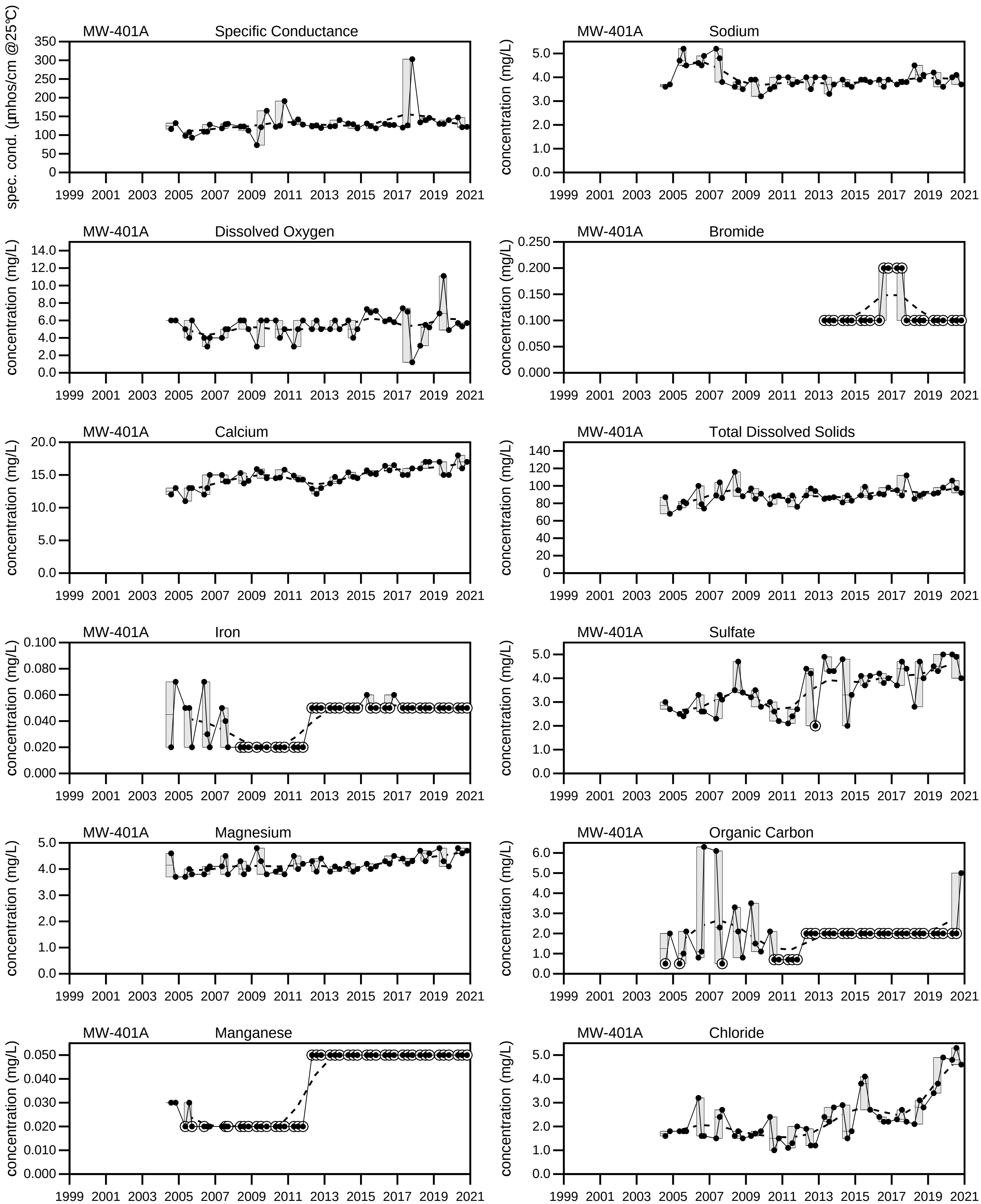
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

MW-401A

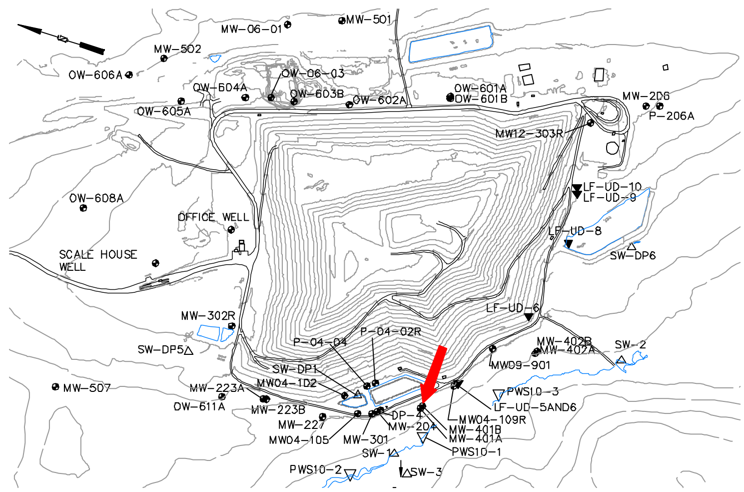
Sevee & Maher Engineers, Inc.

Juniper Ridge Landfill

annual stats 2020 G2

Well Description

MW-401B is located downgradient of the landfill and former leachate pond and monitors groundwater quality in the overburden.



Screen Interval:	**10 ft. to 20 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**07/29/04**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean ± SE	n
Specific Conductance (µmhos/cm @25°C)		246	278	296	180	to	699	360 ± 17	47
pH (STU)		7.7	6.9	6.9	5.9	to	7.7	6.8 ± 0.056	47
Temperature (Deg C)		5.9	13.1	9.6	5.9	to	16.1	9.4 ± 0.3	47
Water Level Elevation (Feet)		150.64	149.88	150.22	148.47	to	151.12	150 ± 0.084	47
Eh (mV)		196	159	172	-33	to	417	180 ± 15	47
Dissolved Oxygen (mg/L)		0.2	0.4	0.6	0.1	to	5	0.88 ± 0.13	47
Arsenic (mg/L)		**<u>0.023</u>**	**<u>0.028</u>**	**<u>0.016</u>**	0.002	to	0.058	0.016 ± 0.002	47
Calcium (mg/L)		30	39	42	25.3	to	100	41 ± 2.2	47
Iron (mg/L)		0.67	2.5	2.1	0.19	to	19	2.7 ± 0.48	47
Magnesium (mg/L)		8.5	11	12	8	to	36	12 ± 0.74	47
Manganese (mg/L)		0.09	0.21	0.22	0.05	to	2.9	0.35 ± 0.083	47
Potassium (mg/L)		0.9	1.5	1.2	0.9	to	3.2	1.4 ± 0.073	47
Sodium (mg/L)		9.7	11	12	9.7	to	33	16 ± 0.86	47
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.24	to	3.2	0.49 ± 0.064	47
Nitrite/Nitrate - (N) (mg/L)		0.091	0.05 U	0.051	0.05 U	to	1 U	0.19 ± 0.071	15
Total Dissolved Solids (mg/L)		166	196	211	142	to	488	230 ± 10	47
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	36	5.1 ± 0.75	47
Sulfate (mg/L)		13	13	11	5.3	to	69.2	18 ± 1.9	47
Bicarbonate Alkalinity (CaCO3) (mg/L)		120	160	160	108	to	245	150 ± 4.8	47
Organic Carbon (mg/L)		2 U	2 U	↑23 M10	0.7 U	to	8.9	2.5 ± 0.2	47
Chloride (mg/L)		9.4	8.4	7.2	6.3	to	40.5	15 ± 1.2	47
Bromide (mg/L)		0.15	0.21	0.19	0.1 U	to	0.23	0.17 ± 0.01	21
Turbidity (field) (NTU)		1.2	0.3	0.3	0	to	6.7	1.2 ± 0.2	47

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

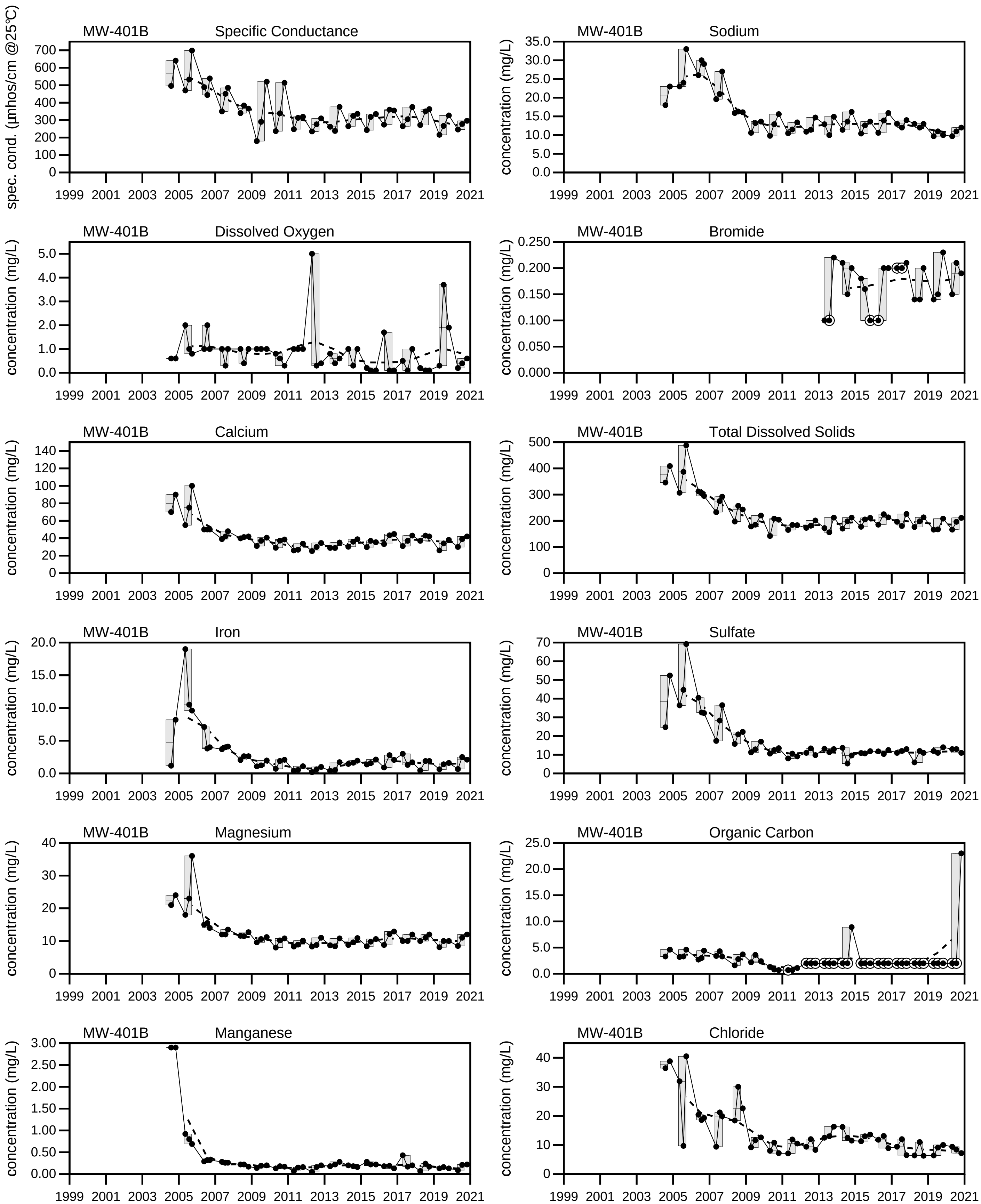
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533

Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

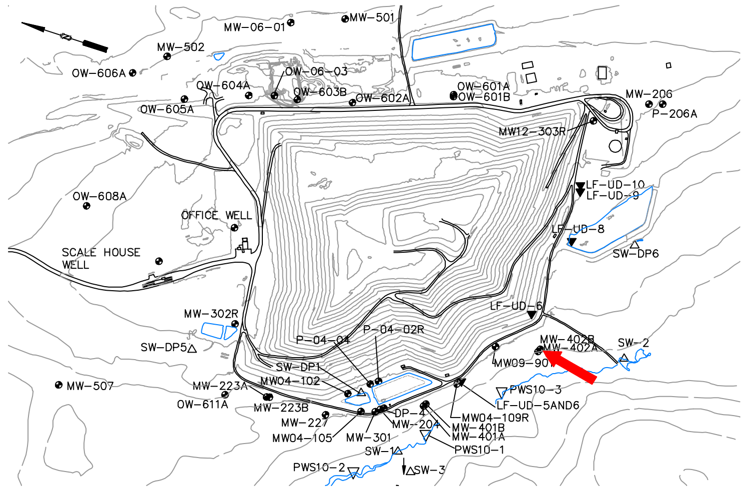
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

MW-401B

Sevee & Maher Engineers, Inc.

Well Description



MW-402A monitors water quality within the bedrock downgradient of the landfill.

Screen Interval: **95.5 ft. to 105.5 ft.**

Sampled: **3 Times Annually**

Sampled Since: **07/29/04**

Material Screened: **Bedrock**

Well Condition: **Good**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min to Max	Mean ± SE	n
Specific Conductance (μmhos/cm @25°C)		134	111	112	58 to 197	130 ± 2.8	47
pH (STU)		8.3	8.5	8.5	7.3 to 9.5	8.3 ± 0.073	47
Temperature (Deg C)		7.5	10.6	6.7	5.2 to 14.7	10 ± 0.38	47
Water Level Elevation (Feet)			152.16		151.74 to 152.2	150 ± 0.031	20
Eh (mV)		264	319	333	106 to 460	310 ± 13	47
Dissolved Oxygen (mg/L)		3.2	3.4	3.2	2 to 6.1	4.1 ± 0.16	47
Arsenic (mg/L)		**<u>0.02</u>**	**<u>0.018</u>**	**<u>0.015</u>**	0.012 to 0.028	0.019 ± 0.000	47
Calcium (mg/L)		12	12	12	7.7 to 14	11 ± 0.18	47
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U to 0.26	0.042 ± 0.005	47
Magnesium (mg/L)		3.2	3.3	3.4	2.6 to 3.4	3 ± 0.028	47
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U to 0.05 U	0.036 ± 0.002	47
Potassium (mg/L)		0.8	1	0.6	0.3 to 1.3	0.64 ± 0.02	47
Sodium (mg/L)		8.5	9.5	10	7.4 to 11	8.7 ± 0.12	47
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.15 U to 1	0.4 ± 0.023	47
Nitrite/Nitrate - (N) (mg/L)		0.085	0.051	0.057	0.05 U to 2 U	0.25 ± 0.13	15
Total Dissolved Solids (mg/L)		76	80	75	58 to 100	83 ± 1.3	47
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U to 4 U	3.7 ± 0.087	47
Sulfate (mg/L)		9.6	9.3	8.3	3 to 11	6.5 ± 0.3	47
Bicarbonate Alkalinity (CaCO3) (mg/L)		56	57	55	46 to 59	53 ± 0.39	47
Organic Carbon (mg/L)		2 U	2 U	4.8 M10	0.5 U to 8.1	1.8 ± 0.17	47
Chloride (mg/L)		1.7	1.8	1.4	0.8 to 3.1	1.8 ± 0.064	47
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U to 0.2 U	0.12 ± 0.009	21
Turbidity (field) (NTU)		0.8	0.5	0.3	0 to 3.7	0.46 ± 0.1	47

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

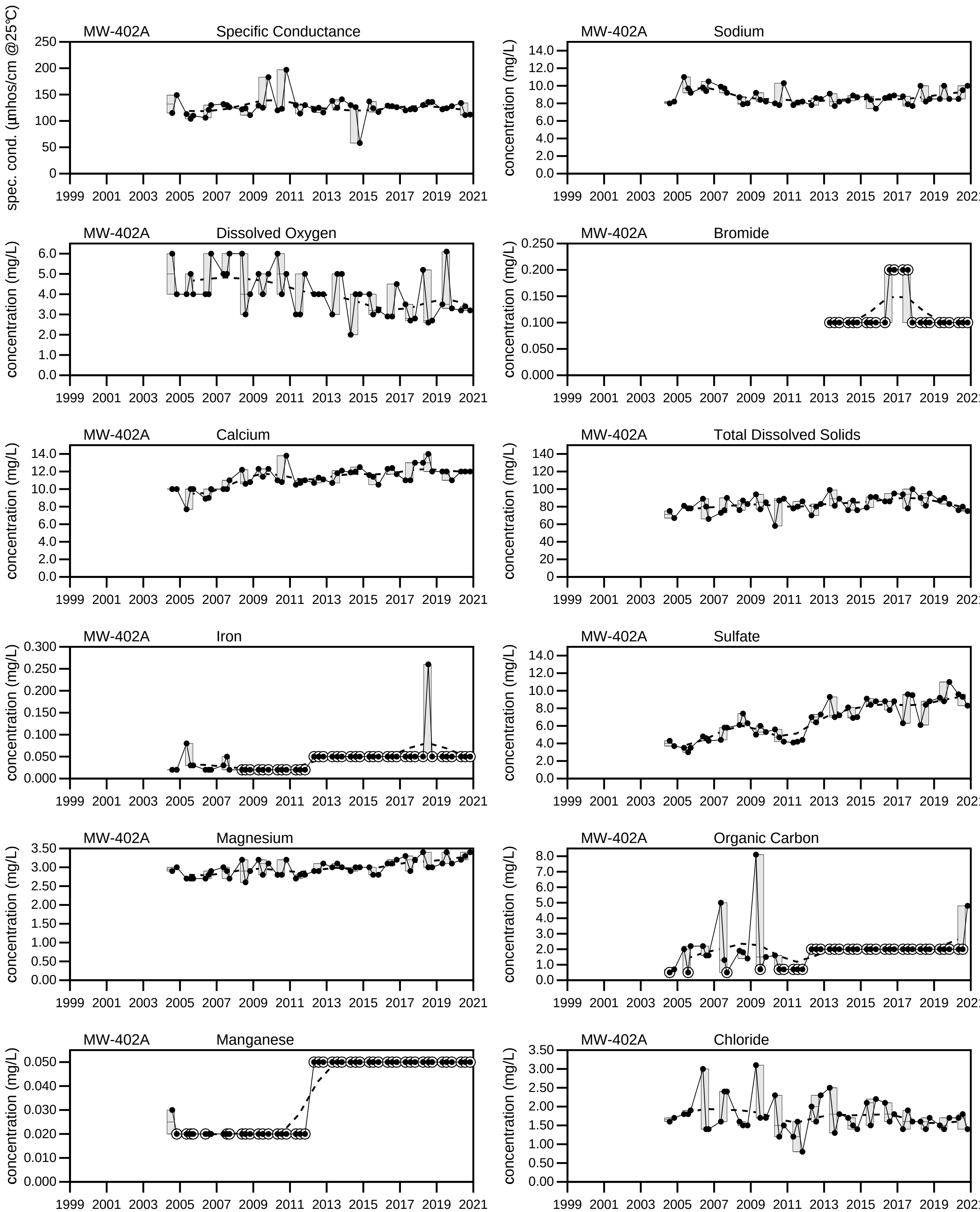
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

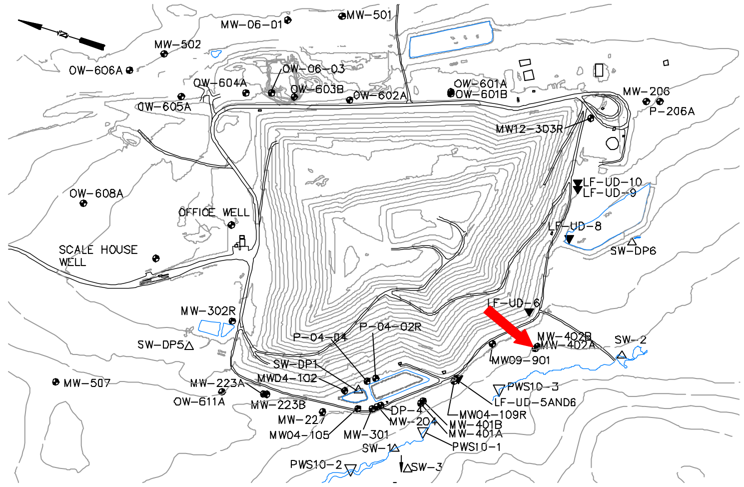
Juniper Ridge Landfill

MW-402A

Sevee & Maher Engineers, Inc.

Well Description

MW-402B monitors water quality within the overburden downgradient of th landfill.



Screen Interval:	**12 ft. to 22 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**07/29/04**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		157	130	131	96	to	246	150 ±	3	47
pH (STU)		8.3	8	8.6	7	to	9.2	8.4 ±	0.068	47
Temperature (Deg C)		6.4	8.9	8.7	5.2	to	13.8	9.3 ±	0.3	47
Water Level Elevation (Feet)		150.03	148.06	148.82	146.92	to	150.56	150 ±	0.13	47
Eh (mV)		232	360	331	11	to	467	250 ±	15	47
Dissolved Oxygen (mg/L)		0.3	0.4	0.4	0.1	to	6.8	0.83 ±	0.16	47
Arsenic (mg/L)		**<u>0.017</u>**	**<u>0.018</u>**	**<u>0.016</u>**	0.01	to	0.031	0.018 ±	0.000	47
Calcium (mg/L)		15	14	15	13	to	17.2	15 ±	0.15	47
Iron (mg/L)		0.05 U	0.06	0.05 U	0.02 U	to	0.18	0.041 ±	0.004	47
Magnesium (mg/L)		4.9	5.1	5.3	4.5	to	5.5	4.9 ±	0.036	47
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to	0.05	0.036 ±	0.002	47
Potassium (mg/L)		0.7	0.7	0.6	0.4	to	2.2	0.7 ±	0.039	47
Sodium (mg/L)		8.2	9.2	9.4	7.6	to	12	8.6 ±	0.13	47
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.39	0.25 U	0.21	to	0.61	0.38 ±	0.016	47
Nitrite/Nitrate - (N) (mg/L)		0.059	0.071	0.05 U	0.05 U	to	2 U	0.24 ±	0.13	15
Total Dissolved Solids (mg/L)		79	81	85	64	to	124	95 ±	1.4	47
Total Suspended Solids (mg/L)		2.5 U	3.3	2.5 U	2.5 U	to	9.3	4.1 ±	0.19	47
Sulfate (mg/L)		11	10	9.3	2.3	to	44.9	9 ±	0.82	47
Bicarbonate Alkalinity (CaCO3) (mg/L)		68	67	72	34	to	79	66 ±	0.83	47
Organic Carbon (mg/L)		2 U	2 U	↑6.1 M10	0.5 U	to	5.2	1.8 ±	0.14	47
Chloride (mg/L)		1.4	1.5	1.2	1	to	26.5	2.7 ±	0.62	47
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.12 ±	0.009	21
Turbidity (field) (NTU)		0.5	0.3	0.5	0	to	3.5	0.51 ±	0.13	47

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

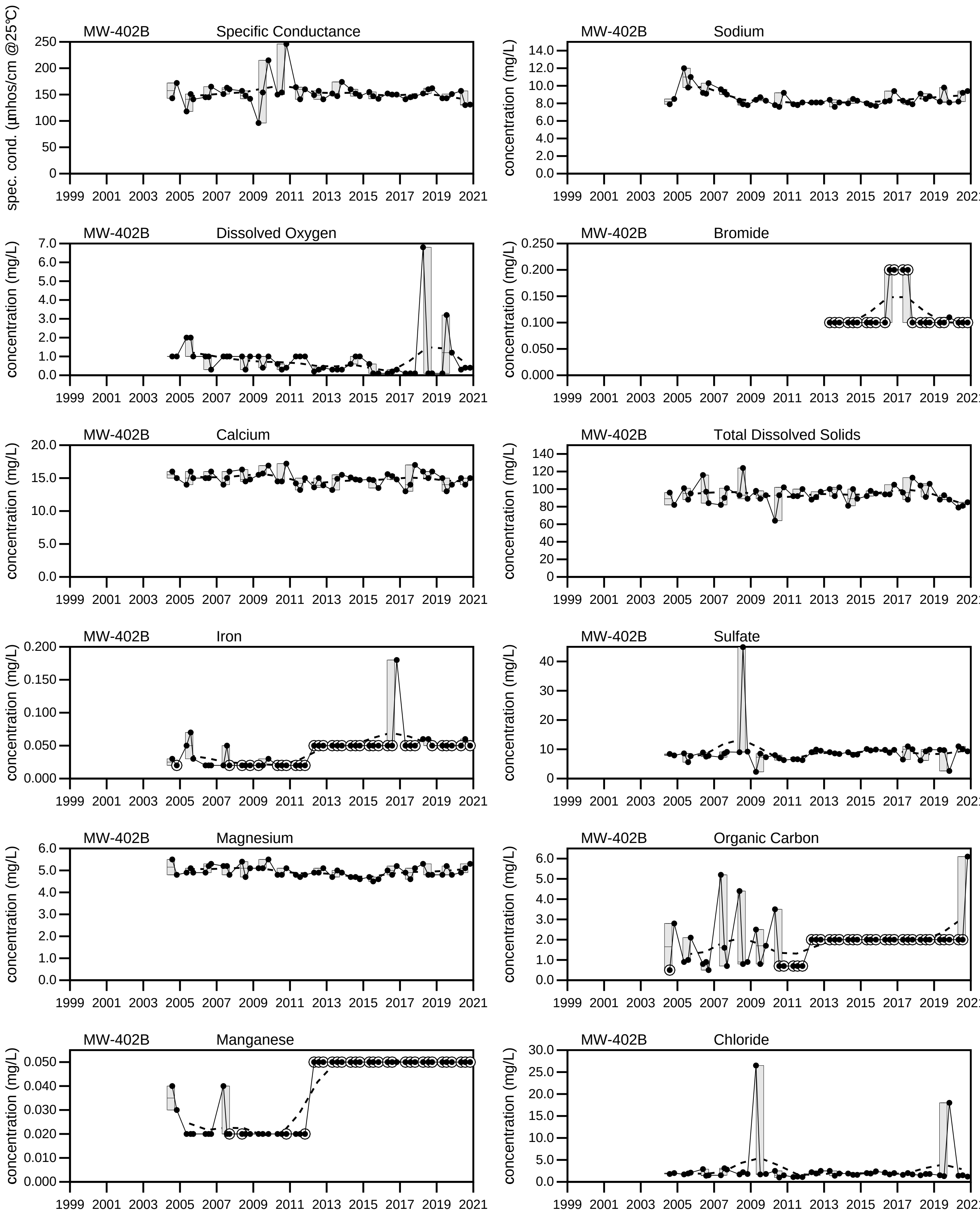
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

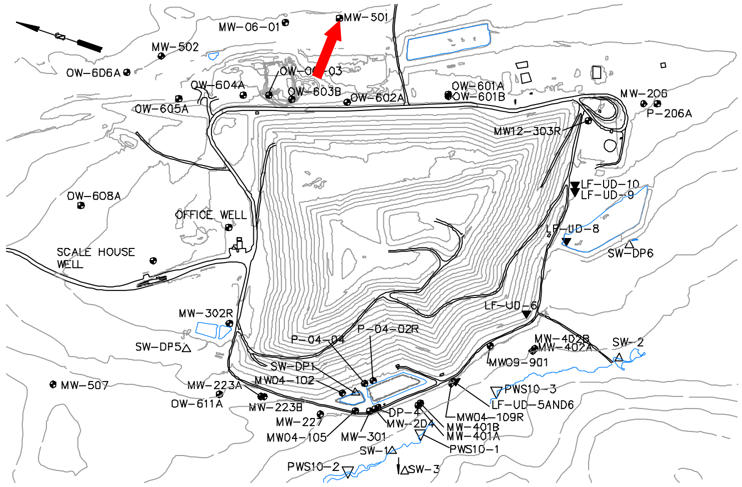
Juniper Ridge Landfill

MW-402B

Sevee & Maher Engineers, Inc.

Well Description

MW-501 monitors bedrock groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval: **57 ft. to 67 ft.**

Sampled: **3 Times Annually**

Sampled Since: **Apr-18**

Material Screened: **Bedrock**

Well Condition: **Good**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		↓157	310	295	176	to	367	250	±	25	7
pH (STU)		7.6	↓6	7.6	6.7	to	8.8	7.5	±	0.3	7
Temperature (Deg C)		8.2	↑15.5	8.6	6.5	to	13.3	9	±	0.79	7
Eh (mV)		386	331	367	200	to	553	360	±	49	7
Dissolved Oxygen (mg/L)		7.7	↓4	↓0.9	4.1	to	13.3	7.2	±	1.1	7
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.005 U	to	0.009	0.0067	±	0.000	7
Calcium (mg/L)		21	44	50	21	to	60	36	±	5	7
Iron (mg/L)		0.05 U	0.05	0.05 U	0.05 U	to	0.17	0.067	±	0.017	7
Magnesium (mg/L)		↓4.7	↑9.2	↑8.2	4.9	to	7.8	5.9	±	0.39	7
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.05 U	to	0.21	0.079	±	0.022	7
Potassium (mg/L)		0.7	↑1.1	0.9	0.7	to	1	0.79	±	0.04	7
Sodium (mg/L)		↓3.5	↑6.4	↑6.1	3.9	to	5.4	4.5	±	0.22	7
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.25 U	to	0.33	0.26	±	0.011	7
Nitrite/Nitrate - (N) (mg/L)		0.21	↓0.077	0.29	0.18	to	0.57	0.3	±	0.054	7
Total Dissolved Solids (mg/L)		↓105	214	208	117	to	247	160	±	17	7
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	2.5 U	2.5	±	0	7
Sulfate (mg/L)		3	3	2.9	2.5	to	47	10	±	6.2	7
Bicarbonate Alkalinity (CaCO3) (mg/L)		↓72	130	150	75	to	170	130	±	28	3
Organic Carbon (mg/L)		2 U	2 U	↑22 M10	2 U	to	6.4	2.6	±	0.63	7
Chloride (mg/L)		↑12	↑24	↑23	2.4	to	11	8.7	±	1.1	7
Bromide (mg/L)		0.1 U	0.1	0.1 U	0.1 U	to	0.12	0.1	±	0.003	7
Turbidity (field) (NTU)		0.2	0.3	0.2	0.1	to	3.9	1.3	±	0.59	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

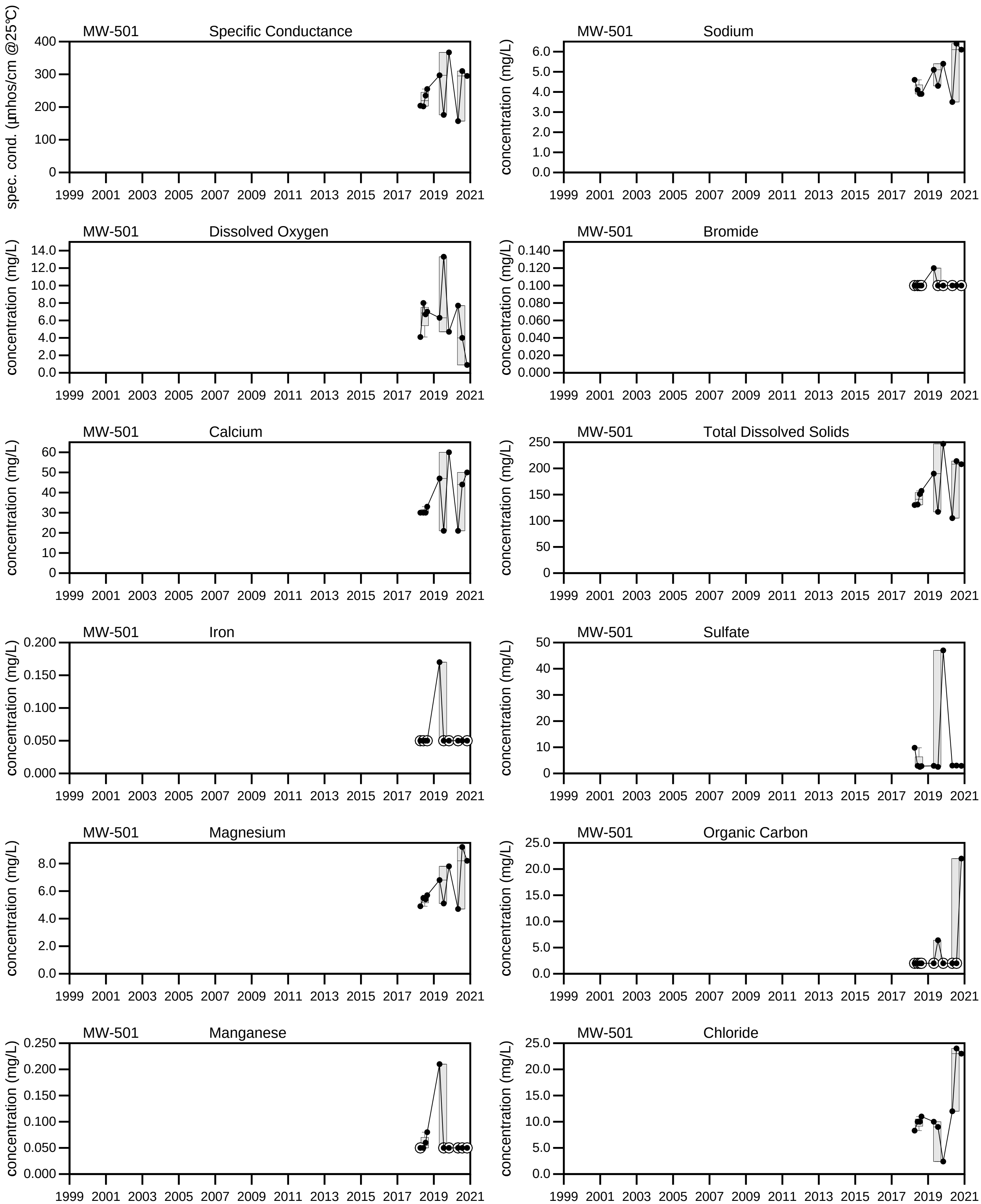
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

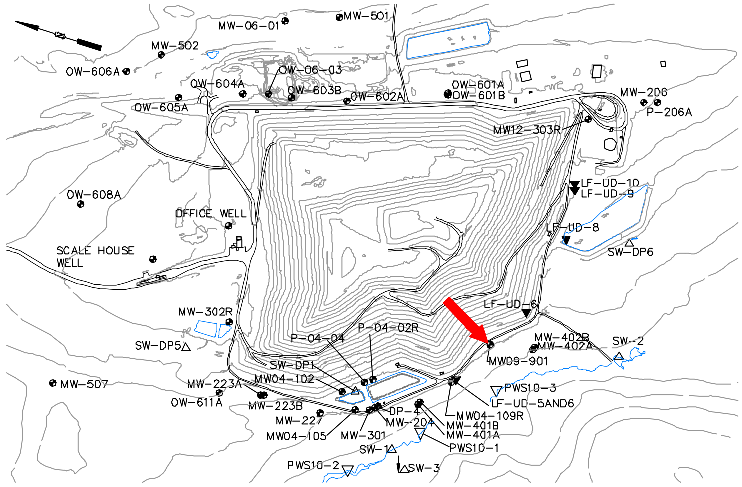
Juniper Ridge Landfill

MW-501

Sevee & Maher Engineers, Inc.

Well Description

MW09-901 is located to the south of Cell #5 and detention pond #2 of the landfill. This well monitors water quality within the overburden downgradier of the landfill.



Screen Interval:	**15 ft. to 20 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**12/08/2009**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

	2020				Historical (1/1/1980 - 12/31/2020)				
Indicator Parameters	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		339	348	341	178	to 482	290	± 15	31
pH (STU)		7.1	7.2	7	6.5	to 8.4	7.4	± 0.097	31
Temperature (Deg C)		9.7	13.3	10.3	4.6	to 20.4	13	± 0.75	31
Water Level Elevation (Feet)		158.41	156.3	156.95	153.18	to 159.21	160	± 0.28	31
Eh (mV)		370	235	359	20	to 464	330	± 16	31
Dissolved Oxygen (mg/L)		2	0.3	0.4	0.1 U	to 5.4	2.5	± 0.29	31
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.002 U	to 0.019	0.0078	± 0.000	31
Calcium (mg/L)		46	45	43	18.8	to 58	34	± 2.2	31
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	to 0.18	0.05	± 0.005	31
Magnesium (mg/L)		12	13	12	5.4	to 14	9.2	± 0.55	31
Manganese (mg/L)		0.05 U	0.05 U	0.12	0.02 U	to 0.39	0.061	± 0.011	31
Potassium (mg/L)		1.7	2	1.6	1.5	to 2.6	2.1	± 0.06	31
Sodium (mg/L)		8.9	9.9	10	4.9	to 17.4	9.4	± 0.57	31
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.25 U	to 1.5	0.42	± 0.041	31
Nitrite/Nitrate - (N) (mg/L)		0.11	0.05 U	0.05 U	0.05 U	to 2 U	0.42	± 0.13	15
Total Dissolved Solids (mg/L)		216	219	194	103	to 235	170	± 8.7	31
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to 4	3.6	± 0.12	31
Sulfate (mg/L)		14	13	12	4.6	to 47	13	± 1.3	31
Bicarbonate Alkalinity (CaCO3) (mg/L)		170	170	160	75	to 180	130	± 6.8	31
Organic Carbon (mg/L)		2 U	2 U	↑39 M10	0.7 U	to 2 U	1.8	± 0.079	31
Chloride (mg/L)		6	4.4	3.3	1 U	to 14	4.6	± 0.54	31
Bromide (mg/L)		↑0.32	↑0.29	0.15	0.1 U	to 0.27	0.15	± 0.013	21
Turbidity (field) (NTU)		1.4	1.1	1.5	0	to 10.1	1.9	± 0.34	31

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

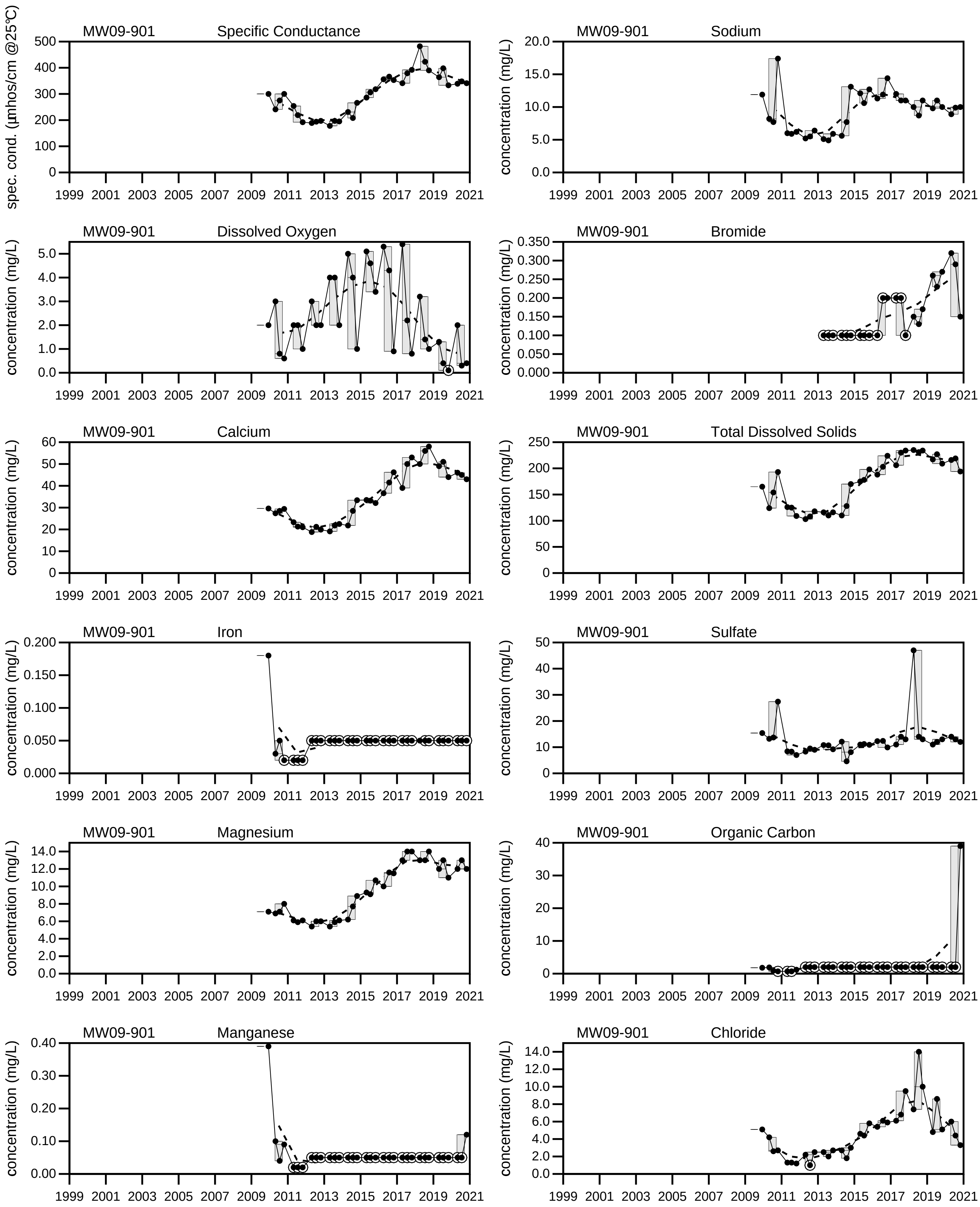
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

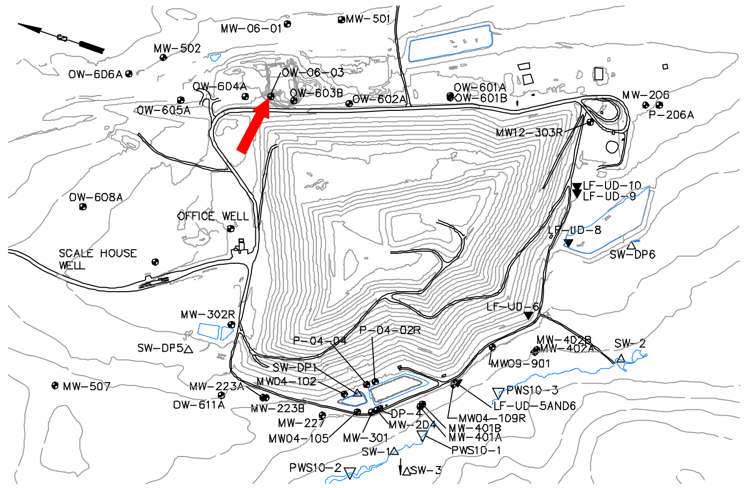
Juniper Ridge Landfill

MW09-901

Sevee & Maher Engineers, Inc.

Well Description

OW-06-03 monitors overburden groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**10 ft. to 15 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	Q1	Q2	Q3	Q4	Min		Max	Mean		SE	n
	2020				**Historical (1/1/1980 - 12/31/2020)**						
Specific Conductance (µmhos/cm @25°C)		↑641	I	↑778	193	to	448	350	±	79	3
pH (STU)		6.1	I	6.3	5.6	to	6.4	6	±	0.23	3
Temperature (Deg C)		8.7	I	7	6.2	to	10.3	8.4	±	1.2	3
Water Level Elevation (Feet)		↓180.54	I	↓181.02	181.72	to	185.54	180	±	1.1	3
Eh (mV)		↓140	I	200	176	to	401	310	±	69	3
Dissolved Oxygen (mg/L)		2.3	I	1.3	0.9	to	6	3.3	±	1.5	3
Arsenic (mg/L)			I		0.005 U	to	0.005 U	0.005	±	0	1
Calcium (mg/L)			I		17	to	17	17	±	0	1
Iron (mg/L)			I		0.32	to	0.32	0.32	±	0	1
Magnesium (mg/L)			I		4.4	to	4.4	4.4	±	0	1
Manganese (mg/L)			I		0.65	to	0.65	0.65	±	0	1
Potassium (mg/L)			I		1.1	to	1.1	1.1	±	0	1
Sodium (mg/L)			I		6.6	to	6.6	6.6	±	0	1
Total Kjeldahl Nitrogen (mg/L)			I		0.25 U	to	0.25 U	0.25	±	0	1
Nitrite/Nitrate - (N) (mg/L)			I		0.1	to	0.1	0.1	±	0	1
Total Dissolved Solids (mg/L)			I		84	to	84	84	±	0	1
Total Suspended Solids (mg/L)			I		2.5 U	to	2.5 U	2.5	±	0	1
Sulfate (mg/L)			I		2.1	to	2.1	2.1	±	0	1
Bicarbonate Alkalinity (CaCO3) (mg/L)			I		No historical data for Bicarbonate Alkalinity (CaCO3).						
Organic Carbon (mg/L)			I		2	to	2	2	±	0	1
Chloride (mg/L)			I		1.6	to	1.6	1.6	±	0	1
Bromide (mg/L)			I		0.58	to	0.58	0.58	±	0	1
Turbidity (field) (NTU)		↑43.8	I	↑11.7	2.7	to	10.2	7	±	2.2	3

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

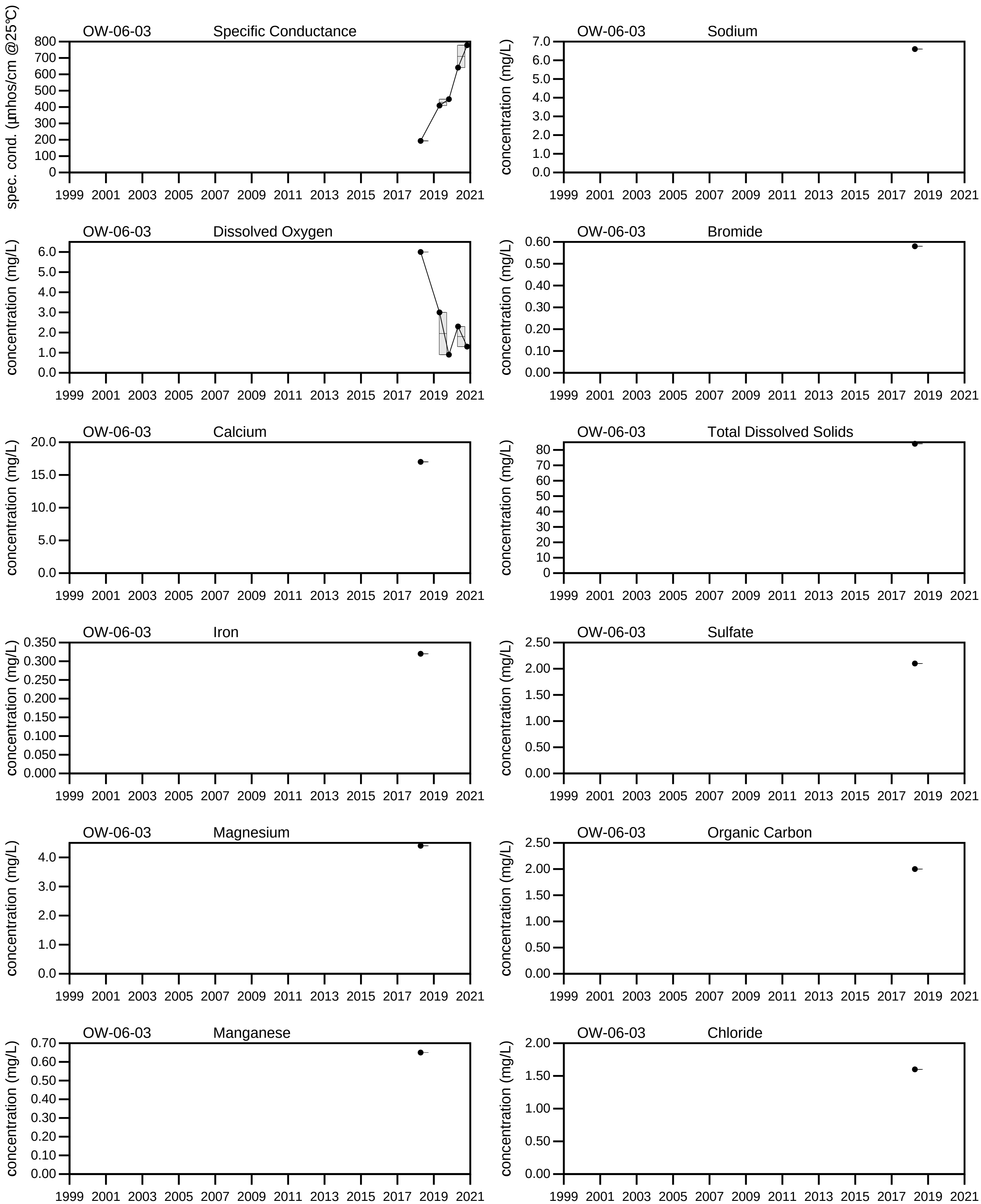
Q2= 4 - 2020 I = The sampling location yielded insufficient quantity to collect a sample.

Q3= 7 - 2020

Q4= 10 - 2020

Data Group: 606
Printed: 3/22/2021 14:16

SME SEVEE & MAHER ENGINEERS



LEGEND

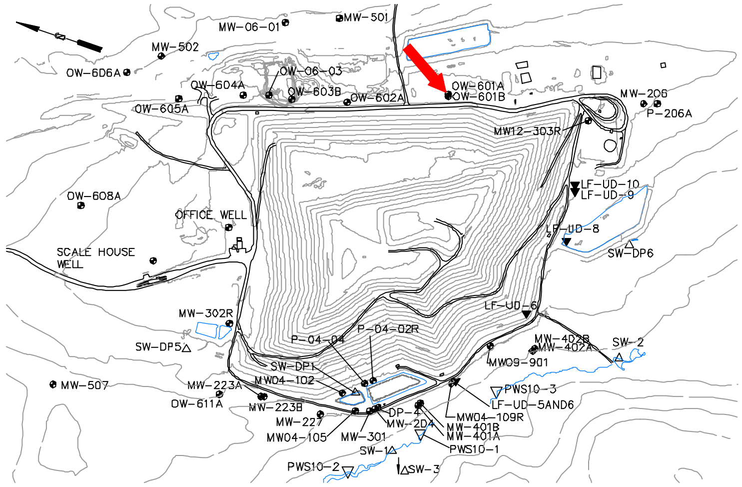
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

Juniper Ridge Landfill

OW-06-03

Sevee & Maher Engineers, Inc.

Well Description



OW-601A monitors bedrock groundwater downgradient of Cell 11 of the landfill expansion.

Screen Interval:	**88 ft. to 98 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		↓311	369	↑415	324	to 410	370	± 12	7
pH (STU)		↓5.9	↓6.7	7.1	7	to 7.4	7.2	± 0.047	7
Temperature (Deg C)		10.4	11.6	8.4	6.4	to 14.2	11	± 1.2	7
Water Level Elevation (Feet)		180.04	↓177.59	↓175.34	178.84	to 182.34	180	± 0.51	7
Eh (mV)		378	290	291	187	to 402	280	± 26	7
Dissolved Oxygen (mg/L)		2.6	2.6	1.8	0.9	to 7.9	3.7	± 1	7
Arsenic (mg/L)			0.005 U		0.005 U	to 0.005 U	0.005	± 3E-11	6
Calcium (mg/L)			37		36	to 43	41	± 1.1	6
Iron (mg/L)			0.87		0.05 U	to 0.97	0.29	± 0.15	6
Magnesium (mg/L)			10		8.8	to 12	10	± 0.45	6
Manganese (mg/L)			↓0.05		0.07	to 0.29	0.2	± 0.029	6
Potassium (mg/L)			2.4		1.8	to 2.5	2.1	± 0.12	6
Sodium (mg/L)			↑**<u>25</u>**		6.6	to 16	10	± 1.5	6
Total Kjeldahl Nitrogen (mg/L)			0.25 U		0.25 U	to 0.86	0.38	± 0.12	5
Nitrite/Nitrate - (N) (mg/L)			↑0.45		0.18	to 0.33	0.26	± 0.031	5
Total Dissolved Solids (mg/L)			225		180	to 234	210	± 8.9	5
Total Suspended Solids (mg/L)			57		2.5 U	to 7100	1500	± 1400	5
Sulfate (mg/L)			↑25		2.1	to 11	6.6	± 1.4	5
Bicarbonate Alkalinity (CaCO3) (mg/L)			↑150		140	to 140	140	± 0	1
Organic Carbon (mg/L)			2 U		2 U	to 2 U	2	± 0	5
Chloride (mg/L)			20		16	to 27	22	± 2.2	5
Bromide (mg/L)			0.13		0.13	to 1.1	0.35	± 0.19	5
Turbidity (field) (NTU)		6.9	8.9	10.6	1.7	to 1355	200	± 190	7

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

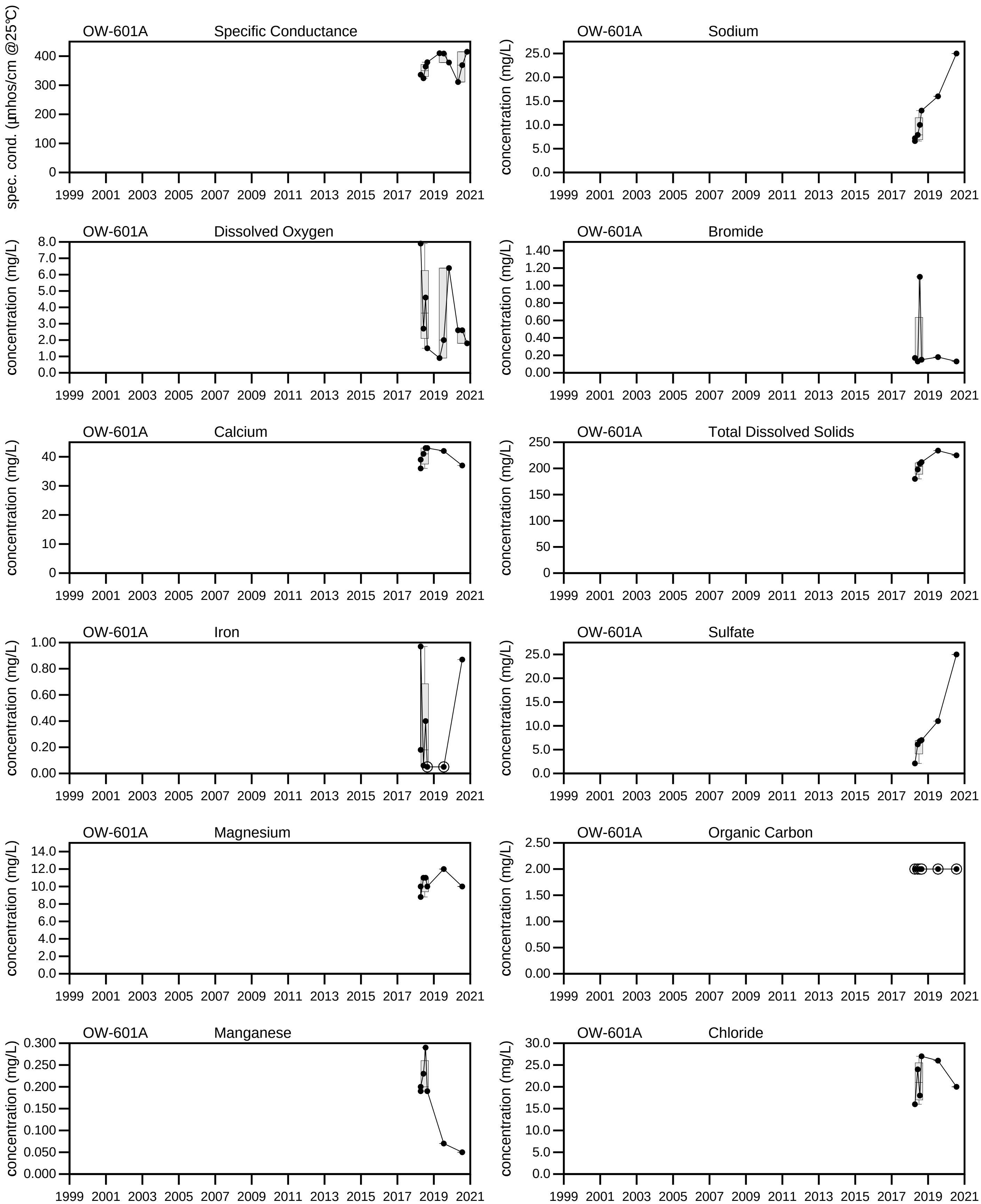
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020 U = Not Detected above the laboratory reporting limit.

Q3= 7 - 2020

Q4= 10 - 2020



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

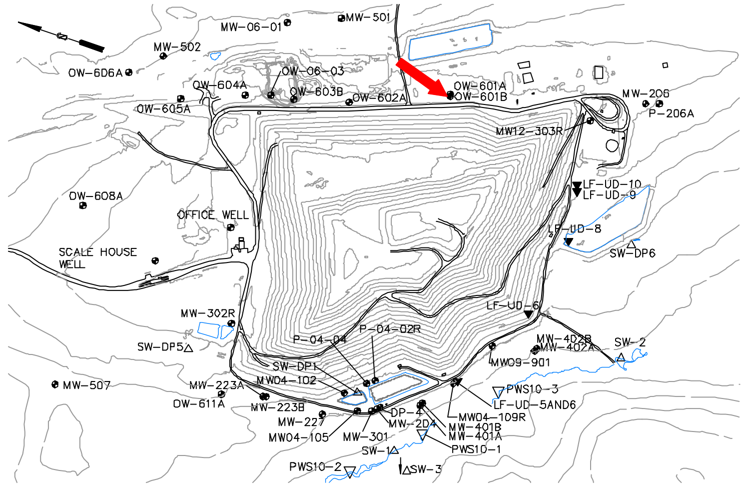
Juniper Ridge Landfill

OW-601A

Sevee & Maher Engineers, Inc.

Well Description

OW-601B monitors overburden groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**51 ft. to 61 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		↓312	342	↑403	323	to	386	360	±	8	7
pH (STU)		↓5.9	6.5	6.5	6.2	to	6.7	6.4	±	0.074	7
Temperature (Deg C)		9.9	11.5	8.3	7.7	to	14.7	11	±	0.92	7
Water Level Elevation (Feet)		179.65	↓177.23	↓174.95	178.42	to	181.95	180	±	0.52	7
Eh (mV)		381	297	341	259	to	406	340	±	19	7
Dissolved Oxygen (mg/L)		2.9	↑5.5	3.2	1.4	to	4.4	3	±	0.42	7
Arsenic (mg/L)			0.005 U		0.005 U	to	0.007	0.0054	±	0.000	5
Calcium (mg/L)			35		34	to	40	38	±	1.2	5
Iron (mg/L)			0.31		0.05 U	to	0.74	0.29	±	0.12	5
Magnesium (mg/L)			13		11	to	13	12	±	0.37	5
Manganese (mg/L)			0.05 U		0.05 U	to	1	0.38	±	0.19	5
Potassium (mg/L)			1.4		1.4	to	1.9	1.7	±	0.1	5
Sodium (mg/L)			8.3		6.8	to	8.7	7.7	±	0.36	5
Total Kjeldahl Nitrogen (mg/L)			0.25 U		0.25 U	to	0.25 U	0.25	±	0	5
Nitrite/Nitrate - (N) (mg/L)			↓0.23		0.25	to	0.58	0.45	±	0.056	5
Total Dissolved Solids (mg/L)			263		184	to	277	220	±	16	5
Total Suspended Solids (mg/L)			2.5 U		2.5 U	to	16	6.8	±	2.4	5
Sulfate (mg/L)			4 U		2 U	to	10 U	4.1	±	1.5	5
Bicarbonate Alkalinity (CaCO3) (mg/L)			↓92		120	to	120	120	±	0	1
Organic Carbon (mg/L)			2 U		2 U	to	2 U	2	±	0	5
Chloride (mg/L)			44		22	to	61	36	±	7	5
Bromide (mg/L)			0.24		0.16	to	0.5 U	0.26	±	0.062	5
Turbidity (field) (NTU)		↑7.6	3.5	2.4	1	to	6.3	3.7	±	0.74	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

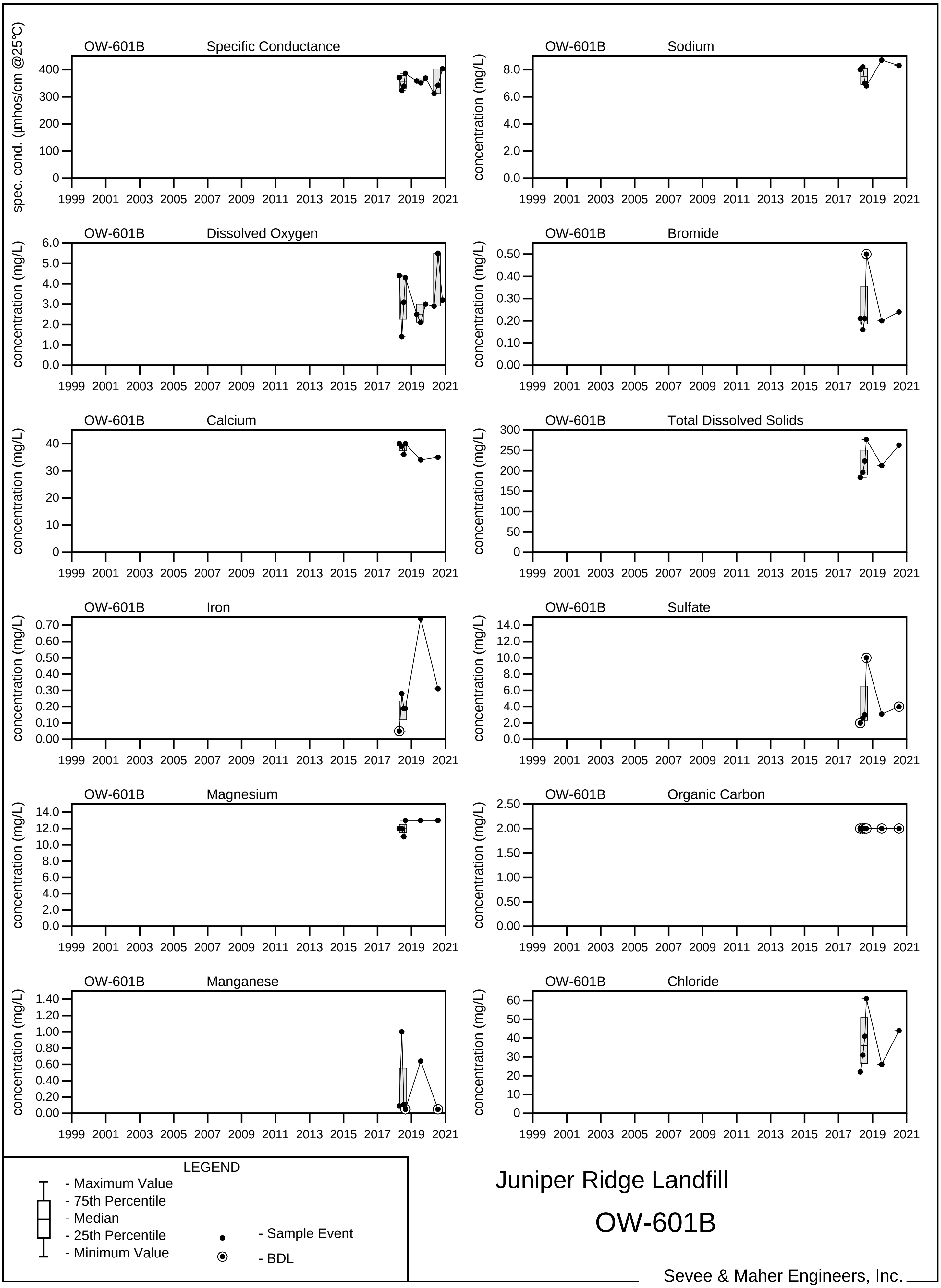
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020 U = Not Detected above the laboratory reporting limit.

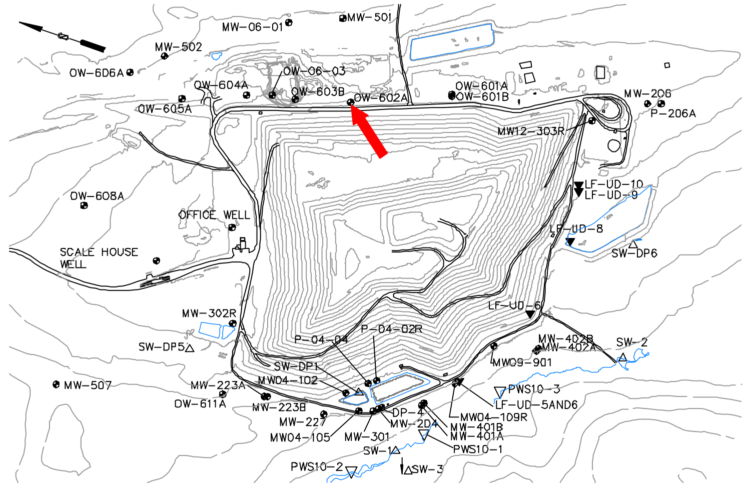
Q3= 7 - 2020

Q4= 10 - 2020


OW-601B Specific Conductance
spec. cond. (µmhos/cm @25°C)
OW-601B Sodium
OW-601B Dissolved Oxygen
OW-601B Bromide
OW-601B Calcium
OW-601B Total Dissolved Solids
OW-601B Iron
OW-601B Sulfate
OW-601B Magnesium
OW-601B Organic Carbon
OW-601B Manganese
OW-601B Chloride
concentration (mg/L)
1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021
LEGEND
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL
Juniper Ridge Landfill
OW-601B
Sevee & Maher Engineers, Inc.

Well Description

OW-602A monitors bedrock groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**52 ft. to 62 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		128	↑152	↑171	93	to	144	130	±	7.8	7
pH (STU)		6.8	7.1	7	6.7	to	8.2	7.2	±	0.19	7
Temperature (Deg C)		9.8	9.8	↓6.5	7.2	to	17.5	9.6	±	1.3	7
Water Level Elevation (Feet)		177.45	↓175.17	↓173.27	177.37	to	183.25	180	±	0.81	7
Eh (mV)		333	308	306	301	to	467	350	±	22	7
Dissolved Oxygen (mg/L)		8.3	8.2	↓7	7.5	to	12.9	10	±	0.68	7
Arsenic (mg/L)			0.005 U		0.005 U	to	0.008	0.0056	±	0.000	5
Calcium (mg/L)			17		13	to	18	16	±	1	5
Iron (mg/L)			0.05 U		0.05 U	to	0.1	0.06	±	0.01	5
Magnesium (mg/L)			4.1		2.8	to	4.1	3.4	±	0.23	5
Manganese (mg/L)			0.05 U		0.05 U	to	0.05 U	0.05	±	4E-10	5
Potassium (mg/L)			0.5		0.4	to	0.6	0.46	±	0.04	5
Sodium (mg/L)			↑3.3		2.5	to	3	2.7	±	0.095	5
Total Kjeldahl Nitrogen (mg/L)			0.25 U		0.25 U	to	0.72	0.35	±	0.092	5
Nitrite/Nitrate - (N) (mg/L)			0.064		0.05 U	to	0.26	0.14	±	0.035	5
Total Dissolved Solids (mg/L)			↑108		59	to	100	85	±	7.7	5
Total Suspended Solids (mg/L)			2.5 U		2.5 U	to	2.5 U	2.5	±	0	5
Sulfate (mg/L)			2.9		2.8	to	4.6	4.1	±	0.34	5
Bicarbonate Alkalinity (CaCO3) (mg/L)			↑56		43	to	43	43	±	0	1
Organic Carbon (mg/L)			2 U		2 U	to	2 U	2	±	0	5
Chloride (mg/L)			11		2.3	to	13	9	±	2.1	5
Bromide (mg/L)			0.1 U		0.1 U	to	0.1 U	0.1	±	8E-10	5
Turbidity (field) (NTU)		0.5	1.2	2.4	0.5	to	3.7	1.7	±	0.42	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020   U = Not Detected above the laboratory reporting limit.

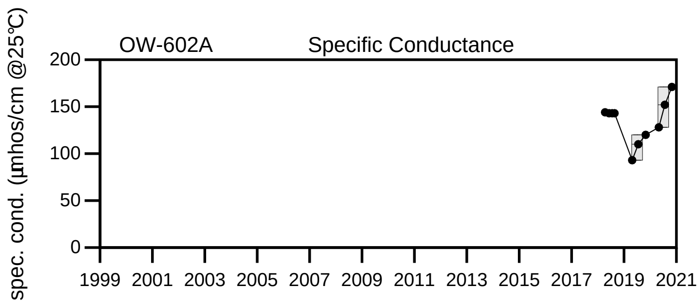
Q3= 7 - 2020

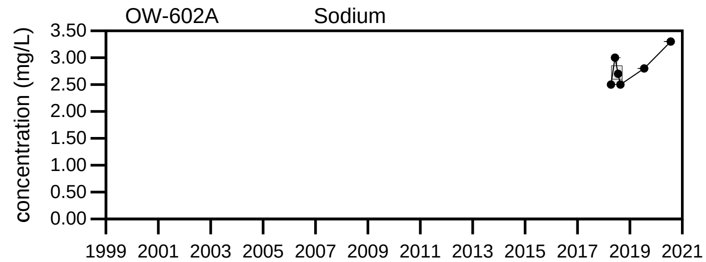
Q4= 10 - 2020

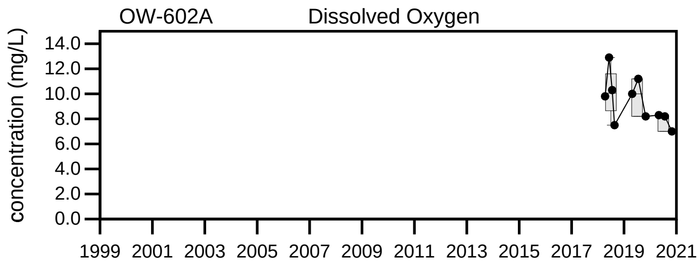
Data Group: 606

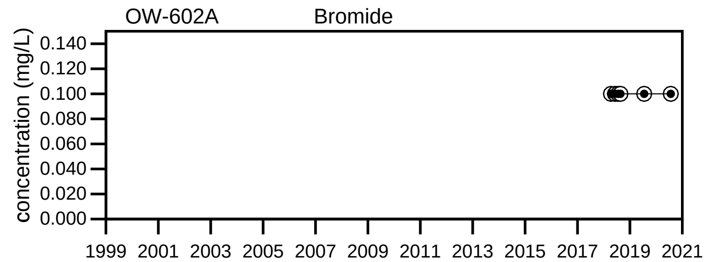
Printed: 3/22/2021 14:16

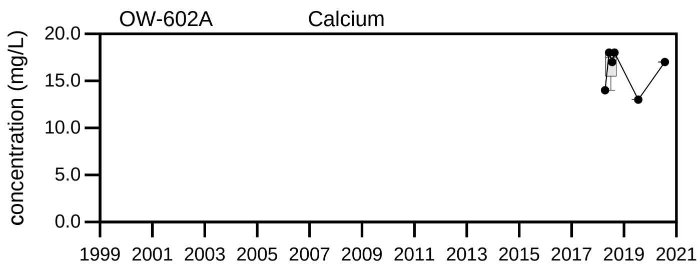
SME SEVEE & MAHER ENGINEERS

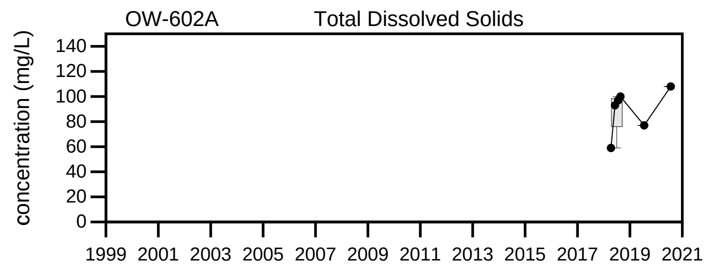


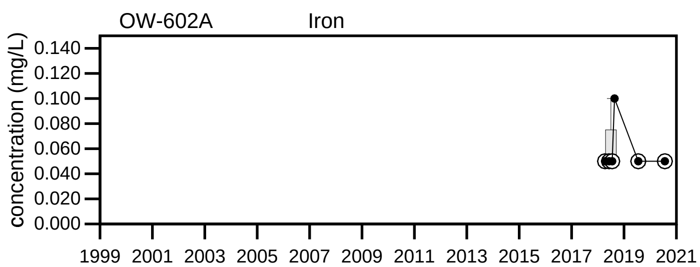


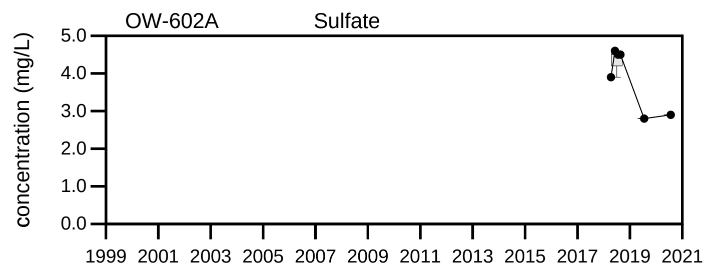


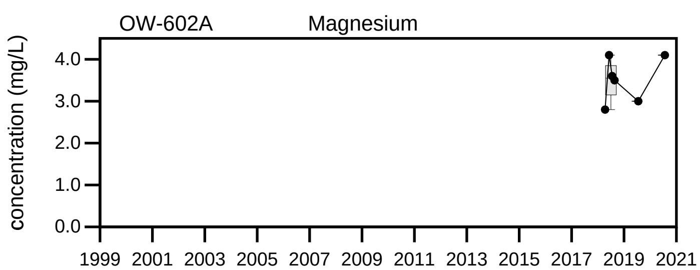


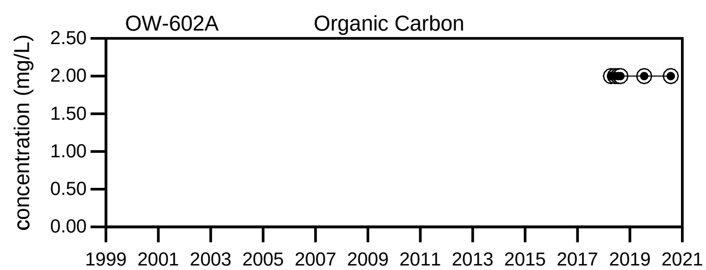


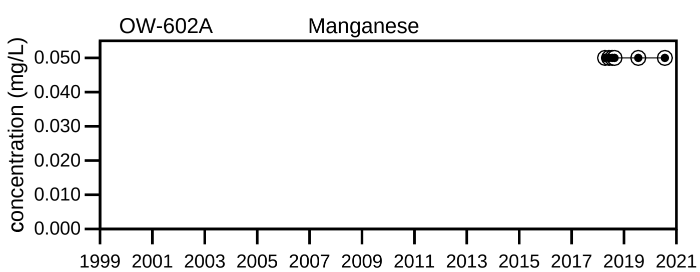


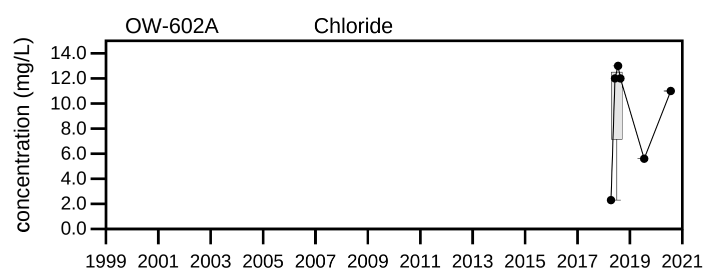












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

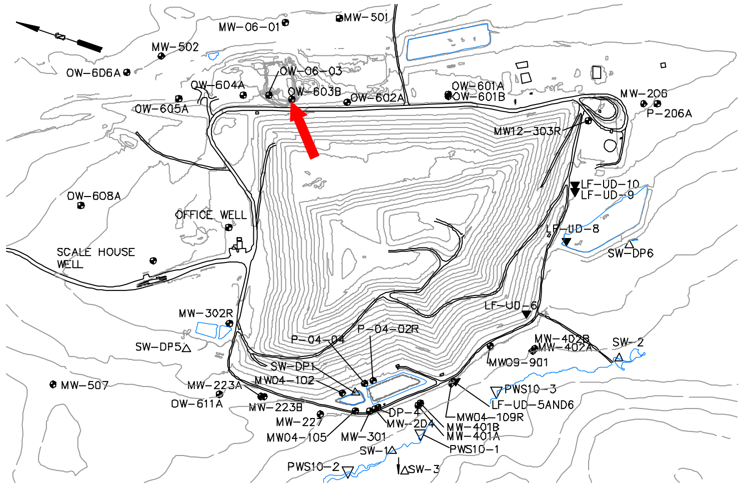
Juniper Ridge Landfill

OW-602A

Sevee & Maher Engineers, Inc.

Well Description

OW-603B monitors overburden groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**34 ft. to 44 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		130	I	I	122	to 302	190	± 24	7
pH (STU)		6.3	I	I	5.7	to 7.1	6.3	± 0.17	7
Temperature (Deg C)		7.9	I	I	6.3	to 19.7	12	± 1.8	7
Water Level Elevation (Feet)		182.12	I	↓179.37	181.17	to 187.63	180	± 0.86	7
Eh (mV)		358	I	I	304	to 415	380	± 18	7
Dissolved Oxygen (mg/L)		7.2	I	I	0.1	to 7.5	3.4	± 1.1	7
Arsenic (mg/L)			I		0.005 U	to 0.017	0.0075	± 0.002	6
Calcium (mg/L)			I		12	to 34	20	± 3.7	6
Iron (mg/L)			I		0.05	to 19	3.5	± 3.1	6
Magnesium (mg/L)			I		4.5	to 11	6.9	± 1.1	6
Manganese (mg/L)			I		0.11	to 0.93	0.42	± 0.14	6
Potassium (mg/L)			I		1	to 3.7	1.7	± 0.4	6
Sodium (mg/L)			I		3.9	to 8.5	5.5	± 0.68	6
Total Kjeldahl Nitrogen (mg/L)			I		0.25 U	to 11	2.6	± 2.1	5
Nitrite/Nitrate - (N) (mg/L)			I		0.054	to 0.28	0.12	± 0.04	5
Total Dissolved Solids (mg/L)			I		99	to 161	120	± 12	5
Total Suspended Solids (mg/L)			I		2.5 U	to 1500	310	± 300	5
Sulfate (mg/L)			I		2.1	to 2.9	2.4	± 0.14	5
Bicarbonate Alkalinity (CaCO3) (mg/L)			I		60	to 60	60	± 0	1
Organic Carbon (mg/L)			I		2 U	to 4	2.4	± 0.4	5
Chloride (mg/L)			I		1.2	to 2.5	1.9	± 0.22	5
Bromide (mg/L)			I		0.1 U	to 1.1	0.33	± 0.19	5
Turbidity (field) (NTU)		13.3	I	I	2.2	to 430	74	± 60	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

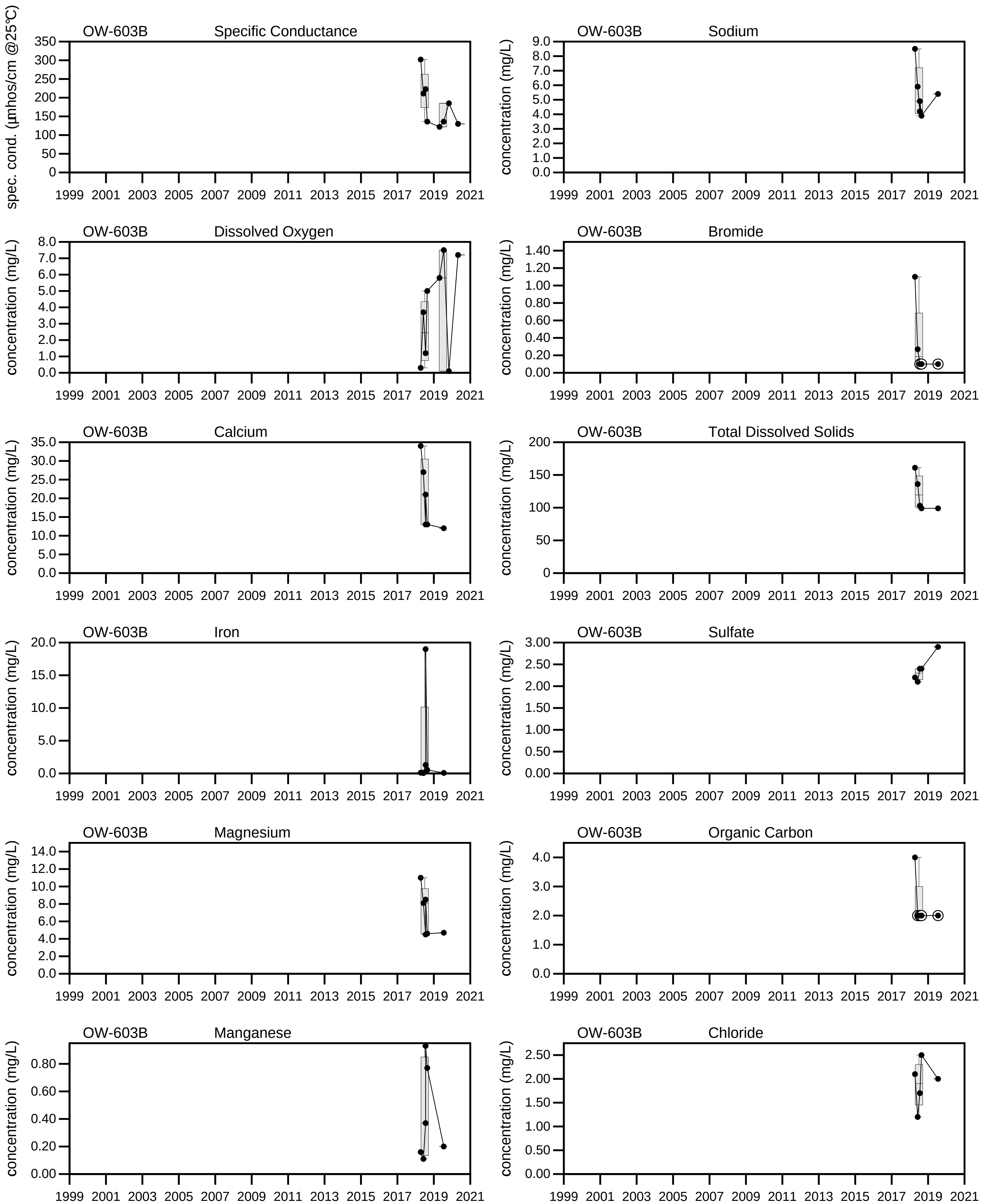
↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020   I = The sampling location yielded insufficient quantity to collect a sample.

Q3= 7 - 2020

Q4= 10 - 2020



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

Juniper Ridge Landfill

OW-603B

Sevee & Maher Engineers, Inc.

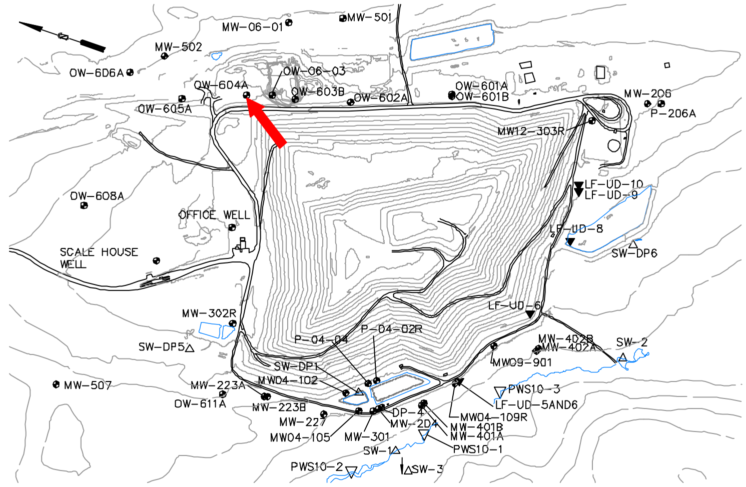
 OW-604A

Juniper Ridge Landfill

annual stats 2020 G13

Well Description

OW-604A monitors bedrock groundwater downgradient of Cell 11 of the landfill expansion.



Screen Interval:	**39 ft. to 49 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**Apr-18**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	to	Max	Mean	±	SE	n
Specific Conductance (μmhos/cm @25°C)		↑155	↑160	↑159	78	to	125	110	±	7.6	7
pH (STU)		6.1	6.3	7.2	6	to	7.8	6.5	±	0.23	7
Temperature (Deg C)		6.9	16.6	7.4	6.2	to	16.9	11	±	1.6	7
Water Level Elevation (Feet)		179.03	↓175.05	↓172.9	175.73	to	184.5	180	±	1	7
Eh (mV)		389	310	369	293	to	548	400	±	30	7
Dissolved Oxygen (mg/L)		6.3	4.2	5.6	0.1 U	to	7.5	4.1	±	0.99	7
Arsenic (mg/L)			0.005 U		0.005 U	to	0.007	0.0054	±	0.000	5
Calcium (mg/L)			↑18		8.9	to	15	11	±	1.2	5
Iron (mg/L)			0.05 U		0.05 U	to	0.05 U	0.05	±	4E-10	5
Magnesium (mg/L)			↑5		2.3	to	4.2	3	±	0.36	5
Manganese (mg/L)			0.05 U		0.05 U	to	0.05 U	0.05	±	4E-10	5
Potassium (mg/L)			↑0.7		0.5	to	0.6	0.56	±	0.024	5
Sodium (mg/L)			↑4.7		2.7	to	4.4	3.4	±	0.29	5
Total Kjeldahl Nitrogen (mg/L)			0.25 U		0.25 U	to	0.62	0.33	±	0.073	5
Nitrite/Nitrate - (N) (mg/L)			↑0.78		0.16	to	0.57	0.32	±	0.082	5
Total Dissolved Solids (mg/L)			↑116		62	to	101	77	±	7.4	5
Total Suspended Solids (mg/L)			2.5 U		2.5 U	to	2.5 U	2.5	±	0	5
Sulfate (mg/L)			3.3		2.5	to	3.5	2.8	±	0.18	5
Bicarbonate Alkalinity (CaCO3) (mg/L)			↑69		53	to	53	53	±	0	1
Organic Carbon (mg/L)			2 U		2 U	to	2 U	2	±	0	5
Chloride (mg/L)			↑4.7		1.1	to	1.9	1.6	±	0.14	5
Bromide (mg/L)			0.1		0.1 U	to	0.1 U	0.1	±	8E-10	5
Turbidity (field) (NTU)		1.3	2.3	↑10.9	1.2	to	5.8	3.2	±	0.55	7

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020 U = Not Detected above the laboratory reporting limit.

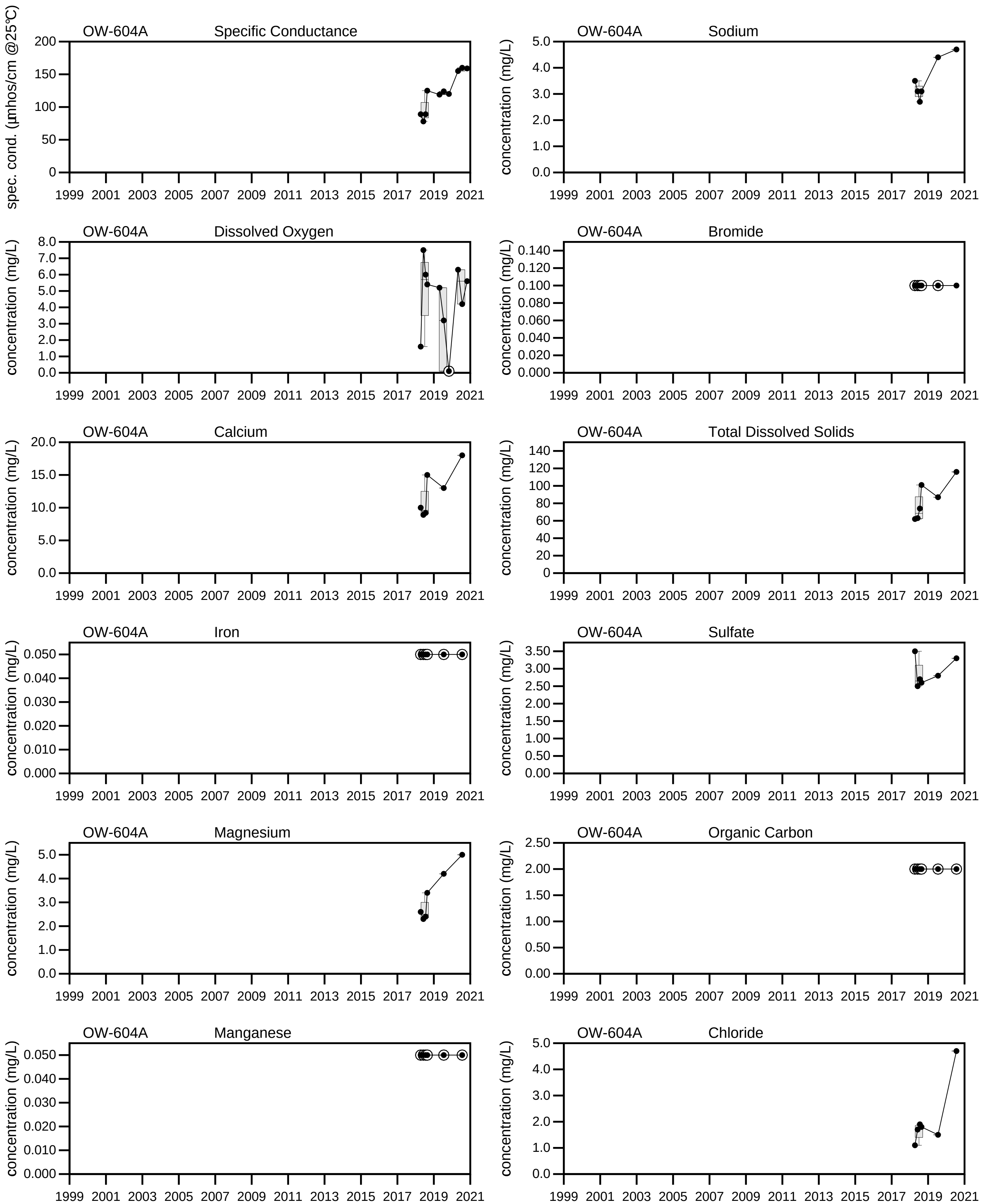
Q3= 7 - 2020

Q4= 10 - 2020

Data Group: 606

Printed: 3/22/2021 14:16

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

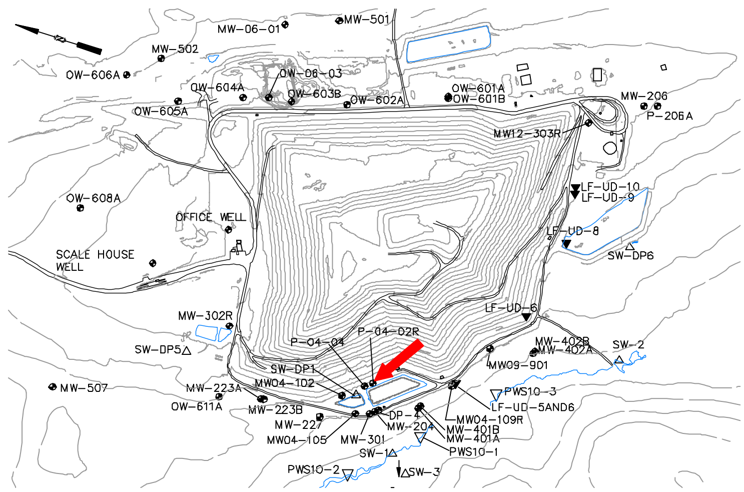
Juniper Ridge Landfill

OW-604A

Sevee & Maher Engineers, Inc.

Well Description

P-04-02R monitors the water quality in the overburden downgradient of the landfill, between the former leachate pond and the landfill toe. P-04-02R replaced well P-04-02 in 2015. Survey info received on 2/1/2019



Screen Interval:	**27.13 ft. to 32.13 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**7/15/15**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min to Max	Mean ± SE	n
Specific Conductance (µmhos/cm @25°C)		419	328	284	284 to 772	510 ± 39	14
pH (STU)		8.1	7.8	8.1	7.7 to 8.3	8 ± 0.048	14
Temperature (Deg C)		9.8	12.6	10.3	8.4 to 15.4	12 ± 0.61	14
Water Level Elevation (Feet)		158.75	↓156.82	157.54	157.22 to 159.92	160 ± 0.25	14
Eh (mV)		314	335	356	118 to 470	320 ± 26	14
Dissolved Oxygen (mg/L)		4.6	2.4	1.8	0.2 to 7.1	3 ± 0.61	14
Arsenic (mg/L)		0.006	0.006	0.008	0.005 U to 0.016	0.0081 ± 0.000	18
Calcium (mg/L)		22	22	23	17.5 to 37	28 ± 1.1	18
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.05 U to 1.52	0.15 ± 0.081	18
Magnesium (mg/L)		6	6.8	7.2	4.3 to 10.2	7.9 ± 0.31	18
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.05 U to 0.21	0.061 ± 0.009	18
Potassium (mg/L)		1.6	1.7	1.6	1.6 to 2.5	2 ± 0.067	18
Sodium (mg/L)		**<u>49</u>**	**<u>47</u>**	**<u>43</u>**	32.7 to 112	69 ± 5	18
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	0.25 U	0.25 U to 0.5	0.38 ± 0.035	14
Nitrite/Nitrate - (N) (mg/L)		0.092	0.05 U	0.05 U	0.05 U to 2 U	0.25 ± 0.14	14
Total Dissolved Solids (mg/L)		236	213	195	188 to 456	320 ± 23	14
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U to 26	5.3 ± 1.7	14
Sulfate (mg/L)		45	39	34	9 to 158	90 ± 13	14
Bicarbonate Alkalinity (CaCO3) (mg/L)		↑170	150	140	82 to 150	130 ± 5	14
Organic Carbon (mg/L)		2 U	2 U	15 M10	2 U to 32.5	4.2 ± 2.2	14
Chloride (mg/L)		2.8	2.1	↓1.7	1.9 to 42.5	10 ± 2.8	14
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U to 0.4 U	0.16 ± 0.029	14
Turbidity (field) (NTU)		↓0.7	↓0.5	2.1	0.8 to 18.2	3.2 ± 1.2	14

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

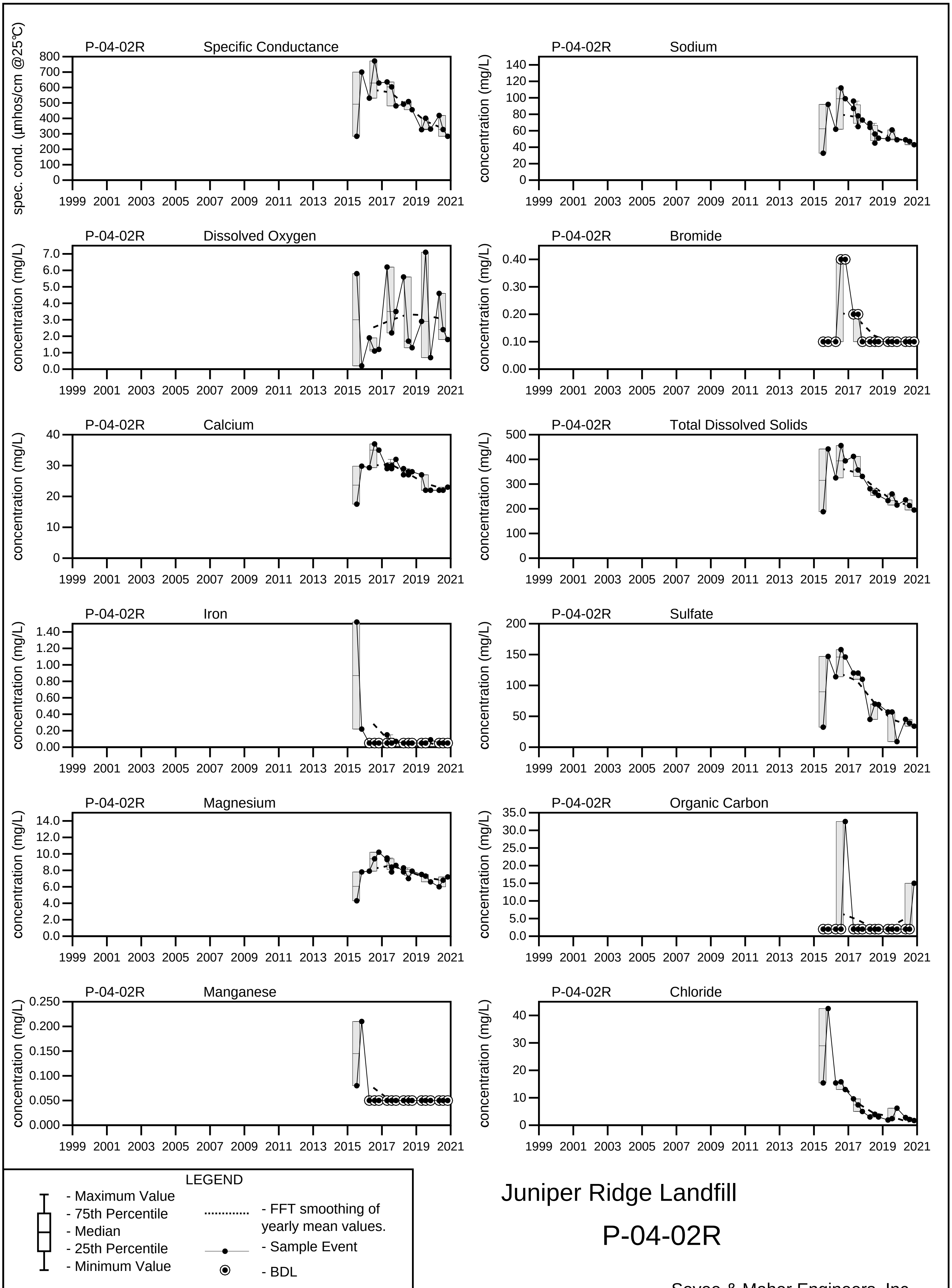
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 533

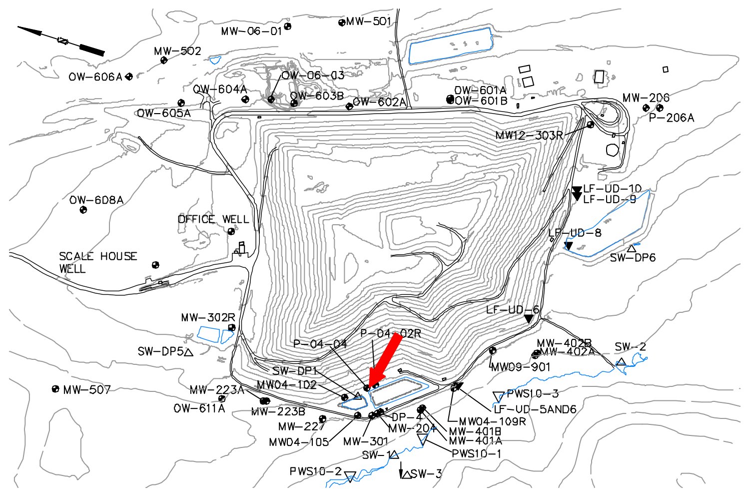
Printed: 3/22/2021 07:46

SME SEVEE & MAHER ENGINEERS


P-04-02R Specific Conductance
spec. cond. (µmhos/cm @25°C)
P-04-02R Sodium
P-04-02R Dissolved Oxygen
P-04-02R Bromide
P-04-02R Calcium
P-04-02R Total Dissolved Solids
P-04-02R Iron
P-04-02R Sulfate
P-04-02R Magnesium
P-04-02R Organic Carbon
P-04-02R Manganese
P-04-02R Chloride
concentration (mg/L)
1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021
LEGEND
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL
Juniper Ridge Landfill
P-04-02R
Sevee & Maher Engineers, Inc.

Well Description

P-04-04 monitors the water quality in the overburden downgradient of the landfill, between the former leachate pond and landfill toe.



Screen Interval:	**27.21 ft. to 32.21 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**02/05/04**
Material Screened:	**Overburden**
Well Condition:	**Good**
Sampling Method:	**Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		197	170	167	148	405	190	5.5	50
pH (STU)		8.2	7.8	8.1	6.2	8.4	7.8	0.061	50
Temperature (Deg C)		9.9	14	10.3	3.4	19.5	12	0.48	50
Water Level Elevation (Feet)		161.29	157.93	158.45	140.18	161.85	160	0.5	50
Eh (mV)		314	329	347	151	520	320	12	48
Dissolved Oxygen (mg/L)		7.2	4	2.4	1	7.7	3.8	0.24	50
Arsenic (mg/L)		0.008	0.005	0.007	0.001	0.014	0.007	0.000	50
Calcium (mg/L)		23	21	24	11	58.1	23	0.79	50
Iron (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	0.93	0.059	0.018	50
Magnesium (mg/L)		5.6	6	6	4.8	6.1	5.4	0.046	50
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	0.12	0.039	0.003	50
Potassium (mg/L)		1.4	1.3	1.3	0.9	4.6	1.5	0.072	50
Sodium (mg/L)		4.5	4.6	4.6	3.6	73	6.8	1.4	50
Total Kjeldahl Nitrogen (mg/L)		0.41	0.25 U	0.25 U	0.17	0.9	0.42	0.021	48
Nitrite/Nitrate - (N) (mg/L)		0.14	0.05 U	0.092	0.05 U	2 U	0.28	0.13	15
Total Dissolved Solids (mg/L)		105	115	109	92	287	120	3.7	50
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	21	4.1	0.36	50
Sulfate (mg/L)		9.4	8.8	7.8	4.1	28.8	9.2	0.62	50
Bicarbonate Alkalinity (CaCO3) (mg/L)		81	77	77	72	153	82	1.7	50
Organic Carbon (mg/L)		2 U	2 U	3.7 M10	0.5 U	3.8	1.6	0.094	50
Chloride (mg/L)		7.2	↑7.4	↑7.5	0.9	7.2	2.3	0.18	50
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.12	0.009	21
Turbidity (field) (NTU)		0.8	0.6	1.8	0	162	4.4	3.2	50

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

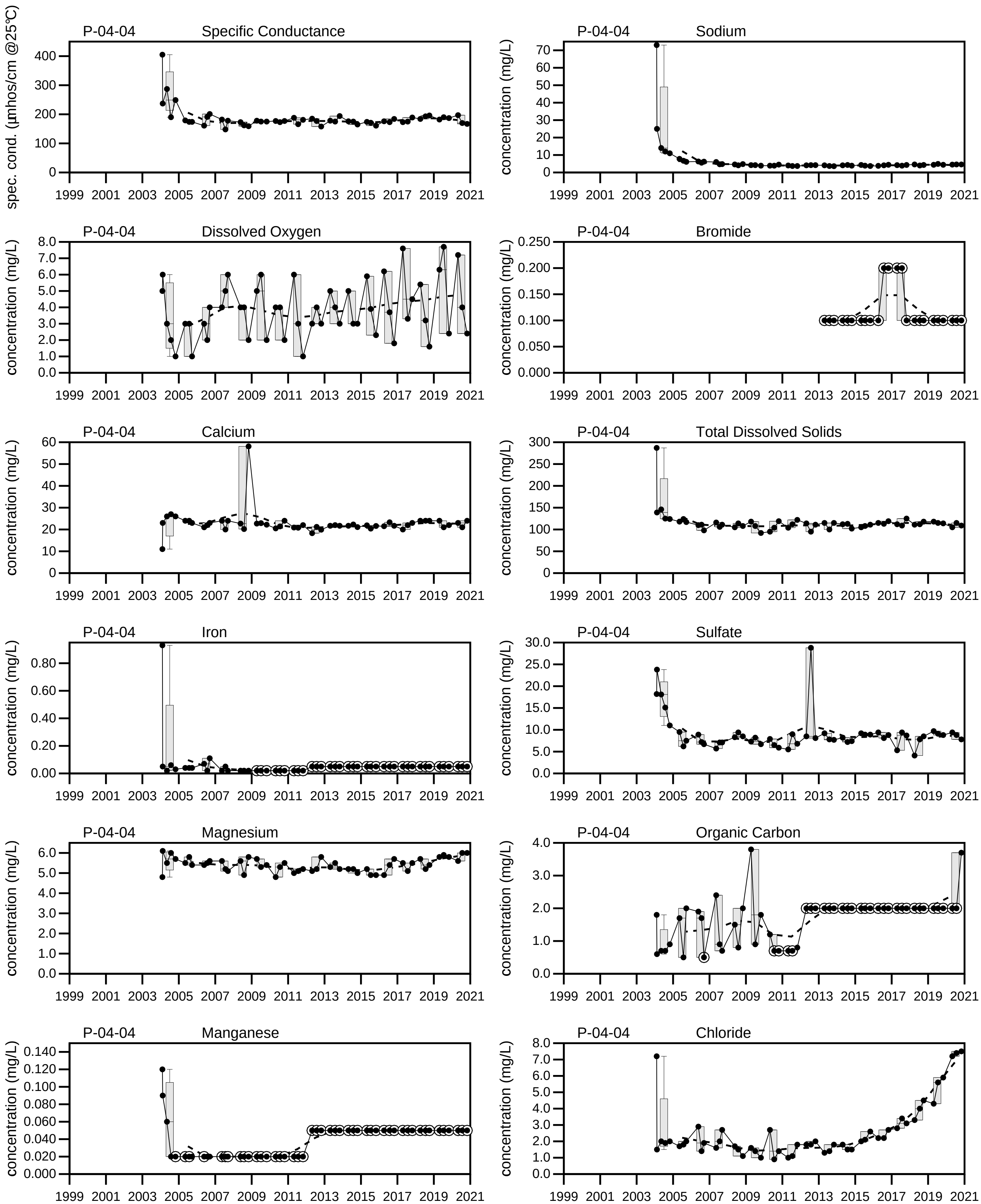
Q2= 4 - 2020

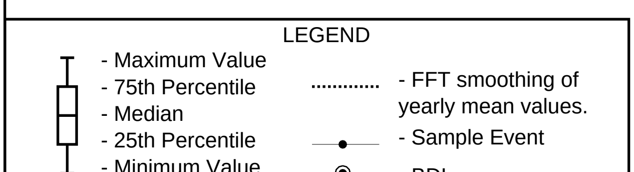
Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.





Juniper Ridge Landfill

P-04-04

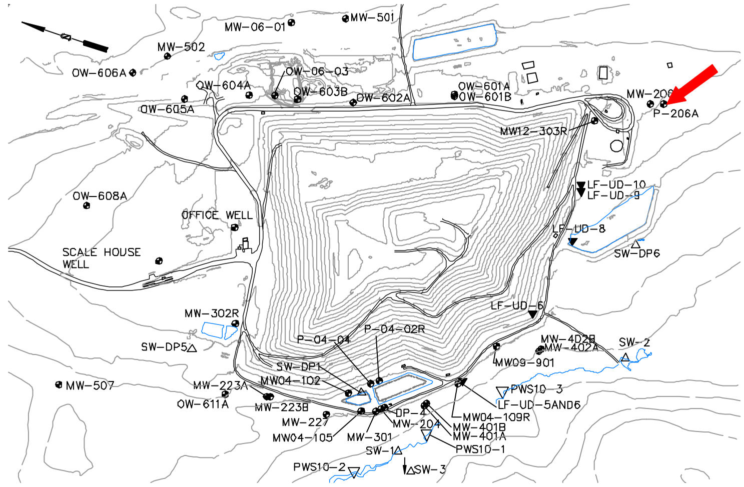
Sevee & Maher Engineers, Inc.

Juniper Ridge Landfill

annual stats 2020 G8

Well Description

P-206A monitors bedrock water quality upgradient of the landfill.



Screen Interval:	**85.5 ft. to 90.5 ft.**
Sampled:	**3 Times Annually**
Sampled Since:	**7/31/2013**
Material Screened:	**Bedrock**
Well Condition:	**Good**
Sampling Method:	**Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		244	242	A	120	to	317	180	±	11	21
pH (STU)		↓6.9	7.7	A	7.3	to	11.8	7.9	±	0.2	21
Temperature (Deg C)		↓4.6	↑19.5	A	5.3	to	17	11	±	0.74	21
Water Level Elevation (Feet)		180.41	177.76	↓169.81	176.11	to	184.61	180	±	0.57	21
Eh (mV)		101	133	A	63	to	352	200	±	20	21
Dissolved Oxygen (mg/L)		3.6	4.2	A	0.6	to	6.8	3.1	±	0.31	21
Arsenic (mg/L)		0.006	0.005 U	A	0.005	to	0.022	0.0092	±	0.000	19
Calcium (mg/L)		24	23	A	11.1	to	24	17	±	1	19
Iron (mg/L)		0.62	0.24	A	0.21	to	16.8	2.7	±	0.99	19
Magnesium (mg/L)		↑6.5	↑6.5	A	3.1	to	6.2	4.7	±	0.26	19
Manganese (mg/L)		0.08	0.08	A	0.07	to	0.31	0.12	±	0.015	19
Potassium (mg/L)		1.2	1.3	A	0.9	to	1.6	1.1	±	0.041	19
Sodium (mg/L)		9.1	9.3	A	7.2	to	11	8.6	±	0.25	19
Total Kjeldahl Nitrogen (mg/L)		0.25 U	0.25 U	A	0.25 U	to	0.6	0.38	±	0.038	12
Nitrite/Nitrate - (N) (mg/L)		0.088	0.05 U	A	0.05 U	to	0.7	0.16	±	0.056	15
Total Dissolved Solids (mg/L)		135	134	A	95	to	136	120	±	3.7	12
Total Suspended Solids (mg/L)		15	2.5 U	A	2.5 U	to	57	14	±	4.7	12
Sulfate (mg/L)		2.1	3.4	A	2 U	to	4.8	2.3	±	0.16	19
Bicarbonate Alkalinity (CaCO3) (mg/L)		78	↑83	A	61	to	79	70	±	1.8	12
Organic Carbon (mg/L)		2 U	2 U	A	2 U	to	2 U	2	±	0	12
Chloride (mg/L)		20	22	A	3.3	to	24	14	±	1.7	19
Bromide (mg/L)		0.1 U	0.1 U	A	0.1 U	to	0.2 U	0.13	±	0.014	12
Turbidity (field) (NTU)		1.3	1.9	A	0.8	to	9.3	3.9	±	0.62	21

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEG16=20 mg/L, Manganese MEG16=0.3 mg/L, Iron MEG16=5 mg/L, Arsenic MEG16=0.01 mg/L, MCL=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

A = The sampling location was Inaccessible

Data Group: 539

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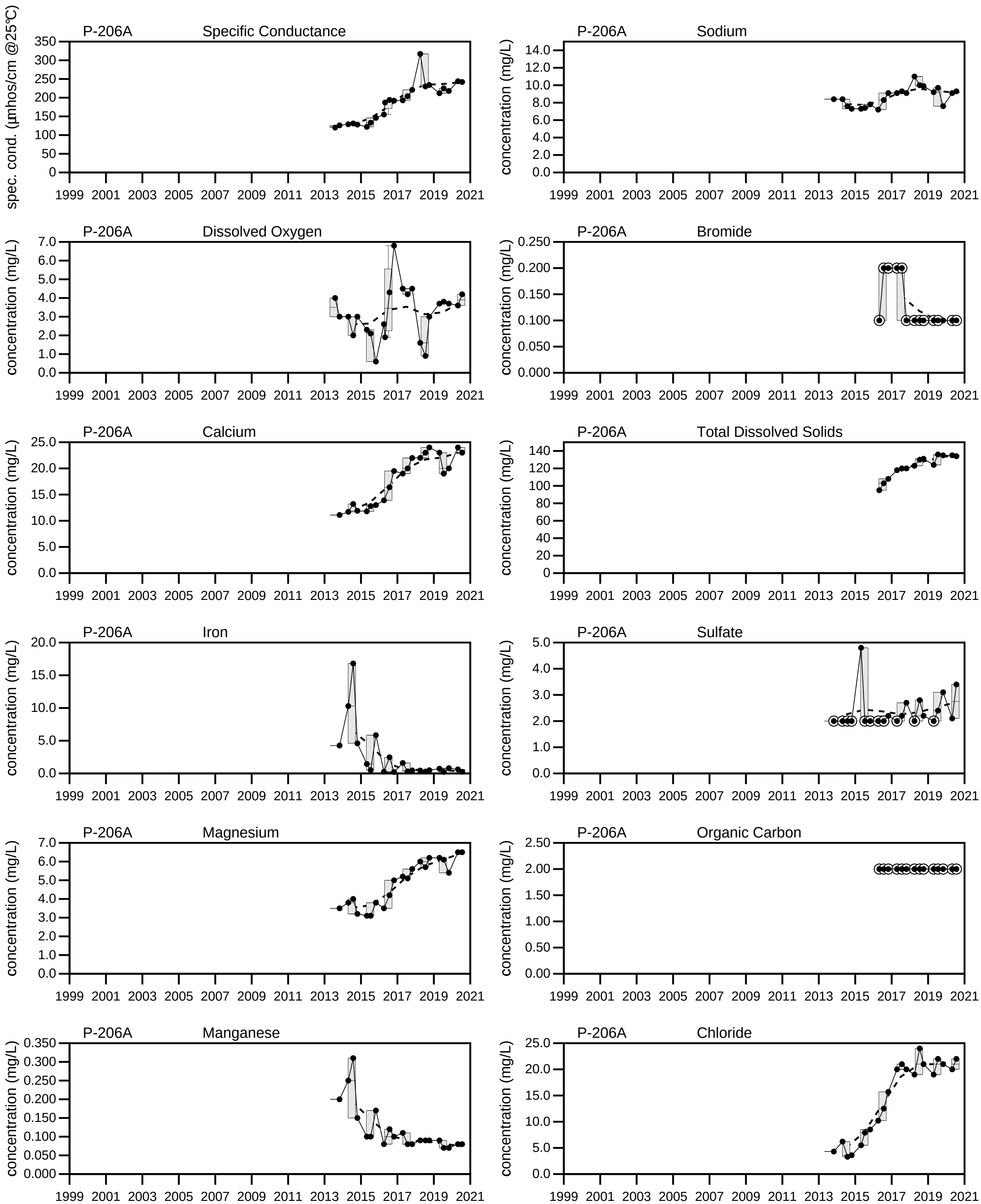
SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

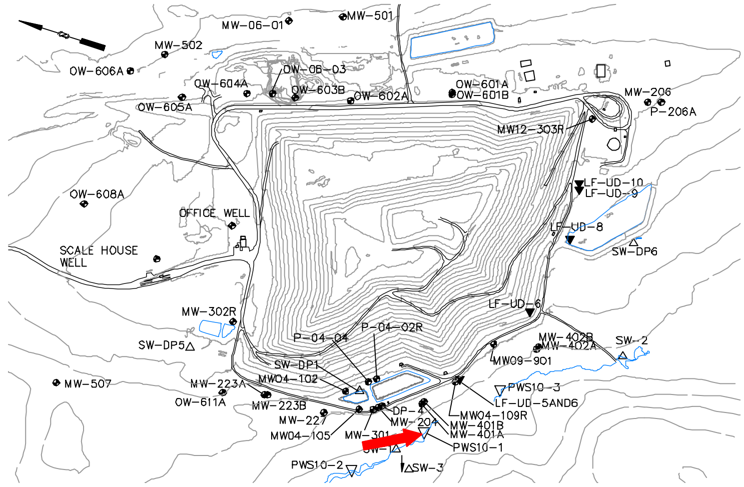
Juniper Ridge Landfill

P-206A

Sevee & Maher Engineers, Inc.

Well Description

PWS10-1 is a pore water sampling location along the unnamed tributary tc Pushaw stream. PWS10-1 is downgradient of the landfill.



Sampled: **3 Times Annually**

Sampled Since: **04/26/2010**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min to Max	Mean ± SE	n
Specific Conductance (µmhos/cm @25°C)		346	254	175	76 to 438	200 ± 16	30
pH (STU)		7	6	6	5.3 to 7.2	6.3 ± 0.084	30
Temperature (Deg C)		6.1	23.2	5.2	2.7 to 25	13 ± 1.2	30
Eh (mV)		82	167	454	-38 to 818	220 ± 29	30
Dissolved Oxygen (mg/L)		0.8	0.4	3.9	0 to 9.5	2.5 ± 0.43	30
Arsenic (mg/L)		0.005 U	0.005	0.005 U	0.002 U to 0.019	0.008 ± 0.000	30
Calcium (mg/L)		31	24	29	6.8 to 38.1	21 ± 1.6	30
Iron (mg/L)		**8.1**	**13**	0.76	0.07 to 30.3	3.9 ± 0.99	30
Magnesium (mg/L)		8.4	6.7	8.9	2.3 to 12.7	6.3 ± 0.5	30
Manganese (mg/L)		↑**2.3**	↑**2.6**	**0.41**	0.05 U to 0.92	0.28 ± 0.043	30
Potassium (mg/L)		1.2	2.2	1.6	0.4 to 2.8	1 ± 0.1	30
Sodium (mg/L)		9.2	8	7.5	4.3 to 10	7.1 ± 0.27	30
Nitrite/Nitrate - (N) (mg/L)		0.073	0.05 U	0.05 U	0.05 U to 2 U	0.27 ± 0.13	15
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.09	0.04	0.03 to 0.52	0.12 ± 0.021	30
Total Dissolved Solids (mg/L)		180	191	172	87 to 197	140 ± 5.9	30
Total Suspended Solids (mg/L)		11	14	21	2.5 U to 786	56 ± 26	30
Sulfate (mg/L)		8.9	2 U	9	1 to 15	3.9 ± 0.58	30
Bicarbonate Alkalinity (CaCO3) (mg/L)		99	81	95	21 to 130	76 ± 5.9	30
Organic Carbon (mg/L)		8.6	↑30	↑28 M10	3.8 to 21	10 ± 0.78	30
Chloride (mg/L)		13	12	9.6	3.1 to 22.9	9.7 ± 0.8	30
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U to 0.2 U	0.12 ± 0.009	21
Turbidity (field) (NTU)		2.7	3.1	2.1	1 to 20	4.3 ± 0.79	30
Methane (ug/L)		270	45	20 U	20 U to 4600	770 ± 490	9

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEGPW16=20 mg/L, Manganese MEGPW16=0.3 mg/L, Iron MEGPW16=5 mg/L, Arsenic MEGPW16=0.01 mg/L, MCL-pw=0.01 mg,

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

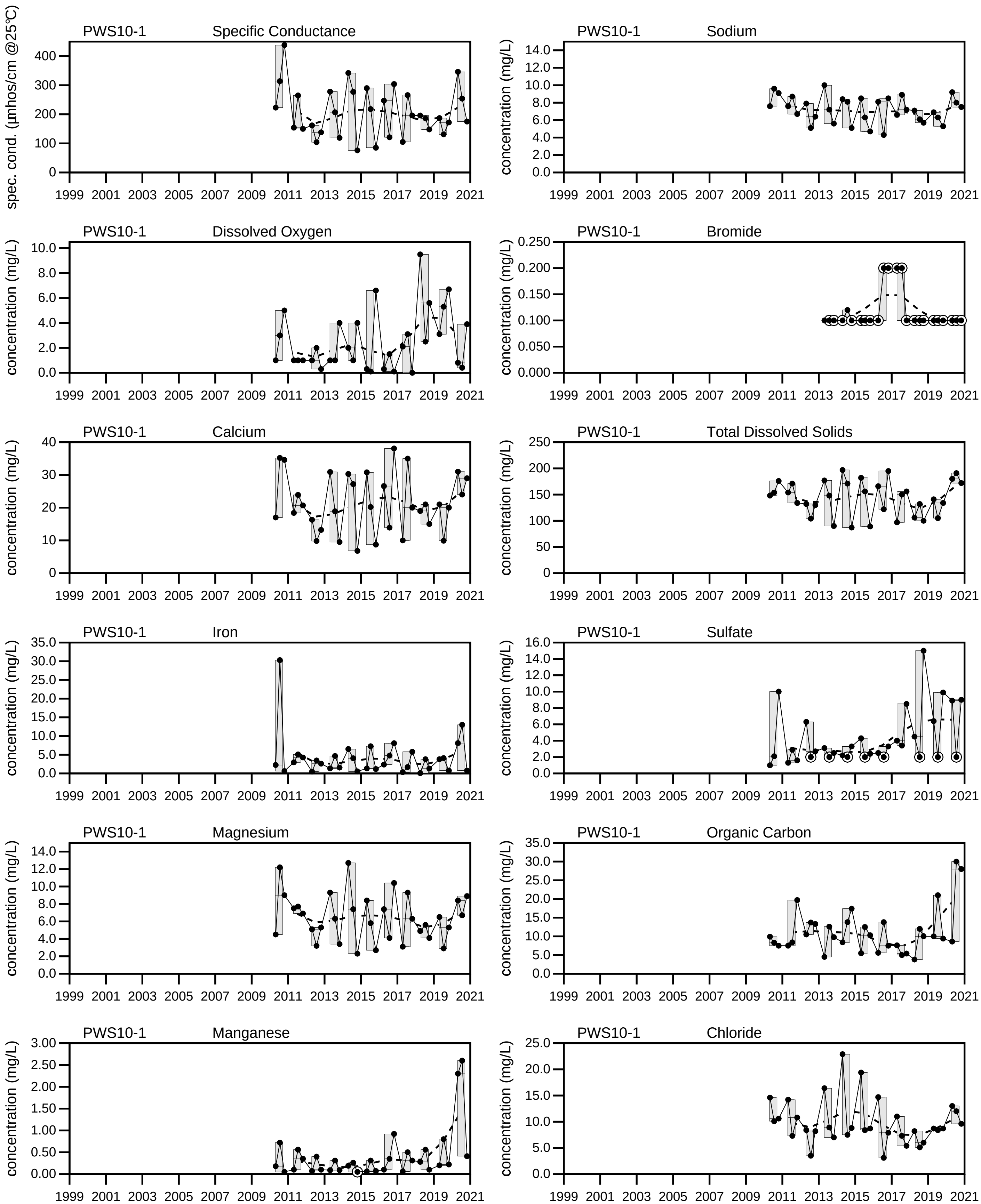
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 535
Printed: 3/22/2021 08:33

SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

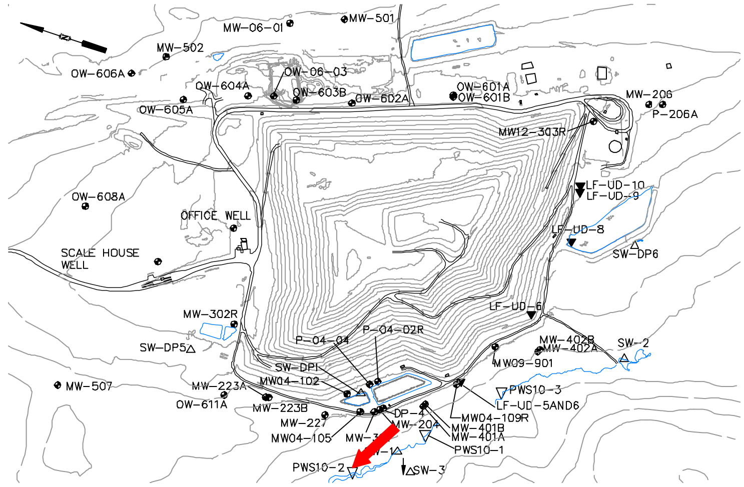
Juniper Ridge Landfill

PWS10-1

Sevee & Maher Engineers, Inc.

Well Description

PWS10-2 is a pore water sampling location along the unnamed tributary tc Pushaw stream. PWS10-2 is downgradient of the landfill.



Sampled: **3 Times Annually**

Sampled Since: **04/26/2010**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		140	142	124	63	to	276	120	±	8.3	29
pH (STU)		7.2	6.2	7.3	5.4	to	7.6	6.4	±	0.13	29
Temperature (Deg C)		5.4	19.1	4.9	1.3	to	26.7	13	±	1.4	29
Eh (mV)		289	322	359	-5	to	492	230	±	25	29
Dissolved Oxygen (mg/L)		6.6	3	6.7	0.2	to	11.3	4.2	±	0.59	29
Arsenic (mg/L)		0.005	0.005 U	0.005 U	0.002 U	to	0.015	0.0061	±	0.000	29
Calcium (mg/L)		↑29	13	15	5.7	to	16	11	±	0.55	29
Iron (mg/L)		2	0.95	1.6	0.05 U	to	13.8	2.3	±	0.51	29
Magnesium (mg/L)		3.9	2.9	2.6	1.2	to	4.7	2.8	±	0.19	29
Manganese (mg/L)		**<u>0.61</u>**	0.09	0.28	0.02 U	to	0.94	0.16	±	0.037	29
Potassium (mg/L)		↑1.9	↑1.7	↑1.8	0.3 U	to	1.6	0.74	±	0.068	29
Sodium (mg/L)		7.6	7.5	4.6	1.6	to	7.8	4.1	±	0.23	29
Nitrite/Nitrate - (N) (mg/L)		0.099	0.05 U	0.05 U	0.05 U	to	2 U	0.27	±	0.14	14
Total Phosphorus Mixed Forms (PO4 and C		0.04	0.06	0.05	0.02	to	0.22	0.054	±	0.007	29
Total Dissolved Solids (mg/L)		107	99	101	38	to	119	84	±	3.4	29
Total Suspended Solids (mg/L)		44	2.5 U	20	2.5 U	to	327	33	±	13	29
Sulfate (mg/L)		↑19	8.6	12	1.6	to	15	4.8	±	0.63	29
Bicarbonate Alkalinity (CaCO3) (mg/L)		21	42	29	9.3	to	64	32	±	2.7	29
Organic Carbon (mg/L)		6.2	13	19 M10	2.6	to	24	9.3	±	0.78	29
Chloride (mg/L)		17	13	8.6	3	to	19.8	6.8	±	0.64	29
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	20
Turbidity (field) (NTU)		3.1	2.1	4.6	0.5	to	6.5	2.8	±	0.3	29
Methane (ug/L)		20 U	38	300	20 U	to	690	140	±	72	9

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEGPW16=20 mg/L, Manganese MEGPW16=0.3 mg/L, Iron MEGPW16=5 mg/L, Arsenic MEGPW16=0.01 mg/L, MCL-pw=0.01 mg,

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

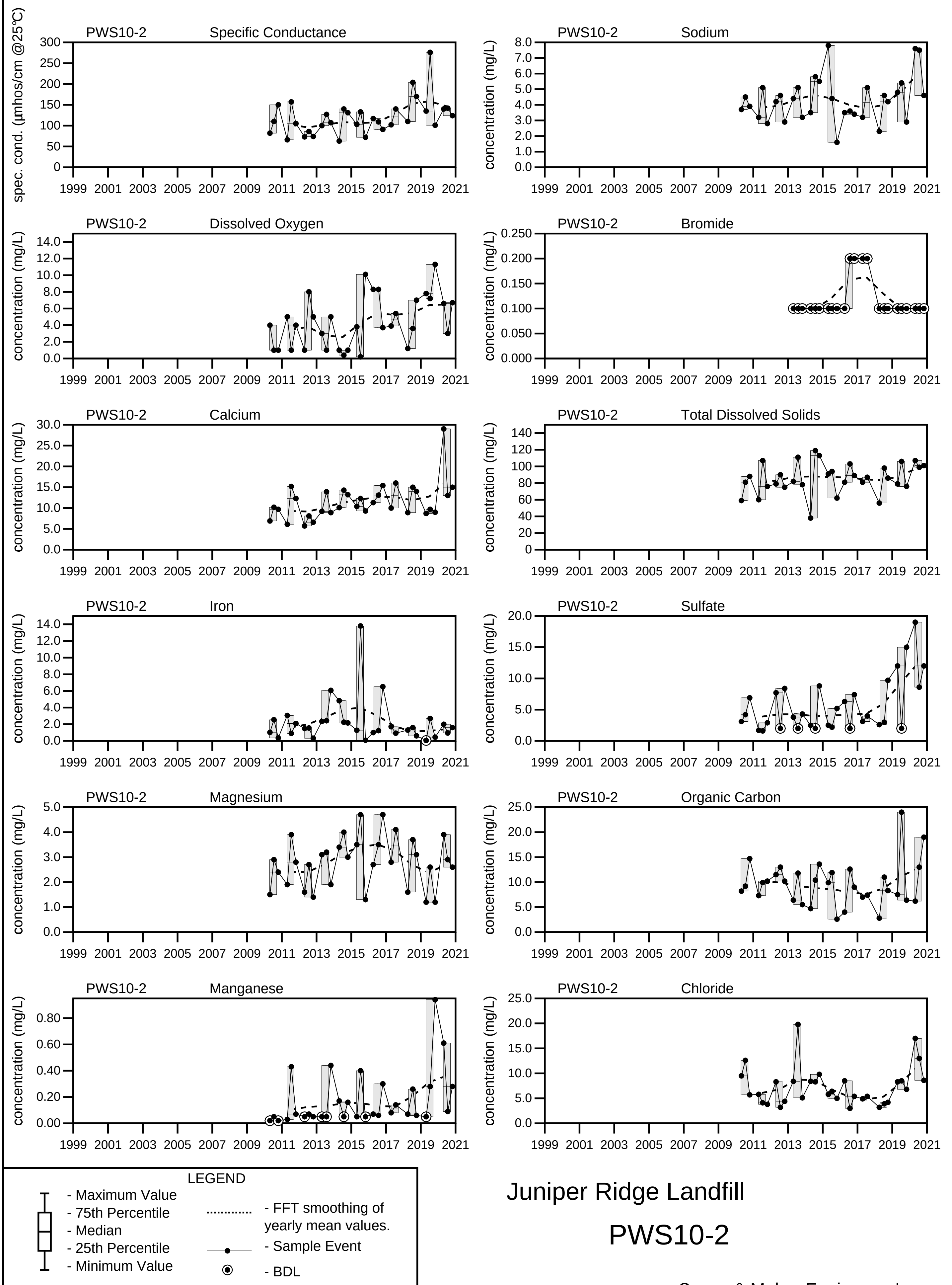
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 535

Printed: 3/22/2021 08:33

SME SEVEE & MAHER ENGINEERS



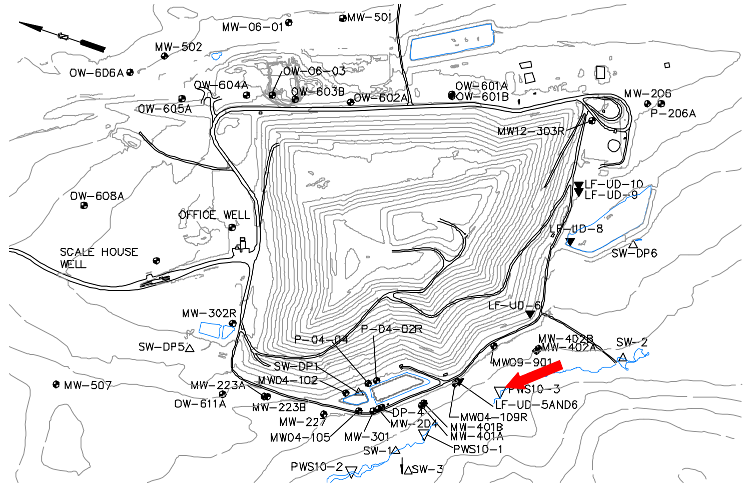
Juniper Ridge Landfill

PWS10-2

Sevee & Maher Engineers, Inc.

Well Description

PWS10-3 is a pore water sampling location along the unnamed tributary tc Pushaw stream. PWS10-3 is downgradient of the landfill.



Sampled: **3 Times Annually**

Sampled Since: **04/26/2010**

Sampling Method: **Low Flow**

Chemical Summary

Indicator Parameters	Q1 (2020)	Q2 (2020)	Q3 (2020)	Q4 (2020)	Min (Historical (1/1/1980 - 12/31/2020))	Max	Mean	SE	n
Specific Conductance (μmhos/cm @25°C)		54	144	197	42	to 222	110	± 9.8	27
pH (STU)		6.8	5.3	5.9	5	to 7.4	6.2	± 0.13	27
Temperature (Deg C)		5.5	22.3	6.1	2.7	to 26.8	13	± 1.3	27
Eh (mV)		314	208	↑540	-7	to 463	250	± 25	27
Dissolved Oxygen (mg/L)		5.8	↓0.3	7	0.8	to 10.3	4.5	± 0.59	27
Arsenic (mg/L)		0.005 U	0.007	0.005 U	0.002 U	to 0.011	0.0056	± 0.000	27
Calcium (mg/L)		6	13	9.3	3	to 25	9.7	± 1.1	27
Iron (mg/L)		0.3	**13**	2.8	0.17	to 20.8	3.3	± 0.86	27
Magnesium (mg/L)		1.7	3.5	3.1	0.7	to 5	2.7	± 0.21	27
Manganese (mg/L)		0.05 U	↑**2.8**	**1**	0.02	to 1.48	0.22	± 0.058	27
Potassium (mg/L)		0.7	0.4	0.7	0.1	to 2.6	0.66	± 0.099	27
Sodium (mg/L)		1.9	3	4.1	0.5	to 8.6	4.5	± 0.3	27
Nitrite/Nitrate - (N) (mg/L)		0.14	0.092	0.054	0.05 U	to 2 U	0.43	± 0.19	12
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.15	0.1	0.03	to 0.5	0.12	± 0.024	27
Total Dissolved Solids (mg/L)		61	129	106	29	to 141	92	± 4.7	27
Total Suspended Solids (mg/L)		↓2.5 U	11	53	3.3	to 489	41	± 18	27
Sulfate (mg/L)		2	2 U	3.9	0.6 U	to 47.3	5.4	± 1.8	27
Bicarbonate Alkalinity (CaCO3) (mg/L)		22	51	25	5.8	to 87	32	± 4.4	27
Organic Carbon (mg/L)		11	↑30	↑34 M10	2 U	to 27	13	± 1.2	27
Chloride (mg/L)		1	1.8	7.8	1 U	to 15	5	± 0.57	27
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to 0.2 U	0.12	± 0.009	18
Turbidity (field) (NTU)		2.5	3.1	4.1	0.8	to 18.3	4.3	± 0.68	27
Methane (ug/L)		20 U	↑4000	44	20 U	to 280	91	± 37	9

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Sodium MEGPW16=20 mg/L, Manganese MEGPW16=0.3 mg/L, Iron MEGPW16=5 mg/L, Arsenic MEGPW16=0.01 mg/L, MCL-pw=0.01 mg/

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

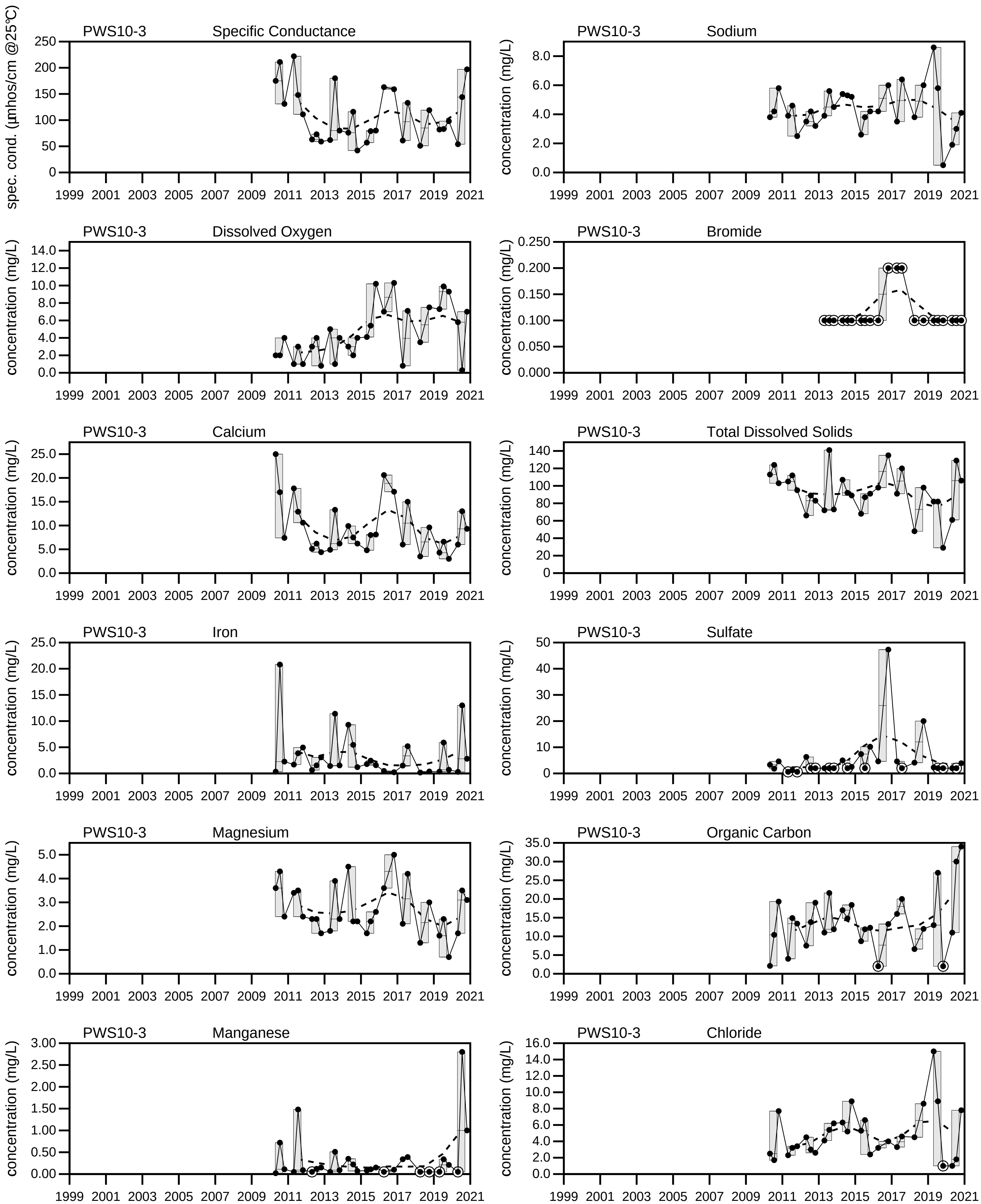
U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 535

Printed: 3/22/2021 08:33

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

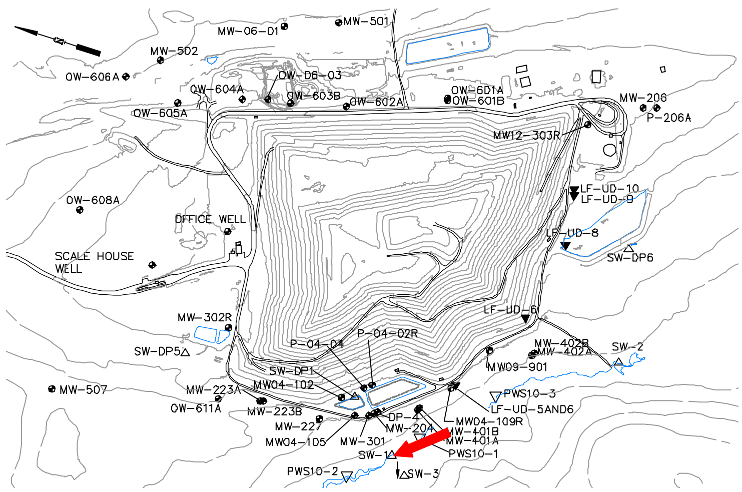
Juniper Ridge Landfill

PWS10-3

Sevee & Maher Engineers, Inc.

Well Description

SW-1 is located downgradient of the landfill and monitors surface water quality in an unnamed tributary to Pushaw Stream.



Sampled:	**3 Times Annually**
Sampled Since:	**11/13/90**
Sampling Method:	**Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (μmhos/cm @25°C)		241	134	175	10	to	345	100	±	6.2	89
pH (STU)		7.3	6.9	7.7	5.8	to	8.2	6.9	±	0.06	89
Temperature (Deg C)		10	24.4	8.9	0	to	27.5	12	±	0.79	89
Eh (mV)		395	288	298	52.7	to	549	300	±	15	58
Dissolved Oxygen (mg/L)		7.7	1.7	4	0.6	to	15.1	5.2	±	0.3	87
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001	to	0.012	0.0048	±	0.000	47
Calcium (mg/L)		24	14	27	3.1	to	48	11	±	0.88	77
Iron (mg/L)		↓0.07	**<u>4.3</u>**	**<u>2.3</u>**	0.08	to	19.4	2	±	0.34	82
Magnesium (mg/L)		6.5	4.8	9.4	0.21	to	10.7	3	±	0.21	77
Manganese (mg/L)		0.05 U	1.1	1.8	0.001	to	4.8	0.22	±	0.062	82
Potassium (mg/L)		1.4	2.8	3.8	0.1	to	5	1	±	0.14	47
Sodium (mg/L)		7.1	8.1	9.8	2.9	to	12	5.7	±	0.19	82
Nitrite/Nitrate - (N) (mg/L)		0.18	0.05 U	0.064	0.05 U	to	2 U	0.27	±	0.13	15
Total Phosphorus Mixed Forms (PO4 and C		0.04	0.09	0.11	0.01 U	to	0.95	0.094	±	0.021	59
Total Dissolved Solids (mg/L)		144	138	196	30	to	230	89	±	3.9	82
Total Suspended Solids (mg/L)		2.5 U	13	46	2.5 U	to	1490	68	±	35	47
Sulfate (mg/L)		11	2 U	15	0.2	to	17	3.6	±	0.35	82
Bicarbonate Alkalinity (CaCO3) (mg/L)		90	55	85	10.6	to	148	40	±	4.8	47
Organic Carbon (mg/L)		5.4	18	↑49 M10	4.5	to	34	12	±	0.49	82
Biochemical Oxygen Demand (mg/L)		3	4	9	1 U	to	12	4.1	±	0.26	59
Chloride (mg/L)		13	12	17	1 U	to	27.6	7.9	±	0.51	82
Bromide (mg/L)		0.1 U	0.13	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		2.1	1.3	1.2	0	to	175	5.5	±	2.6	68

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

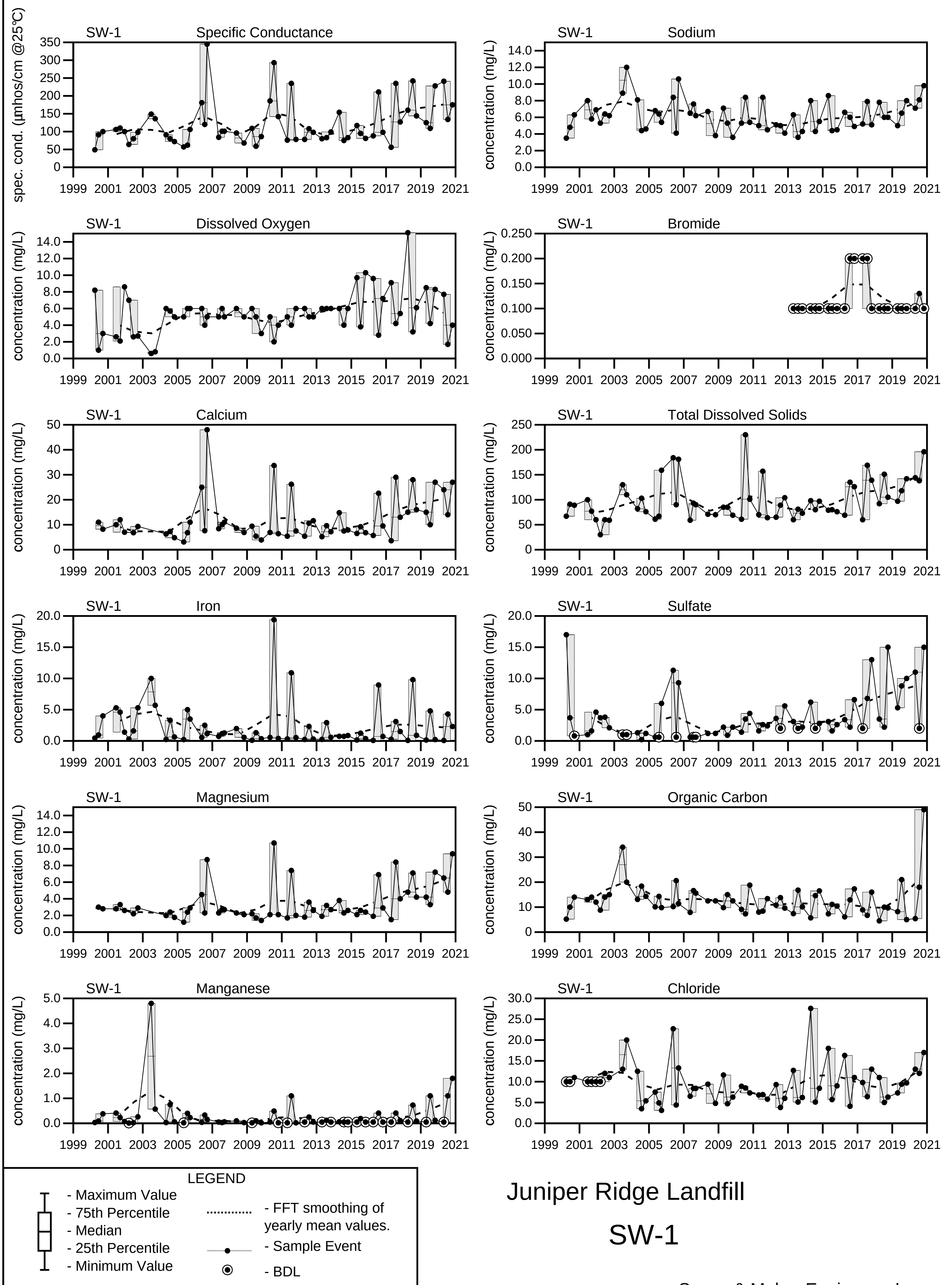
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



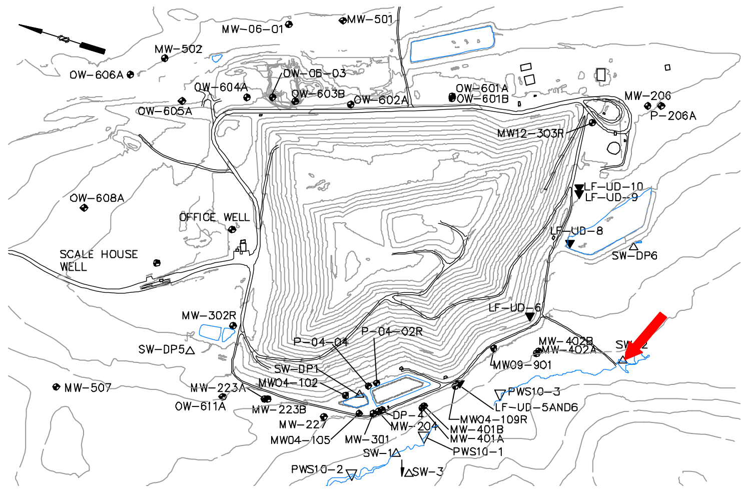
Juniper Ridge Landfill

SW-1

Sevee & Maher Engineers, Inc.

Well Description

SW-2 is located upgradient of the landfill and monitors surface water quali in an unnamed tributary to Pushaw Stream.



Sampled: **3 Times Annually**

Sampled Since: **11/13/90**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	Q1	Q2	Q3	Q4	Min		Max	Mean		SE	n
	2020				Historical (1/1/1980 - 12/31/2020)						
Specific Conductance (µmhos/cm @25°C)		76	68	77	10	to	150	75	±	2.5	95
pH (STU)		6.8	6.9	6.8	5.42	to	8.5	6.7	±	0.066	97
Temperature (Deg C)		7	29.2	8.4	0	to	29.6	13	±	0.87	96
Eh (mV)		369	380	413	69.2	to	516	320	±	14	59
Dissolved Oxygen (mg/L)		7.7	5.5	6	0.4	to	13.7	4.6	±	0.28	95
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	to	0.011	0.004	±	0.000	48
Calcium (mg/L)		4.7	7.3	6.6	0.1 U	to	11	5.9	±	0.23	83
Iron (mg/L)		0.11	**1.2**	0.54	0.03 U	to	8.8	1.1	±	0.12	89
Magnesium (mg/L)		1.9	2.7	2.6	0.1 U	to	3.7	2.1	±	0.069	83
Manganese (mg/L)		0.05 U	0.08	0.05 U	0.003	to	0.43	0.092	±	0.008	89
Potassium (mg/L)		0.3	0.5	0.4	0.1 U	to	1.7	0.55	±	0.05	48
Sodium (mg/L)		5.2	5.4	5.4	1 U	to	14	5.4	±	0.23	89
Nitrite/Nitrate - (N) (mg/L)		0.084	0.05 U	0.05 U	0.05 U	to	2 U	0.25	±	0.13	15
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.04	0.04 U	0.01	to	0.43	0.055	±	0.009	62
Total Dissolved Solids (mg/L)		61	113	87	2	to	131	71	±	2.2	89
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	89	11	±	2.5	48
Sulfate (mg/L)		2.8	2 U	4.3	0.1 U	to	9.2	2.2	±	0.18	89
Bicarbonate Alkalinity (CaCO3) (mg/L)		14	33	13	8.5	to	46	19	±	1.2	48
Organic Carbon (mg/L)		7.2	21	28 M10	1 U	to	30	14	±	0.52	89
Biochemical Oxygen Demand (mg/L)		2 U	2	1 U	1 U	to	42	4.9	±	0.68	61
Chloride (mg/L)		12	4.3	9.8	2 U	to	23	8.1	±	0.48	89
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		2.1	1.6	1.2	0	to	10	1.8	±	0.23	71

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

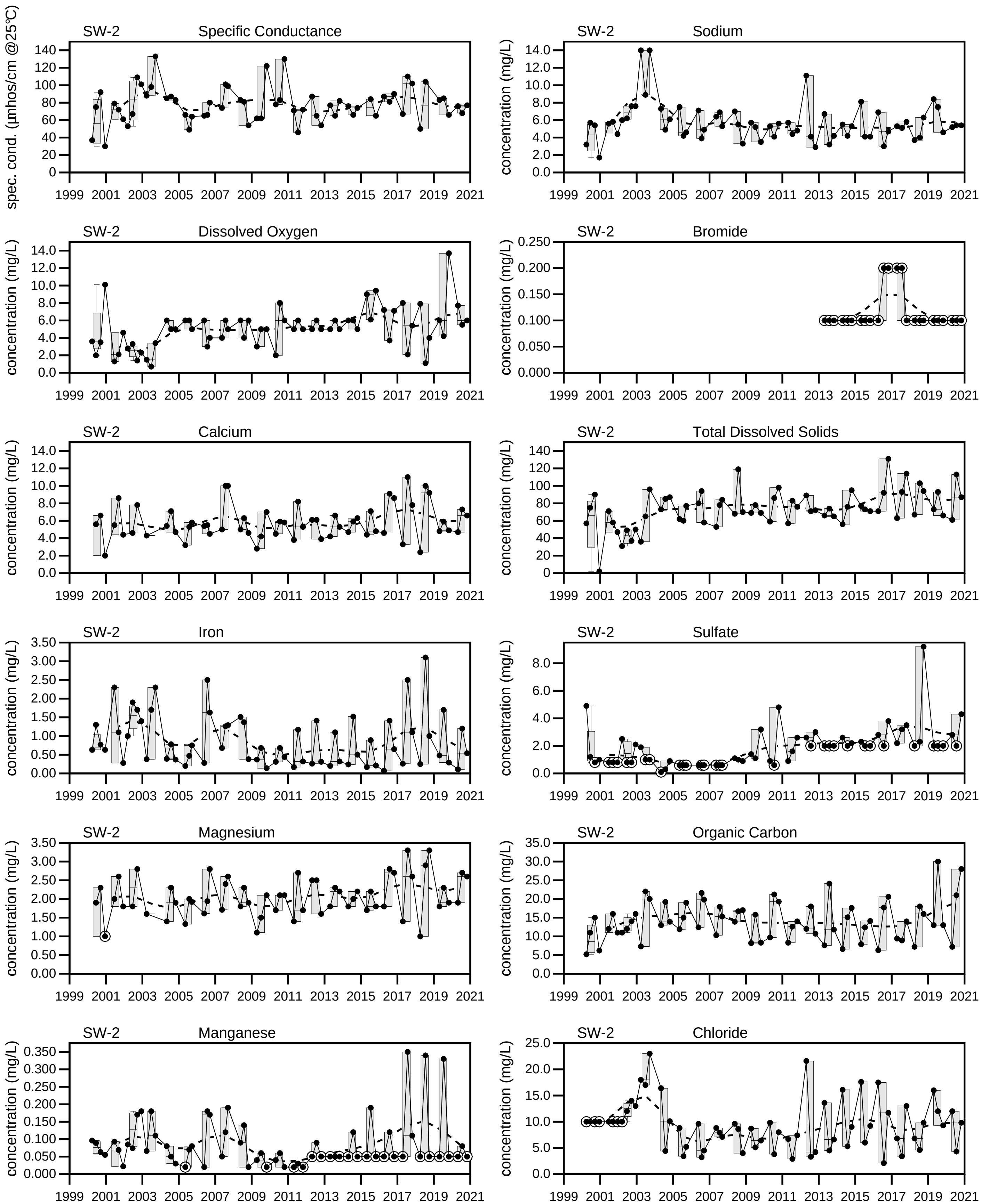
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 536
Printed: 3/22/2021 08:52

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

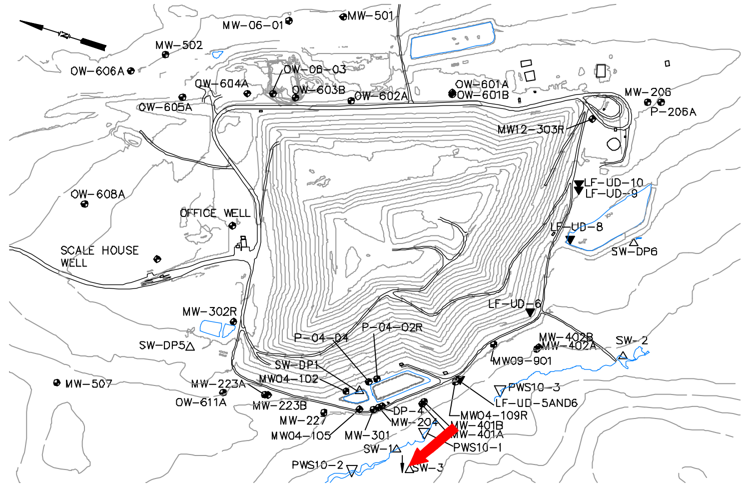
Juniper Ridge Landfill

SW-2

Sevee & Maher Engineers, Inc.

Well Description

SW-3 is located downgradient of the landfill and monitors surface water quality in an unnamed tributary of Pushaw Stream.



Sampled: **3 Times Annually**

Sampled Since: **05/26/94**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (μmhos/cm @25°C)		73	94	78	20	to	151	83	±	2.9	82
pH (STU)		7.7	7.2	7.6	5.4	to	8.8	6.9	±	0.079	82
Temperature (Deg C)		8.8	23.1	8.4	0	to	27.4	12	±	0.82	82
Eh (mV)		359	373	403	23.8	to	507	310	±	14	60
Dissolved Oxygen (mg/L)		9.9	3.4	8.1	1	to	12.6	5.9	±	0.3	81
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	to	0.008	0.0037	±	0.000	48
Calcium (mg/L)		4.3	8.6	7.4	2.8	to	12	7	±	0.27	74
Iron (mg/L)		0.3	**1.4**	0.53	0.17	to	3.5	0.87	±	0.077	81
Magnesium (mg/L)		1.2	2.6	2.1	0.47	to	3.1	1.9	±	0.066	74
Manganese (mg/L)		0.06	0.48	0.06	0.004	to	1.3	0.16	±	0.025	81
Potassium (mg/L)		0.5	1	1.2	0.2	to	2.4	0.66	±	0.059	48
Sodium (mg/L)		6.4	7.2	5	2.4	to	11	4.8	±	0.16	81
Nitrite/Nitrate - (N) (mg/L)		0.1	0.05 U	0.065	0.05 U	to	2 U	0.27	±	0.13	15
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.04 U	0.04 U	0.01 U	to	0.4	0.044	±	0.007	57
Total Dissolved Solids (mg/L)		56	108	73	31	to	210	74	±	2.7	81
Total Suspended Solids (mg/L)		2.5 U	2.5 U	2.5 U	2.5 U	to	17	4.5	±	0.4	48
Sulfate (mg/L)		3	2 U	6.4	0.4	to	35	3.9	±	0.52	81
Bicarbonate Alkalinity (CaCO3) (mg/L)		13	31	26	10	to	43	22	±	1.3	48
Organic Carbon (mg/L)		8.1	12	17 M10	5.7	to	40	12	±	0.49	81
Biochemical Oxygen Demand (mg/L)		2 U	1	1 U	1 U	to	7	4.2	±	0.23	57
Chloride (mg/L)		9.9	12	18	1 U	to	20	6.8	±	0.39	81
Bromide (mg/L)		0.1 U	0.1 U	0.11	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		1.4	0.9	0.8	0	to	16	1.6	±	0.28	70

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

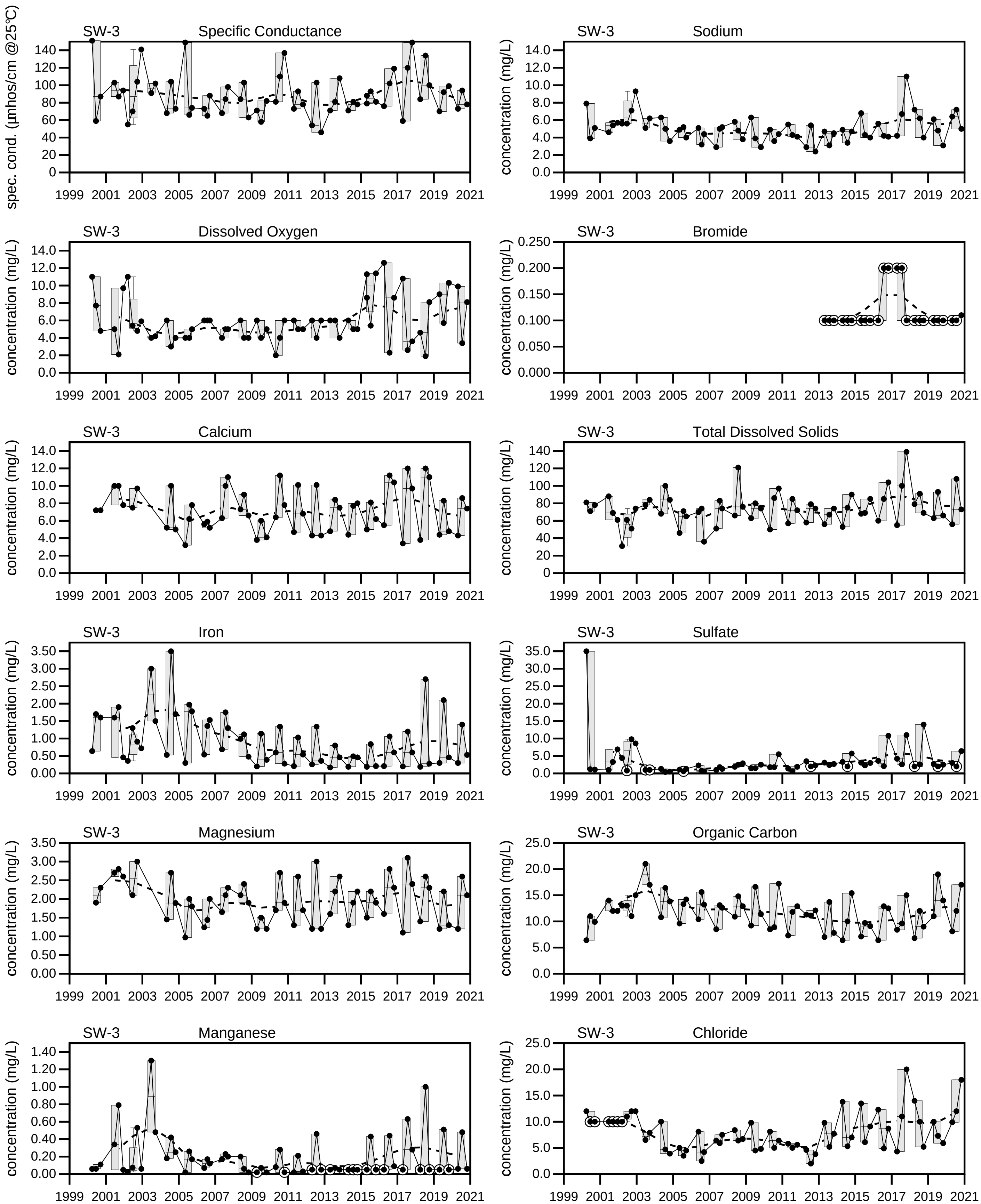
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

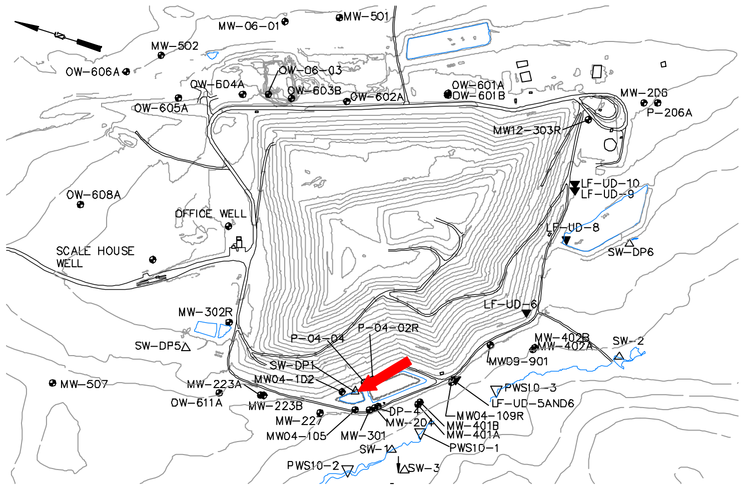
Juniper Ridge Landfill

SW-3

Sevee & Maher Engineers, Inc.

Well Description

SW-DP1 is located in Detention Pond #1 which is situated to the north of the former leachate pond.



Sampled: **3 Times Annually**

Sampled Since: **05/03/04**

Sampling Method: **Grab**

Chemical Summary

	2020				Historical (1/1/1980 - 12/31/2020)				
Indicator Parameters	Q1	Q2	Q3	Q4	Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)		↑439	206	148	34	to 400	140	± 10	48
pH (STU)		7.8	7.6	7.7	6.3	to 9.4	7.5	± 0.1	48
Temperature (Deg C)		9.5	27	7.5	1.9	to 31.1	17	± 1.1	48
Eh (mV)		356	358	261	200	to 486	330	± 11	48
Dissolved Oxygen (mg/L)		12	8.8	8.3	0.8	to 12.5	6.7	± 0.3	48
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	to 0.013	0.0044	± 0.000	48
Calcium (mg/L)		24	31	23	3.8	to 40	18	± 1.1	48
Iron (mg/L)		0.39	0.78	**<u>1.5</u>**	0.05	to 2.94	0.48	± 0.078	48
Magnesium (mg/L)		4	3.4	2.2	0.4	to 7.6	2.6	± 0.23	48
Manganese (mg/L)		0.11	0.69	0.32	0.02	to 0.88	0.091	± 0.018	48
Potassium (mg/L)		12	2.9	5.3	0.3 U	to 25	2.5	± 0.61	48
Sodium (mg/L)		↑27	8.8	3.2	0.8	to 25	3.9	± 0.6	48
Nitrite/Nitrate - (N) (mg/L)		0.55	0.05 U	0.051	0.05 U	to 2 U	0.27	± 0.13	15
Total Phosphorus Mixed Forms (PO4 and		0.04	0.12	0.12	0.01 U	to 0.15	0.046	± 0.004	48
Total Dissolved Solids (mg/L)		251	164	114	44	to 262	94	± 6.2	48
Total Suspended Solids (mg/L)		8	31	25	2.5 U	to 115	11	± 2.7	48
Sulfate (mg/L)		22	22	23	0.2	to 30	9.1	± 0.85	48
Bicarbonate Alkalinity (CaCO3) (mg/L)		59	83	52	7.2	to 170	48	± 4.4	48
Organic Carbon (mg/L)		5.4	5.8	12 M10	2 U	to 13.3	3.8	± 0.38	48
Chloride (mg/L)		↑79	12	6.3	1.4	to 15.2	5.3	± 0.46	48
Bromide (mg/L)		↑1.1	↑0.22	0.1 U	0.1 U	to 0.2 U	0.12	± 0.009	21
Turbidity (field) (NTU)		1.7	2.2	0.8	0	to 28.1	3.6	± 0.78	48

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

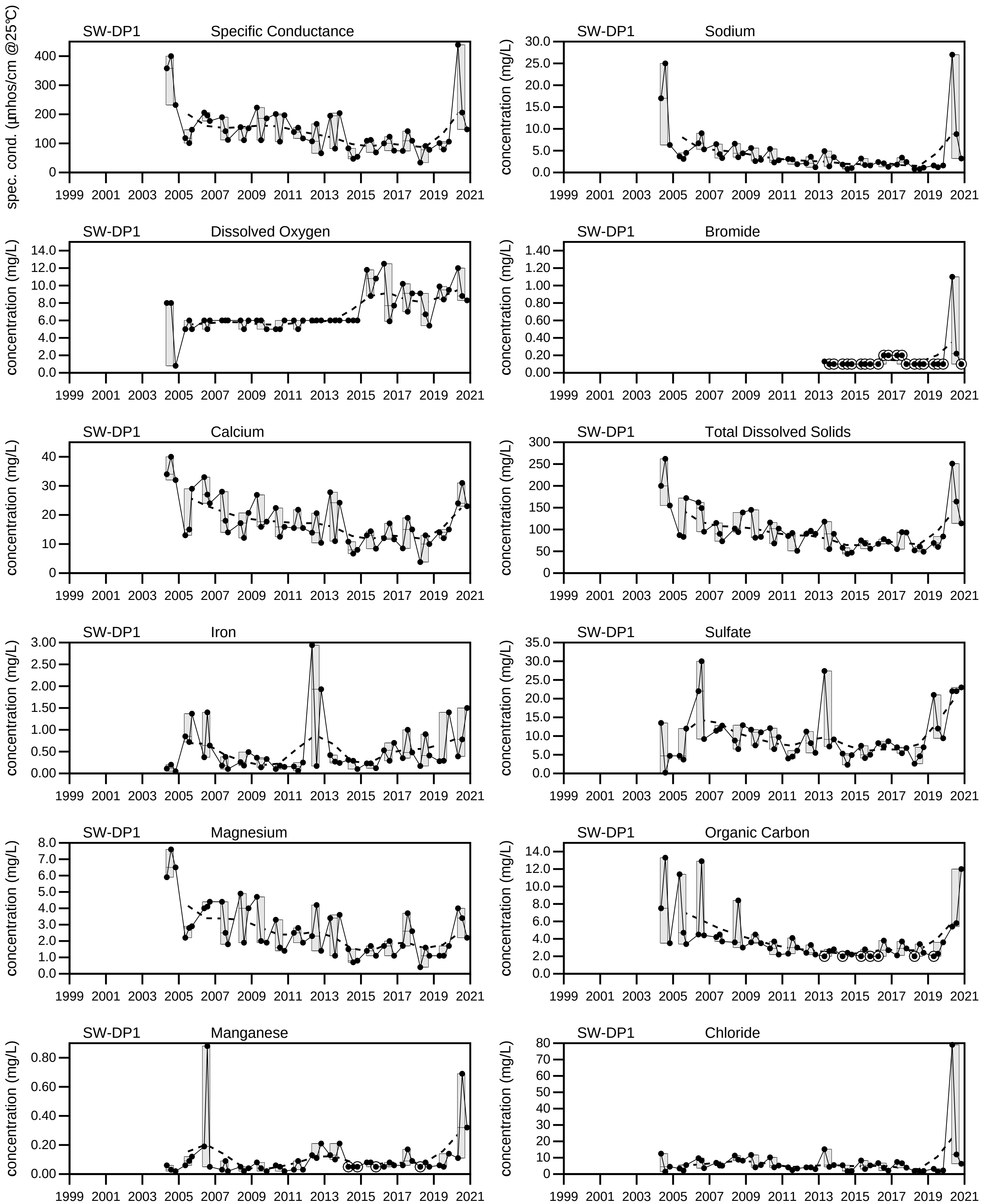
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 540
Printed: 3/22/2021 11:33

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

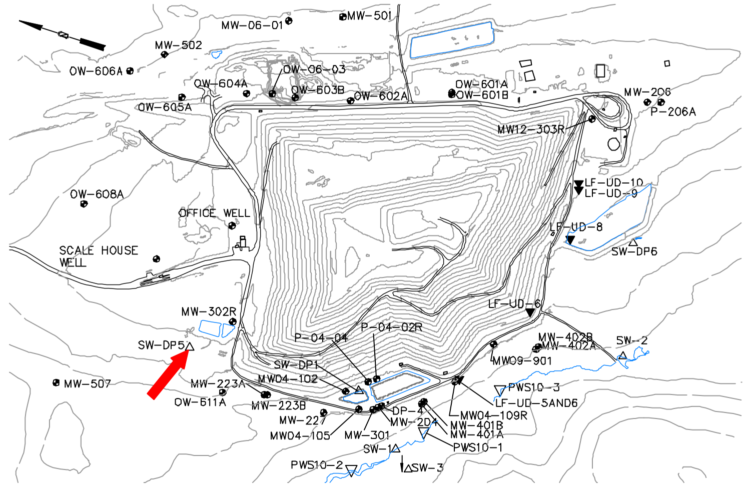
Juniper Ridge Landfill

SW-DP1

Sevee & Maher Engineers, Inc.

Well Description

Sample collected from outfall on the west side of Detention Pond #5.



Sampled: **3 Times Annually**

Sampled Since: **4/23/2013**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	Q1	Q2	Q3	Q4	Min		Max	Mean		SE	n
	2020				Historical (1/1/1980 - 12/31/2020)						
Specific Conductance (µmhos/cm @25°C)		173	126	82	51	to	208	140	±	13	12
pH (STU)		8.1	7.8	↑8.5	6.9	to	8.3	7.6	±	0.14	12
Temperature (Deg C)		10.1	30.3	10.2	8.7	to	30.7	18	±	2.6	12
Eh (mV)		333	328	320	218	to	459	330	±	24	12
Dissolved Oxygen (mg/L)		12.6	6.8	10.5	5	to	15.2	7.9	±	0.86	12
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.005 U	to	0.01	0.0058	±	0.000	12
Calcium (mg/L)		22	22	13	5.3	to	29	18	±	1.8	12
Iron (mg/L)		0.49	0.62	**<u>1.2</u>**	0.23	to	1.7	0.57	±	0.15	12
Magnesium (mg/L)		1.2	1.4	1	0.5	to	1.8	1.2	±	0.12	12
Manganese (mg/L)		0.17	↑0.27	0.19	0.05 U	to	0.25	0.12	±	0.02	12
Potassium (mg/L)		1.4	1.8	1.5	0.7	to	2.6	1.6	±	0.16	12
Sodium (mg/L)		3.7	2.2	1.5	1.2	to	8.6	3	±	0.64	12
Nitrite/Nitrate - (N) (mg/L)		0.14	0.05 U	0.089	0.05	to	2 U	0.46	±	0.26	7
Total Phosphorus Mixed Forms (PO4 and		0.04	0.05	0.08	0.04 U	to	0.1	0.058	±	0.005	12
Total Dissolved Solids (mg/L)		101	126	69	47	to	137	95	±	7.4	12
Total Suspended Solids (mg/L)		14	5	14	2.5 U	to	50	14	±	3.9	12
Sulfate (mg/L)		36	22	14	2.5	to	38.1	22	±	3.4	12
Bicarbonate Alkalinity (CaCO3) (mg/L)		33	47	30	9	to	57	30	±	3.9	12
Organic Carbon (mg/L)		2.5	3.6	↑6.7 M10	2 U	to	5.6	2.9	±	0.35	12
Chloride (mg/L)		6.8	2.3	1.9	1.6	to	20.9	7.1	±	2	12
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.11	±	0.008	12
Turbidity (field) (NTU)		1.6	0.6	0.6	0.4	to	9.8	2.4	±	0.74	12

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

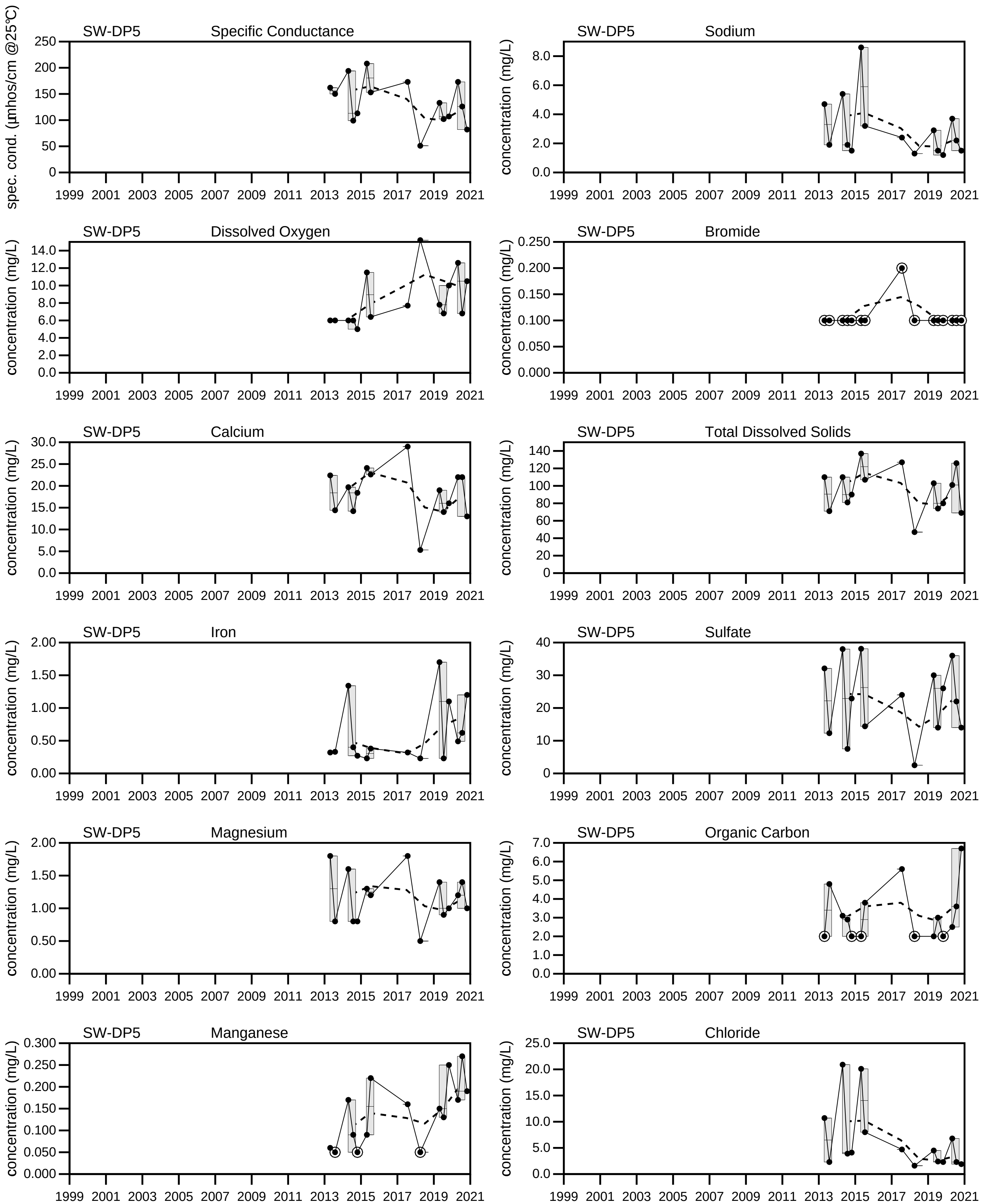
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

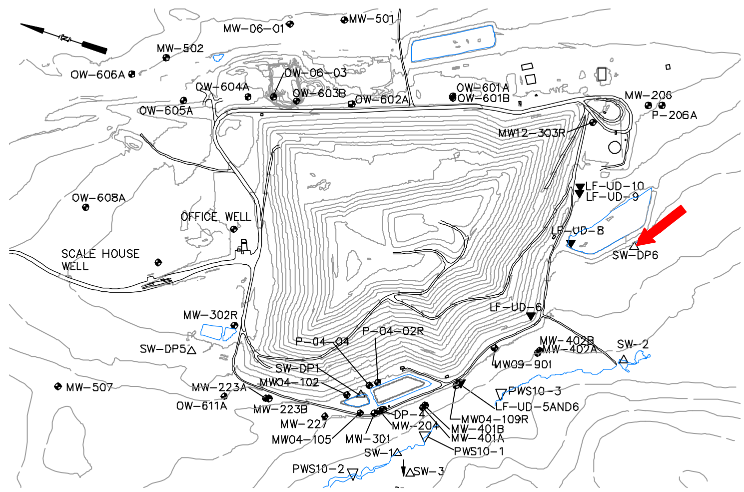
Juniper Ridge Landfill

SW-DP5

Sevee & Maher Engineers, Inc.

Well Description

SW-DP6 is located in Detention Pond #6, which is situated to the south of the landfill and west of the leachate storage tank.



Sampled: **3 Times Annually**

Sampled Since: **10/27/2009**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	Q2	Q3	Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)		55	71	91	50	to	427	130	±	16	31
pH (STU)		7.3	8.4	8.2	6.2	to	8.4	7.2	±	0.095	31
Temperature (Deg C)		11.4	27.1	9.4	2.4	to	29.6	16	±	1.5	31
Eh (mV)		397	294	330	212	to	547	360	±	15	31
Dissolved Oxygen (mg/L)		9.6	5.9	10.1	4.5	to	11.7	6.7	±	0.36	31
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.002 U	to	0.011	0.0052	±	0.000	31
Calcium (mg/L)		4.6	7.8	10	4.6	to	63.3	15	±	2.2	31
Iron (mg/L)		0.4	0.73	0.9	0.1	to	3.05	0.91	±	0.14	31
Magnesium (mg/L)		0.7	1.1	1.4	0.7	to	7.3	1.9	±	0.23	31
Manganese (mg/L)		0.05 U	0.2	0.09	0.05 U	to	0.96	0.15	±	0.039	31
Potassium (mg/L)		0.8	1.4	1.9	0.7	to	3.4	1.6	±	0.12	31
Sodium (mg/L)		2.6	2.4	1.6	1.3	to	7.5	3.4	±	0.31	31
Nitrite/Nitrate - (N) (mg/L)		0.056	0.05 U	0.058	0.05 U	to	2 U	0.25	±	0.13	15
Total Phosphorus Mixed Forms (PO4 and		0.05	0.04	0.06	0.03	to	0.14	0.058	±	0.005	31
Total Dissolved Solids (mg/L)		↓38	83	65	43	to	323	97	±	10	31
Total Suspended Solids (mg/L)		6.7	8	13	2.5 U	to	54	12	±	2.4	31
Sulfate (mg/L)		10	16	24	2 U	to	155	21	±	4.8	31
Bicarbonate Alkalinity (CaCO3) (mg/L)		8.4	13	14	6	to	75	24	±	3.4	31
Organic Carbon (mg/L)		3.3	6.1	5.8 M10	2.1	to	11.9	5.2	±	0.4	31
Chloride (mg/L)		4.3	2.3	1.8	1.1	to	22.3	7.9	±	1	31
Bromide (mg/L)		0.1 U	0.1 U	0.1 U	0.1 U	to	0.2 U	0.12	±	0.009	21
Turbidity (field) (NTU)		1.3	0.8	0.7	0	to	12	2.8	±	0.46	31

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:
Chloride MFCCC=230 mg/L, Iron MFCCC=1 mg/L, Arsenic MFCCC=0.15 mg/L

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

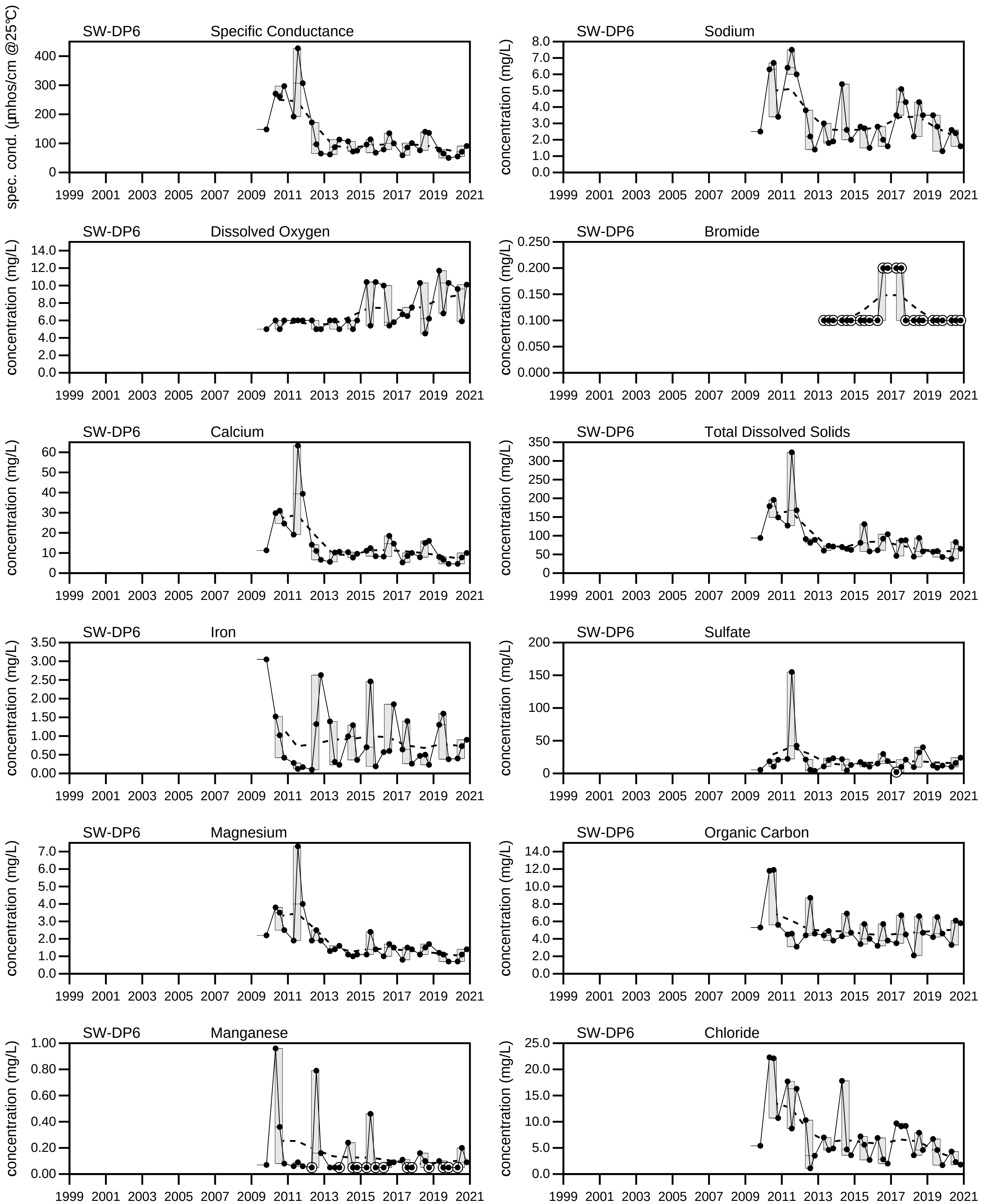
Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

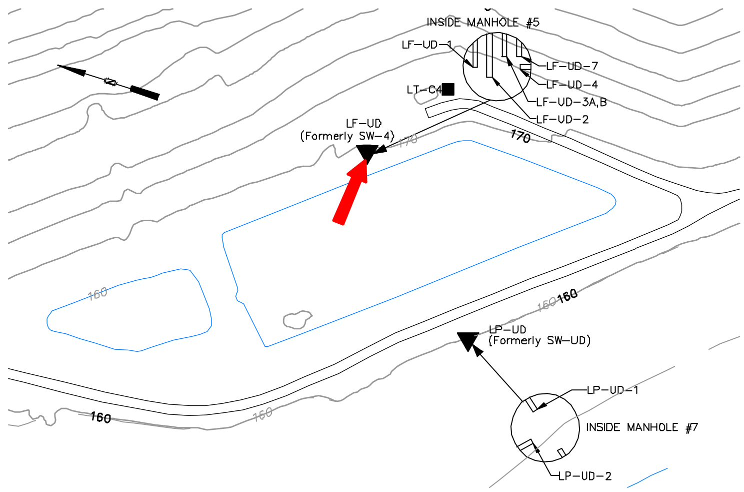
Juniper Ridge Landfill

SW-DP6

Sevee & Maher Engineers, Inc.

Well Description

Manhole #5 composite sample



Sampled:

Sampled Since: **See comments below**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	378	438	485	417	194	to	498	370	± 8.7	72
pH (STU)	8.3	8.2	7.2	8.2	6.7	to	8.4	7.4	± 0.049	72
Temperature (Deg C)	12.4	21.9	21.5	15.3	3.2	to	29.7	17	± 0.65	72
Eh (mV)	415	346	409	410	304	to	446	370	± 3.5	72
Dissolved Oxygen (mg/L)	6	6	6	8	4	to	10	7	± 0.15	70
Alkalinity (CaCO3) (field) (mg/L)	200	210	250	250	80	to	250	160	± 4.3	72
Turbidity (field) (NTU)	2.4	2.8	14.2	67.9	0	to	129.3	3.9	± 1.8	71

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

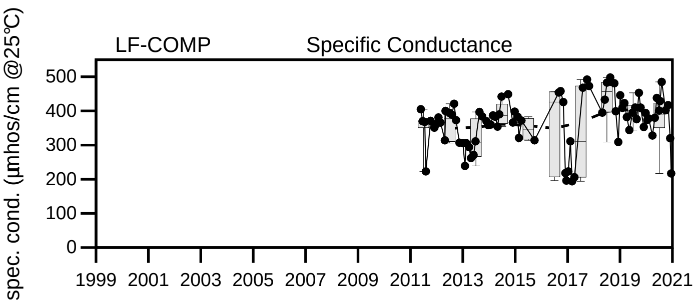
During times when LF-UD-1, LF-UD-2, LF-UD-3A & B, LF-UD-4, and LF-UD-7 have not been able to be sampled seperately due to pipe submergence, LF COMP has been collected from manhole #5. Field parameters are measured at this location during some monthly monitoring rounds by NEWSME.

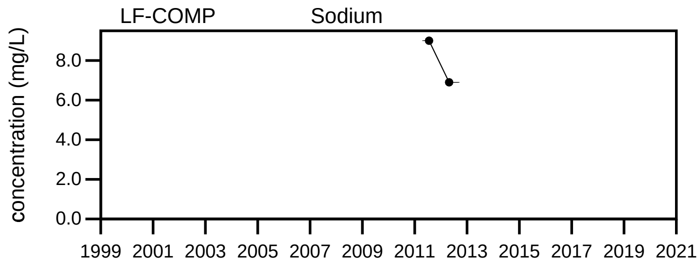
Q1= 1 - 2020

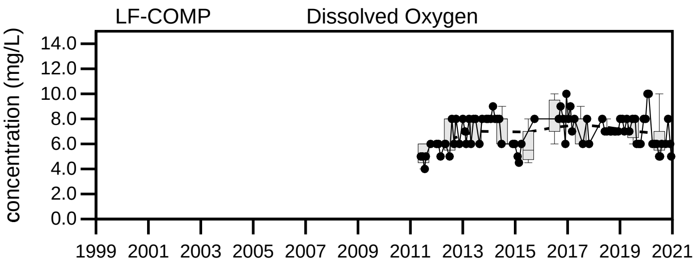
Q2= 4 - 2020

Q3= 7 - 2020

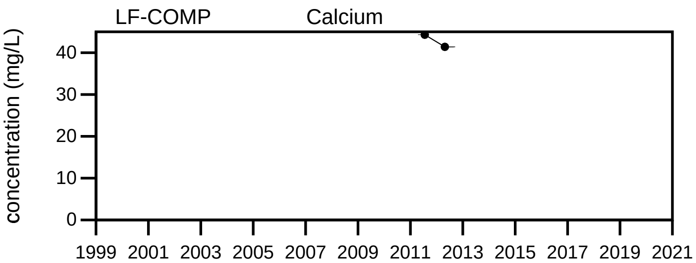
Q4= 10 - 2020

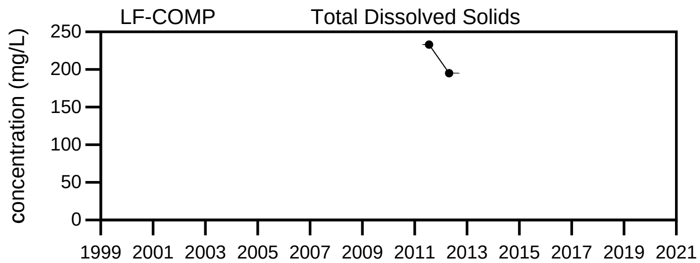


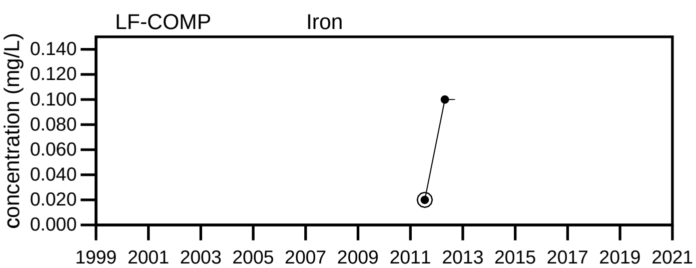


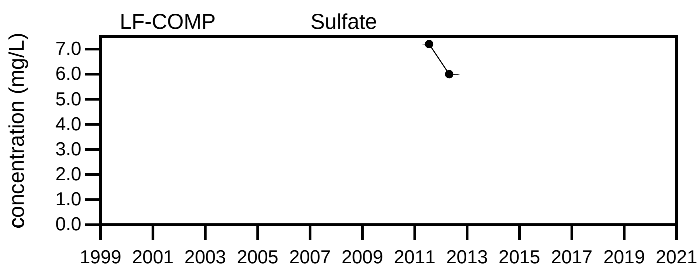


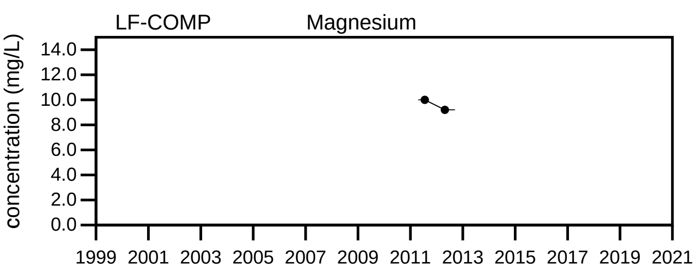
No data for Bromide at LF-COMP

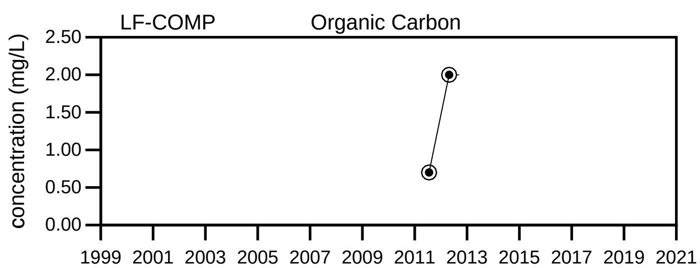


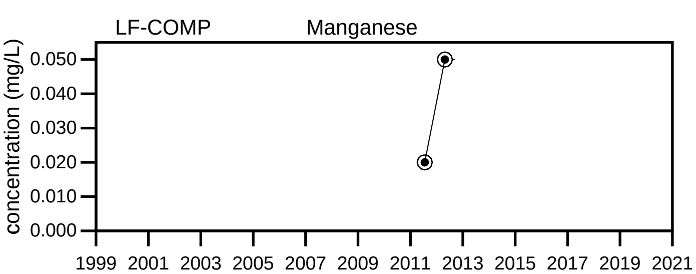


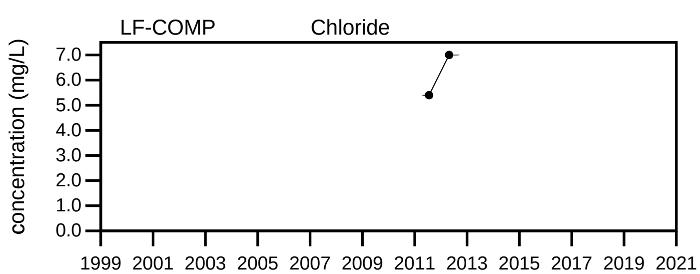












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

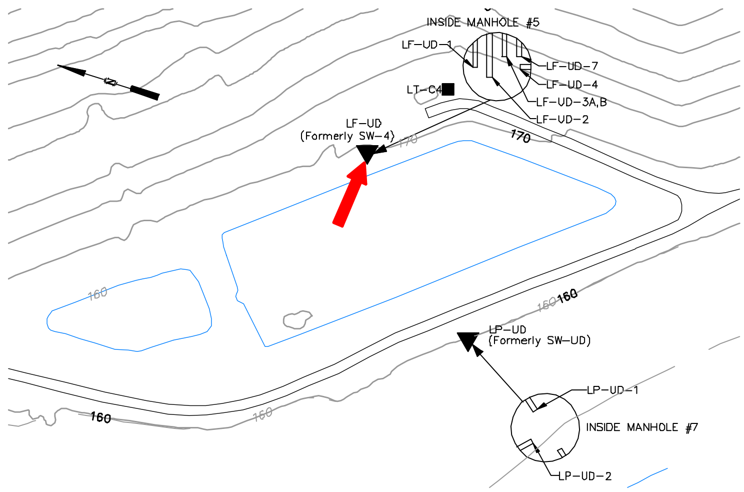
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

LF-COMP

Sevee & Maher Engineers, Inc.

Well Description



LF-UD-1 monitors the landfill underdrain from Cell #1 at Manhole #5.

Sampled: **Monthly & 3 Times Annually**

Sampled Since: **07/28/04**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	H8	H8	H8	H8	102	to	611	330	±	6	139
pH (STU)	H8	H8	H8	H8	6.3	to	8.4	7.3	±	0.042	139
Temperature (Deg C)	H8	H8	H8	H8	0.6	to	25.9	14	±	0.44	139
Eh (mV)	H8	H8	H8	H8	173	to	524	340	±	5.3	139
Dissolved Oxygen (mg/L)	H8	H8	H8	H8	2	to	11	6.6	±	0.14	138
Flow Rate (cfs)	H8	H8	H8	H8	0.00002	to	0.0067	0.0012	±	0.000	119
Arsenic (mg/L)		F6	F6	F6	0.001	to	0.015	0.0058	±	0.000	30
Calcium (mg/L)		F6	F6	F6	25	to	58	43	±	1.7	30
Iron (mg/L)		F6	F6	F6	0.02 U	to	4.57	0.22	±	0.15	30
Magnesium (mg/L)		F6	F6	F6	7.4	to	14	10	±	0.29	30
Manganese (mg/L)		F6	F6	F6	0.02 U	to	0.1	0.034	±	0.004	30
Potassium (mg/L)		F6	F6	F6	1.8	to	4.1	3	±	0.14	30
Sodium (mg/L)		F6	F6	F6	5.8	to	10	8	±	0.19	30
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	0.07	to	2 U	0.52	±	0.25	7
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	0.01 U	to	0.33	0.039	±	0.011	30
Total Dissolved Solids (mg/L)		F6	F6	F6	130	to	290	200	±	7.1	30
Total Suspended Solids (mg/L)		F6	F6	F6	2.5 U	to	394	23	±	13	30
Sulfate (mg/L)		F6	F6	F6	4.1	to	35	9.6	±	1.2	30
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	110	to	179	150	±	4.2	30
Alkalinity (CaCO3) (field) (mg/L)	H8	H8	H8	H8	40	to	485	140	±	4.2	132
Organic Carbon (mg/L)		F6	F6	F6	0.5 U	to	6.4	1.9	±	0.19	30
Chloride (mg/L)		F6	F6	F6	1.9	to	26	9.1	±	1.5	30
Bromide (mg/L)		F6	F6	F6	0.1 U	to	0.21	0.15	±	0.014	11
Turbidity (field) (NTU)	H8	H8	H8	H8	0	to	8.1	1.1	±	0.11	138

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 H8 = No flow from pipe. See LF-COMP for readings

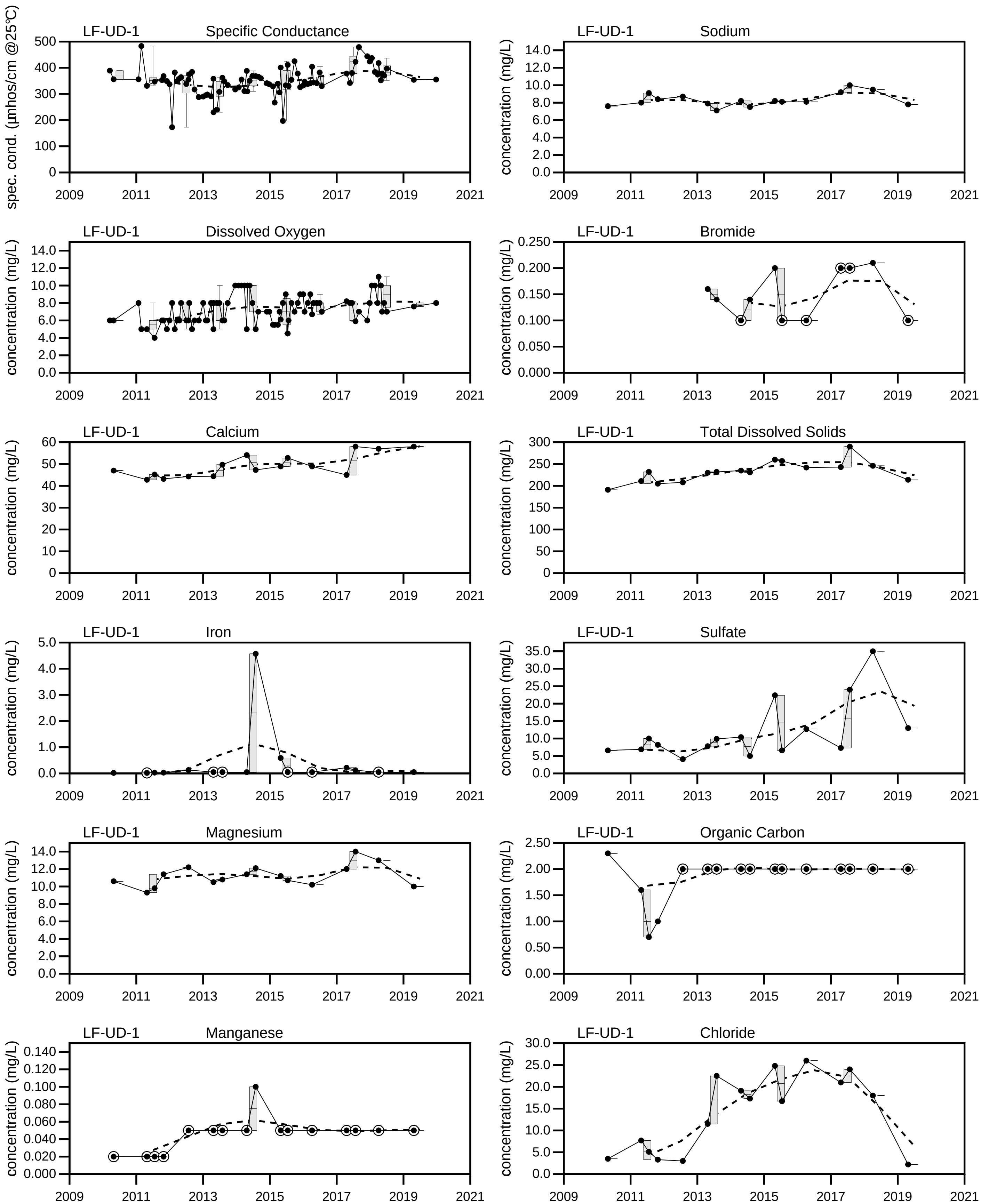
Q2= 4 - 2020

F6 = No flow. Sample not taken.

Q3= 7 - 2020

Q4= 10 - 2020

Data Group: 537
Printed: 3/22/2021 10:52



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

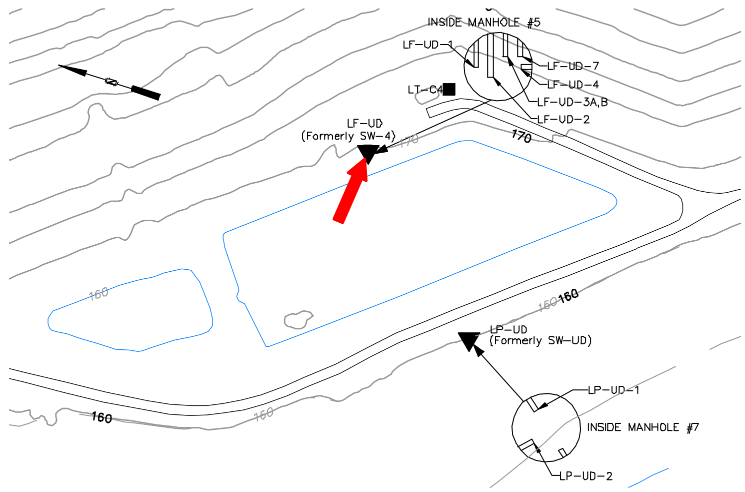
Juniper Ridge Landfill

LF-UD-1

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-2 monitors the landfill underdrain from Cell #2 at Manhole #5.



Sampled: **Monthly & 3 Times Annually**

Sampled Since: **07/28/04**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	to	Max	Mean	±	SE	n
Specific Conductance (μmhos/cm @25°C)	369	439	429	403	134	to	709	330	±	6.5	190
pH (STU)	↑8.5	8.1	8	7.3	6	to	8.4	7.5	±	0.038	190
Temperature (Deg C)	13.2	7.3	22.3	12	2.2	to	28.4	16	±	0.37	190
Eh (mV)	401	349	406	389	168	to	554	340	±	5	190
Dissolved Oxygen (mg/L)	6	7.9	8.2	7.7	2	to	10.2	6.3	±	0.096	188
Flow Rate (cfs)	0.0009	0.0006	0.0006		0.0001	to	0.0223	0.0023	±	0.000	173
Arsenic (mg/L)		0.005 U	0.005	0.005 U	0.001 U	to	0.024	0.0072	±	0.000	43
Calcium (mg/L)		60	65	61	20	to	71.5	44	±	2.2	43
Iron (mg/L)		0.1	↑2.5	0.05 U	0.02 U	to	0.71	0.088	±	0.023	43
Magnesium (mg/L)		11	15	13	6.1	to	15	10	±	0.35	43
Manganese (mg/L)		0.05 U	↑0.13	0.05 U	0.02 U	to	0.05 U	0.035	±	0.002	43
Potassium (mg/L)		3.6	↑5.4	4.3	1.9	to	5	3.1	±	0.12	43
Sodium (mg/L)		9	14	14	5.2	to	18.1	7.6	±	0.37	43
Nitrite/Nitrate - (N) (mg/L)		0.32	0.23	0.2	0.05 U	to	2 U	0.37	±	0.13	14
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.2	0.04 U	0.01 U	to	0.66	0.046	±	0.015	43
Total Dissolved Solids (mg/L)		243	↑307	276	132	to	294	210	±	8.2	43
Total Suspended Solids (mg/L)		16	↑370	2.5 U	2.5 U	to	83	11	±	2.4	43
Sulfate (mg/L)		11	13	14	2 U	to	56	8.6	±	1.5	43
Bicarbonate Alkalinity (CaCO3) (mg/L)		200	↑230	↑230	92	to	220	150	±	5.4	43
Alkalinity (CaCO3) (field) (mg/L)	175	175	250		35	to	350	140	±	3.2	174
Organic Carbon (mg/L)		2 U	2 U	↑43 M10	0.6	to	12	1.9	±	0.28	43
Chloride (mg/L)		10	6.9	3	1.7	to	41.2	12	±	1.6	43
Bromide (mg/L)		0.11	0.1	0.1 U	0.1 U	to	0.2	0.15	±	0.009	20
Turbidity (field) (NTU)	2.3	0.5	1.1	0.4	0	to	8.7	0.99	±	0.11	189

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

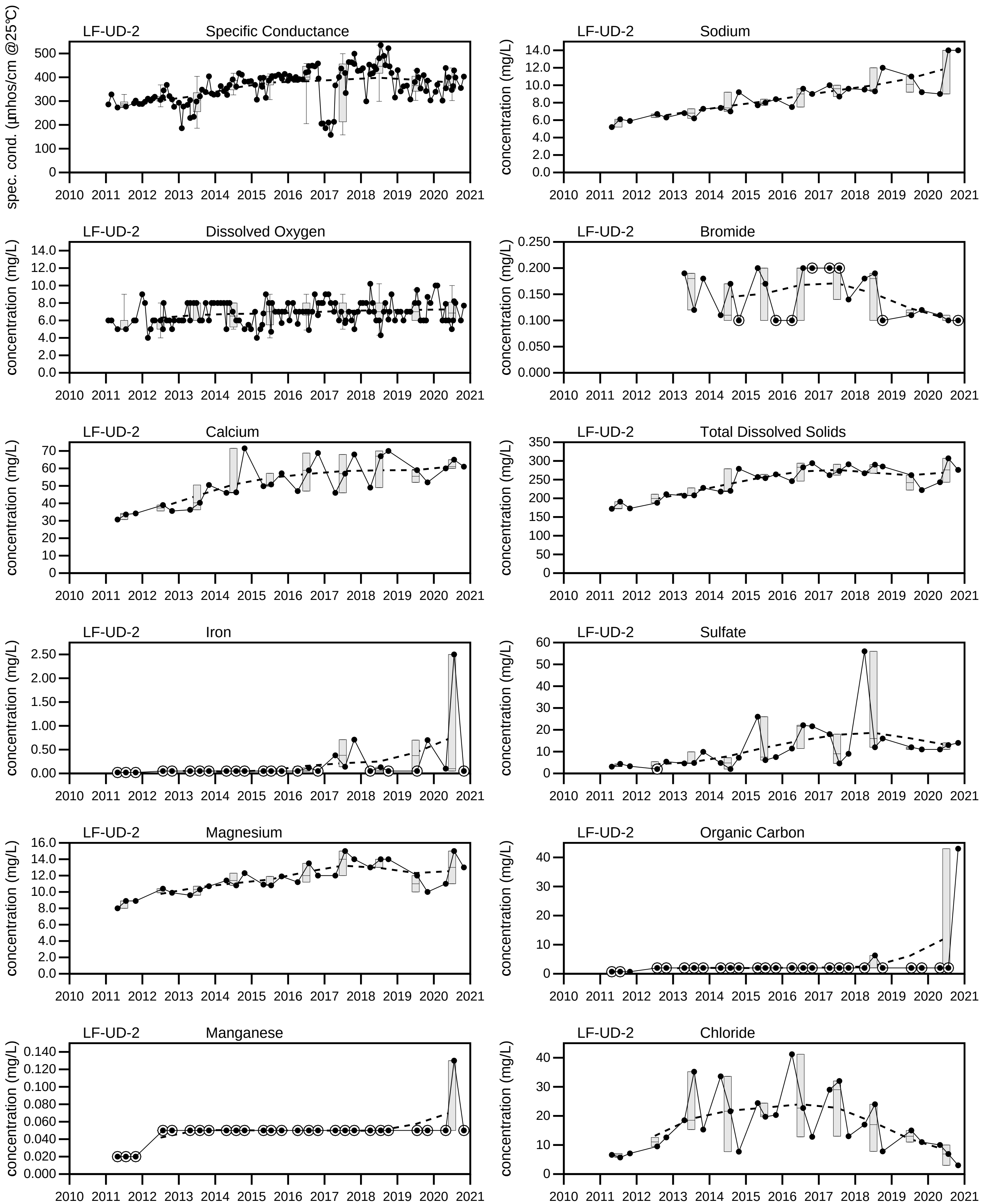
M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

H8 = No flow from pipe. See LF-COMP for readings

Data Group: 537

Printed: 3/22/2021 10:52

SME
SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

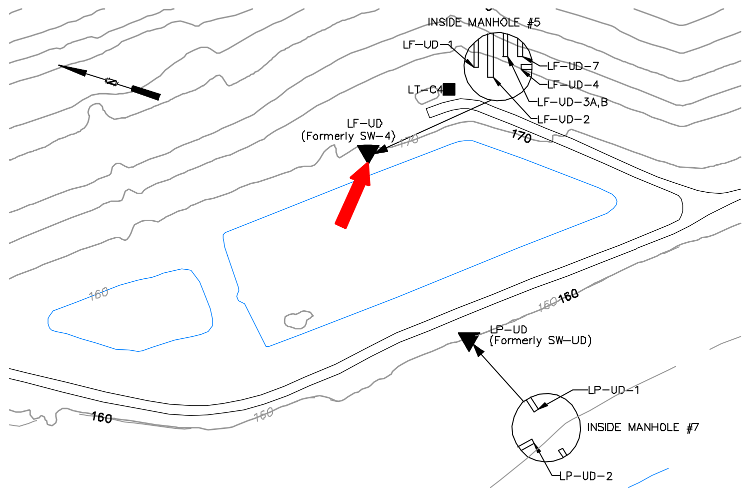
LF-UD-2

Sevee & Maher Engineers, Inc.

LF-UD-3A,B

Well Description

LF-UD-3A, B monitors the landfill underdrains from cell 3A and cell 3B at Manhole #5.



Sampled: **3 Times Annually**

Sampled Since: **July 2011**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	H8	H8	H8	H8	126	to	565	370	±	19	27
pH (STU)	H8	H8	H8	H8	6.2	to	8.4	7.6	±	0.12	27
Temperature (Deg C)	H8	H8	H8	H8	5	to	19.8	13	±	0.82	27
Eh (mV)	H8	H8	H8	H8	94	to	447	290	±	13	27
Dissolved Oxygen (mg/L)	H8	H8	H8	H8	4	to	8	5.6	±	0.14	27
Flow Rate (cfs)	H8	H8	H8	H8	0.0003	to	0.0067	0.0033	±	0.000	27
Arsenic (mg/L)		F6	F6	F6	0.003 U	to	0.01	0.0048	±	0.001	5
Calcium (mg/L)		F6	F6	F6	46.4	to	69.9	56	±	4.4	5
Iron (mg/L)		F6	F6	F6	0.02 U	to	0.02 U	0.02	±	1E-10	5
Magnesium (mg/L)		F6	F6	F6	8.2	to	12.5	10	±	0.81	5
Manganese (mg/L)		F6	F6	F6	0.02 U	to	0.12	0.048	±	0.02	5
Potassium (mg/L)		F6	F6	F6	1.8	to	3.3	2.4	±	0.31	5
Sodium (mg/L)		F6	F6	F6	6	to	9.5	8	±	0.63	5
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	No historical data for Nitrite/Nitrate - (N).						
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	0.01 U	to	0.01	0.01	±	7E-11	5
Total Dissolved Solids (mg/L)		F6	F6	F6	163	to	263	230	±	17	5
Total Suspended Solids (mg/L)		F6	F6	F6	4 U	to	4 U	4	±	0	5
Sulfate (mg/L)		F6	F6	F6	8.3	to	16.3	13	±	1.3	5
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	123	to	201	160	±	15	5
Alkalinity (CaCO3) (field) (mg/L)	H8	H8	H8	H8	85	to	475	180	±	17	27
Organic Carbon (mg/L)		F6	F6	F6	1.2	to	4.8	3.4	±	0.66	5
Chloride (mg/L)		F6	F6	F6	2.4	to	12.6	7.8	±	1.7	5
Bromide (mg/L)		F6	F6	F6	No historical data for Bromide.						
Turbidity (field) (NTU)	H8	H8	H8	H8	0	to	5	0.9	±	0.2	27

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 H8 = No flow from pipe. See LF-COMP for readings

Q2= 4 - 2020

F6 = No flow. Sample not taken.

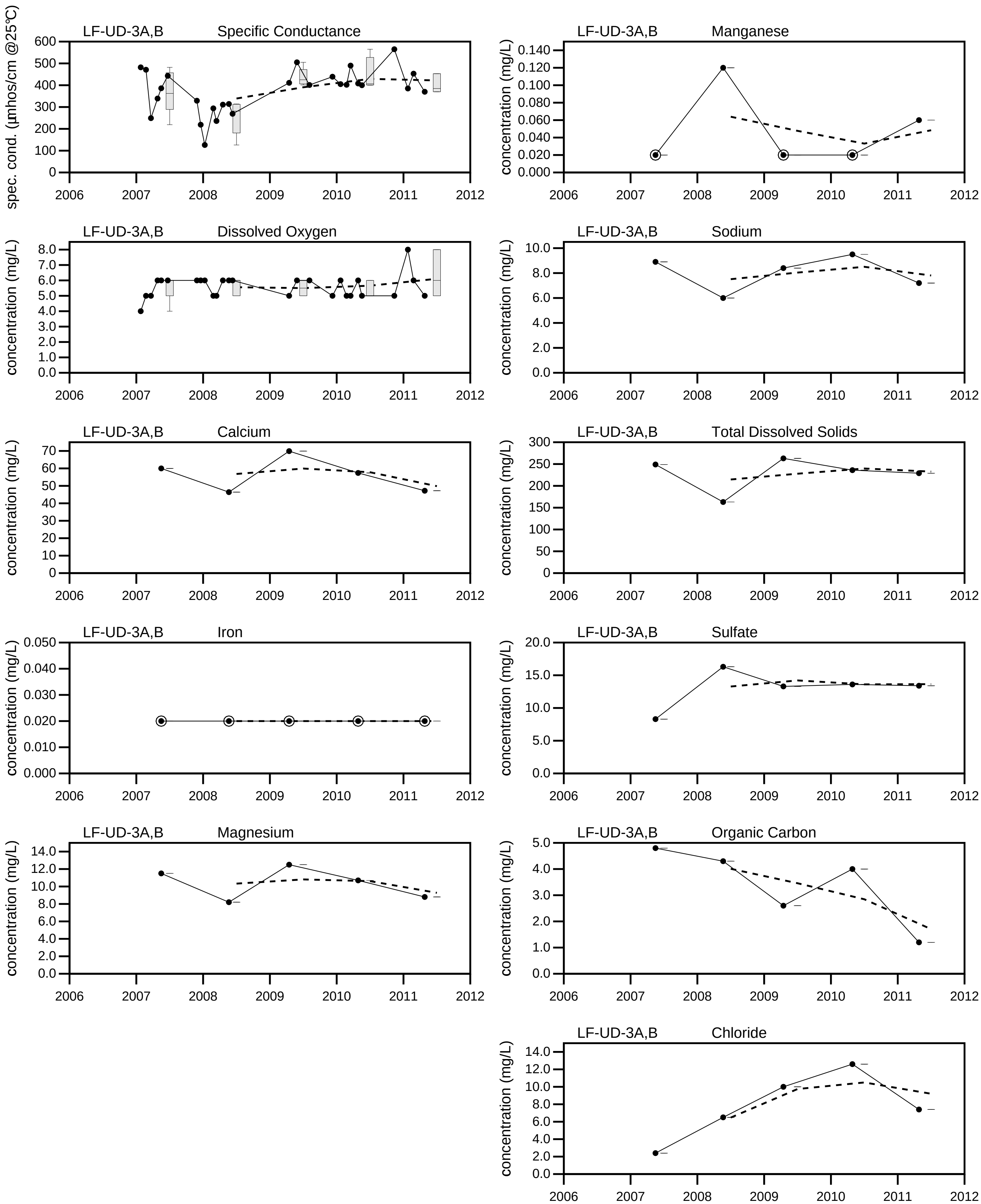
Q3= 7 - 2020

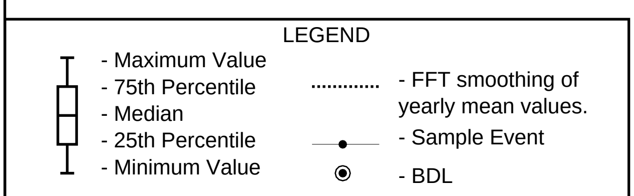
Q4= 10 - 2020

Data Group: 537

Printed: 3/22/2021 10:52

SME SEVEE & MAHER ENGINEERS





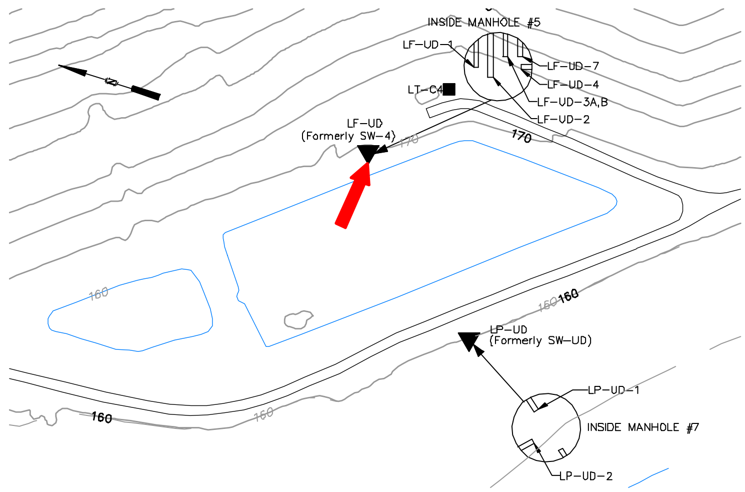
Juniper Ridge Landfill

LF-UD-3A,B

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-4 monitors the landfill underdrain from Cell #4 at Manhole #5.



Sampled: **Monthly & 3 Times Annually**

Sampled Since: **03/11/2009**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min to Max	Mean ± SE	n
Specific Conductance (µmhos/cm @25°C)	H8	H8	H8	H8	327 to 562	420 ± 7.7	39
pH (STU)	H8	H8	H8	H8	6.9 to 8.3	7.5 ± 0.072	39
Temperature (Deg C)	H8	H8	H8	H8	4.5 to 30.7	17 ± 0.78	39
Eh (mV)	H8	H8	H8	H8	212 to 571	360 ± 13	39
Dissolved Oxygen (mg/L)	H8	H8	H8	H8	4 to 10.3	6.4 ± 0.27	39
Flow Rate (cfs)	H8	H8	H8	H8	0.0001 to 0.0078	0.0017 ± 0.000	36
Arsenic (mg/L)		F6	F6	F6	0.002 to 0.014	0.0073 ± 0.001	12
Calcium (mg/L)		F6	F6	F6	44.8 to 75.7	57 ± 2.7	12
Iron (mg/L)		F6	F6	F6	0.02 U to 1.4	0.19 ± 0.11	12
Magnesium (mg/L)		F6	F6	F6	9.9 to 14	12 ± 0.42	12
Manganese (mg/L)		F6	F6	F6	0.02 U to 0.16	0.057 ± 0.01	12
Potassium (mg/L)		F6	F6	F6	3.4 to 5.8	4.1 ± 0.21	12
Sodium (mg/L)		F6	F6	F6	7.4 to 11	9.4 ± 0.31	12
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	0.13 to 0.25	0.19 ± 0.02	6
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	0.01 U to 0.18	0.049 ± 0.012	12
Total Dissolved Solids (mg/L)		F6	F6	F6	206 to 298	260 ± 7.9	12
Total Suspended Solids (mg/L)		F6	F6	F6	4 U to 210	33 ± 18	12
Sulfate (mg/L)		F6	F6	F6	2 U to 24.9	13 ± 2	12
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	136 to 210	180 ± 6.3	12
Alkalinity (CaCO3) (field) (mg/L)	H8	H8	H8	H8	92 to 300	180 ± 8.4	33
Organic Carbon (mg/L)		F6	F6	F6	2 U to 5.1	2.3 ± 0.26	12
Chloride (mg/L)		F6	F6	F6	2.4 to 24	12 ± 2	12
Bromide (mg/L)		F6	F6	F6	0.1 U to 0.2	0.16 ± 0.015	9
Turbidity (field) (NTU)	H8	H8	H8	H8	0 to 9.1	0.97 ± 0.24	39

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020

Q2= 4 - 2020

Q3= 7 - 2020

Q4= 10 - 2020

H8 = No flow from pipe. See LF-COMP for readings

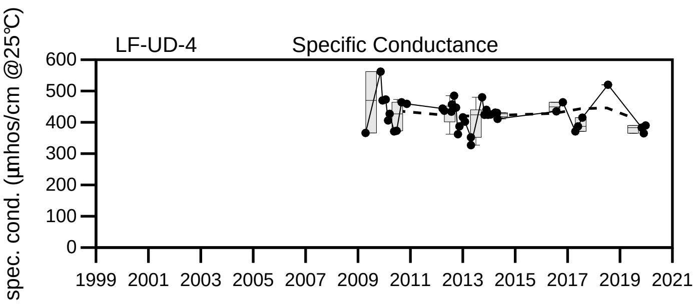
H2 = Waterlevel higher than pipes. See LF-COMP for readings

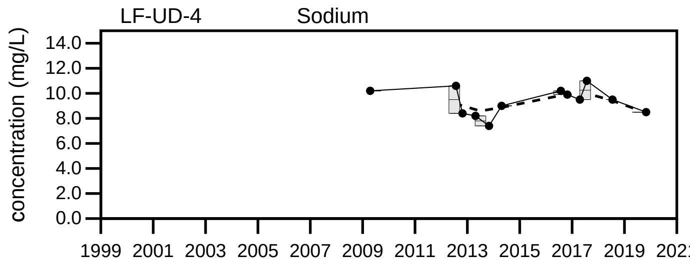
F6 = No flow. Sample not taken.

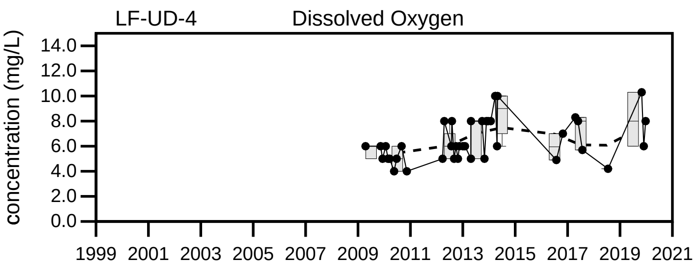
Data Group: 537

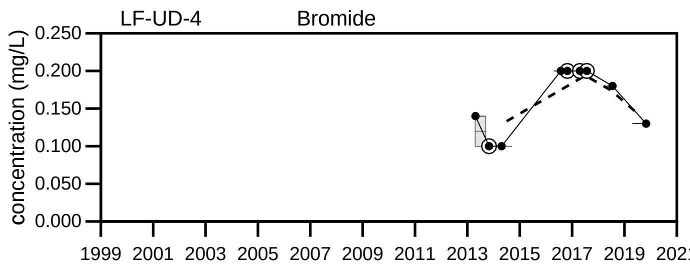
Printed: 3/22/2021 10:52

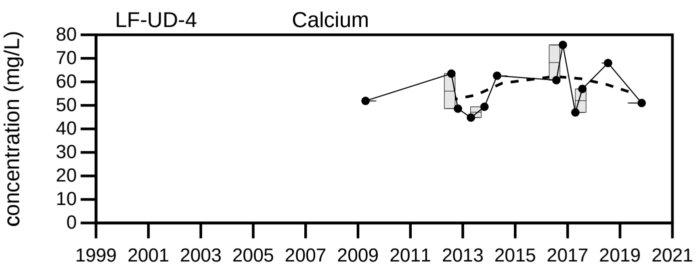
SME SEVEE & MAHER ENGINEERS

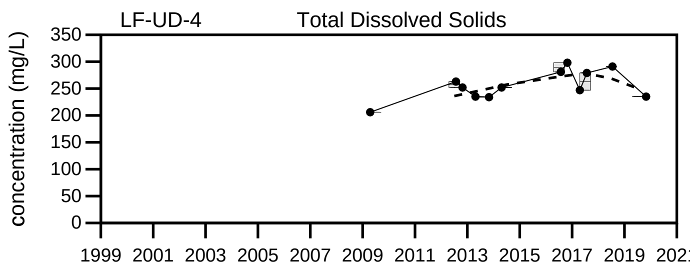


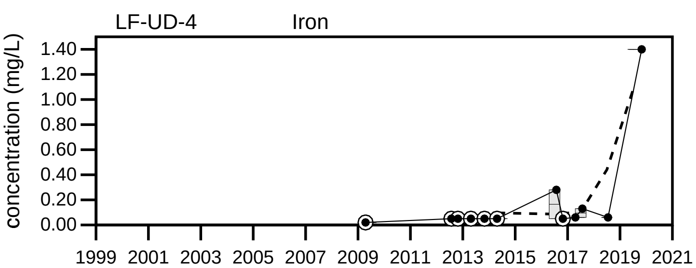


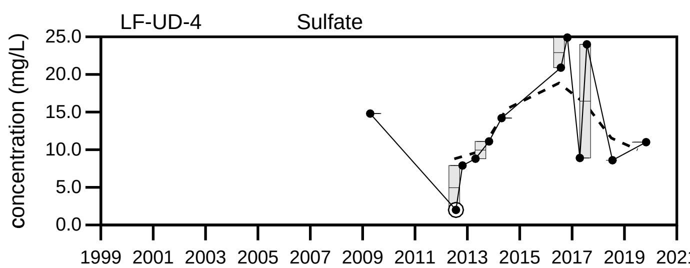


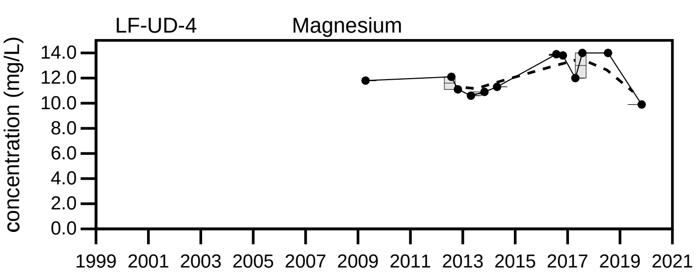


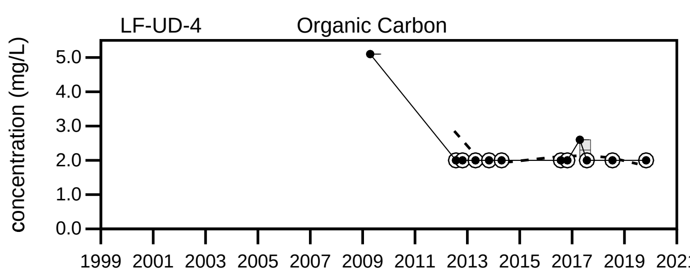


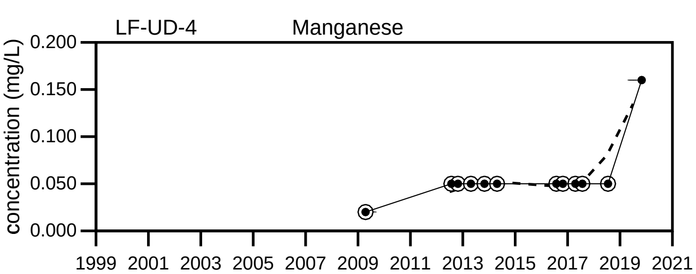


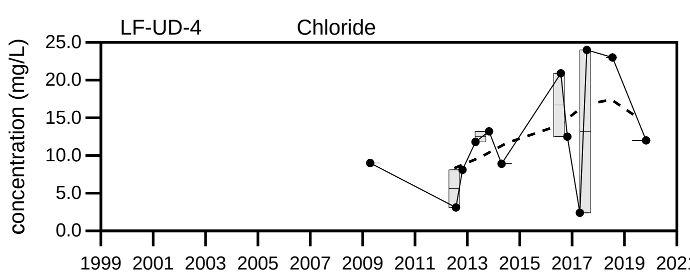












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

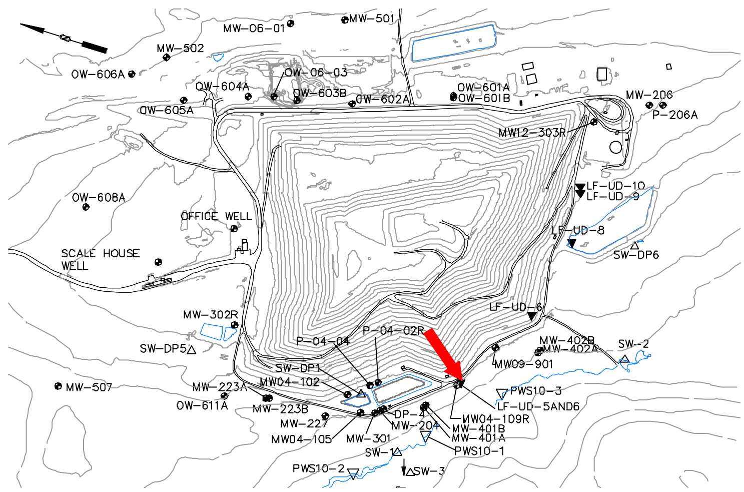
Juniper Ridge Landfill

LF-UD-4

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-5and6 monitors the landfill underdrain from Cell #5 and Cell #6(composite). This underdrain pipe is located southeast of MW04-109R.



Sampled: **3 Times Annually and Monthly**

Sampled Since: **July 2011**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	305	322	325	326	117	to	652	380	±	7.8	121
pH (STU)	↑8.4	8.3	8.1	↑8.5	6.7	to	8.32	7.7	±	0.035	121
Temperature (Deg C)	7.6	8.9	21.2	15.6	4.2	to	26.5	16	±	0.43	121
Eh (mV)	392	403	401	404	70	to	515	350	±	5.3	120
Dissolved Oxygen (mg/L)	6	9.3	7.5	8	4	to	12.8	7.4	±	0.15	119
Flow Rate (cfs)	0.0014	0.0006	0.0002	0.0001	0.00003	to	0.0045	0.00067	±	9E-05	99
Arsenic (mg/L)		0.005 U	0.005 U	F6	0.005 U	to	0.024	0.0099	±	0.001	26
Calcium (mg/L)		43	50	F6	38	to	71.3	54	±	1.8	26
Iron (mg/L)		0.05 U	0.05 U	F6	0.02 U	to	11.3	0.56	±	0.43	26
Magnesium (mg/L)		9.5	11	F6	8.4	to	15.4	11	±	0.33	26
Manganese (mg/L)		0.05 U	0.05 U	F6	0.02 U	to	0.25	0.054	±	0.008	26
Potassium (mg/L)		2.4	3.1	F6	2.4	to	7	4	±	0.23	26
Sodium (mg/L)		7.7	9	F6	6.2	to	10.2	8.3	±	0.21	26
Nitrite/Nitrate - (N) (mg/L)		0.2	0.23	F6	0.05 U	to	0.5 U	0.19	±	0.041	13
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.04 U	F6	0.01	to	0.16	0.046	±	0.005	26
Total Dissolved Solids (mg/L)		↓185	214	F6	192	to	332	240	±	7.2	26
Total Suspended Solids (mg/L)		2.5 U	2.5 U	F6	2.5 U	to	154	21	±	7.6	26
Sulfate (mg/L)		11	11	F6	8.7	to	39	15	±	1.3	26
Bicarbonate Alkalinity (CaCO3) (mg/L)		150	180	F6	150	to	238	190	±	5.1	26
Alkalinity (CaCO3) (field) (mg/L)	150	175	200	200	35	to	435	180	±	5.6	105
Organic Carbon (mg/L)		2 U	2 U	F6	1.5	to	2.5	2	±	0.038	26
Chloride (mg/L)		2.3	2.5	F6	1.5	to	6.2	2.9	±	0.19	26
Bromide (mg/L)		0.17	0.18	F6	0.1 U	to	0.2 U	0.13	±	0.01	18
Turbidity (field) (NTU)	0.6	1.6	11.1	↑51.3	0	to	30.88	2.2	±	0.41	120

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020

Q2= 4 - 2020

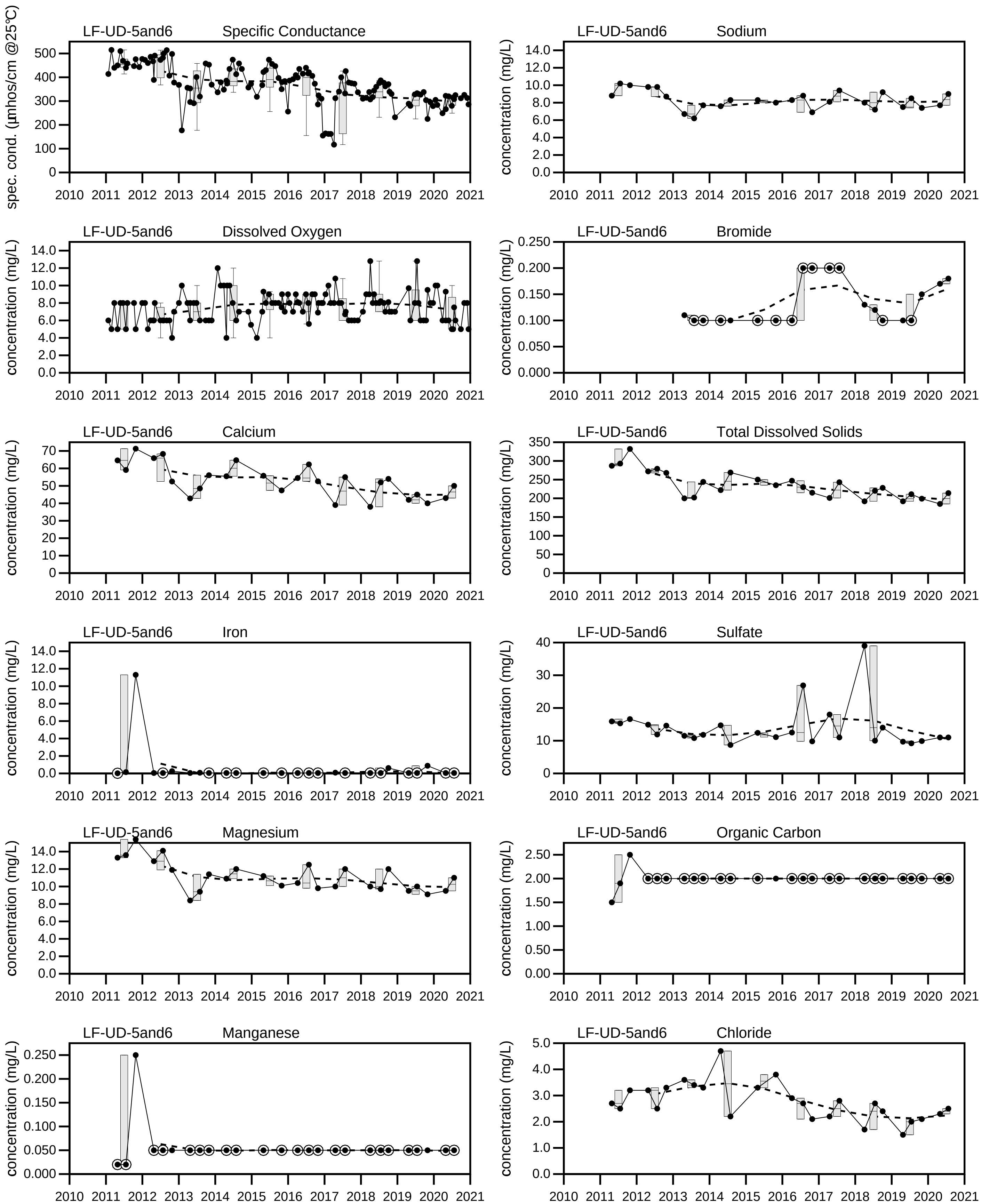
Q3= 7 - 2020

Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

F6 = No flow. Sample not taken.

D = The sampling location was dry.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

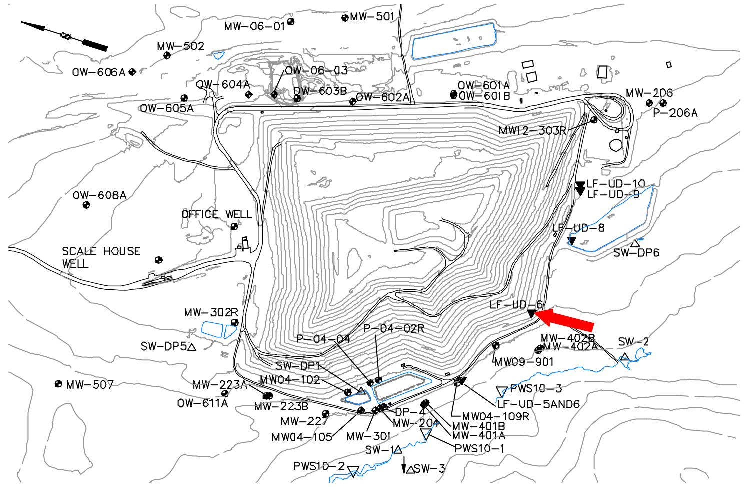
Juniper Ridge Landfill

LF-UD-5and6

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-6 monitors the landfill underdrain from Cell #6. This underdrain pipe is located along the south perimeter of the landfill.



Sampled: **Monthly and 3 Times Annually**

Sampled Since: **02/03/2011**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	515	579	F6	F6	70	to	919	560	±	23	105
pH (STU)	↓4.4	↓4.2	F6	F6	5.2	to	8.5	7.4	±	0.039	104
Temperature (Deg C)	18.6	14.1	F6	F6	7.6	to	24.8	17	±	0.37	105
Eh (mV)	↑520	↑605	F6	F6	140	to	490	370	±	5.3	104
Dissolved Oxygen (mg/L)	8	7	F6	F6	3.6	to	10	6.4	±	0.13	103
Flow Rate (cfs)		0.0006	F6	F6	0.00056	to	0.0045	0.002	±	0.000	23
Arsenic (mg/L)		0.005 U	D	F6	0.003	to	0.026	0.013	±	0.002	24
Calcium (mg/L)		52	D	F6	24	to	96.4	71	±	4.1	24
Iron (mg/L)		0.05 U	D	F6	0.02 U	to	6.28	0.32	±	0.26	24
Magnesium (mg/L)		6	D	F6	2.9	to	25.4	16	±	1.5	24
Manganese (mg/L)		↑3.3	D	F6	0.02 U	to	0.68	0.079	±	0.027	24
Potassium (mg/L)		5.7	D	F6	1.7	to	5.9	4	±	0.25	24
Sodium (mg/L)		1.9	D	F6	0.5	to	74.3	33	±	6.3	24
Nitrite/Nitrate - (N) (mg/L)		↑60	D	F6	1.4	to	27	8	±	2.3	12
Total Phosphorus Mixed Forms (PO4 and C		0.2	D	F6	0.01	to	0.65	0.11	±	0.026	24
Total Dissolved Solids (mg/L)		438	D	F6	149	to	563	390	±	30	24
Total Suspended Solids (mg/L)		2.5 U	D	F6	2.5 U	to	150	16	±	7.3	24
Sulfate (mg/L)		12	D	F6	2 U	to	143	53	±	9.8	24
Bicarbonate Alkalinity (CaCO3) (mg/L)		↓1.5 U	D	F6	4.9	to	359	250	±	21	24
Alkalinity (CaCO3) (field) (mg/L)	FK	H8	F6	F6	35	to	490	210	±	11	92
Organic Carbon (mg/L)		2 U	D	F6	2 U	to	3.6	2.7	±	0.11	24
Chloride (mg/L)		2 U	D	F6	1 U	to	18.2	7	±	1.1	24
Bromide (mg/L)		0.2 U	D	F6	0.1 U	to	0.5 U	0.13	±	0.022	18
Turbidity (field) (NTU)	19.4	0.6	F6	F6	0.1	to	126.9	5.5	±	1.4	104

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

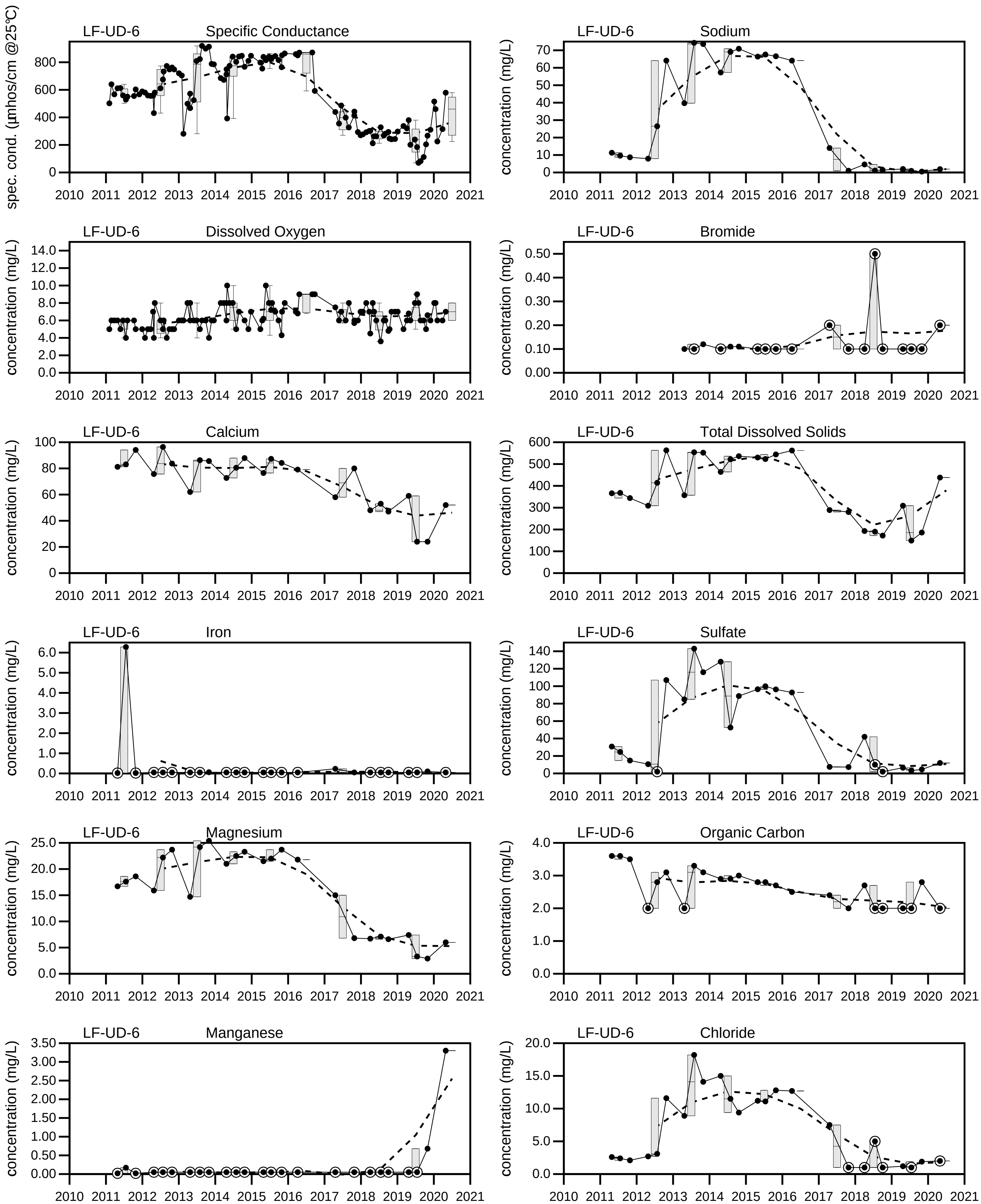
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.
H8 = No flow from pipe. See LF-COMP for readings
FK = Outside range of available field kits.
F6 = No flow. Sample not taken.
D = The sampling location was dry.

Data Group: 537
Printed: 3/22/2021 10:52

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

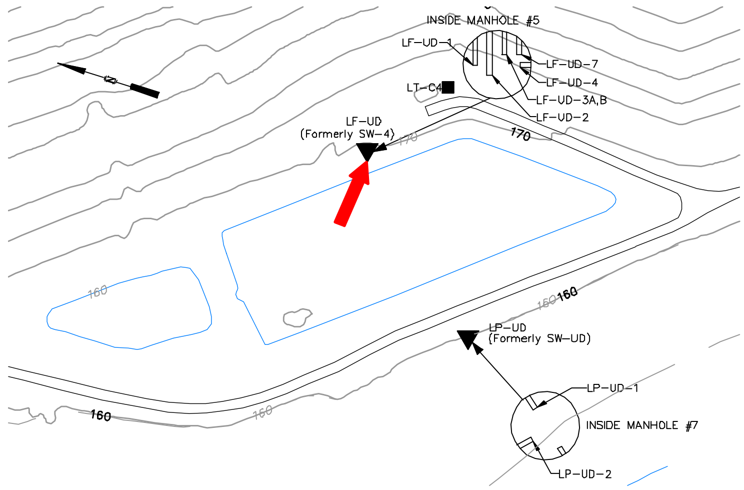
Juniper Ridge Landfill

LF-UD-6

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-7 monitors the landfill underdrain from Cell #7 and Manhole #5.



Sampled: **Monthly and 3 Times Annually**

Sampled Since: **11/30/2011**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (-) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	H8	H8	H8	H8	No historical data for Specific Conductance.				
pH (STU)	H8	H8	H8	H8	No historical data for pH.				
Temperature (Deg C)	H8	H8	H8	H8	No historical data for Temperature.				
Eh (mV)	H8	H8	H8	H8	No historical data for Eh.				
Dissolved Oxygen (mg/L)	H8	H8	H8	H8	No historical data for Dissolved Oxygen.				
Flow Rate (cfs)	H8	H8	H8	H8	No historical data for Flow Rate.				
Arsenic (mg/L)		F6	F6	F6	No historical data for Arsenic.				
Calcium (mg/L)		F6	F6	F6	No historical data for Calcium.				
Iron (mg/L)		F6	F6	F6	No historical data for Iron.				
Magnesium (mg/L)		F6	F6	F6	No historical data for Magnesium.				
Manganese (mg/L)		F6	F6	F6	No historical data for Manganese.				
Potassium (mg/L)		F6	F6	F6	No historical data for Potassium.				
Sodium (mg/L)		F6	F6	F6	No historical data for Sodium.				
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	No historical data for Nitrite/Nitrate - (N).				
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	data for Total Phosphorus Mixed Forms (PO4 and Organic				
Total Dissolved Solids (mg/L)		F6	F6	F6	No historical data for Total Dissolved Solids.				
Total Suspended Solids (mg/L)		F6	F6	F6	No historical data for Total Suspended Solids.				
Sulfate (mg/L)		F6	F6	F6	No historical data for Sulfate.				
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	No historical data for Bicarbonate Alkalinity (CaCO3).				
Alkalinity (CaCO3) (field) (mg/L)	H8	H8	H8	H8	No historical data for Alkalinity (CaCO3) (field).				
Organic Carbon (mg/L)		F6	F6	F6	No historical data for Organic Carbon.				
Chloride (mg/L)		F6	F6	F6	No historical data for Chloride.				
Bromide (mg/L)		F6	F6	F6	No historical data for Bromide.				
Turbidity (field) (NTU)	H8	H8	H8	H8	No historical data for Turbidity (field).				

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 H8 = No flow from pipe. See LF-COMP for readings

Q2= 4 - 2020

F6 = No flow. Sample not taken.

Q3= 7 - 2020

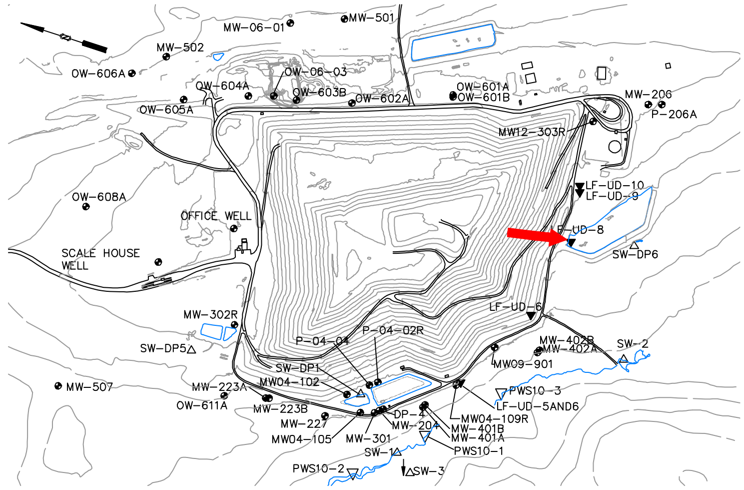
Q4= 10 - 2020

Data Group: 537

Printed: 3/22/2021 10:52

SEVEE & MAHER ENGINEERS

Well Description



LF-UD-8 monitors the landfill underdrain from Cell #8. This underdrain pipe is located along the southern perimeter of the landfill.

Sampled: **3 Times Annually**

Sampled Since: **4/23/2013**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean	±	SE	n
Specific Conductance (µmhos/cm @25°C)	F6	F6	F6	F6	64	to	407	200	±	32	17
pH (STU)	F6	F6	F6	F6	6.8	to	8.5	7.5	±	0.13	17
Temperature (Deg C)	F6	F6	F6	F6	2.8	to	26.9	12	±	1.5	17
Eh (mV)	F6	F6	F6	F6	235	to	568	370	±	21	17
Dissolved Oxygen (mg/L)	F6	F6	F6	F6	5	to	10.9	7.6	±	0.52	17
Flow Rate (cfs)	F6	F6	F6	F6	0.00003	to	0.0045	0.0014	±	0.000	14
Arsenic (mg/L)		F6	F6	F6	0.005 U	to	0.014	0.0069	±	0.001	11
Calcium (mg/L)		F6	F6	F6	4.8	to	50.1	19	±	5.4	11
Iron (mg/L)		F6	F6	F6	0.05 U	to	1.5	0.57	±	0.14	11
Magnesium (mg/L)		F6	F6	F6	0.8	to	11.1	3.6	±	1.3	11
Manganese (mg/L)		F6	F6	F6	0.05 U	to	0.15	0.069	±	0.01	11
Potassium (mg/L)		F6	F6	F6	0.8	to	3.7	1.9	±	0.36	11
Sodium (mg/L)		F6	F6	F6	1.3	to	7.3	3.8	±	0.67	11
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	0.05 U	to	0.5 U	0.14	±	0.073	6
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	0.04 U	to	0.1	0.05	±	0.006	11
Total Dissolved Solids (mg/L)		F6	F6	F6	42	to	222	100	±	21	11
Total Suspended Solids (mg/L)		F6	F6	F6	4 U	to	43	9.2	±	3.5	11
Sulfate (mg/L)		F6	F6	F6	4.6	to	49	14	±	3.6	11
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	6	to	180	58	±	22	11
Organic Carbon (mg/L)		F6	F6	F6	2 U	to	6.3	3.9	±	0.48	11
Chloride (mg/L)		F6	F6	F6	2	to	14	5.2	±	1	11
Bromide (mg/L)		F6	F6	F6	0.1 U	to	0.2 U	0.11	±	0.009	11
Turbidity (field) (NTU)	F6	F6	F6	F6	0.04	to	24.35	2.6	±	1.4	17

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 F6 = No flow. Sample not taken.

Q2= 4 - 2020 F = The sampling location was frozen.

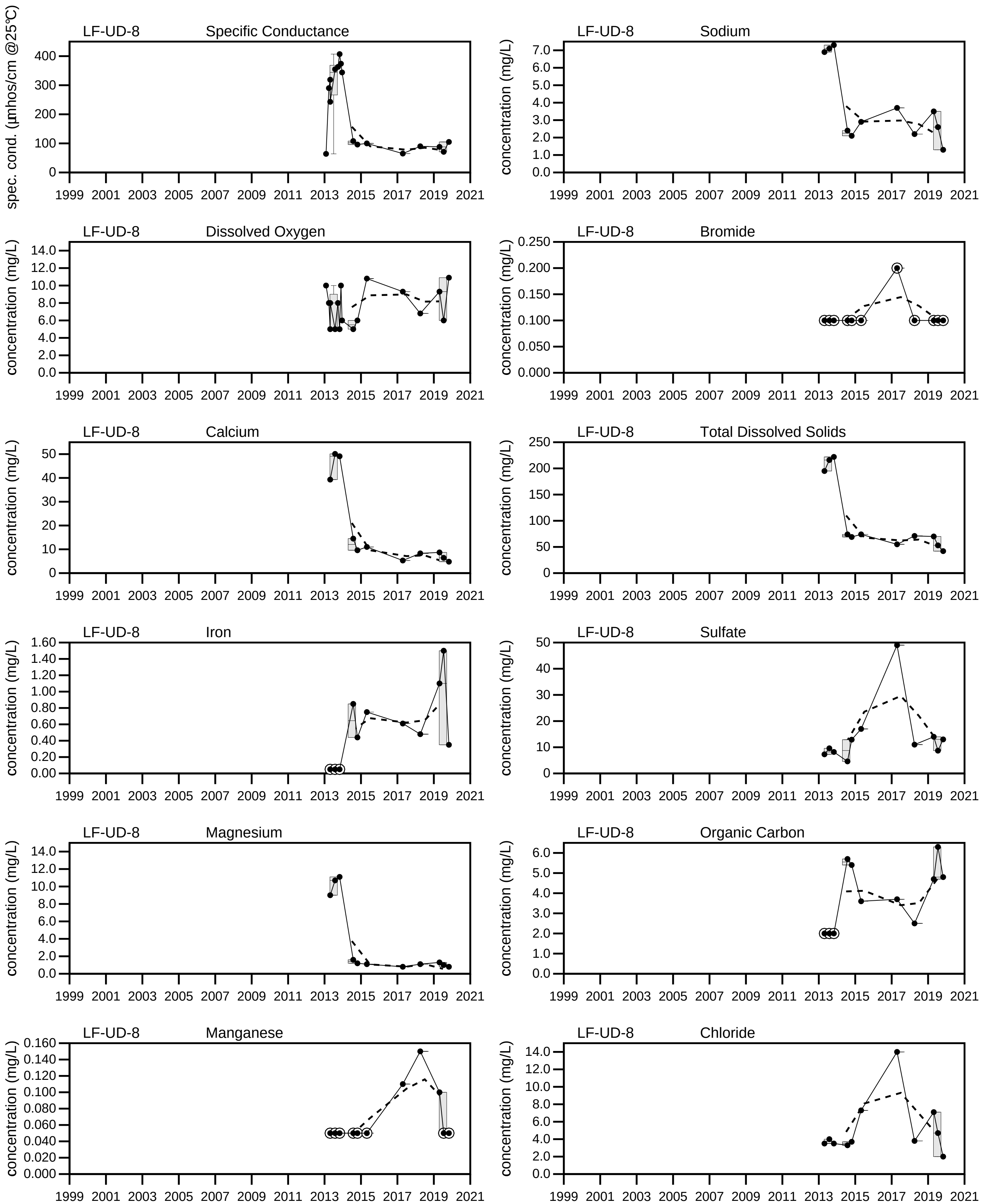
Q3= 7 - 2020

Q4= 10 - 2020 D = The sampling location was dry.

Data Group: 537

Printed: 3/22/2021 10:52

SME SEVEE & MAHER ENGINEERS



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

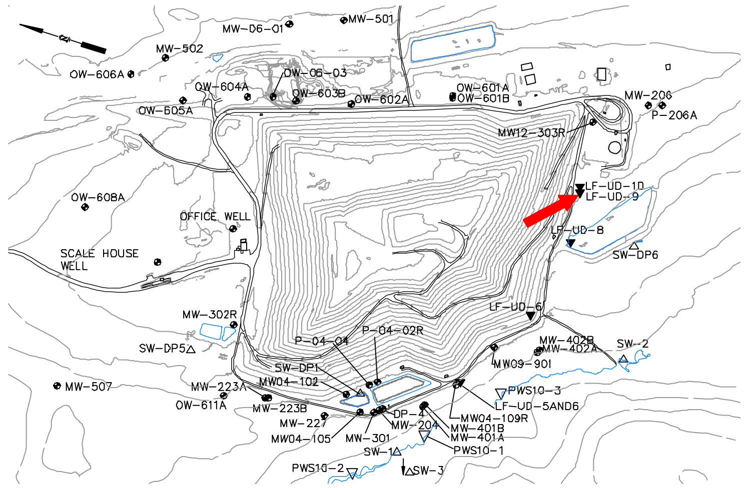
Juniper Ridge Landfill

LF-UD-8

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-9 monitors the landfill underdrain from Cell #9. This underdrain pipe is located along the southern perimeter of the landfill.



Sampled: **3 Times Annually**

Sampled Since: **April 2016**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	F6	F6	F6	F6	135	to	292	200	±	33	4
pH (STU)	F6	F6	F6	F6	6.6	to	7.6	7.2	±	0.21	4
Temperature (Deg C)	F6	F6	F6	F6	7.1	to	15.1	10	±	1.8	4
Eh (mV)	F6	F6	F6	F6	278	to	458	370	±	37	4
Dissolved Oxygen (mg/L)	F6	F6	F6	F6	7	to	10.8	8.5	±	0.91	4
Flow Rate (cfs)	F6	F6	F6	F6	0.0004	to	0.0045	0.0023	±	0.001	4
Arsenic (mg/L)		F6	F6	F6	0.007	to	0.007	0.007	±	0	1
Calcium (mg/L)		F6	F6	F6	55	to	55	55	±	0	1
Iron (mg/L)		F6	F6	F6	1.4	to	1.4	1.4	±	0	1
Magnesium (mg/L)		F6	F6	F6	6.8	to	6.8	6.8	±	0	1
Manganese (mg/L)		F6	F6	F6	0.06	to	0.06	0.06	±	0	1
Potassium (mg/L)		F6	F6	F6	4.3	to	4.3	4.3	±	0	1
Sodium (mg/L)		F6	F6	F6	6.5	to	6.5	6.5	±	0	1
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	0.88	to	0.88	0.88	±	0	1
Total Phosphorus Mixed Forms (PO4 and		F6	F6	F6	0.08	to	0.08	0.08	±	0	1
Total Dissolved Solids (mg/L)		F6	F6	F6	224	to	224	220	±	0	1
Total Suspended Solids (mg/L)		F6	F6	F6	57	to	57	57	±	0	1
Sulfate (mg/L)		F6	F6	F6	11	to	11	11	±	0	1
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	90	to	90	90	±	0	1
Alkalinity (CaCO3) (field) (mg/L)	F6	F6	F6	F6	25	to	50 U	35	±	7.6	3
Organic Carbon (mg/L)		F6	F6	F6	2.7	to	2.7	2.7	±	0	1
Chloride (mg/L)		F6	F6	F6	5.1	to	5.1	5.1	±	0	1
Bromide (mg/L)		F6	F6	F6	0.2 U	to	0.2 U	0.2	±	0	1
Turbidity (field) (NTU)	F6	F6	F6	F6	1.2	to	49.6	26	±	12	4

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 F6 = No flow. Sample not taken.

Q2= 4 - 2020

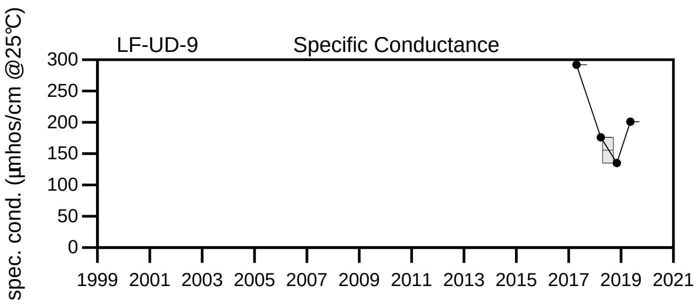
Q3= 7 - 2020 D = The sampling location was dry.

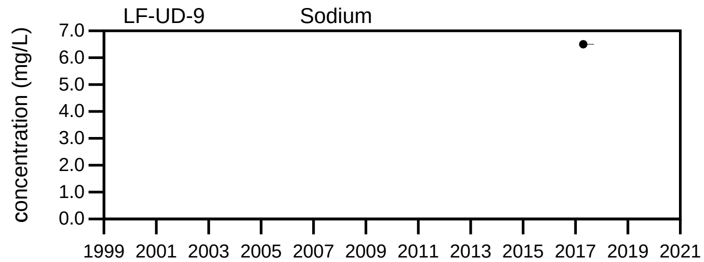
Q4= 10 - 2020

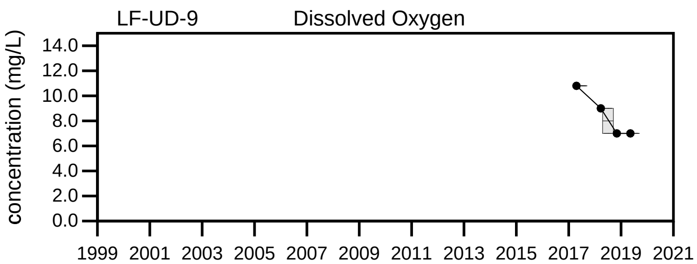
Data Group: 548

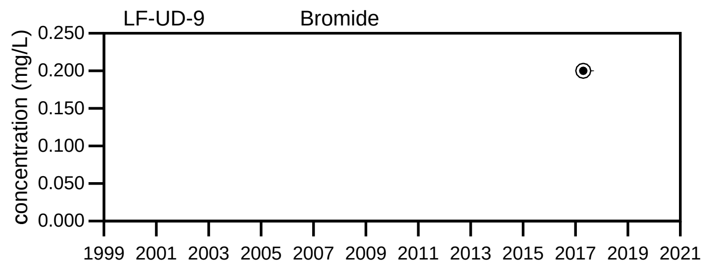
Printed: 3/22/2021 12:56

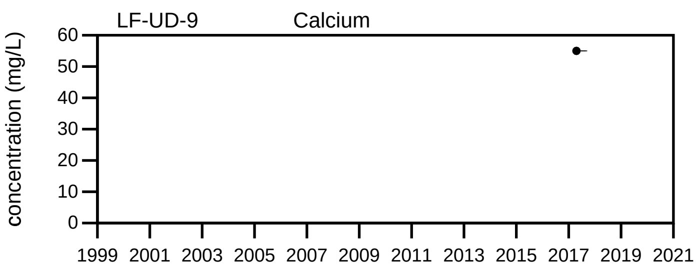
SME SEVEE & MAHER ENGINEERS

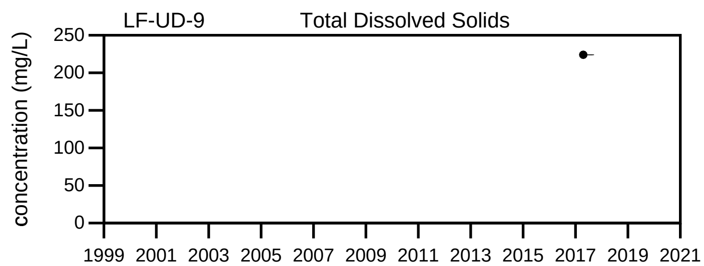


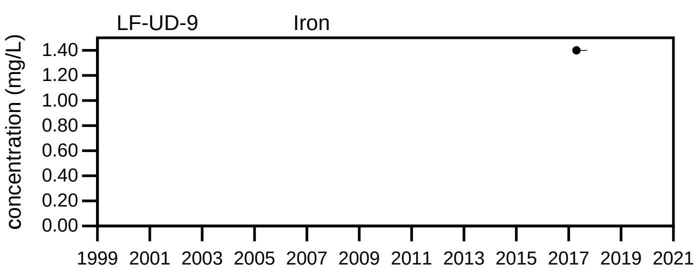


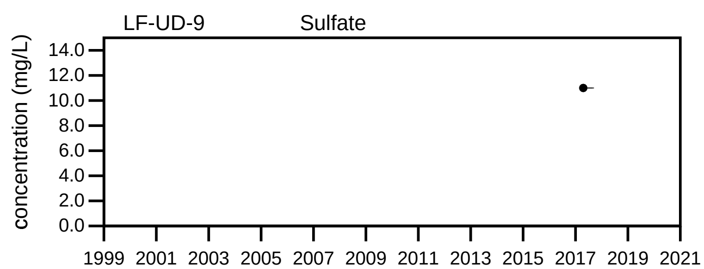


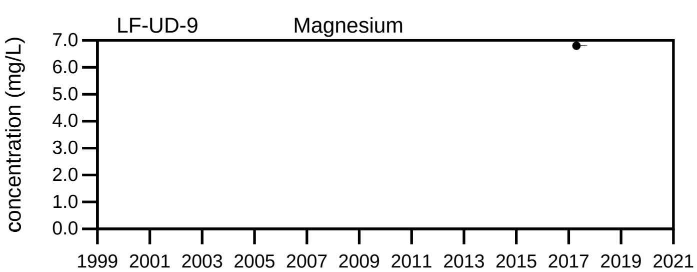


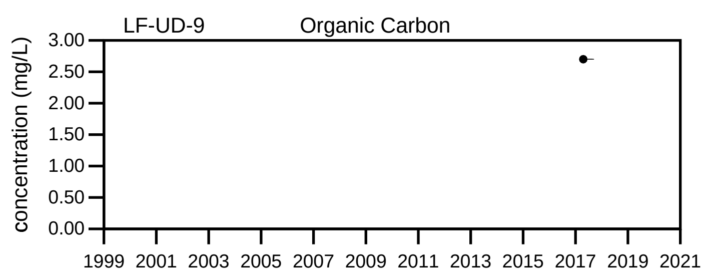


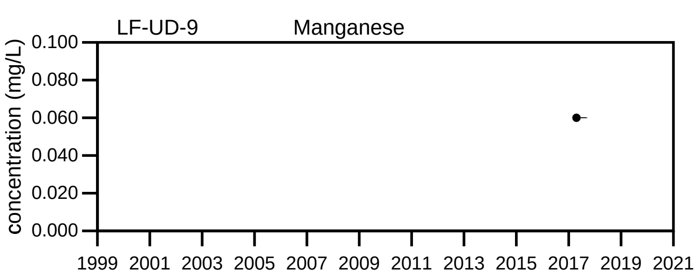


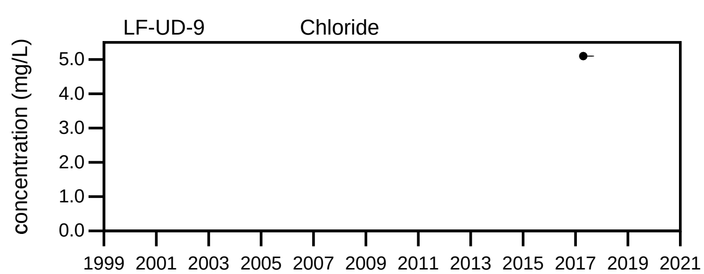












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

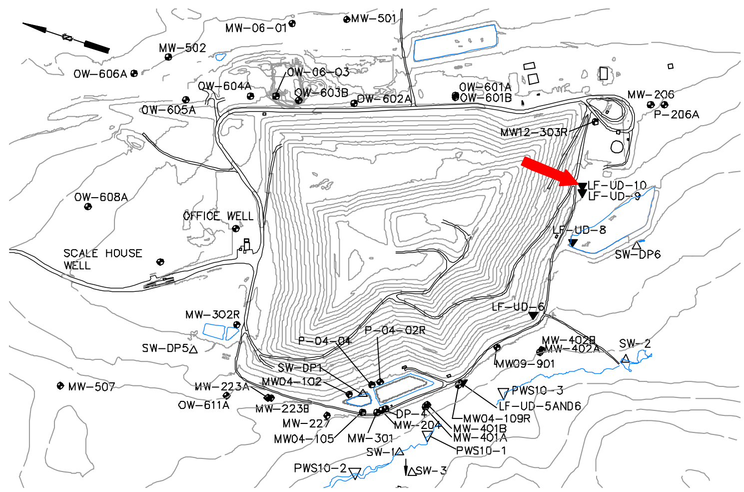
Juniper Ridge Landfill

LF-UD-9

Sevee & Maher Engineers, Inc.

Well Description

LF-UD-10 monitors the landfill underdrain from Cell #10. This underdrain pipe is located along the southern perimeter of the landfill.



Sampled: **3 Times Annually**

Sampled Since: **October 2017**

Sampling Method:

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	F6	F6	F6	F6	111	to 175	130	± 14	4
pH (STU)	F6	F6	F6	F6	6.8	to 7.3	7.1	± 0.12	4
Temperature (Deg C)	F6	F6	F6	F6	5.1	to 14.9	9.9	± 2	4
Eh (mV)	F6	F6	F6	F6	295	to 455	390	± 34	4
Dissolved Oxygen (mg/L)	F6	F6	F6	F6	7	to 9	7.8	± 0.48	4
Flow Rate (cfs)	F6	F6	F6	F6	0.00056	to 0.0178	0.0066	± 0.004	4
Arsenic (mg/L)		F6	F6	F6	No historical data for Arsenic.				
Calcium (mg/L)		F6	F6	F6	No historical data for Calcium.				
Iron (mg/L)		F6	F6	F6	No historical data for Iron.				
Magnesium (mg/L)		F6	F6	F6	No historical data for Magnesium.				
Manganese (mg/L)		F6	F6	F6	No historical data for Manganese.				
Potassium (mg/L)		F6	F6	F6	No historical data for Potassium.				
Sodium (mg/L)		F6	F6	F6	No historical data for Sodium.				
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	No historical data for Nitrite/Nitrate - (N).				
Total Phosphorus Mixed Forms (PO4 and		F6	F6	F6	ata for Total Phosphorus Mixed Forms (PO4 and Organic)				
Total Dissolved Solids (mg/L)		F6	F6	F6	No historical data for Total Dissolved Solids.				
Total Suspended Solids (mg/L)		F6	F6	F6	No historical data for Total Suspended Solids.				
Sulfate (mg/L)		F6	F6	F6	No historical data for Sulfate.				
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	No historical data for Bicarbonate Alkalinity (CaCO3).				
Alkalinity (CaCO3) (field) (mg/L)	F6	F6	F6	F6	0	to 50 U	25	± 14	3
Organic Carbon (mg/L)		F6	F6	F6	No historical data for Organic Carbon.				
Chloride (mg/L)		F6	F6	F6	No historical data for Chloride.				
Bromide (mg/L)		F6	F6	F6	No historical data for Bromide.				
Turbidity (field) (NTU)	F6	F6	F6	F6	12.9	to 49.6	39	± 8.8	4

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020 F6 = No flow. Sample not taken.

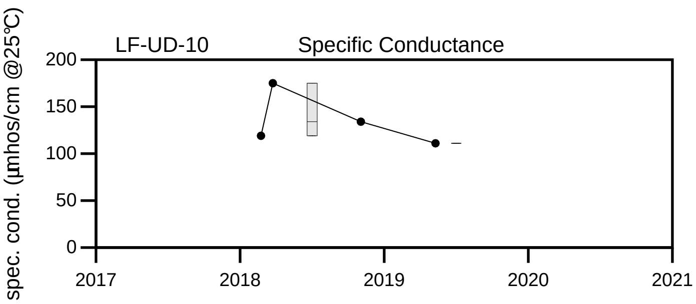
Q2= 4 - 2020

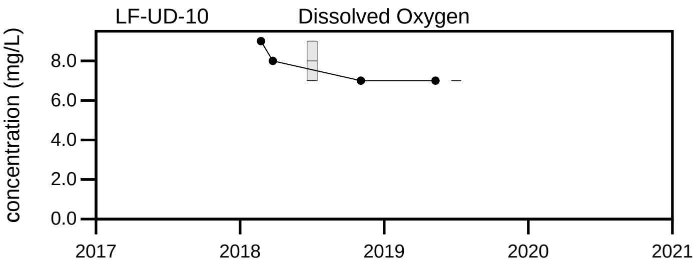
Q3= 7 - 2020

Q4= 10 - 2020

Data Group: 548
Printed: 3/22/2021 12:56

SME SEVEE & MAHER ENGINEERS





No data for Sodium at LF-UD-10

No data for Bromide at LF-UD-10

No data for Calcium at LF-UD-10

No data for Total Dissolved Solids at LF-UD-10

No data for Iron at LF-UD-10

No data for Sulfate at LF-UD-10

No data for Magnesium at LF-UD-10

No data for Organic Carbon at LF-UD-10

No data for Manganese at LF-UD-10

No data for Chloride at LF-UD-10

LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

Juniper Ridge Landfill

LF-UD-10

Sevee & Maher Engineers, Inc.

LP-COMP

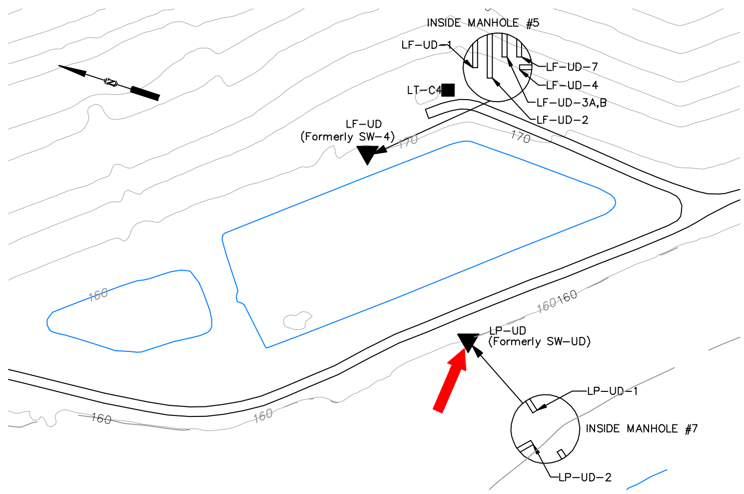
Juniper Ridge Landfill

LP-COMP

annual stats 2020 G6

Well Description

Manhole #7 composite sample



Sampled: **See comments below**

Sampled Since: **10/27/04**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	256	275	303	288	92	to	665	300	±	9.6	73
pH (STU)	7.3	7.2	7.2	7.4	6	to	8.4	7.1	±	0.05	73
Temperature (Deg C)	7.8	22.4	22.4	14.9	3.4	to	25.1	14	±	0.6	73
Eh (mV)	418	352	416	426	191	to	520	360	±	4.8	73
Dissolved Oxygen (mg/L)	6	8	6	8	3	to	10	7	±	0.2	71
Alkalinity (CaCO3) (field) (mg/L)	135	150	175	150	75	to	260	130	±	3.3	73
Turbidity (field) (NTU)	1.8	1.8	0.2	2.7	0	to	7.4	1.1	±	0.14	73

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

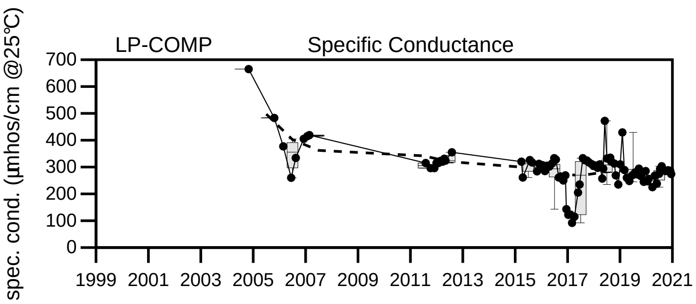
During times when LP-UD-1 and LP-UD-2 have not been able to be sampled seperately due to pipe submergence, LP-COMP has been collected from manhole #7. Field parameters are measured at this location during some monthly monitoring rounds by NEWSME.

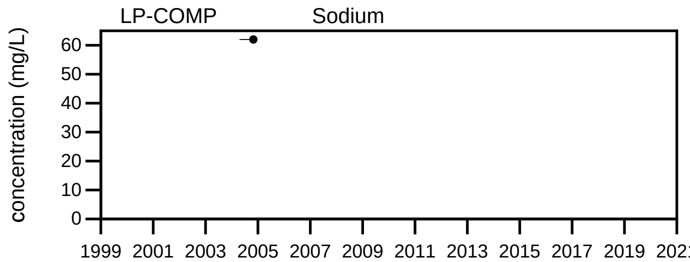
Q1= 1 - 2020

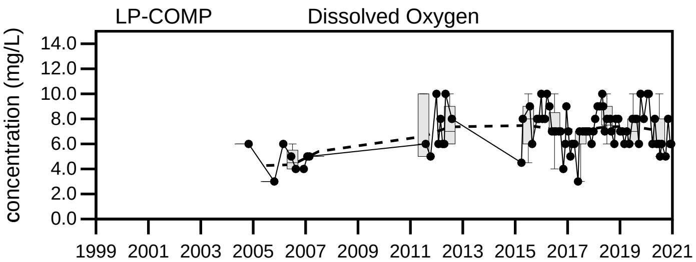
Q2= 4 - 2020

Q3= 7 - 2020

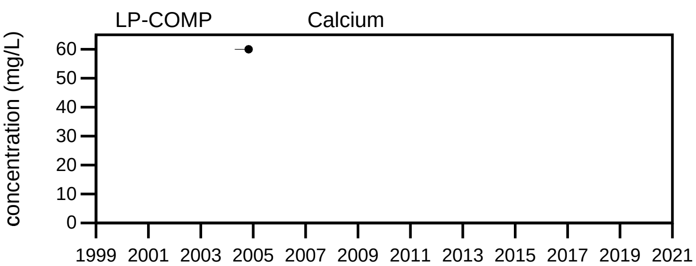
Q4= 10 - 2020

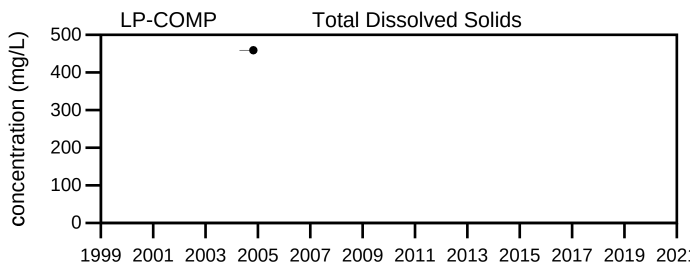


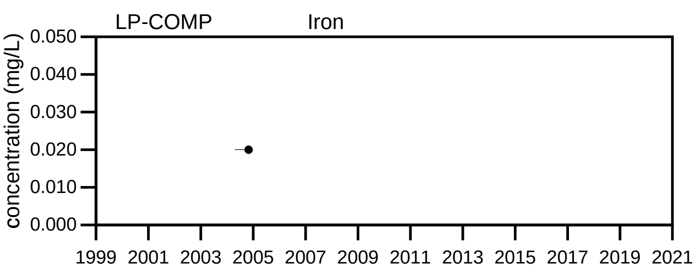


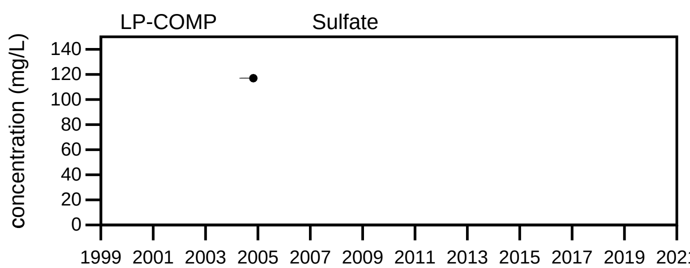


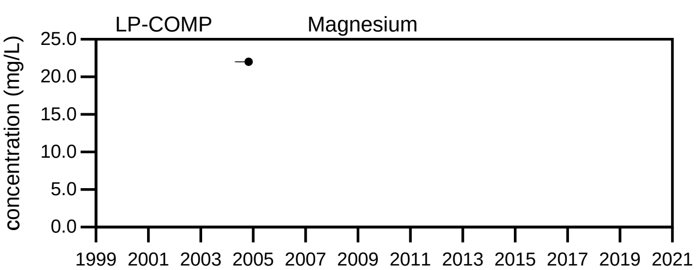
No data for Bromide at LP-COMP

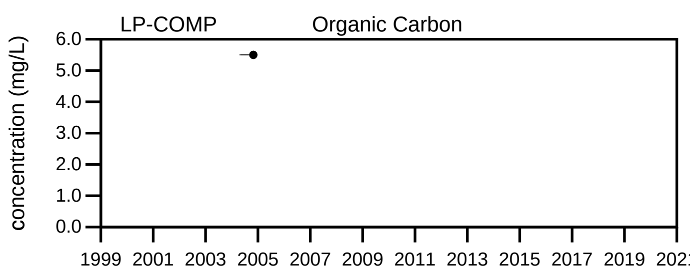


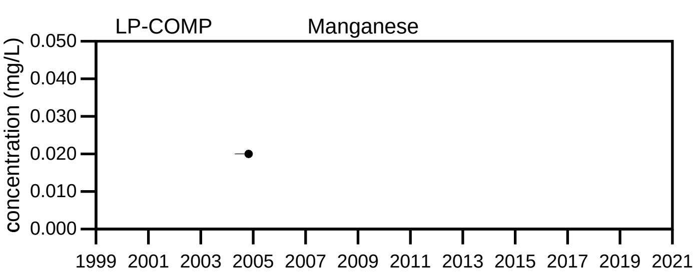


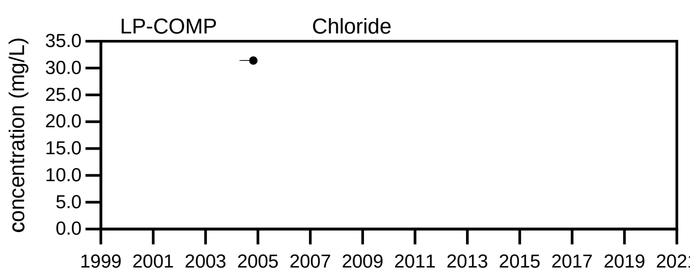












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value

- FFT smoothing of yearly mean values.
- Sample Event
- BDL

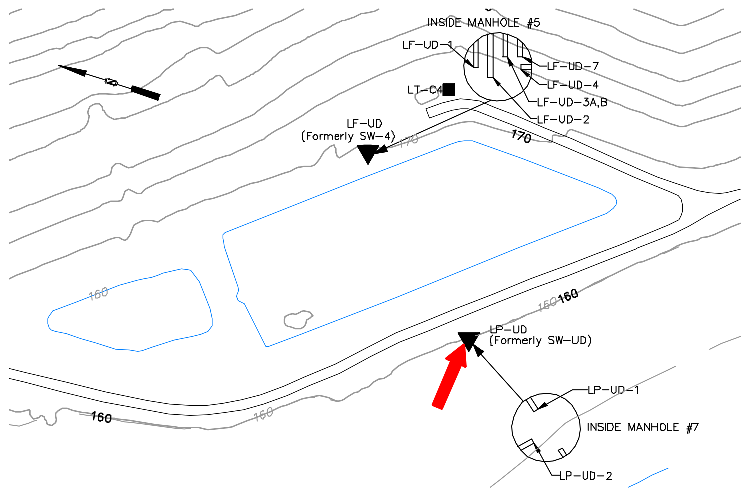
Juniper Ridge Landfill

LP-COMP

Sevee & Maher Engineers, Inc.

Well Description

LP-UD-1 is located at Manhole #7 and monitors the leachate underdrain from the southern end of the former leachate pond.



Sampled: **Monthly and 3 Times Annually**

Sampled Since: **07/28/04**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min		Max	Mean		SE	n
Specific Conductance (µmhos/cm @25°C)	H9	H9	H9	H9	241	to	517	380	±	140	2
pH (STU)	H9	H9	H9	H9	6.8	to	7.1	7	±	0.15	2
Temperature (Deg C)	H9	H9	H9	H9	6.2	to	8.3	7.3	±	1.1	2
Eh (mV)	H9	H9	H9	H9	368	to	370	370	±	1	2
Dissolved Oxygen (mg/L)	H9	H9	H9	H9	2.5	to	5	3.8	±	1.3	2
Flow Rate (cfs)	H9	H9	H9	H9	0.0011	to	0.0011	0.0011	±	0	1
Arsenic (mg/L)		F6	F6	F6	0.005 U	to	0.005 U	0.005	±	0	1
Calcium (mg/L)		F6	F6	F6	32	to	32	32	±	0	1
Iron (mg/L)		F6	F6	F6	0.05	to	0.05	0.05	±	0	1
Magnesium (mg/L)		F6	F6	F6	8.7	to	8.7	8.7	±	0	1
Manganese (mg/L)		F6	F6	F6	0.05 U	to	0.05 U	0.05	±	0	1
Potassium (mg/L)		F6	F6	F6	1.7	to	1.7	1.7	±	0	1
Sodium (mg/L)		F6	F6	F6	5.5	to	5.5	5.5	±	0	1
Nitrite/Nitrate - (N) (mg/L)		F6	F6	F6	0.31	to	0.31	0.31	±	0	1
Total Phosphorus Mixed Forms (PO4 and C		F6	F6	F6	0.04 U	to	0.04 U	0.04	±	0	1
Total Dissolved Solids (mg/L)		F6	F6	F6	163	to	163	160	±	0	1
Total Suspended Solids (mg/L)		F6	F6	F6	2.5 U	to	2.5 U	2.5	±	0	1
Sulfate (mg/L)		F6	F6	F6	23	to	23	23	±	0	1
Bicarbonate Alkalinity (CaCO3) (mg/L)		F6	F6	F6	120	to	120	120	±	0	1
Organic Carbon (mg/L)		F6	F6	F6	2 U	to	2 U	2	±	0	1
Chloride (mg/L)		F6	F6	F6	3.1	to	3.1	3.1	±	0	1
Bromide (mg/L)		F6	F6	F6	0.1 U	to	0.1 U	0.1	±	0	1
Turbidity (field) (NTU)	H9	H9	H9	H9	0	to	0.4	0.2	±	0.2	2

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

H9 = No flow from pipe. See LP-COMP for readings

F6 = No flow. Sample not taken.

Data Group: 537
Printed: 3/22/2021 10:53

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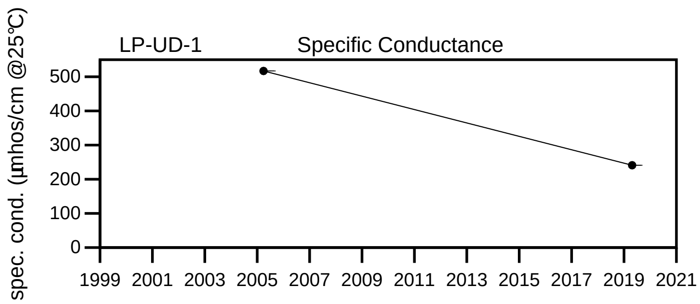
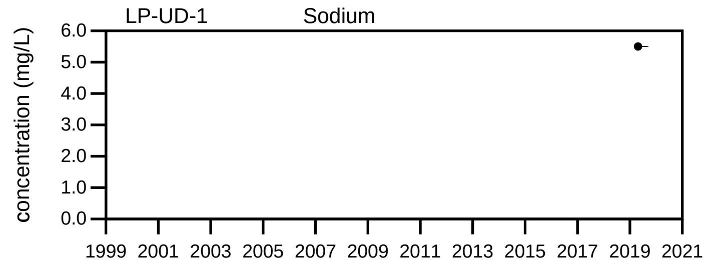
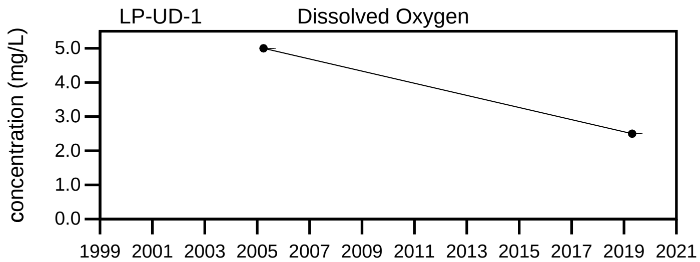
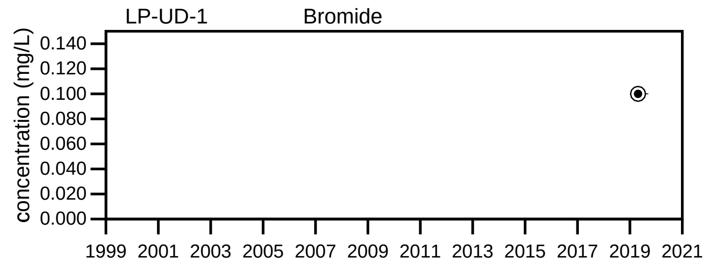
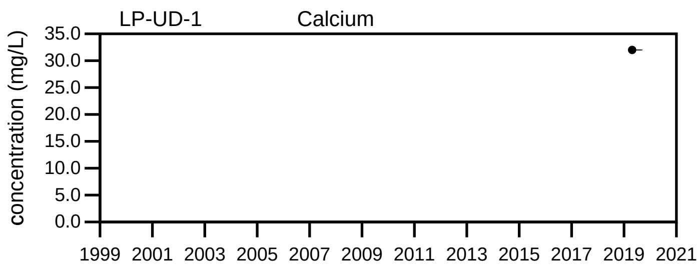
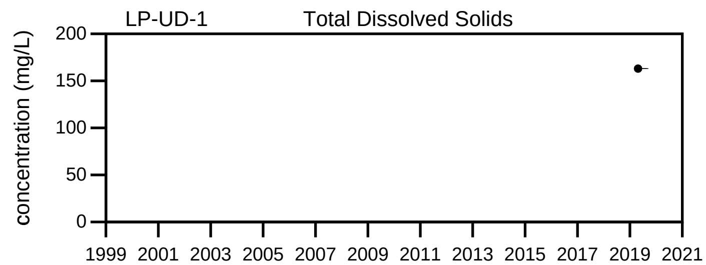


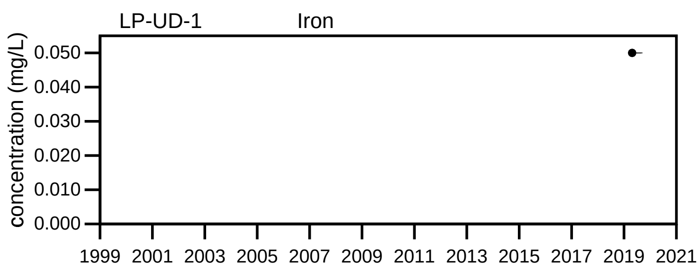


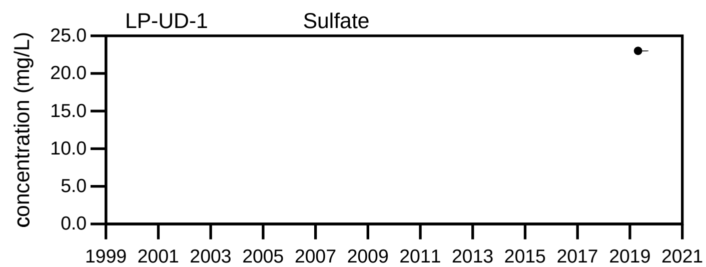


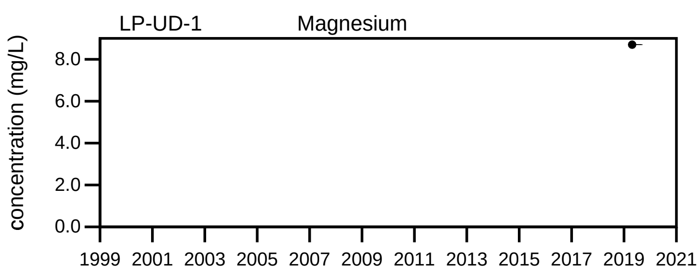


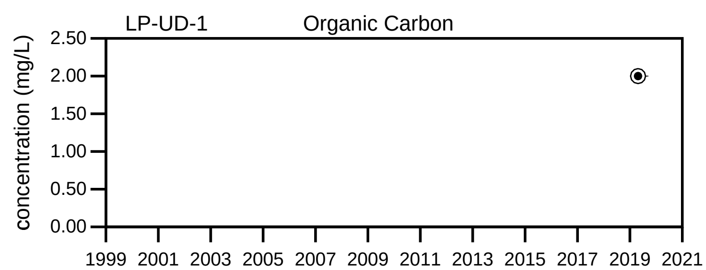


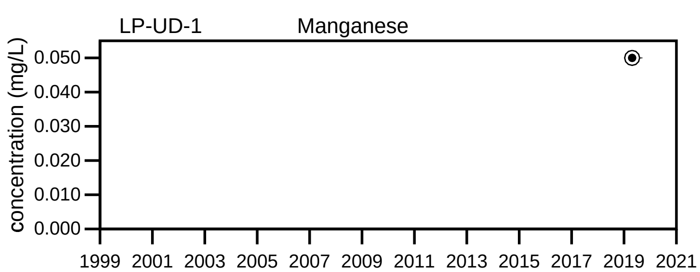


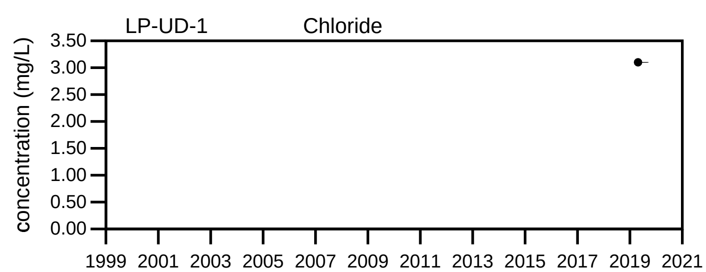












LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- Sample Event
- BDL

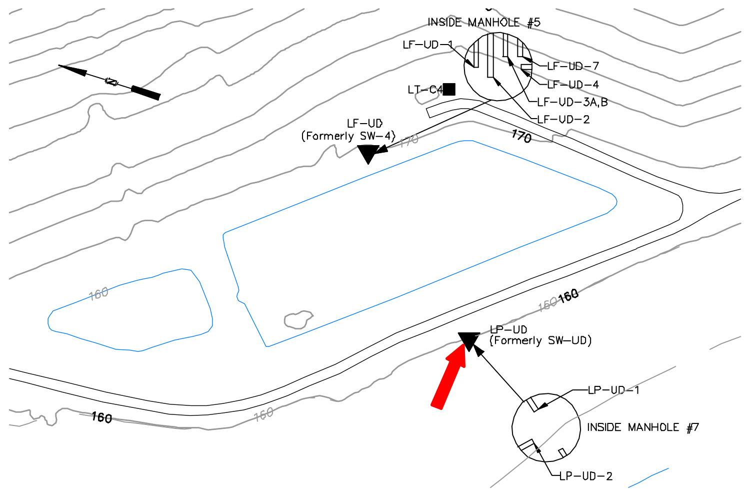
Juniper Ridge Landfill

LP-UD-1

Sevee & Maher Engineers, Inc.

Well Description

LP-UD-2 is located in Manhole #7 and monitors the water quality of the leachate underdrain on the north end of the former leachate pond.



Sampled: **Monthly and 3 Times Annually**

Sampled Since: **07/28/04**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean	SE	n
Specific Conductance (µmhos/cm @25°C)	256	304	310	292	110	834	330	± 6.1	177
pH (STU)	7.3	7.7	7.2	7.5	5.7	8.5	7.1	± 0.031	177
Temperature (Deg C)	8	7.4	22.1	15	1.3	25.2	13	± 0.38	177
Eh (mV)	423	336	414	419	157	520	340	± 4.8	176
Dissolved Oxygen (mg/L)	6	8.5	8	8.3	1	12	6.7	± 0.13	177
Flow Rate (cfs)	0.0067	0.0033	0.0017	0.0023	0.0002	0.0089	0.0019	± 0.000	136
Arsenic (mg/L)		0.005 U	0.005 U	0.005 U	0.001 U	0.024	0.0062	± 0.000	47
Calcium (mg/L)		36	38	40	28.8	68.2	38	± 1.1	47
Iron (mg/L)		0.05 U	0.17	0.61	0.02 U	2.86	0.18	± 0.078	47
Magnesium (mg/L)		10	12	12	7.7	21	11	± 0.33	47
Manganese (mg/L)		0.05 U	0.05 U	0.05 U	0.02 U	0.8	0.064	± 0.018	47
Potassium (mg/L)		1.7	2.8	2.1	1.7	25	3.4	± 0.51	47
Sodium (mg/L)		6.1	7.9	7.4	5.6	58	11	± 1.2	47
Nitrite/Nitrate - (N) (mg/L)		0.38	↓0.085	0.24	0.1	2 U	0.36	± 0.12	15
Total Phosphorus Mixed Forms (PO4 and C		0.04 U	0.04 U	↑0.17	0.01 U	0.11	0.03	± 0.003	47
Total Dissolved Solids (mg/L)		170	204	199	151	455	210	± 7.4	47
Total Suspended Solids (mg/L)		2.5 U	41	36	2.5 U	73	5.3	± 1.5	47
Sulfate (mg/L)		9.6	9.8	8.1	2 U	116	14	± 2.6	47
Bicarbonate Alkalinity (CaCO3) (mg/L)		140	150	150	90	229	140	± 3.9	47
Alkalinity (CaCO3) (field) (mg/L)	125	150	175	150	30	350	140	± 3.2	160
Organic Carbon (mg/L)		2 U	2 U	↑27 M10	0.7 U	6.3	2	± 0.13	47
Chloride (mg/L)		3.4	4.2	8.4	2.3	31.1	7.6	± 0.69	47
Bromide (mg/L)		0.1 U	0.13	0.12	0.1 U	0.2 U	0.12	± 0.009	21
Turbidity (field) (NTU)	0.7	0.4	0.6	0.8	0	60	1.3	± 0.35	176

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Q1= 1 - 2020
Q2= 4 - 2020
Q3= 7 - 2020
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

Data Group: 537
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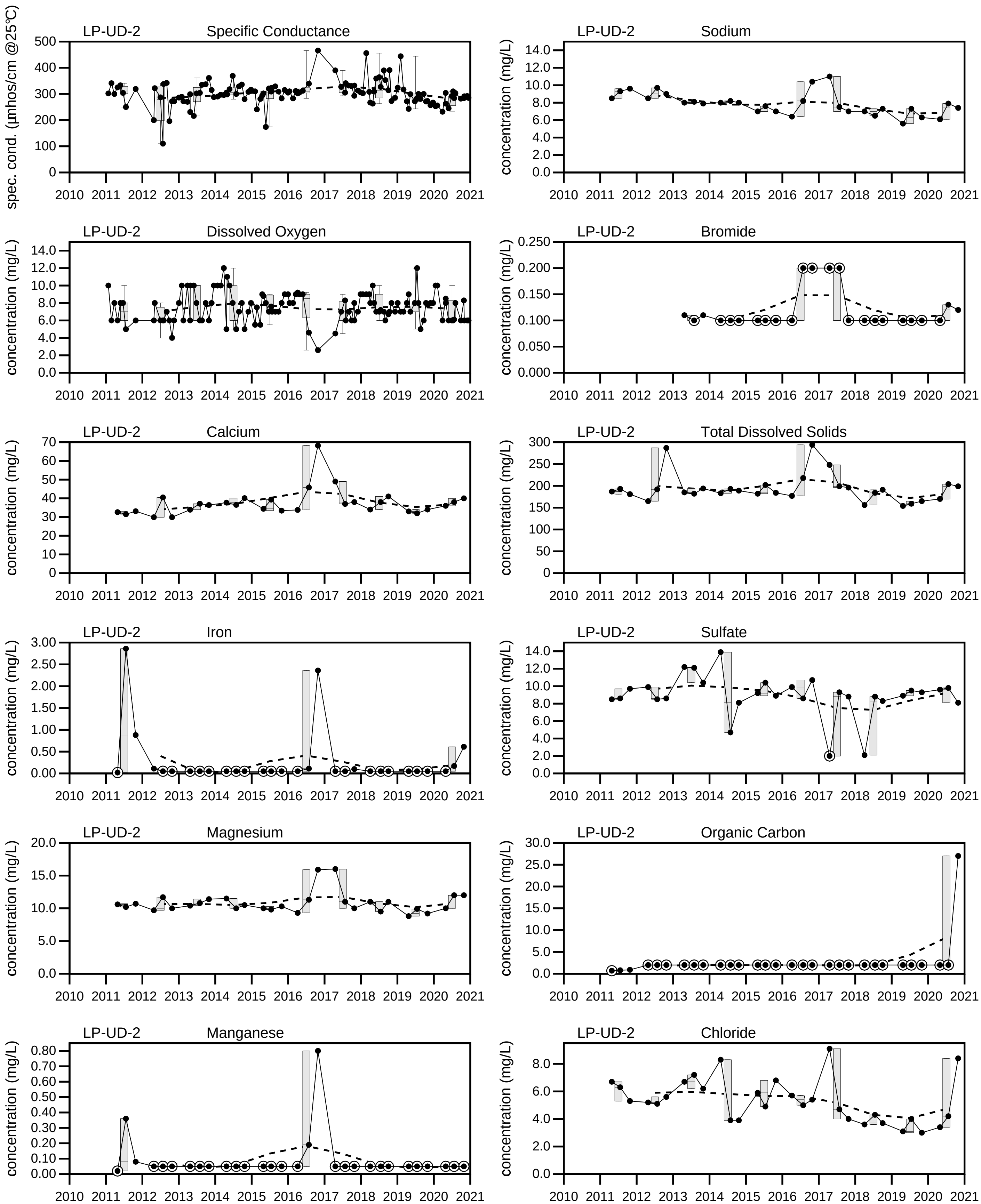


LEGEND

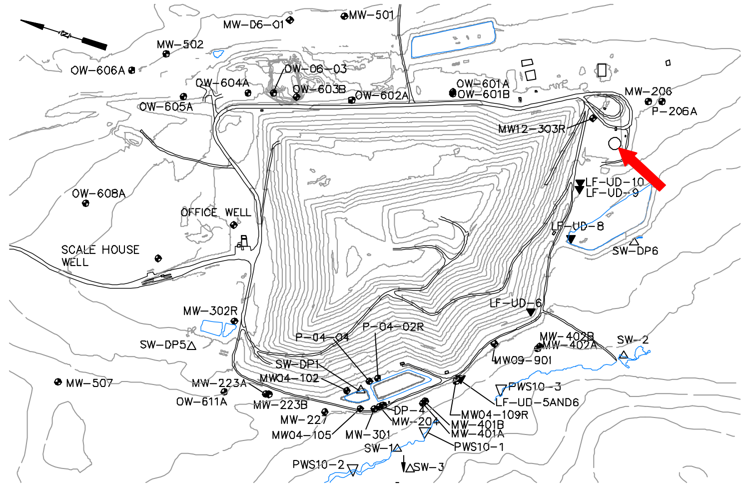
- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

LP-UD-2

Sevee & Maher Engineers, Inc.

Well Description



Leachate collection location at leachate storage tank.

Sampled: **3 Times Annually**

Sampled Since: **07/30/2013**

Sampling Method: **Grab**

Chemical Summary

Indicator Parameters	2020 Q1	2020 Q2	2020 Q3	2020 Q4	Historical (1/1/1980 - 12/31/2020) Min	Max	Mean ± SE	n
Nitrate (N) (mg/L)		210			5 U	to 1210	110 ± 54	23
Specific Conductance (µmhos/cm @25°C)		17490	25800	21900	11470	to 30700	22000 ± 900	33
pH (STU)		6.6	5.9	7.5	5.5	to 7.6	7 ± 0.076	33
Temperature (Deg C)		12.6	↑29	12.8	9.4	to 28.3	18 ± 0.89	33
Eh (mV)		-20	-311	-299	-178	to 238	19 ± 19	33
Dissolved Oxygen (mg/L)		2.8	1.1	D2	1	to 8	3.2 ± 0.89	9
Aluminum (mg/L)		0.54			0.201	to 0.72	0.41 ± 0.059	11
Antimony (mg/L)		0.005 U			0.005 U	to 0.065	0.019 ± 0.005	11
Arsenic (mg/L)		0.25	0.33	0.24	0.059	to 0.6	0.21 ± 0.024	33
Barium (mg/L)		0.94			0.77	to 1.873	1.3 ± 0.096	11
Beryllium (mg/L)		0.0006 U			0.0002 U	to 0.003 U	0.0013 ± 0.000	11
Cadmium (mg/L)		0.0053			0.0006 U	to 0.0161	0.005 ± 0.000	23
Calcium (mg/L)		300	310	310	259	to 1759	560 ± 58	33
Chromium (mg/L)		0.1			0.024	to 0.105	0.06 ± 0.009	11
Cobalt (mg/L)		0.01 U			0.01 U	to 0.05 U	0.026 ± 0.005	11
Copper (mg/L)		0.003 U			0.003 U	to 0.065	0.02 ± 0.004	23
Iron (mg/L)		6	↓3.5	7.5	5.1	to 179	31 ± 6.1	33
Lead (mg/L)		0.003 U			0.002	to 0.095	0.026 ± 0.009	11
Magnesium (mg/L)		220	340	250	179	to 532	340 ± 16	33
Manganese (mg/L)		1.7	↓1.3	14	1.5	to 26	6.6 ± 1.2	33
Mercury (mg/L)		0.0005 U			0.0002 U	to 0.0005 U	0.00042 ± 4E-05	11
Nickel (mg/L)		0.035			0.022	to 0.304	0.1 ± 0.014	23
Potassium (mg/L)		790	1400	900	580	to 1982	1300 ± 64	33
Selenium (mg/L)		0.022			0.005 U	to 0.098	0.03 ± 0.008	11
Silver (mg/L)		0.001 U			0.0003	to 0.2	0.025 ± 0.018	11
Sodium (mg/L)		1700	2800	2000	1024	to 8135	2500 ± 220	33
Thallium (mg/L)		0.004 U			0.001 U	to 0.02 U	0.0093 ± 0.002	11
Vanadium (mg/L)		0.039			0.01	to 0.1	0.037 ± 0.008	11
Zinc (mg/L)		0.046			0.011	to 0.604	0.14 ± 0.052	11
Tin (mg/L)		0.016			0.005 U	to 0.157	0.053 ± 0.015	11
Total Kjeldahl Nitrogen (mg/L)		730	780	660	290	to 1400	770 ± 43	31
Ammonia (N) (mg/L)		590			74	to 840	570 ± 40	23
Nitrite/Nitrate - (N) (mg/L)			0.2	0.05 U	0.05 U	to 10 U	1.5 ± 0.99	10
Total Dissolved Solids (mg/L)		10160	14610	10940	13	to 19816	13000 ± 720	33
Total Suspended Solids (mg/L)		48	8	29	5	to 625	80 ± 19	33
Sulfate (mg/L)		1300	2000	120	10.4	to 2900	820 ± 160	33
Sulfide (mg/L)		16			0.18	to 78	12 ± 3.9	22

Data Group: 538
Printed: 3/22/2021 10:12

SME SEVEE & MAHER ENGINEERS

Juniper Ridge Landfill						annual stats 2020 G7
Ca-mg Hardness (CaCO3) (mg/L)	1700			1400 to 6212	2500 ± 400	11
Bicarbonate Alkalinity (CaCO3) (mg/L)	2400	3100	2700	1370 to 4710	3000 ± 130	33
Alkalinity (CaCO3) (mg/L)	2400			1370 to 3700	2700 ± 230	11
Organic Carbon (mg/L)	880	500	1100 M10	110 to 2560	870 ± 120	33
Biochemical Oxygen Demand (mg/L)	200			39 to 4850	1400 ± 300	22
Chemical Oxygen Demand (mg/L)	1700			959 to 8110	3500 ± 450	23
Chloride (mg/L)	8300	13000	7400	2560 to 24300	12000 ± 930	33
Bromide (mg/L)	52	120	77	10 U to 188	66 ± 7.5	25
Cyanide (ug/L)	5 U			0.006 to 74	14 ± 7	11
Turbidity (field) (NTU)	D3	D3	741	6.1 to 1733	440 ± 130	20

underlined/bold - values exceed a regulatory standard listed below.

↑ indicates a value greater than the historical maximum value; ↓ indicates a value less than the historical minimum value.

Comments

Q2= 4 - 2020

Q3= 7 - 2020

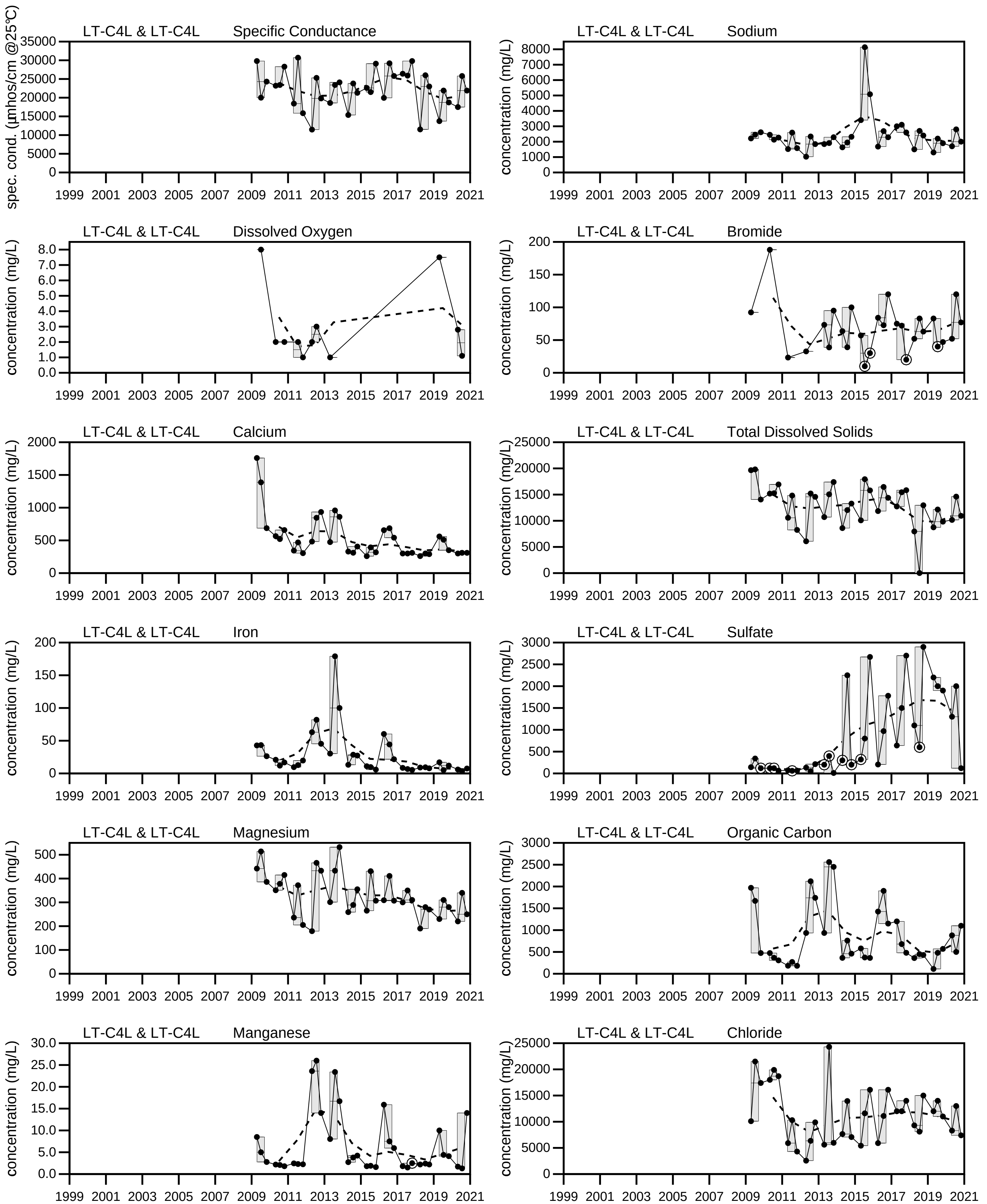
Q4= 10 - 2020

U = Not Detected above the laboratory reporting limit.

M10 = Due to a identified laboratory instrumentation malfunction, this analytical result is likely elevated–the laboratory has fixed the issue.

D3 = Sample too dark to take reading.

D2 = Sample too dark to read D.O. reading.



LEGEND

- Maximum Value
- 75th Percentile
- Median
- 25th Percentile
- Minimum Value
- FFT smoothing of yearly mean values.
- Sample Event
- BDL

Juniper Ridge Landfill

LT-C4L & LT-C4LR

Sevee & Maher Engineers, Inc.

APPENDIX F

MANN-KENDALL TREND ANALYSIS RESULTS

SME
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Summary of Mann-Kendall Trend Analysis
95% Confidence (alpha=0.05)
Juniper Ridge Landfill 2020

3-yr trend: 1/1/2018 to 12/31/2020 5-yr trend: 1/1/2016 to 12/31/2020

	Increasing Trends		Decreasing Trends		NoTrends	
LOCATION	3 Year	5 Year	3 Year	5 Year	3 Year	5 Year
LF-COMP	ALK (fld)	ALK (fld)	Spec Cond, DO	DO	pH, Temp, Eh, TURB (fld)	Spec Cond, pH, Temp, Eh, TURB (fld)
LF-UD-2	ALK (fld)	Spec Cond, Eh, Na, HCO3	Spec Cond, Eh, Flow Rate, Cl	Cl	pH, Temp, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, Bromide, TURB (fld), NO2/NO3 - N	pH, Temp, DO, Flow Rate, As, Ca, Fe, Mg, Mn, K, TDS, TSS, SO4, ALK (fld), OC, Bromide, TURB (fld), NO2/NO3 - N
LF-UD-5and6	pH, Temp, ALK (fld), TURB (fld)	Eh, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, Eh, DO, Flow Rate	K, TDS	As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, NO2/NO3 - N	Spec Cond, pH, Temp, DO, Flow Rate, As, Ca, Fe, Mg, Mn, Na, TSS, SO4, HCO3, ALK (fld), OC, Cl
LF-UD-6	NO2/NO3 - N		pH, HCO3	Spec Cond, pH, As, Ca, Mg, Na, HCO3	Spec Cond, Temp, Eh, DO, Flow Rate, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld)	Temp, Eh, DO, Flow Rate, Fe, Mn, K, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N
LP-COMP	pH, Temp, ALK (fld)	Eh, TURB (fld)	Spec Cond, DO		Eh, TURB (fld)	Spec Cond, pH, Temp, DO, ALK (fld)
LP-UD-2	Temp, SO4, HCO3, ALK (fld)	TURB (fld), NO2/NO3 - N	Spec Cond, Eh, TURB (fld)	Flow Rate, As, ALK (fld), Cl	pH, DO, Flow Rate, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, OC, Cl, Bromide, NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, Bromide
LT-C4LR	OC			Fe, HCO3, BOD5	Spec Cond, pH, Temp, Eh, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Sn, TKN, NH3 - N, NO3 - N, TDS, TSS, SO4, S=, Hard(CaMg), ALK, OC, COD, Cl, Bromide, CN, TURB (fld), NO2/NO3 - N
MW04-102		NO2/NO3 - N	pH	Spec Cond, As, **(TSS)**, Cl	Spec Cond, Temp, MP Elev, WLE NGVD29ft, Water Elev., Water Depth, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	pH, Temp, Water Elev., MP Elev, WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, SO4, HCO3, OC, Bromide, TURB (fld)
MW04-109R		pH, Mg, TURB (fld)	Spec Cond, Ca, TDS, SO4, Cl	As, Ca, **(TSS)**, SO4, Cl	pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, MP Elev, Eh, DO, As, Fe, Mg, Mn, K, Na, TKN, TSS, HCO3, OC, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, Temp, Water Elev., MP Elev, WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, Fe, Mn, K, Na, TKN, TDS, HCO3, OC, Bromide, NO2/NO3 - N
MW06-01	K				Spec Cond, pH, Temp, WLE NGVD29ft, MP Elev, Water Elev., Water Depth, Eh, DO, As, Ca, Fe, Mg, Mn, Na, TKN, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
MW09-901		Bromide	Spec Cond, Ca, K, TDS, Cl, NO2/NO3 - N	DO, As, K, Na, TKN, **(TSS)**	pH, Temp, MP Elev, Water Elev., WLE NGVD29ft, Water Depth, Eh, DO, As, Fe, Mg, Mn, Na, TKN, TSS, SO4, HCO3, OC, Bromide, TURB (fld)	Spec Cond, pH, Temp, Water Elev., MP Elev, Water Depth, WLE NGVD29ft, Eh, Well Depth, Ca, Fe, Mg, Mn, TDS, SO4, HCO3, OC, Cl, TURB (fld), NO2/NO3 - N
MW12-303R			Mg	Na	Spec Cond, pH, Temp, Water Elev., WLE NGVD29ft, MP Elev, Water Depth, Eh, DO, As, Ca, Fe, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, DO, Well Depth, As, Ca, Fe, Mg, Mn, K, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N
MW-206		Cl	Eh, As	Eh, As, TKN, **(Bromide)**	Spec Cond, pH, Temp, Water Elev., WLE NGVD29ft, Water Depth, MP Elev, DO, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, MP Elev, DO, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, TURB (fld), NO2/NO3 - N

MW-223A	Ca, HCO3, Bromide	Spec Cond, Ca, Mg, K, Na, SO4, HCO3, Bromide, NO2/NO3 - N	DO	pH, DO, As, **(TSS)**, Cl	Spec Cond, pH, Temp, Water Elev., WLE NGVD29ft, MP Elev, Water Depth, Eh, As, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, OC, Cl, TURB (fld), NO2/NO3 - N	Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, Well Depth, Fe, Mn, TKN, TDS, OC, TURB
MW-223B	Fe, TDS, HCO3, Bromide	Spec Cond, Ca, Mg, K, Na, TDS, SO4, HCO3, Bromide, NO2/NO3 - N	DO	**(TSS)**	Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, MP Elev, Eh, As, Ca, Mg, Mn, K, Na, TKN, TSS, SO4, OC, Cl, TURB (fld), Methane, NO2/NO3 - N	pH, Temp, MP Elev, Water Elev., WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, As, Fe, Mn, TKN, OC, Cl, TURB (fld), Methane
MW-227			Spec Cond	Spec Cond, **(TKN)**, Cl	pH, Temp, WLE NGVD29ft, MP Elev, Water Elev., Water Depth, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	pH, Temp, Water Depth, MP Elev, WLE NGVD29ft, Water Elev., Eh, DO, Well Depth, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, Bromide, TURB (fld), NO2/NO3 - N
MW-301	SO4	Spec Cond, Ca, Mg, TDS, Cl	NO2/NO3 - N	pH, As, TKN, TSS	Spec Cond, pH, Temp, MP Elev, Water Depth, WLE NGVD29ft, Water Elev., Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, HCO3, OC, Cl, Bromide, TURB (fld)	Temp, Water Depth, WLE NGVD29ft, Water Elev., Eh, DO, Well Depth, Fe, Mn, K, Na, SO4, HCO3, OC, Bromide, TURB (fld), NO2/NO3 - N
MW-302R		SO4, NO2/NO3 - N		**(TSS)**	Spec Cond, pH, Temp, WLE NGVD29ft, Water Depth, Water Elev., MP Elev, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, WLE NGVD29ft, MP Elev, Water Elev., Water Depth, Eh, DO, Well Depth, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, HCO3, OC, Cl, Bromide, TURB (fld)
MW-401A	TDS, HCO3, Cl	Cl		**(TKN)**, **(TSS)**, **(Bromide)**	Spec Cond, pH, Temp, MP Elev, Water Depth, Water Elev., WLE NGVD29ft, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TSS, SO4, OC, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, MP Elev, Water Depth, WLE NGVD29ft, Water Elev., Eh, DO, Well Depth, As, Ca, Fe, Mg, Mn, K, Na, TDS, SO4, HCO3, OC, TURB (fld), NO2/NO3 - N
MW-401B			Eh	Na, **(TKN)**, **(TSS)**	Spec Cond, pH, Temp, MP Elev, Water Elev., WLE NGVD29ft, Water Depth, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Water Elev., MP Elev, WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, As, Ca, Fe, Mg, Mn, K, TDS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N
MW-402A		Well Depth	Eh, TDS	**(TKN)**, TDS, **(TSS)**, **(Bromide)**	Spec Cond, pH, Temp, WLE NGVD29ft, Water Depth, Water Elev., MP Elev, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Water Elev., MP Elev, Water Depth, WLE NGVD29ft, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, SO4, HCO3, OC, Cl, TURB (fld), NO2/NO3 - N
MW-402B		TURB (fld)	TDS	As, TDS, Cl	Spec Cond, pH, Temp, Water Elev., Water Depth, WLE NGVD29ft, MP Elev, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Water Elev., MP Elev, WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, Ca, Fe, Mg, Mn, K, Na, TKN, TSS, SO4, HCO3, OC, Bromide, NO2/NO3 - N
MW-501					Spec Cond, pH, Temp, MP Elev, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
OW-06-03	Spec Cond, TURB (fld)				pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, DO	
OW-601A	Water Depth, K, Na, TDS, SO4		pH, WLE NGVD29ft, Water Elev.		Spec Cond, Temp, MP Elev, Eh, DO, As, Ca, Fe, Mg, Mn, TKN, TSS, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
OW-601B	Water Depth		Water Elev., WLE NGVD29ft		Spec Cond, pH, Temp, MP Elev, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
OW-602A	Water Depth		Water Elev., WLE NGVD29ft, DO		Spec Cond, pH, Temp, MP Elev, Eh, As, Ca, Fe, Mg, Mn, K, Na, TKN, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
OW-603B	Water Depth		Spec Cond, WLE NGVD29ft, Water Elev.		pH, Temp, MP Elev, Eh, DO, TURB (fld)	

OW-604A	Spec Cond, Water Depth, Mg, TDS		WLE NGVD29ft, Water Elev.		pH, Temp, MP Elev, Eh, DO, As, Ca, Fe, Mn, K, Na, TKN, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	
P-04-02R		HCO3	Spec Cond, Eh, Ca, Mg, Na, TDS, SO4, NO2/NO3 - N	Spec Cond, Ca, Mg, K, Na, **(TKN)**, TDS, **(TSS)**, SO4, Cl, **(Bromide)**	pH, Temp, Water Elev., Water Depth, MP Elev, WLE NGVD29ft, DO, As, Fe, Mn, K, TKN, TSS, HCO3, OC, Cl, Bromide, TURB (fld)	pH, Temp, MP Elev, Water Elev., WLE NGVD29ft, Water Depth, Eh, DO, Well Depth, As, Fe, Mn, OC, TURB (fld), NO2/NO3 - N
P-04-04	Mg, Cl	Mg, Na, Cl, NO2/NO3 - N		As, TSS, Bromide	Spec Cond, pH, Temp, Water Elev., WLE NGVD29ft, MP Elev, Water Depth, Eh, DO, As, Ca, Fe, Mn, K, Na, TKN, TDS, TSS, SO4, HCO3, OC, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, WLE NGVD29ft, Water Elev., Water Depth, MP Elev, Eh, DO, Well Depth, Ca, Fe, Mn, K, TKN, TDS, SO4, HCO3, OC, TURB (fld)
P-206A	DO, HCO3	Spec Cond, Water Depth, Ca, Mg, K, TDS, SO4, HCO3, Cl	As, Na	Water Elev., WLE NGVD29ft, As, Mn, TKN	Spec Cond, pH, Temp, MP Elev, Water Elev., Water Depth, WLE NGVD29ft, Eh, Ca, Fe, Mg, Mn, K, TKN, TDS, TSS, SO4, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	pH, Temp, MP Elev, Eh, DO, Well Depth, Fe, Na, TSS, OC, Bromide, TURB (fld), NO2/NO3 - N
PWS10-1	Mg, TDS, Cl	K, OC	NO2/NO3 - N	**(Bromide)**	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mn, K, Na, TSS, SO4, HCO3, OC, Bromide, TURB (fld), Methane	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, Na, TDS, TSS, SO4, HCO3, Cl, TURB (fld), Methane, NO2/NO3 - N
PWS10-2	K, Cl, TURB (fld)	K, Na, SO4, Cl	Eh	As, **(Bromide)**	Spec Cond, pH, Temp, DO, As, Ca, Fe, Mg, Mn, Na, TDS, TSS, SO4, HCO3, OC, Bromide, Methane, NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, Ca, Fe, Mg, Mn, TDS, TSS, HCO3, OC, TURB (fld), Methane, NO2/NO3 - N
PWS10-3	HCO3, TURB (fld)			SO4	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, OC, Cl, Bromide, Methane, NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, HCO3, OC, Cl, Bromide, TURB (fld), Methane, NO2/NO3 - N
SW-1	Na, TDS, Cl	Mg, K, Na, TDS			Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, TSS, SO4, HCO3, OC, BOD5, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mn, TSS, SO4, HCO3, OC, BOD5, Cl, Bromide, TURB (fld), NO2/NO3 - N
SW-2				**(Bromide)**	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, BOD5, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, BOD5, Cl, TURB (fld), NO2/NO3 - N
SW-3	K	K		BOD5, TURB (fld)	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, Na, TDS, TSS, SO4, HCO3, OC, BOD5, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, Na, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, NO2/NO3 - N
SW-DP1	Spec Cond, Ca, Mg, Mn, K, Na, TDS, SO4, HCO3, OC, Cl	Ca, SO4, OC	Eh		pH, Temp, DO, As, Fe, TSS, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Fe, Mg, Mn, K, Na, TDS, TSS, HCO3, Cl, Bromide, TURB (fld), NO2/NO3 - N
SW-DP5	Mn, K, OC				Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Na, TDS, TSS, SO4, HCO3, Cl, Bromide, TURB (fld), NO2/NO3 - N	
SW-DP6			Eh	Cl, **(Bromide)**	Spec Cond, pH, Temp, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, Cl, Bromide, TURB (fld), NO2/NO3 - N	Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, K, Na, TDS, TSS, SO4, HCO3, OC, TURB (fld), NO2/NO3 - N
DP-4						Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, DO, Well Depth, TURB (fld)
MW04-105						Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, DO, Well Depth, TURB (fld)
MW-204						Spec Cond, pH, Temp, Water Depth, WLE NGVD29ft, Water Elev., MP Elev, Eh, DO, Well Depth, TURB (fld)

Key

Ag = Silver	Al = Aluminum	ALK (fld) = Alkalinity (CaCO3) (field)
ALK = Alkalinity (CaCO3)	As = Arsenic	Ba = Barium
Be = Beryllium	BOD5 = Biochemical Oxygen Demand	Bromide = Bromide
Ca = Calcium	Cd = Cadmium	Cl = Chloride
CN = Cyanide	Co = Cobalt	COD = Chemical Oxygen Demand
Cr = Chromium	Cu = Copper	DO = Dissolved Oxygen
Eh = Eh	Fe = Iron	Flow Rate = Flow Rate
Hard(CaMg) = Ca-mg Hardness (CaCO3)	HCO3 = Bicarbonate Alkalinity (CaCO3)	Hg = Mercury
K = Potassium	Methane = Methane	Mg = Magnesium
Mn = Manganese	MP Elev = Water Level Reference Point	Na = Sodium
NH3 - N = Ammonia (N)	Ni = Nickel	NO2/NO3 - N = Nitrite/Nitrate - (N)
NO3 - N = Nitrate (N)	OC = Organic Carbon	P = Total Phosphorus Mixed Forms (PO4 an
Pb = Lead	pH = pH	S= = Sulfide
Sb = Antimony	Se = Selenium	Sn = Tin
SO4 = Sulfate	Spec Cond = Specific Conductance	TANNIC = Tannin & Lignins (Tannic Acid)
TDS = Total Dissolved Solids	Temp = Temperature	TKN = Total Kjeldahl Nitrogen
Tl = Thallium	TSS = Total Suspended Solids	TURB (fld) = Turbidity (field)
V = Vanadium	Water Depth = Water Level Depth	Water Elev. = Water Level Elevation
Well Depth = Well Depth	Zn = Zinc	

- Values below the laboratory PQL (non-detects) are divided by 2. All other data qualifiers are ignored but any associated value is used.

- Samples collected for data quality control are not analyzed.

- Data sets with less than 5 data points are not analyzed.

- Data sets with a period shorter than the intended period of analysis (e.g. 3-yr analysis or 5-yr analysis) are not analyzed.

- Significant events in historical data can affect the distribution in a way that compromises the assumption of a monotonic data set. Events could include the cessation of filtering, a spill, changing sampling protocols or analytical method changes that alter the detection limit.

Note: Parameters in parentheses and bold text were excluded from SME's evaluation of the statistical screen due to all or most data values being non-detect with variable laboratory detection limits. These parameters were identified with statistically significant decreasing trends (95% confidence level) over the past five years, but are considered for the purposes of this analysis to have no discernible statistically significant trends.

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Gilbert, R.O., Statistical Methods for Environmental Pollution Monitoring, Van Nostrand Reinhold, 1987, pp. 204 – 240 and 272.

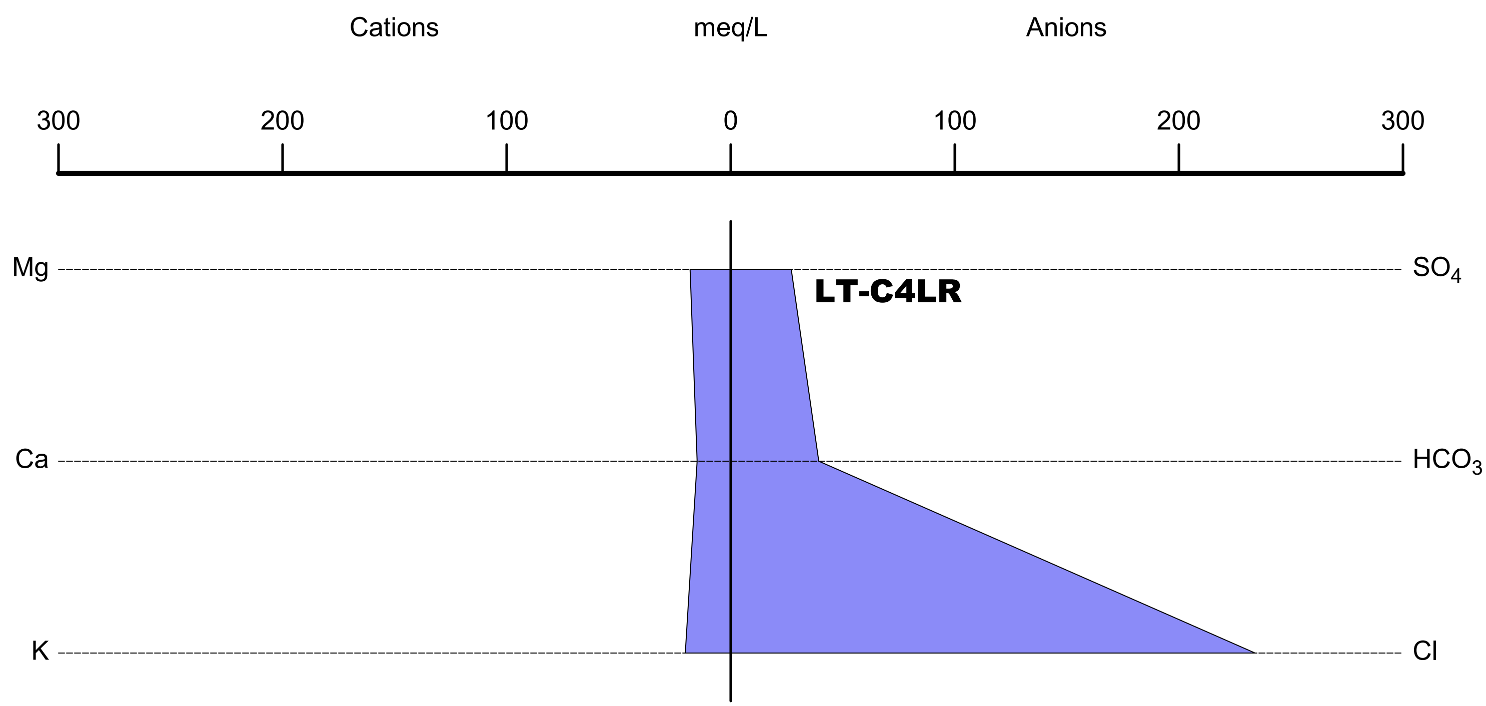
Hollander, M. and Wolfe, A.M Nonparameteric Statistical Methods, John Wiley Sons, 1999

APPENDIX G

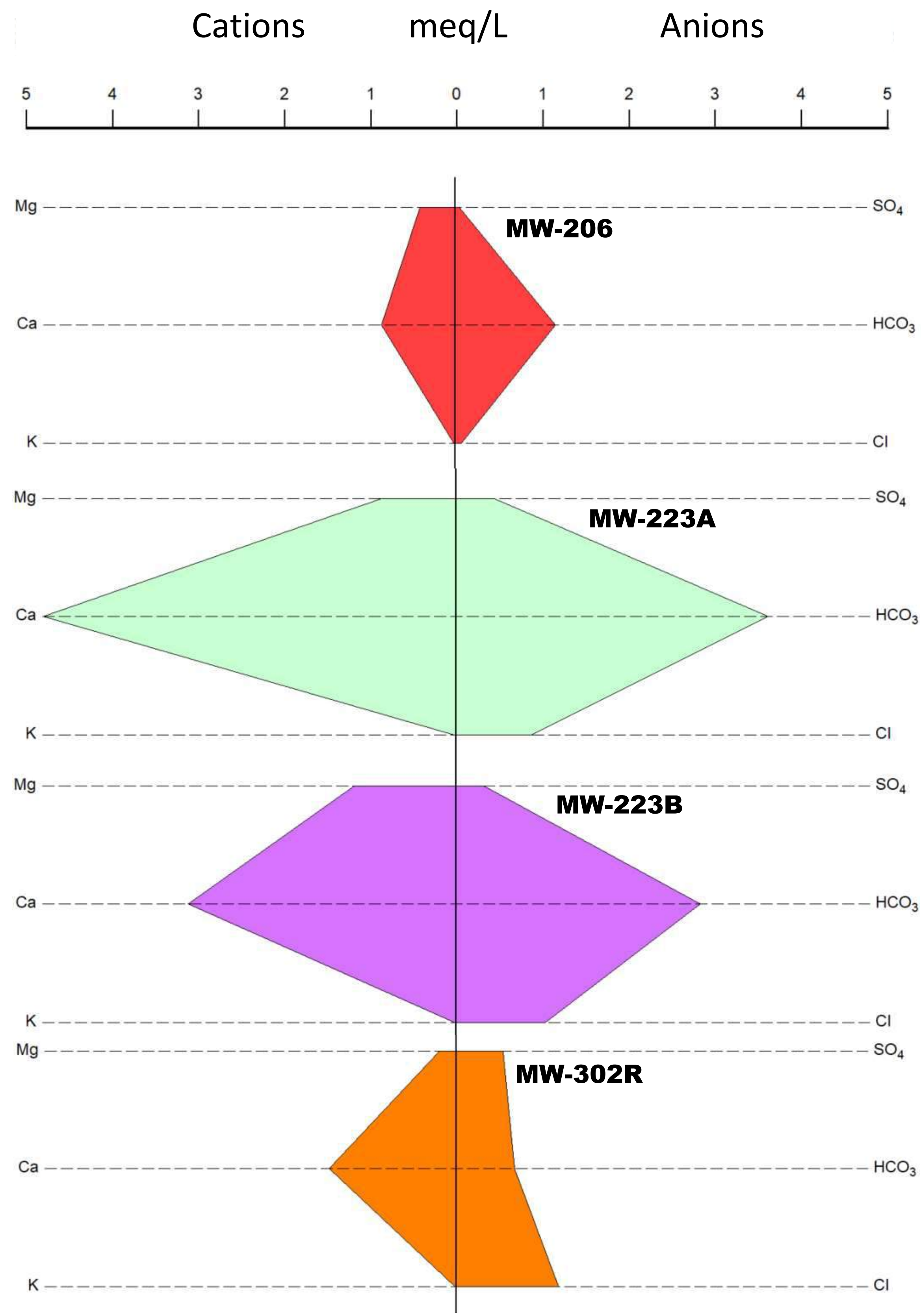
STIFF AND PIPER DIAGRAMS FOR MW-206, MW-223A, MW-223B, MW-302R, AND LT-C4LR

SME
SEVEE & MAHER
ENGINEERS

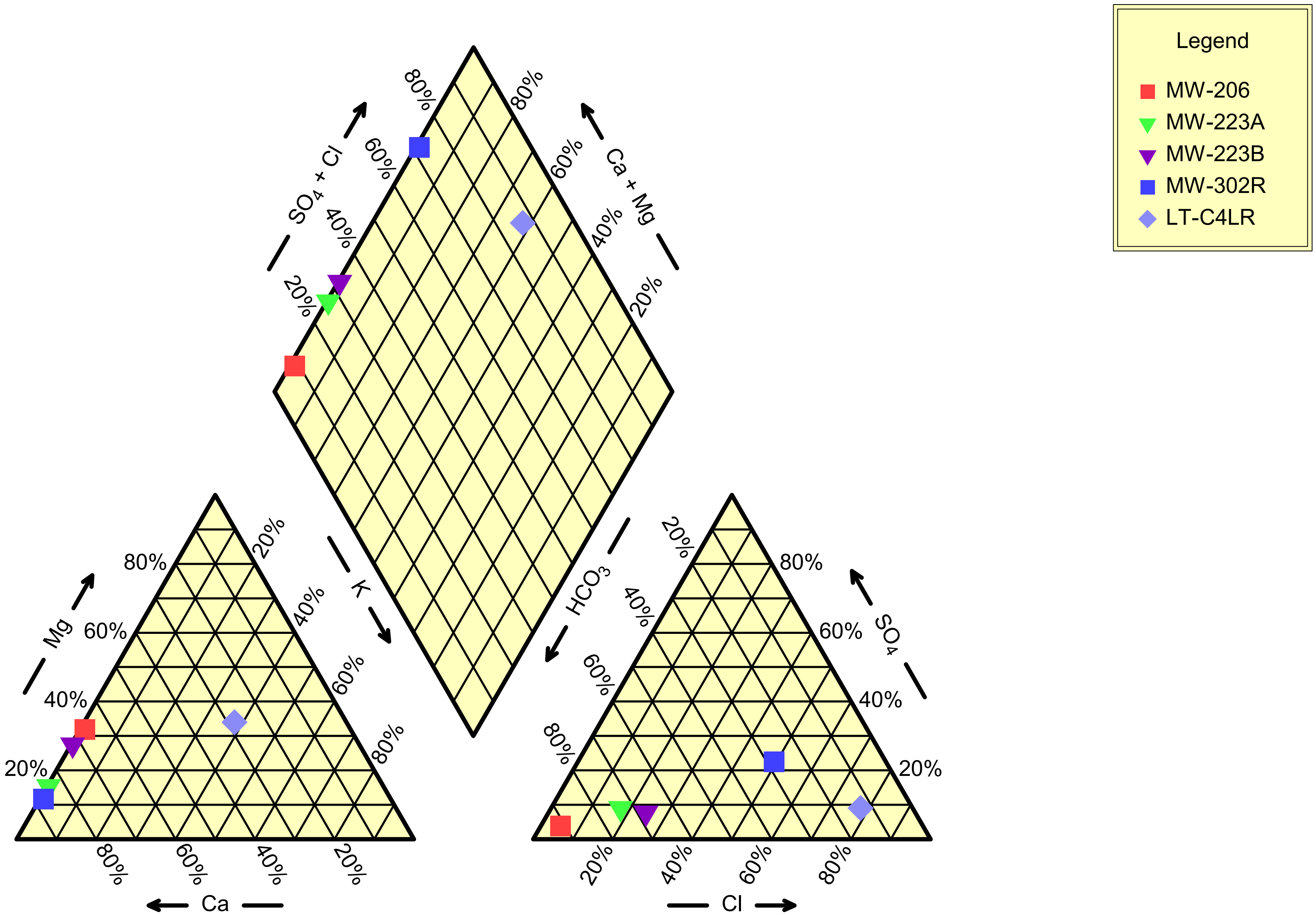
Stiff Diagram - April 2020



Stiff Diagram - April 2020



Piper Diagram - April 2020



APPENDIX H

2020 AND HISTORICAL GAS MEASUREMENT DATA

SME
SEVEE & MAHER
ENGINEERS

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

(DP-4)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
DP-4						
4/26/2010	0.1 US		0		19.8	0
7/19/2010	0.1 US		0		20.4	0
10/18/2010	0.1 US	0.1 US	0	0	21.2	0
4/25/2011	0.1 US	0.1 US	0	0	20.7	0
7/18/2011	0.1 US	0.1 US	0	0	20.3	0
10/24/2011	0.1 US	0.1 US	0	0	20.8	0
4/25/2012	0.1 US	0.1 US	0	0	20.4	0
7/25/2012	0.1 US	0.1 US	0	0	20.7	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/24/2013	0.1 US	0.1 US	0	0	20.8	0
7/31/2013	0.1 US	0.1 US	0	0	20.5	0
10/30/2013	0.1 US	0.1 US	0	0	21.1	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.2	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/29/2015	0.1 US	0.1 US	0	0	21.5	0
7/14/2015	0.1 US	0.1 US	0	0	20.7	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/6/2016	0.1 US	0.1 US	0	0	19.5	0
7/25/2016	0.1 US	0.1 US	0	0	20.4	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0
LT-C4L & LT-C4LR						
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.1	0
10/19/2010	0.1 US	0.1 US	0	0	21.4	0
4/27/2011	0.1 US	0.1 US	0	0	20.8	0
7/19/2011	0.1 US	0.1 US	0	0	20.3	0
10/25/2011	0.1 US	0.1 US	0	0	20.2	0
4/24/2012	0.1 US	0.1 US	0	0	20.3	0
7/25/2012	0.1 US	0.1 US	0	0	20.7	0
10/23/2012	0.1 US	0.1 US	0	0	21.1	0
4/23/2013	0.1 US	0.1 US	0	0	20.6	0
7/30/2013	0.1 US	0.1 US	0	0	20.6	0
10/29/2013	0.1 US	0.1 US	0	0	21.4	0
4/21/2014	0.1 US	0.1 US	0	0	20.8	0

(LT-C4L & LT-C4LR)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/30/2014	0.1 US	0.1 US	0	0	20.1	0
10/21/2014	0.1 US	0.1 US	0	0	20.8	0
4/29/2015	0.1 US	0.1 US	0	0	22.4	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/6/2016	0.1 US	0.1 US	0	0	19.6	0
7/26/2016	0.1 US	0.1 US	0	0	20.3	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	20.9	0
7/16/2018	0.1 US	0.1 US	0	0	20.1	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

LF-UD

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.1	0
10/19/2010	0.1 US	0.1 US	0	0	21	0
4/26/2011	0.1 US	0.1 US	0	0	20.8	0
7/19/2011	0.1 US	0.1 US	0	0	19.8	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/24/2012	0.1 US	0.1 US	0	0	20.2	0
10/23/2012	0.1 US	0.1 US	0	0	21.1	0
4/23/2013	0.1 US	0.1 US	0	0	20.6	0
7/30/2013	0.1 US	0.1 US	0	0	20.9	0
10/29/2013	0.1 US	0.1 US	0	0	20.5	0
4/22/2014	0.1 US	0.1 US	0	0	20.3	0
7/30/2014	0.1 US	0.1 US	0	0	20.5	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	24.8	0
7/14/2015	0.1 US	0.1 US	0	0	20.1	0
10/27/2015	0.1 US	0.1 US	0	0	22	0
4/5/2016	0.1 US	0.1 US	0	0	20.3	0
7/26/2016	0.1 US	0.1 US	0	0	20.7	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	17.2	0
10/2/2018	0.1 US	0.1 US	0	0	20.9	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0

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(LF-UD) Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.8	0

LP-LD

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.6	0
7/19/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21	0
4/26/2011	0.1 US	0.1 US	0	0	20.8	0
7/19/2011	0.1 US	0.1 US	0	0	19.9	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/24/2012	0.1 US	0.1 US	0	0	20.3	0
7/24/2012	0.1 US	0.1 US	0	0	20.7	0
10/23/2012	0.1 US	0.1 US	0	0	20.9	0
4/23/2013	0.1 US	0.1 US	0	0	20.6	0
7/30/2013	0.1 US	0.1 US	0	0	20.6	0
10/29/2013	0.1 US	0.1 US	0	0	20.7	0
4/22/2014	0.1 US	0.1 US	0	0	20.3	0
7/30/2014	0.1 US	0.1 US	0	0	20.5	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	22.1	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.3	0
7/26/2016	0.1 US	0.1 US	0	0	18.9	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20	0
10/2/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

LP-UD

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.1	0
7/21/2010	0.1 US		0		20.6	0
10/19/2010	0.1 US	0.1 US	0	0	21	0
4/26/2011	0.1 US	0.1 US	0	0	20.8	0
7/19/2011	0.1 US	0.1 US	0	0	20	0
10/26/2011	0.1 US	0.1 US	0	0	20.7	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/24/2012	0.1 US	0.1 US	0	0	20.7	0

(LP-UD)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/23/2012	0.1 US	0.1 US	0	0	21.2	0
4/23/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20.7	0
10/29/2013	0.1 US	0.1 US	0	0	20.8	0
4/22/2014	0.1 US	0.1 US	0	0	20.3	0
7/30/2014	0.1 US	0.1 US	0	0	20.5	0
10/21/2014	0.1 US	0.1 US	0	0	21.1	0
4/28/2015	0.1 US	0.1 US	0	0	22.1	0
7/14/2015	0.1 US	0.1 US	0	0	20.8	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.3	0
7/26/2016	0.1 US	0.1 US	0	0	20.4	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20	0
10/2/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW04-102

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.8	0
7/21/2010	0.1 US		0		20.1	0
10/19/2010	0.1 US	0.1 US	0	0	21.1	0
4/25/2011	0.1 US	0.1 US	0	0	21.1	0
7/19/2011	0.1 US	0.1 US	0	0	20.2	0
10/25/2011	0.1 US	0.1 US	0	0	21	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.2	0
10/22/2012	0.1 US	0.1 US	0	0	21.2	0
4/23/2013	0.1 US	0.1 US	0	0	20.8	0
7/31/2013	0.1 US	0.1 US	0	0	20.7	0
10/28/2013	0.1 US	0.1 US	0	0	20.8	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.5	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/29/2015	0.1 US	0.1 US	0	0	22.4	0
7/14/2015	0.1 US	0.1 US	0	0	20.8	0
10/27/2015	0.1 US	0.1 US	0	0	21.5	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20.4	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/19/2017	0.1 US	0.1 US	0	0	20.2	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0

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(MW04-102)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/25/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW04-105

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.7	0
7/19/2010	0.1 US		0		20.5	0
10/18/2010	0.1 US	0.1 US	0	0	21.2	0
4/26/2011	0.1 US	0.1 US	0	0	20.9	0
7/18/2011	0.1 US	0.1 US	0	0	20.2	0
10/25/2011	0.1 US	0.1 US	0	0	21	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.2	0
10/22/2012	0.1 US	0.1 US	0	0	21.1	0
4/24/2013	0.1 US	0.1 US	0	0	20.8	0
7/30/2013	0.1 US	0.1 US	0	0	20.5	0
10/29/2013	0.1 US	0.1 US	0	0	21.5	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.2	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	20.9	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20.5	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/19/2017	0.1 US	0.1 US	0	0	20.4	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.6	0
10/1/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW04-109R

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.8	0
7/20/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21.3	0

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(MW04-109R)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/26/2011	0.1 US	0.1 US	0	0	21	0
7/19/2011	0.1 US	0.1 US	0	0	20.4	0
10/25/2011	0.1 US	0.1 US	0	0	20.3	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.4	0
10/23/2012	0.1 US	0.1 US	0	0	21.2	0
4/23/2013	0.1 US	0.1 US	0	0	20.8	0
7/30/2013	0.1 US	0.1 US	0	0	20.4	0
10/29/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.5	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	20.7	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.5	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20.5	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20.4	0
10/2/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW06-01

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/22/2019	0.1 US					
4/23/2019		0.1 US	0	0	20.9	0

MW-204

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/19/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21.2	0
4/27/2011	0.1 US	0.1 US	0	0	20.9	0
7/19/2011	0.1 US	0.1 US	0	0	20.4	0
10/25/2011	0.1 US	0.1 US	0	0	20	0
4/25/2012	0.1 US	0.1 US	0	0	20.2	0
7/23/2012	0.1 US	0.1 US	0	0	20.4	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/24/2013	0.1 US	0.1 US	0	0	20.7	0
7/31/2013	0.1 US	0.1 US	0	0	20.6	0
10/30/2013	0.1 US	0.1 US	0	0	21.1	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.3	0

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Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/29/2015	0.1 US	0.1 US	0	0	21.4	0
7/14/2015	0.1 US	0.1 US	0	0	20.8	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/6/2016	0.1 US	0.1 US	0	0	19.5	0
7/26/2016	0.1 US	0.1 US	0	0	20.4	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.4	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	20.9	0
7/16/2018	0.1 US	0.1 US	0	0	20.6	0
10/1/2018	0.1 US	0.1 US	0	0	19.8	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.8	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-206

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/26/2010	0.1 US		0		20.4	0
7/19/2010	0.1 US		0		20	0
10/18/2010	0.1 US	0.1 US	0	0	21.1	0
4/25/2011	0.1 US	0.1 US	0	0	20.4	0
7/18/2011	0.1 US	0.1 US	0	0	20.5	0
10/24/2011	0.1 US	0.1 US	0	0	20.6	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.2	0
10/22/2012	0.1 US	0.1 US	0	0	21.1	0
4/22/2013	0.1 US	0.1 US	0	0	20.5	0
7/31/2013	0.1 US	0.1 US	0	0	20.6	0
10/28/2013	0.1 US	0.1 US	0	0	20.8	0
4/21/2014	0.1 US	0.1 US	0	0	20.6	0
7/29/2014	0.1 US	0.1 US	0	0	20.2	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.9	0
7/13/2015	0.1 US	0.1 US	0	0	21	0
10/26/2015	0.1 US	0.1 US	0	0	21	0
4/4/2016	0.1 US	0.1 US	0	0	20.8	0
7/26/2016	0.1 US	0.1 US	0	0	20.5	0
10/24/2016	0.1 US	0.1 US	0	0	20.7	0
4/17/2017	0.1 US	0.1 US	0	0	21.2	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/2/2018	0.1 US	0.1 US	0	0	20.8	0
7/16/2018	0.1 US	0.1 US	0	0	20.3	0
10/1/2018	0.1 US	0.1 US	0	0	20.9	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0

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(MW-206)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-223A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.7	0
7/20/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21.2	0
4/26/2011	0.1 US	0.1 US	0	0	21.1	0
7/19/2011	0.1 US	0.1 US	0	0	20.1	0
10/25/2011	0.1 US	0.1 US	0	0	20.9	0
4/25/2012	0.1 US	0.1 US	0	0	20.2	0
7/23/2012	0.1 US	0.1 US	0	0	20.1	0
10/23/2012	0.1 US	0.1 US	0	0	21.3	0
4/23/2013	0.1 US	0.1 US	0	0	20.8	0
7/30/2013	0.1 US	0.1 US	0	0	19.9	0
10/29/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.1	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	20.7	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20.2	0
10/2/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/28/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-223B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.7	0
7/20/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21.2	0
4/26/2011	0.1 US	0.1 US	0	0	21.1	0
7/19/2011	0.1 US	0.1 US	0	0	20	0
10/25/2011	0.1 US	0.1 US	0	0	20.9	0
4/25/2012	0.1 US	0.1 US	0	0	20.2	0
7/23/2012	0.1 US	0.1 US	0	0	20.1	0
10/23/2012	0.1 US	0.1 US	0	0	21.3	0

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(MW-223B)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20	0
10/29/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.1	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	20.7	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20.3	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	21	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20.2	0
10/2/2018	0.1 US	0.1 US	0	0	21.2	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/28/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-227

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.8	0
7/20/2010	0.1 US		0		20.3	0
10/19/2010	0.1 US	0.1 US	0	0	21.3	0
4/26/2011	0.1 US	0.1 US	0	0	20.9	0
7/19/2011	0.1 US	0.1 US	0	0	20.1	0
10/25/2011	0.1 US	0.1 US	0	0	20.8	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.1	0
10/23/2012	0.1 US	0.1 US	0	0	21.2	0
4/23/2013	0.1 US	0.1 US	0	0	20.8	0
7/30/2013	0.1 US	0.1 US	0	0	19.8	0
10/29/2013	0.1 US	0.1 US	0	0	21.4	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.1	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	20.8	0
7/14/2015	0.1 US	0.1 US	0	0	20.7	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.7	0
7/26/2016	0.1 US	0.1 US	0	0	20.3	0
10/25/2016	0.1 US	0.1 US	0	0	20.6	0
4/18/2017	0.1 US	0.1 US	0	0	20.9	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0

(MW-227)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.3	0
10/2/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/28/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-301

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/26/2010	0.1 US		0		19.8	0
7/19/2010	0.1 US		0		20.4	0
10/19/2010	0.1 US	0.1 US	0	0	21.2	0
4/27/2011	0.1 US	0.1 US	0	0	20.9	0
7/20/2011	0.1 US	0.1 US	0	0	20.1	0
10/25/2011	0.1 US	0.1 US	0	0	20.1	0
4/25/2012	0.1 US	0.1 US	0	0	20.2	0
7/25/2012	0.1 US	0.1 US	0	0	20.7	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/22/2013	0.1 US	0.1 US	0	0	20.8	0
7/31/2013	0.1 US	0.1 US	0	0	20.5	0
10/30/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.3	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/29/2015	0.1 US	0.1 US	0	0	21	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.5	0
4/6/2016	0.1 US	0.1 US	0	0	19.6	0
7/27/2016	0.1 US	0.1 US	0	0	18.7	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/19/2017	0.1 US	0.1 US	0	0	20.1	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/25/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.6	0
10/1/2018	0.1 US	0.1 US	0	0	21.2	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-302R

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/26/2010	0.1 US		0		20.2	0
7/19/2010	0.1 US		0		20.4	0
10/18/2010	0.1 US	0.1 US	0	0	21	0
4/25/2011	0.1 US	0.1 US	0	0	20.4	0

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(MW-302R)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/18/2011	0.1 US	0.1 US	0	0	20.5	0
10/24/2011	0.1 US	0.1 US	0	0	20.5	0
4/25/2012	0.1 US	0.1 US	0	0	20.2	0
7/23/2012	0.1 US	0.1 US	0	0	20.3	0
10/22/2012	0.1 US	0.1 US	0	0	21.2	0
4/22/2013	0.1 US	0.1 US	0	0	20.5	0
7/31/2013	0.1 US	0.1 US	0	0	20.7	0
10/28/2013	0.1 US	0.1 US	0	0	21	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/29/2014	0.1 US	0.1 US	0	0	20.3	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.9	0
7/13/2015	0.1 US	0.1 US	0	0	20.9	0
10/26/2015	0.1 US	0.1 US	0	0	21.3	0
4/4/2016	0.1 US	0.1 US	0	0	20.6	0
7/25/2016	0.1 US	0.1 US	0	0	20.5	0
10/24/2016	0.1 US	0.1 US	0	0	20.6	0
4/17/2017	0.1 US	0.1 US	0	0	21.3	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/2/2018	0.1 US	0.1 US	0	0	20.8	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	19.8	0
4/22/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW12-303R

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/22/2012	0.1 US	0.1 US	0	0	21.1	0
4/22/2013	0.1 US	0.1 US	0	0	20.6	0
7/29/2013	0.1 US	0.1 US	0	0	20.6	0
10/28/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/29/2014	0.1 US	0.1 US	0	0	20.2	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.9	0
7/13/2015	0.1 US	0.1 US	0	0	21	0
10/26/2015	0.1 US	0.1 US	0	0	21	0
4/4/2016	0.1 US	0.1 US	0	0	20.6	0
7/25/2016	0.1 US	0.1 US	0	0	20.4	0
10/24/2016	0.1 US	0.1 US	0	0	20.6	0
4/17/2017	0.1 US	0.1 US	0	0	21.3	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/2/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.9	0
10/1/2018	0.1 US	0.1 US	0	0	20.9	0

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(MW12-303R)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/22/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.7	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-401A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.1	0
10/20/2010	0.1 US	0.1 US	0	0	21.1	0
4/25/2011	0.1 US	0.1 US	0	0	20.5	0
7/18/2011	0.1 US	0.1 US	0	0	20.1	0
10/24/2011	0.1 US	0.1 US	0	0	20.9	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.3	0
10/22/2012	0.1 US	0.1 US	0	0	21.2	0
4/22/2013	0.1 US	0.1 US	0	0	20.5	0
7/29/2013	0.1 US	0.1 US	0	0	20.4	0
10/28/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.5	0
7/29/2014	0.1 US	0.1 US	0	0	20.4	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	20.9	0
7/13/2015	0.1 US	0.1 US	0	0	20.9	0
10/26/2015	0.1 US	0.1 US	0	0	21.3	0
4/6/2016	0.1 US	0.1 US	0	0	19.5	0
7/25/2016	0.1 US	0.1 US	0	0	20.2	0
10/24/2016	0.1 US	0.1 US	0	0	20.6	0
4/17/2017	0.1 US	0.1 US	0	0	21.2	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/2/2018	0.1 US	0.1 US	0	0	20.9	0
7/16/2018	0.1 US	0.1 US	0	0	20.4	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-401B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.1	0
10/20/2010	0.1 US	0.1 US	0	0	21.1	0
4/25/2011	0.1 US	0.1 US	0	0	20.5	0
7/18/2011	0.1 US	0.1 US	0	0	20.1	0
10/24/2011	0.1 US	0.1 US	0	0	20.9	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0

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Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/23/2012	0.1 US	0.1 US	0	0	20.4	0
10/22/2012	0.1 US	0.1 US	0	0	21.2	0
4/22/2013	0.1 US	0.1 US	0	0	20.5	0
7/29/2013	0.1 US	0.1 US	0	0	20.4	0
10/28/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.5	0
7/29/2014	0.1 US	0.1 US	0	0	20.4	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	20.9	0
7/13/2015	0.1 US	0.1 US	0	0	20.9	0
10/26/2015	0.1 US	0.1 US	0	0	21.3	0
4/6/2016	0.1 US	0.1 US	0	0	19.5	0
7/25/2016	0.1 US	0.1 US	0	0	20.3	0
10/24/2016	0.1 US	0.1 US	0	0	20.6	0
4/17/2017	0.1 US	0.1 US	0	0	21.2	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.7	0
4/2/2018	0.1 US	0.1 US	0	0	20.9	0
7/16/2018	0.1 US	0.1 US	0	0	20.4	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-402A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.3	0
10/20/2010	0.1 US	0.1 US	0	0	21.2	0
4/27/2011	0.1 US	0.1 US	0	0	20.8	0
7/20/2011	0.1 US	0.1 US	0	0	20.2	0
10/26/2011	0.1 US	0.1 US	0	0	20.8	0
4/24/2012	0.1 US	0.1 US	0	0	20.2	0
7/25/2012	0.1 US	0.1 US	0	0	20.9	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/22/2013	0.1 US	0.1 US	0	0	20.9	0
7/31/2013	0.1 US	0.1 US	0	0	20.9	0
10/30/2013	0.1 US	0.1 US	0	0	20.8	0
4/21/2014	0.1 US	0.1 US	0	0	20.6	0
7/30/2014	0.1 US	0.1 US	0	0	20.7	0
10/22/2014	0.1 US	0.1 US	0	0	21	0
4/29/2015	0.1 US	0.1 US	0	0	21.3	0
7/15/2015	0.1 US	0.1 US	0	0	20.9	0
10/28/2015	0.1 US	0.1 US	0	0	21.9	0
4/6/2016	0.1 US	0.1 US	0	0	20	0
7/27/2016	0.1 US	0.1 US	0	0	19.9	0
10/26/2016	0.1 US	0.1 US	0	0	20.7	0
4/19/2017	0.1 US	0.1 US	0	0	21.2	0

(MW-402A)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/26/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/4/2018	0.1 US	0.1 US	0	0	20.5	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.8	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW-402B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/21/2010	0.1 US		0		20.3	0
10/20/2010	0.1 US	0.1 US	0	0	21.2	0
4/27/2011	0.1 US	0.1 US	0	0	20.8	0
7/20/2011	0.1 US	0.1 US	0	0	20.2	0
10/26/2011	0.1 US	0.1 US	0	0	20.8	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/25/2012	0.1 US	0.1 US	0	0	20.9	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/22/2013	0.1 US	0.1 US	0	0	20.9	0
7/31/2013	0.1 US	0.1 US	0	0	20.9	0
10/30/2013	0.1 US	0.1 US	0	0	20.8	0
4/21/2014	0.1 US	0.1 US	0	0	20.6	0
7/30/2014	0.1 US	0.1 US	0	0	20.7	0
10/22/2014	0.1 US	0.1 US	0	0	21	0
4/29/2015	0.1 US	0.1 US	0	0	21.3	0
7/15/2015	0.1 US	0.1 US	0	0	20.9	0
10/28/2015	0.1 US	0.1 US	0	0	21.9	0
4/6/2016	0.1 US	0.1 US	0	0	20	0
7/27/2016	0.1 US	0.1 US	0	0	19.9	0
10/26/2016	0.1 US	0.1 US	0	0	20.7	0
4/19/2017	0.1 US	0.1 US	0	0	19.9	0
7/26/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/4/2018	0.1 US	0.1 US	0	0	20.6	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.8	0

MW-501

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0

(MW-501)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	M	M	M	M	M	M
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

MW09-901

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.7	0
7/20/2010	0.1 US		0		20.3	0
10/19/2010	0.1 US	0.1 US	0	0	21.3	0
4/26/2011	0.1 US	0.1 US	0	0	21	0
7/19/2011	0.1 US	0.1 US	0	0	20.2	0
10/25/2011	0.1 US	0.1 US	0	0	21	0
4/25/2012	0.1 US	0.1 US	0	0	20.3	0
7/23/2012	0.1 US	0.1 US	0	0	20.3	0
10/23/2012	0.1 US	0.1 US	0	0	21.1	0
4/23/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20.8	0
10/29/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.7	0
10/21/2014	0.1 US	0.1 US	0	0	20.9	0
4/28/2015	0.1 US	0.1 US	0	0	21.2	0
7/14/2015	0.1 US	0.1 US	0	0	20.6	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/5/2016	0.1 US	0.1 US	0	0	20.6	0
7/26/2016	0.1 US	0.1 US	0	0	20	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.8	0
7/25/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/3/2018	0.1 US	0.1 US	0	0	21.1	0
7/16/2018	0.1 US	0.1 US	0	0	20.4	0
10/2/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/28/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

OW-06-03

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	15.6	0
7/15/2019	0.1 US	0.1 US	0	0	20.4	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	13	0.1 US	0	0	13.2	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

OW-601A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0

(OW-601A)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	M	M	M	M	M	M
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

OW-601B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	M	M	M	M	M	M
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

OW-602A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	M	M	M	M	M	M
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

OW-603B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	8.6	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	4.7	0
10/26/2020	0.1 US	0.1 US	0	0	20.8	0

OW-604A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/29/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

P-04-02

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/26/2010	0.1 US		0		20	0
7/21/2010	0.1 US		0		20.1	0
10/20/2010	0.1 US	0.1 US	0	0	21.3	0
4/27/2011	0.1 US	0.1 US	0	0	20.8	0
7/20/2011	0.1 US	0.1 US	0	0	19.9	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/25/2012	0.1 US	0.1 US	0	0	20.4	0
7/25/2012	0.1 US	0.1 US	0	0	20.9	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/22/2013	!	!	!	!	!	!

P-04-02R

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/15/2015	0.1 US	0.1 US	0	0	20.8	0
10/28/2015	0.1 US	0.1 US	0	0	21.9	0

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(P-04-02R)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/6/2016	0.1 US	0.1 US	0	0	21	0
7/27/2016	0.1 US	0.1 US	0	0	19.6	0
10/26/2016	0.1 US	0.1 US	0	0	20.8	0
4/19/2017	0.1 US	0.1 US	0	0	20.2	0
7/26/2017	0.1 US	0.1 US	0	0	20.9	0
10/25/2017	0.1 US	0.1 US	0	0	20.7	0
4/3/2018	0.1 US	0.1 US	0	0	21	0
7/16/2018	0.1 US	0.1 US	0	0	20.3	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/22/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

P-206A

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
7/31/2013	0.1 US	0.1 US	0	0	20.5	0
10/28/2013	0.1 US	0.1 US	0	0	20.8	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/29/2014	0.1 US	0.1 US	0	0	20.6	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.9	0
7/13/2015	0.1 US	0.1 US	0	0	21	0
10/26/2015	0.1 US	0.1 US	0	0	21	0
4/4/2016	0.1 US	0.1 US	0	0	20.8	0
7/25/2016	0.1 US	0.1 US	0	0	20.5	0
10/24/2016	0.1 US	0.1 US	0	0	20.7	0
4/17/2017	0.1 US	0.1 US	0	0	21.2	0
7/24/2017	0.1 US	0.1 US	0	0	20.9	0
10/23/2017	0.1 US	0.1 US	0	0	20.7	0
4/2/2018	0.1 US	0.1 US	0	0	20.8	0
7/16/2018	0.1 US	0.1 US	0	0	20.3	0
10/1/2018	0.1 US	0.1 US	0	0	20.9	0
4/22/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.8	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

S Property Line

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.6	0
7/20/2010	0.1 US		0		20.2	0
10/20/2010	0.1 US	0.1 US	0	0	21	0
4/27/2011	0.1 US	0.1 US	0	0	20.7	0
7/20/2011	0.1 US	0.1 US	0	0	20	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/25/2012	0.1 US	0.1 US	0	0	20.6	0

(S Property Line) Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/24/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20.6	0
10/29/2013	0.1 US	0.1 US	0	0	21.2	0
4/21/2014	0.1 US	0.1 US	0	0	20.6	0
7/30/2014	0.1 US	0.1 US	0	0	20.6	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.3	0
7/15/2015	0.1 US	0.1 US	0	0	20.8	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/4/2016	0.1 US	0.1 US	0	0	20.6	0
7/25/2016	0.1 US	0.1 US	0	0	20	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.8	0
7/26/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.7	0
4/4/2018	0.1 US	0.1 US	0	0	20.8	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21	0
4/23/2019	0.1 US	0.1 US	0	0	20.7	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0
W Property Line A						
4/27/2010	0.1 US		0		20.5	0
7/20/2010	0.1 US		0		20.1	0
10/20/2010	0.1 US	0.1 US	0	0	21.1	0
4/27/2011	0.1 US	0.1 US	0	0	20.8	0
7/20/2011	0.1 US	0.1 US	0	0	20	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/25/2012	0.1 US	0.1 US	0	0	20.6	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/24/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20.7	0
10/29/2013	0.1 US	0.1 US	0	0	21.3	0
4/21/2014	0.1 US	0.1 US	0	0	20.6	0
7/30/2014	0.1 US	0.1 US	0	0	20.7	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.4	0
7/15/2015	0.1 US	0.1 US	0	0	20.9	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/4/2016	0.1 US	0.1 US	0	0	20.6	0
7/25/2016	0.1 US	0.1 US	0	0	20.2	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.8	0
7/26/2017	0.1 US	0.1 US	0	0	20.9	0

(W Property Line A)

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
10/24/2017	0.1 US	0.1 US	0	0	20.6	0
4/4/2018	0.1 US	0.1 US	0	0	20.8	0
7/16/2018	0.1 US	0.1 US	0	0	20.5	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.9	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

W Property Line B

Date	Methane Equivalent % Vol.	Methane Equivalent (Ambient) % Vol.	Hydrogen Sulfide ppm	Hydrogen Sulfide (Ambient) ppm	Oxygen % Vol.	Carbon Dioxide % Vol.
4/27/2010	0.1 US		0		20.5	0
7/20/2010	0.1 US		0		20.1	0
10/20/2010	0.1 US	0.1 US	0	0	21	0
4/27/2011	0.1 US	0.1 US	0	0	20.7	0
7/20/2011	0.1 US	0.1 US	0	0	20	0
10/26/2011	0.1 US	0.1 US	0	0	20.6	0
4/24/2012	0.1 US	0.1 US	0	0	20.5	0
7/25/2012	0.1 US	0.1 US	0	0	20.6	0
10/24/2012	0.1 US	0.1 US	0	0	20.9	0
4/24/2013	0.1 US	0.1 US	0	0	20.7	0
7/30/2013	0.1 US	0.1 US	0	0	20.7	0
10/29/2013	0.1 US	0.1 US	0	0	21.3	0
4/21/2014	0.1 US	0.1 US	0	0	20.7	0
7/30/2014	0.1 US	0.1 US	0	0	20.6	0
10/20/2014	0.1 US	0.1 US	0	0	20.9	0
4/27/2015	0.1 US	0.1 US	0	0	21.4	0
7/15/2015	0.1 US	0.1 US	0	0	20.9	0
10/27/2015	0.1 US	0.1 US	0	0	21.3	0
4/4/2016	0.1 US	0.1 US	0	0	20.6	0
7/25/2016	0.1 US	0.1 US	0	0	20.1	0
10/25/2016	0.1 US	0.1 US	0	0	20.7	0
4/18/2017	0.1 US	0.1 US	0	0	20.8	0
7/26/2017	0.1 US	0.1 US	0	0	20.9	0
10/24/2017	0.1 US	0.1 US	0	0	20.7	0
4/4/2018	0.1 US	0.1 US	0	0	20.7	0
7/16/2018	0.1 US	0.1 US	0	0	20.4	0
10/1/2018	0.1 US	0.1 US	0	0	21.1	0
4/23/2019	0.1 US	0.1 US	0	0	20.9	0
7/15/2019	0.1 US	0.1 US	0	0	20.9	0
10/28/2019	0.1 US	0.1 US	0	0	20.8	0
4/27/2020	0.1 US	0.1 US	0	0	20.9	0
7/20/2020	0.1 US	0.1 US	0	0	20.9	0
10/26/2020	0.1 US	0.1 US	0	0	20.9	0

(W Property Line B) Date	Methane Equivalent	Methane Equivalent (Ambient)	Hydrogen Sulfide	Hydrogen Sulfide (Ambient)	Oxygen	Carbon Dioxide
	% Vol.	% Vol.	ppm	ppm	% Vol.	% Vol.

Notes: TYPE - Sample Type Qualifier where D = Duplicate Sample.

Concentration Qualifier Notes:

! - The sampling location was damaged or destroyed.
M - Results are missing or not reliable due to a meter malfunction.
US - Not Detected above the reported reporting limit determined by interpreted instrument specification.

ATTACHMENT G

Landfill Gas Monitoring Evaluation

JUNIPER RIDGE LANDFILL

2020 ANNUAL GAS MONITORING EVALUATION

Operated by NEWSME Landfill Operations, LLC

2828 Bennoch Road, Old Town, Maine 04468 • (207) 394-4372

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1.0 INTRODUCTION

In accordance with the Maine Department of Environmental Protection (MEDEP) Chapter 401, Solid Waste Management Rules, Section 401.4.D(4)(d), an evaluation of the gas monitoring results for Juniper Ridge Landfill's (JRL) past year, including a comparison of the past year's results to the previous year's results is provided below.

Throughout 2020, the following regular landfill gas (LFG) monitoring activities occurred at JRL: (1) well-tuning of LFG collection trenches and wells (well heads), (2) continuous flow measurement at the landfill gas combustion flare, and (3) landfill gas composition measurement during well-tuning activities at the landfill gas combustion flare.

Additionally, as of December 8, 2014, JRL became subject to the operational standards of 40 Code of Federal Regulations (CFR) Part 60 Subpart WWW (the New Source Performance Standards [NSPS] for Municipal Solid Waste [MSW] landfills) and 40 CFR Part 63 Subpart AAAA (the National Emission Standard for Hazardous Air Pollutants [NESHAP] for MSW landfills). Reports completed in accordance with NSPS requirements are submitted separately to the MEDEP Bureau of Air Quality.

On March 26, 2020, NESHAP Subpart AAAA was updated with some changes not required to take effect until September 2021. However, JRL was required to begin operating pursuant to NSPS Subpart XXX no later than January 31, 2021. Therefore, JRL agreed to begin complying with both changes in applicable requirements as of the issuance date of air emission license A-921-70-H-A (1/6/2021).

2.0 WELL FIELD ACTIVITY

During 2020, well field activities consisted of the addition of new infrastructure, as well as discontinuing older infrastructure due to malfunction, insufficient methane production or redundancy. Anomalies associated with routine operation of the well field were also monitored. A summary is provided below.

2.1 Active, New, and Discontinued Well Heads

At the beginning of 2020, the JRL well field consisted of 195 active collection devices. During 2020 a total of 29 gas collection trenches, 11 vertical wells, and 4 other collectors were discontinued or replaced. Prior to discontinuing active well heads, JRL staff first sought MEDEP approval. Active well heads may be discontinued for one or more of the following reasons: 1) low methane production over a sustained period, 2) high oxygen, 3) inadequate flow, and 4) redundancy due to subsequently installed collectors. Table 2-1 shows all well heads that were monitored during 2020, as well as their status as of the end of the year. By the end of 2020, 173 gas collection devices were active.

Table 2-1 Well Heads Monitored at JRL, 2020

ID	Type	Status	ID	Type	Status
JR-GW--A	Gas Well	Active	JR-GW-56	Gas Well	Active
JR-GW--I	Gas Well	Active	JR-GW-58	Gas Well	Active
JR-GW--L	Gas Well	Active	JR-GW-62	Gas Well	Active
JR-GW--S	Gas Well	Active	JR-GW-64	Gas Well	Active
JR-GW--U	Gas Well	Active	JR-GW-65	Gas Well	Active
JR-GW--V	Gas Well	Active	JR-GW-66	Gas Well	Active
JR-GW--W	Gas Well	Active	JR-GW-68	Gas Well	Active
JR-GW-03	Gas Well	Active	JR-GW-70	Gas Well	Active
JR-GW-04	Gas Well	Active	JR-GW-71	Gas Well	Active
JR-GW-05	Gas Well	Active	JR-GW-72	Gas Well	Active
JR-GW-06	Gas Well	Active	JR-GW-74	Gas Well	Active
JR-GW-09	Gas Well	Active	JR-GW-75	Gas Well	Active
JR-GW-10	Gas Well	Active	JR-GW-76	Gas Well	Active
JR-GW-11	Gas Well	Active	JR-GW-78	Gas Well	Active
JR-GW-12	Gas Well	Active	JR-GW-79	Gas Well	Active
JR-GW-13	Gas Well	Active	JR-GW-80	Gas Well	Active
JR-GW-14	Gas Well	Active	JR-GW-81	Gas Well	Active
JR-GW-15	Gas Well	Active	JR-GW-82	Gas Well	Active
JR-GW-16	Gas Well	Active	JR-GW-83	Gas Well	Active
JR-GW-18	Gas Well	Active	JR-GW-84	Gas Well	Active
JR-GW-24	Gas Well	Active	JR-GW-85	Gas Well	Active
JR-GW-25	Gas Well	Active	JR-GW-86	Gas Well	Active
JR-GW-28	Gas Well	Active	JR-GW-87	Gas Well	Active
JR-GW-29	Gas Well	Active	JR-GW-88	Gas Well	Active
JR-GW-35	Gas Well	Active	JR-GW-89	Gas Well	Active
JR-GW-37	Gas Well	Active	JR-GW-90	Gas Well	Active
JR-GW-38	Gas Well	Active	JR-GW-91	Gas Well	Active
JR-GW-39	Gas Well	Active	JR-GW-92	Gas Well	Active
JR-GW-40	Gas Well	Active	JR-GW-93	Gas Well	Active
JR-GW-41	Gas Well	Active	JR-GW-94	Gas Well	Active
JR-GW-42	Gas Well	Active	JR-GW-95	Gas Well	Active
JR-GW-44	Gas Well	Active	JR-GW-96	Gas Well	Active
JR-GW-46	Gas Well	Active	JR-GW-97	Gas Well	Active
JR-GW-47	Gas Well	Active	JR-GW-98	Gas Well	Active
JR-GW-48	Gas Well	Active	JR-GW-99	Gas Well	Active
JR-GW-49	Gas Well	Active	JR-GW-H2	Gas Well	Active
JR-GW-51	Gas Well	Active	JR-GW100	Gas Well	Active
JR-GW-53	Gas Well	Active	JR-GW101	Gas Well	Active
JR-GW-55	Gas Well	Active	JR-GW102	Gas Well	Active

Table 2-1 Well Heads Monitored at JRL, 2020 Cont.

ID	Type	Status	ID	Type	Status
JR-GW103	Gas Well	Active	JRCT1010	Horizontal	Active
JR-GW104	Gas Well	Active	JRCT1011	Horizontal	Active
JR-GW105	Gas Well	Active	JRCT1012	Horizontal	Active
JR-GW106	Gas Well	Active	JRCT1101	Horizontal	Active
JR-GW19R	Gas Well	Active	JRCT1102	Horizontal	Active
JR-GW20R	Gas Well	Active	JRCT1103	Horizontal	Active
JR-GW23R	Gas Well	Active	JRCT1104	Horizontal	Active
JR-GW30R	Gas Well	Active	JRCT1105	Horizontal	Active
JR-GW31R	Gas Well	Active	JRCT1106	Horizontal	Active
JR-GW32R	Gas Well	Active	JRCT1107	Horizontal	Active
JR-GW33R	Gas Well	Active	JRCT1108	Horizontal	Active
JR-GW42B	Gas Well	Active	JRCT1109	Horizontal	Active
JR-GW50B	Gas Well	Active	JRCT1110	Horizontal	Active
JR-GW50R	Gas Well	Active	JRCT1111	Horizontal	Active
JR-GW51B	Gas Well	Active	JRCT1112	Horizontal	Active
JR-GW56R	Gas Well	Active	JRCT1113	Horizontal	Active
JR-GW58B	Gas Well	Active	JRCT1114	Horizontal	Active
JR-GW59B	Gas Well	Active	JRCT1115	Horizontal	Active
JR-GW59R	Gas Well	Active	JRCT1116	Horizontal	Active
JR-GW60B	Gas Well	Active	JRCT1119	Horizontal	Active
JR-GW68B	Gas Well	Active	JRCT1120	Horizontal	Active
JR-GW69B	Gas Well	Active	JRCT1121	Horizontal	Active
JR-GW69R	Gas Well	Active	JRCT1122	Horizontal	Active
JR-GW76B	Gas Well	Active	JRCT1123	Horizontal	Active
JR-GW77R	Gas Well	Active	JRCT1124	Horizontal	Active
JR-GW78B	Gas Well	Active	JRCT1202	Horizontal	Active
JR-GW79B	Gas Well	Active	JRCT1204	Horizontal	Active
JR-GW86B	Gas Well	Active	JRGCT2A1	Horizontal	Active
JR-LC-SE	Horizontal	Active	JRGCT3A4	Horizontal	Active
JR-OP-SE	Other	Active	JRGCT3B1	Horizontal	Active
JR-OP101	Gas Well	Active	JRGCT3B2	Horizontal	Active
JR-OP12A	Other	Active	JRGCT502	Horizontal	Active
JR-OP901	Other	Active	JRGCT503	Horizontal	Active
JRCT1001	Horizontal	Active	JRGCT505	Horizontal	Active
JRCT1002	Horizontal	Active	JRGCT508	Horizontal	Active
JRCT1003	Horizontal	Active	JRGCT511	Horizontal	Active
JRCT1004	Horizontal	Active	JRGCT601	Horizontal	Active
JRCT1005	Horizontal	Active	JRGCT604	Horizontal	Active
JRCT1006	Horizontal	Active	JRGCT606	Horizontal	Active
JRCT1007	Horizontal	Active	JRGCT607	Horizontal	Active
JRCT1008	Horizontal	Active	JRGCT701	Horizontal	Active
JRCT1009	Horizontal	Active	JRGCT703	Horizontal	Active

Table 2-1 Well Heads Monitored at JRL, 2020 Cont.

ID	Type	Status	ID	Type	Status
JRGCT704	Horizontal	Active	JRGCT830	Horizontal	Discontinued
JRGCT705	Horizontal	Active	JRGCT831	Horizontal	Discontinued
JRGCT706	Horizontal	Active	JRGCT910	Horizontal	Discontinued
JRGCT708	Horizontal	Active	JRGCT911	Horizontal	Discontinued
JRGCT709	Horizontal	Active	JRGCT912	Horizontal	Discontinued
JRGCT711	Horizontal	Active	JRGCT913	Horizontal	Discontinued
JRGCT924	Horizontal	Active	JRGCT914	Horizontal	Discontinued
JRGCT927	Horizontal	Active	JRGCT915	Horizontal	Discontinued
JRLGV401	Other	Active	JRGCT916	Horizontal	Discontinued
JROP11NE	Other	Active	JRGCT918	Horizontal	Discontinued
JR-GW-60	Gas Well	Active	JRGCT919	Horizontal	Discontinued
JR-GW--7	Gas Well	Discontinued	JRGCT920	Horizontal	Discontinued
JR-GW-59	Gas Well	Discontinued	JRGCT921	Horizontal	Discontinued
JR-GW-67	Gas Well	Discontinued	JRGCT922	Horizontal	Discontinued
JR-GW-69	Gas Well	Discontinued	JRGCT923	Horizontal	Discontinued
JR-GW--X	Gas Well	Discontinued	JRGCT925	Horizontal	Discontinued
JR-GW--Y	Gas Well	Discontinued	JRGCT926	Horizontal	Discontinued
JR-GW--Z	Gas Well	Discontinued	JRGCT928	Horizontal	Discontinued
JR-GW22R	Gas Well	Discontinued	JRGCT929	Horizontal	Discontinued
JR-GW57R	Gas Well	Discontinued	JRGCT930	Horizontal	Discontinued
JR-GW68C	Gas Well	Discontinued	JRCT1013	Horizontal	Discontinued
JR-GW78C	Gas Well	Discontinued	JRCT1014	Horizontal	Discontinued
JR-OP-69	Other	Discontinued	JRCT1015	Horizontal	Discontinued
JRGCT702	Horizontal	Discontinued	JRGC401A	Horizontal	Discontinued
JRGCT707	Horizontal	Discontinued	JRLGV402	Other	Discontinued
JRGCT712	Horizontal	Discontinued	JROP11NB	Other	Discontinued
JRGCT810	Horizontal	Discontinued	JROP11PH	Other	Discontinued
JRGCT829	Horizontal	Discontinued			

2.2 *Changes and Anomalies in the Well Field*

The facility was operated in accordance with NSPS requirements during the entirety of 2020. As discussed in Section 2.1, numerous collection trenches and wells were added and discontinued throughout 2020 as part of routine operations. Readings in excess of NSPS thresholds for temperature, oxygen, and vacuum were promptly addressed, and follow-ups were completed in accordance with NSPS requirements. Excess readings were provided in separate reports to the MEDEP.

Due to the types of waste currently/previously disposed of at JRL (primarily construction debris, construction debris processing residuals, sludge, and ash), which tend to have higher decomposition temperatures than typical household waste, operating some of JRL's well heads according to NSPS guidelines (with default gas temperature of 131 °F (55 °C)) has not always been possible. With that in mind, upon careful review by JRL staff and the MEDEP, several Higher Operating Value (HOV) allowances have been granted for temperature, to allow for proper gas collection to occur at these locations. JRL will continue to submit HOV requests as necessary to ensure continued compliance and a successful operation.

3.0 LANDFILL GAS COMPOSITION

During well-tuning activities, the composition of the landfill gas supplied to the flare was measured and concentrations of methane, carbon dioxide, and oxygen (CH_4, CO_2, O_2 respectively), and balance gas were recorded. During 2020, JRL staff operated the well field with the intent of: maintaining a target methane concentration in the range of 40%-45% (by volume) in the gas supplied to the flare, for both odor control and greenhouse gas reduction; and maintaining an oxygen concentration at satisfactory low levels (i.e. < 5%) in order to maintain high efficiency in the vacuum system and prevent possible landfill complications associated with oxygen infiltration. Balance gas levels are also monitored, as a confirmation of landfill collection efficiency and oxygen infiltration prevention. The concentration of carbon dioxide at the flare is not of great concern but is measured in addition to the more important levels of methane and oxygen.

Since gas composition is not measured daily, monthly average gas compositions at the flare were computed from routine measurements that occurred during well-tuning activities. The monthly average concentrations of methane and oxygen are shown in Figure 3-1. As can be seen, the concentration of CH_4 remained slightly below the target range of 40%-45% for the first 4 months of the year and was within the target range from May through December. Overall, the methane concentration was higher than it had been in prior years. The lowest monthly average CH_4 concentration of 38.1% occurred in

January. The highest monthly average concentration of 44.8% occurred in September. The average CH_4 concentration for 2020 was 42.1%, an increase from the 2019 average concentration of 37.6%. This is likely attributable to having a full time well tuner, who began in March. It is also likely affected by increased efforts to improve gas quality and the occurrence of favorable weather patterns. Monthly average oxygen concentrations were below 1.0% for the entirety of 2020. The lowest monthly average oxygen concentrations were in the months of May through September when the average oxygen concentration was between 0.0% and 0.2%. The average oxygen concentration during 2020 was 0.35%, lower than the 2019 average of 0.7%.

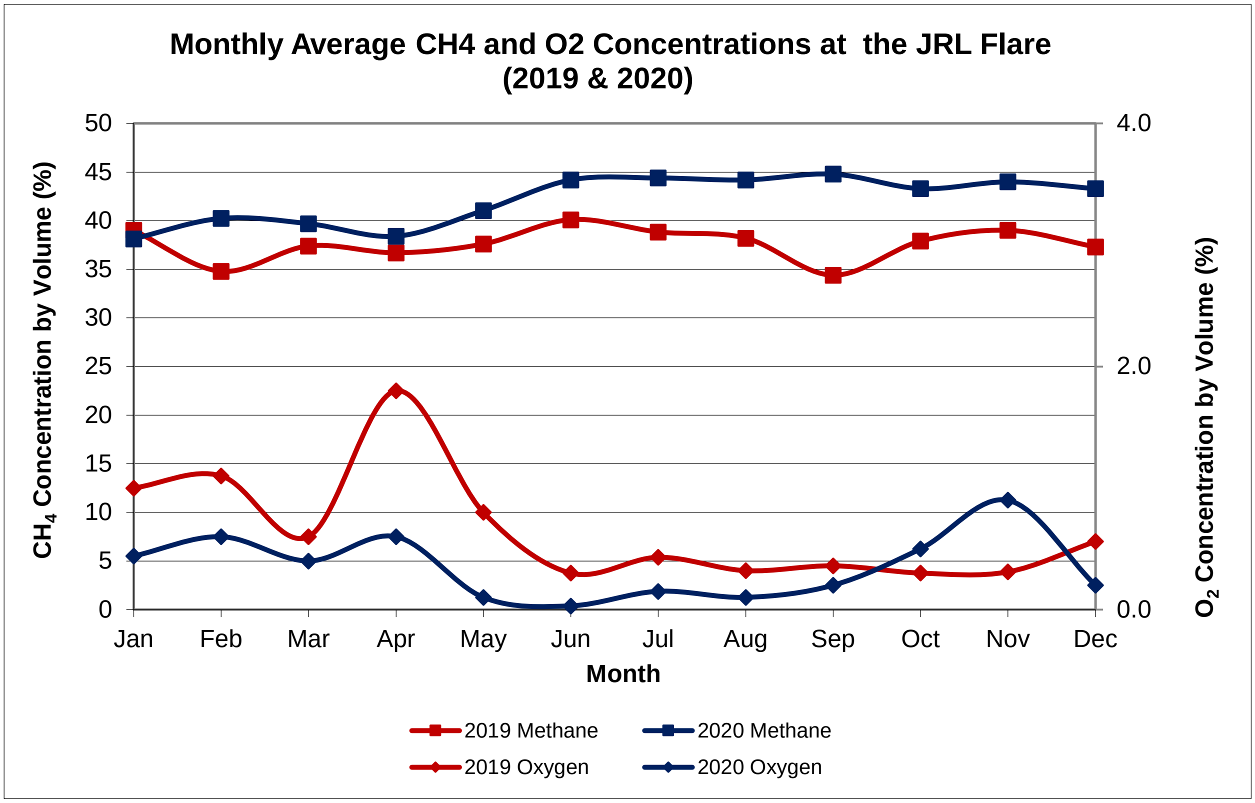

Figure 3-1 Monthly Average Landfill Gas Composition at JRL, 2019 & 2020

4.0 LANDFILL GAS FLOW

The flow of landfill gas supplied to the JRL flare and the Thiopaq® gas treatment system was measured and recorded on a continuous basis using a thermal flow meter. This data was then compiled for 2020 (and 2019 for comparison) and is summarized as total monthly flow and average flow in Table 4-1 and Figure 4-1. The average flow rate was calculated by taking the total monthly flow (in units of MMSCF)/(number of days in the month*1440 minutes/ 1 day). The result is an average flow rate (in units of SCFM) for any given month.

The total flow during 2020 was 921 million standard cubic feet (MMSCF), an increase of approximately 3.8% from total flow recorded in 2019.

Table 4-1 Volumetric Flow of Landfill Gas at JRL, 2019 & 2020

	Total Monthly Flow (MMSCF)		Average Flow Rate (SCFM)	
Month	**2020**	**2019**	**2020**	**2019**
Jan	97.3	80.9	2,180	1,813
Feb	84.5	76.7	2,024	1,902
Mar	89.0	72.6	1,995	1,627
Apr	92.3	64.5	2,137	1,494
May	76.5	61.9	1,713	1,388
Jun	61.0	55.2	1,413	1,277
Jul	71.8	66.3	1,609	1,486
Aug	66.6	88.9	1,491	1,992
Sep	60.8	90.0	1,408	2,083
Oct	67.9	73.8	1,520	1,653
Nov	72.3	60.9	1,674	1,409
Dec	80.9	95.5	1,812	2,140
Totals	921	887		
Average			1,748	1,689

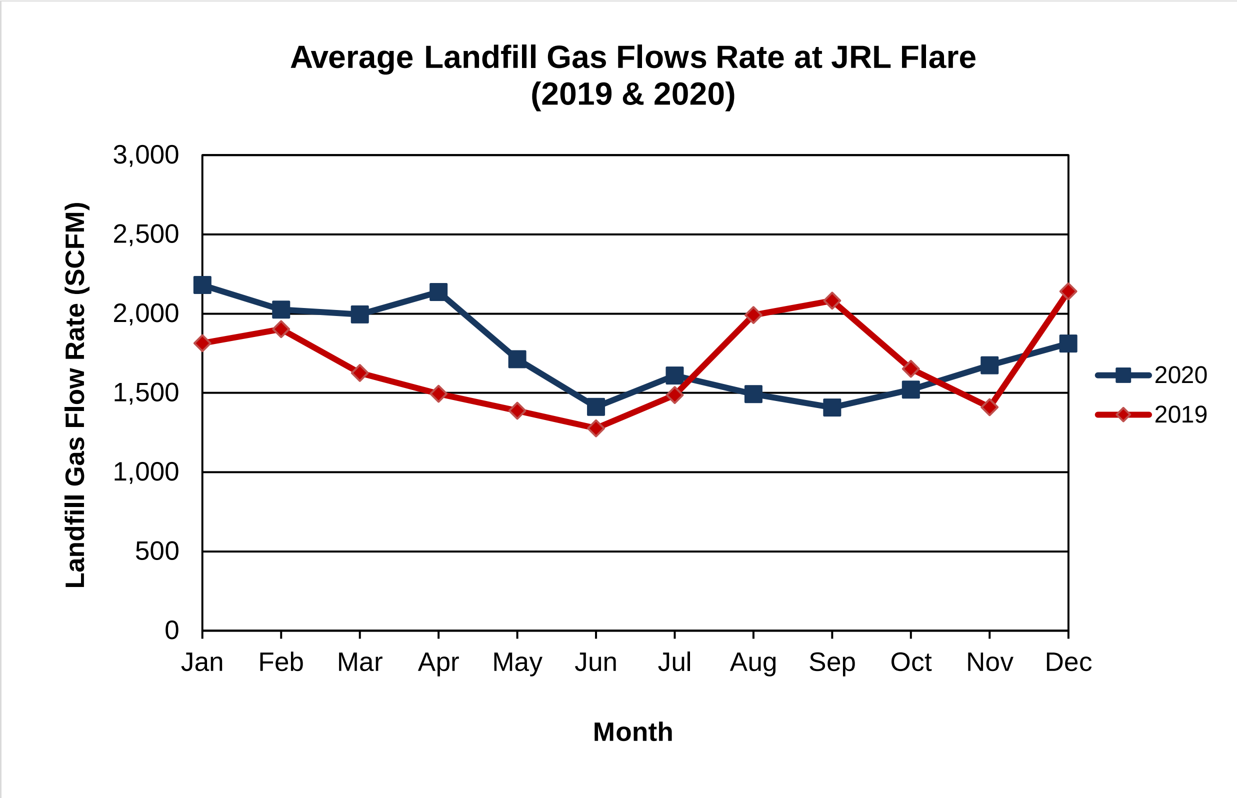

Figure 4-1 Monthly Average Landfill Gas Flow Rate at JRL, 2019 & 2020

5.0 ENERGY GENERATED BY METHANE COMBUSTION

JRL has a candlestick type flare which burns the methane (CH_4) present in the landfill gas. Methane has an approximate heating value of 1,009 BTU/SCF (BTU per standard cubic foot). Using this heating value, along with the methane concentrations and landfill gas flows presented in the previous sections, the energy generated by the combustion of methane in the JRL flare was calculated.

Table 5-1 shows the monthly totals of energy generated by CH_4 combustion, along with the average daily combustion energy for 2020 and 2019. Figures 5-1 and 5-2 further portray LFG energy combustion during its destruction through the use of the flare. The calculated total energy converted to heat by combustion at JRL during 2020 was 411,648 MMBTUs, compared to 355,455 MMBTUs in 2019, an increase of 15.8%.

Table 5-1 Energy Generated by CH_4 Combustion at JRL, 2019 & 2020

	Monthly Total (MMBTUs)		Daily Average (MMBTUs/day)	
Month	**2020**	**2019**	**2020**	**2019**
January	39,672	33,746	1,280	1,089
February	36,365	28,530	1,254	1,019
March	37,786	29,029	1,219	936
April	37,892	25,315	1,263	844
May	33,563	24,897	1,083	803
June	28,833	23,645	961	788
July	34,085	27,535	1,100	888
August	31,458	36,312	1,015	1,171
September	29,131	33,083	971	1,103
October	31,415	29,892	1,013	964
November	34,008	25,372	1,134	846
December	37,440	38,098	1,208	1,229
Totals	411,648	355,455		
Average			1,125	973

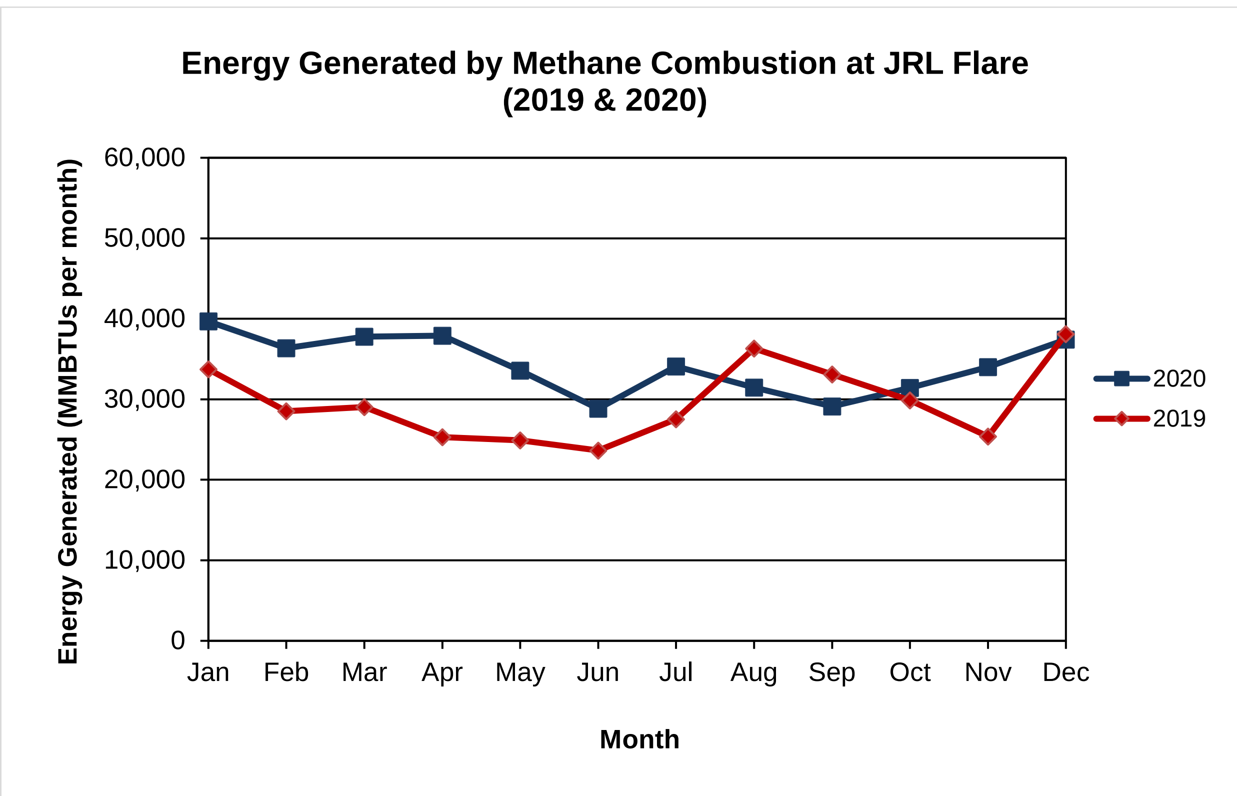

Figure 5-1 Energy Generated by CH4 Combustion at JRL Flare, 2019 & 2020

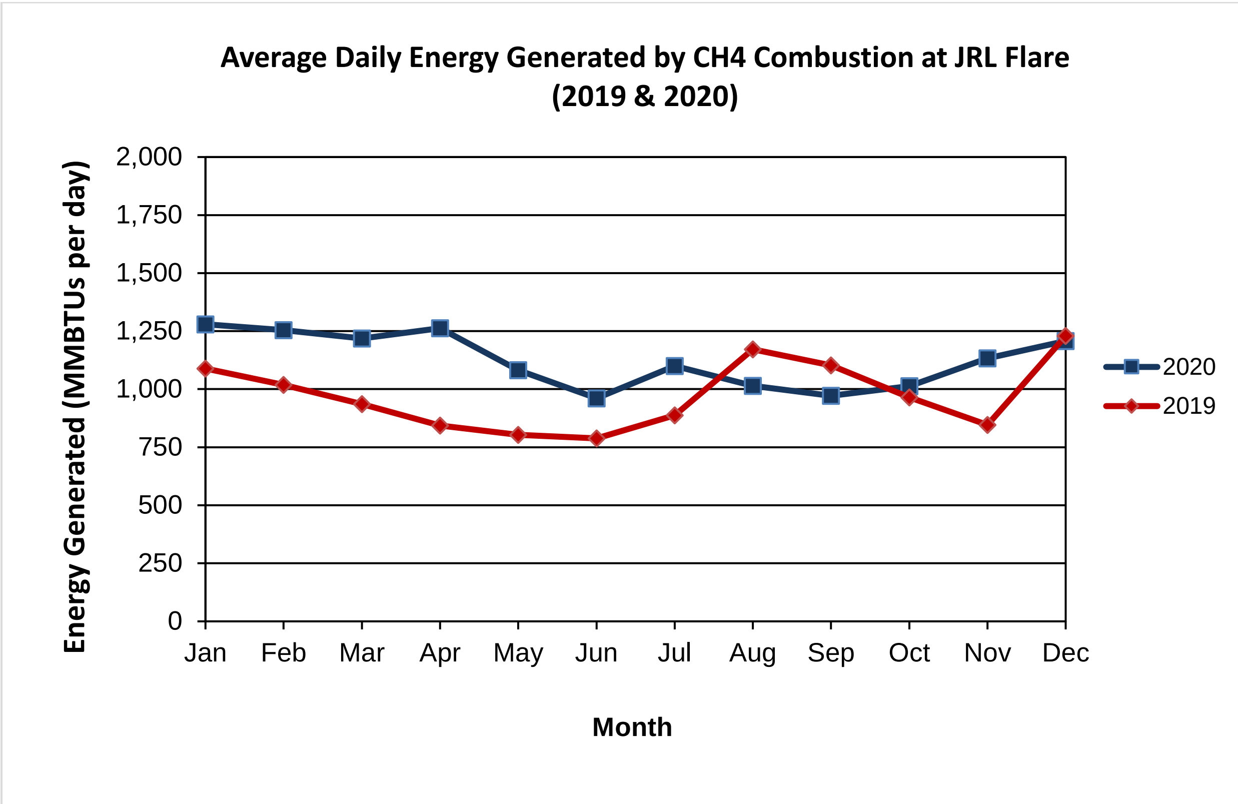

Figure 5-2 Avg. Daily Energy Generated by CH_4 Combustion at JRL Flare, 2019 & 2020

6.0 SUMMARY

Throughout 2020, routine landfill gas (LFG) monitoring took place at various on-site gas management locations in accordance with NSPS requirements, with results being submitted via electronic deliverable document to the MEDEP as required. At the beginning of 2020, the JRL well field consisted of 195 active well heads. At the end of 2020, 173 well heads remained active.

The average CH_4 concentration for 2020 was 42.1%, a substantial increase from the 2019 average concentration of 37.6%. The average oxygen concentration during 2020 was 0.35%, lower than the 2019 average of 0.7%.

The total measured flow in 2020 was 921 million standard cubic feet (MMSCF), an increase of approximately 3.8% from the total flow recorded in 2019. The calculated total energy converted to heat by combustion at JRL during 2020 was 411,648 MMBTUs, compared to 355,455 MMBTUs in 2019, an increase of 15.8%.

ATTACHMENT H

Landfill Air Monitoring Evaluation

JUNIPER RIDGE LANDFILL

2020 ANNUAL AIR MONITORING EVALUATION

Operated by NEWSME Landfill Operations, LLC

2828 Bennoch Road, Old Town, Maine 04468 • (207) 394-4372

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1.0 INTRODUCTION

In accordance with the Maine Department of Environmental Protection (MEDEP) Chapter 401, Solid Waste Management Rules, Section 401.D(4)(e), NEWSME Landfill Operations, LLC evaluated the 2020 air monitoring results, including a comparison of the 2020 results to the previous year's results. Two types of air monitoring activities occurred at the Juniper Ridge Landfill (JRL) during 2020; (1) hydrogen sulfide (H_2S) monitoring at stationary continuous monitors; and (2) quarterly methane (CH_4) emission surface scans on the landfill's intermediate cover. The air monitoring was completed in general accordance with the procedures specified in the current JRL operations manual.

H_2S monitors are Honeywell® Analytics MDA Single Point Monitors (SPM) utilizing EP hydrides Chemcassettes® also provided by Honeywell®. Readings were taken at 15-minute intervals and data-logged. Monitors are located at four different off-site locations surrounding the landfill as shown in Figure 1-1.

Figure 1-1 Juniper Ridge Landfill H_2S Single Point Monitoring Locations

Methane scans were completed using a MicroFID® (flame ionizing detector) or similar mobile device (QED SEM-5000) and completed once every quarter by taking measurements along an approximate 30-meter spacing grid on the intermediate cover system. Measurements were also collected at cover penetrations in the pattern (i.e. gas collection piping, etc.) and at noticeable punctures, cracks, or holes in the intermediate cover.

Additionally, odor complaints from the 24-hour JRL odor complaint hotline for 2020 were summarized and compared to 2019 results.

2.0 STATIONARY H_2S MONITORING RESULTS

Using the four Honeywell Analytics SPMs located off-site (on the access road, West Coiley Road, 552 West Old Town Road (Route 43), and Old Stagecoach Road), real-time data is collected and recorded at 15-minute intervals. If at any time off-site monitors detect concentrations greater than 15 parts per billion (ppb), then scale house personnel are alerted by automated telephone messages. Personnel then report any alert to supervisory staff, who are responsible for reporting H_2S readings greater than 15 ppb in the facility's Monthly Status Report and to the Old Town Code Enforcement Officer if H_2S levels exceed 30 ppb.

The Honeywell Chemcassette® tapes utilized in the SPMs at JRL are capable of continuously detecting hydrogen sulfide levels down to 2 ppb and quantitatively measuring down to 4 ppb. The quantitation limit (4 ppb) is the lowest numerical value that can be determined with suitable precision and accuracy and the detection limit (2 ppb) is the lowest numerical value that can be reasonably estimated by the instrument (typically half the quantitation limit). The summarized data provided below is an average of readings, including non-detect (values less than 2 ppb) readings taken at each instrument, therefore the average values (monthly and annually) are typically less than the detection limit of the Chemcassettes®.

In 2020, data logged readings, along with SPM maintenance records and associated weather data from an on-site weather station were provided to the MEDEP on a periodic basis. SPM maintenance includes Chemcassette® change outs, which generally occur every 6 weeks, along with recommended maintenance performed by the manufacturer.

The annual average H_2S calculated values at the Access Road, 552 West Old Town Road, the Old Stagecoach Road, and the West Coiley Road SPMs are presented in Table 2-1 & Figure 2-1. Due to the vast number of non-detect readings, also known as zero readings, the average H_2S values for all four meters were below the detection limit of 2 ppb for both 2019 and 2020.

Table 2-1 Annual SPM H_2S Averages, 2019 & 2020

Location	Bangor Wind Rose %[1]	Bangor Wind Rose % plus 50% calm[2]	Non-Detect Readings	Average in ppb (Non-Detect = 0 ppb)	Average in ppb (Non-Detects = 1 ppb[3])
Juniper Ridge Landfill 2020 Annual SPM H_2S Averages					
Access Road	12.6%	20.6%	33,772	0.006	0.131
552 West Old Town Road	3.5%	11.5%	32,722	0.086	0.120
Old Stagecoach Road	7.1%	15.1%	32,705	0.074	0.143
West Coiley Road	14.5%	22.5%	32,490	0.101	0.249
Total Number of Readings in 2020: 33,814					
Juniper Ridge Landfill 2019 Annual SPM H_2S Averages					
Location	**Bangor Wind Rose %[1]**	**Bangor Wind Rose % plus 50% calm[2]**	**Non-Detect Readings**	**Average in ppb (Non-Detect = 0 ppb)**	**Average in ppb (Non-Detects = 1 ppb[3])**
Access Road	5.3%	9.8%	33,412	0.001	0.053
552 West Old Town Road	4.6%	9.1%	32,513	0.078	0.121
Old Stagecoach Road	8.8%	13.3%	30,260	0.225	0.305
West Coiley Road	14.7%	19.2%	31,888	0.124	0.271
Total Number of Readings in 2019: 33,426					

[1] Bangor Wind Rose percentage of time wind in direction of SPM.
[2] Bangor Wind Rose percentage of time wind in direction of SPM plus 50% of Calm.
[3] Used 1 ppb instead of 0 for non-detect readings when the wind was in the direction of meter and 50% of time when the wind was calm; percentages are shown for each SPM in the second column.

In addition, the annual average H_2S values at these meters were also calculated using the most recent local wind direction and duration data from the Bangor International Airport Weather Station. Non-detect readings were replaced with a conservative estimate of half the detection limit of the SPM's, 1 ppb, for the percentage of time wind was in the direction of each meter, along with half of the total calm wind rose data. This data evaluation technique was developed in cooperation with the City of Old Town during the review of the JRL Expansion Application. These results are also presented in Table 2-1 and shown in Figure 2-2.

When comparing the 2020 and 2019 Annual SPM H_2S averages of the four SPMs located around JRL, two SPMs saw a decrease, and two saw an increase in 2020. The average off-site H_2S levels remained very low during both 2020 and 2019. Monthly average H_2S calculated values for each location are shown in Figures 2-3 through 2-6 and should be used for comparative analysis only due to their low averages, below the quantitative and detection limits of the instruments. These averages were plotted via a simple average of the monthly readings, non-detect (zero) readings were not edited.

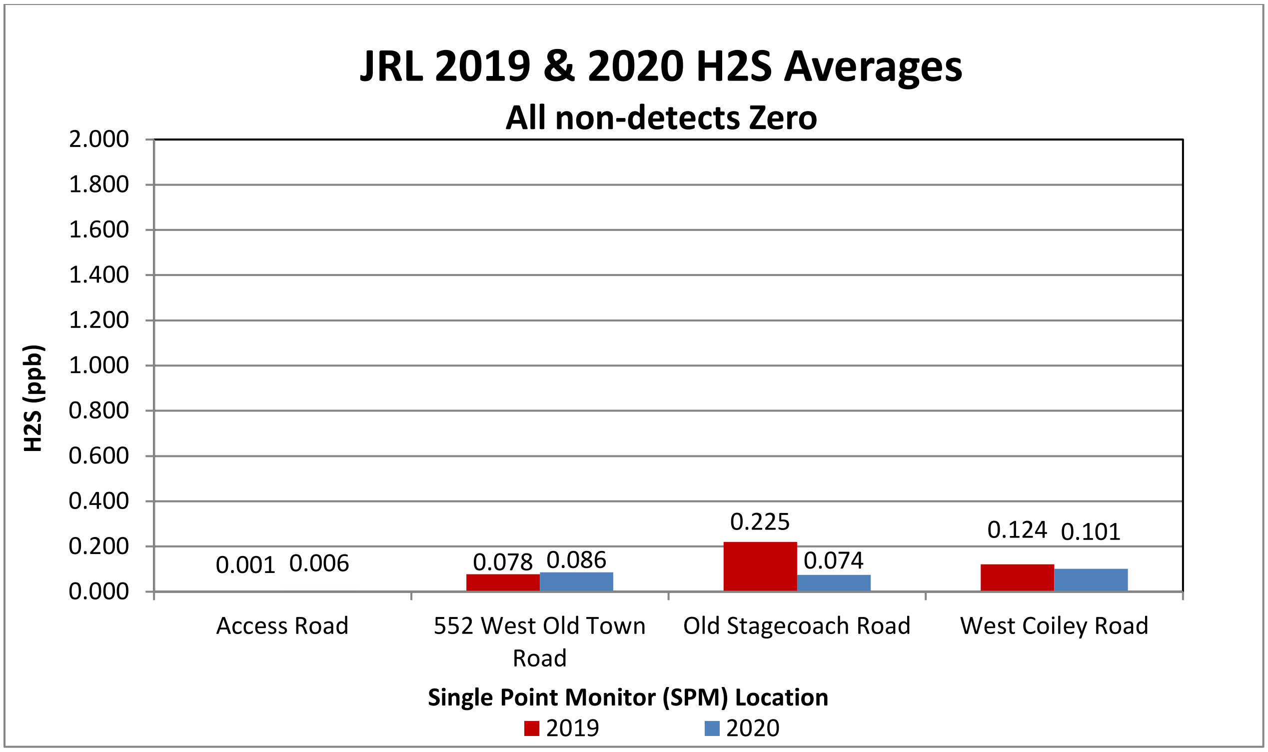

Figure 2-1 Annual Avg. H_2S readings at all four SPM locations, 2019 & 2020

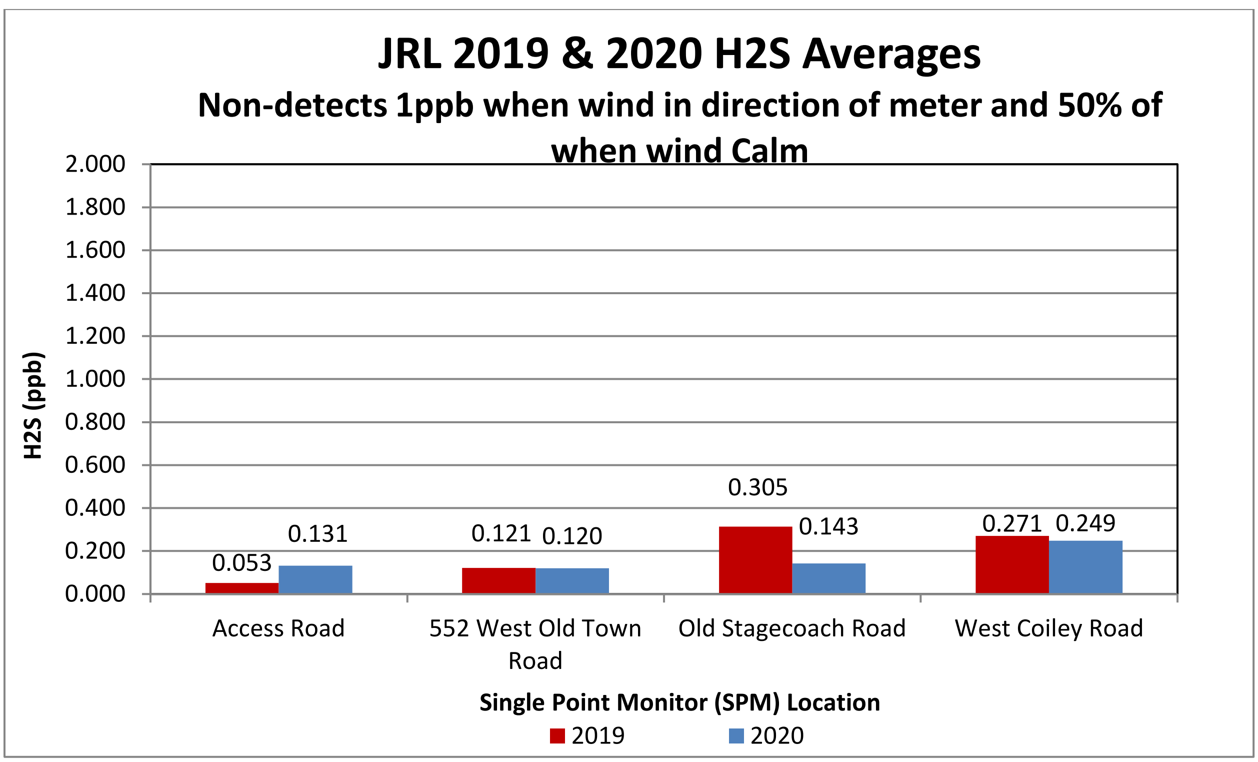

Figure 2-2 Annual Avg. H_2S readings at all four SPM locations with percentages of non-detects at 1 ppb based on wind rose data, 2019 & 2020

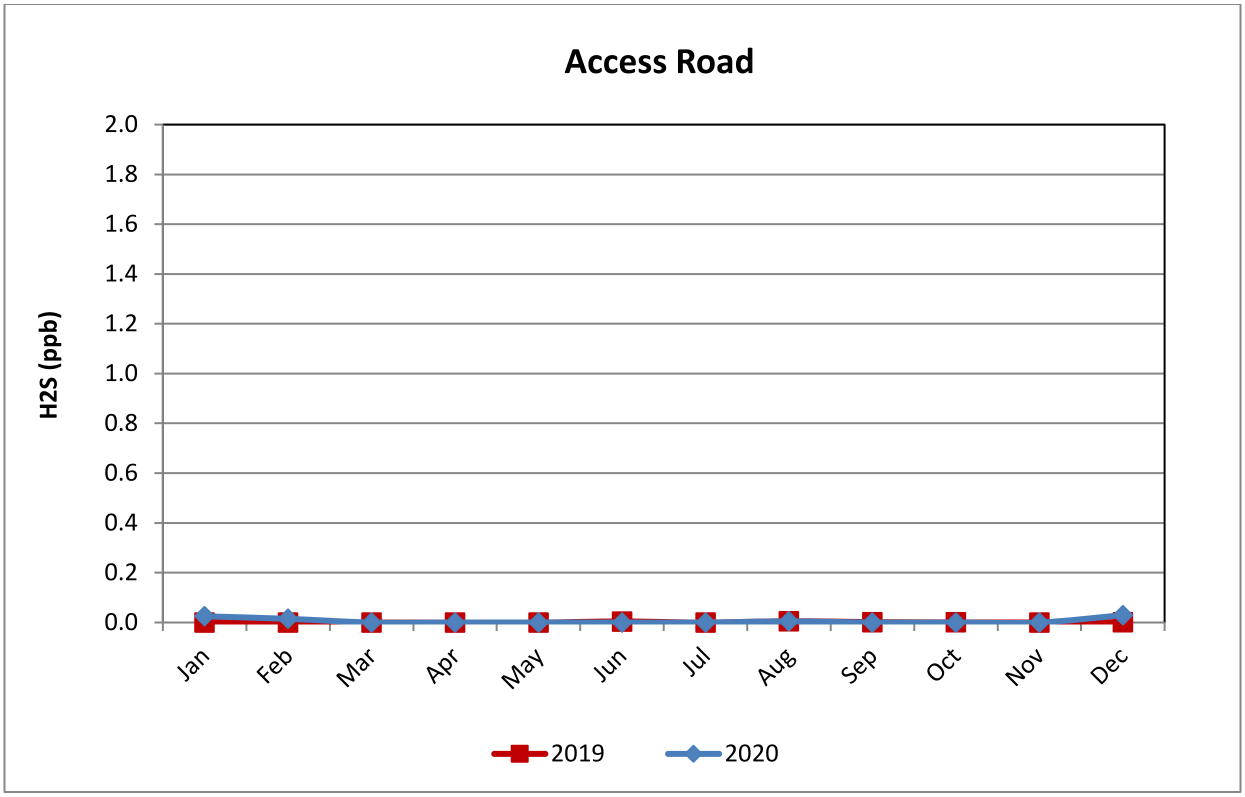

Figure 2-3 Monthly Avg. H_2S readings at the Access Road SPM, 2019 & 2020

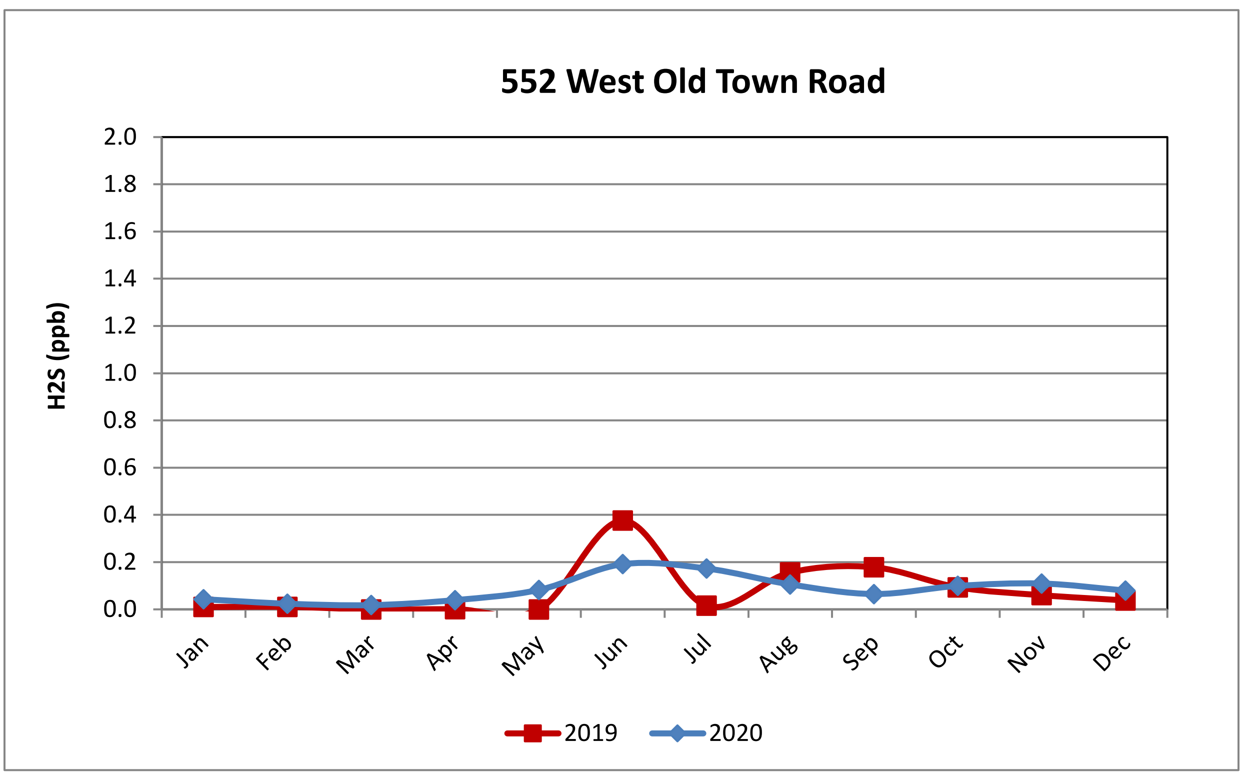

Figure 2-4 Monthly Avg. H_2S readings at the 552 West Old Town Road SPM, 2019 & 2020

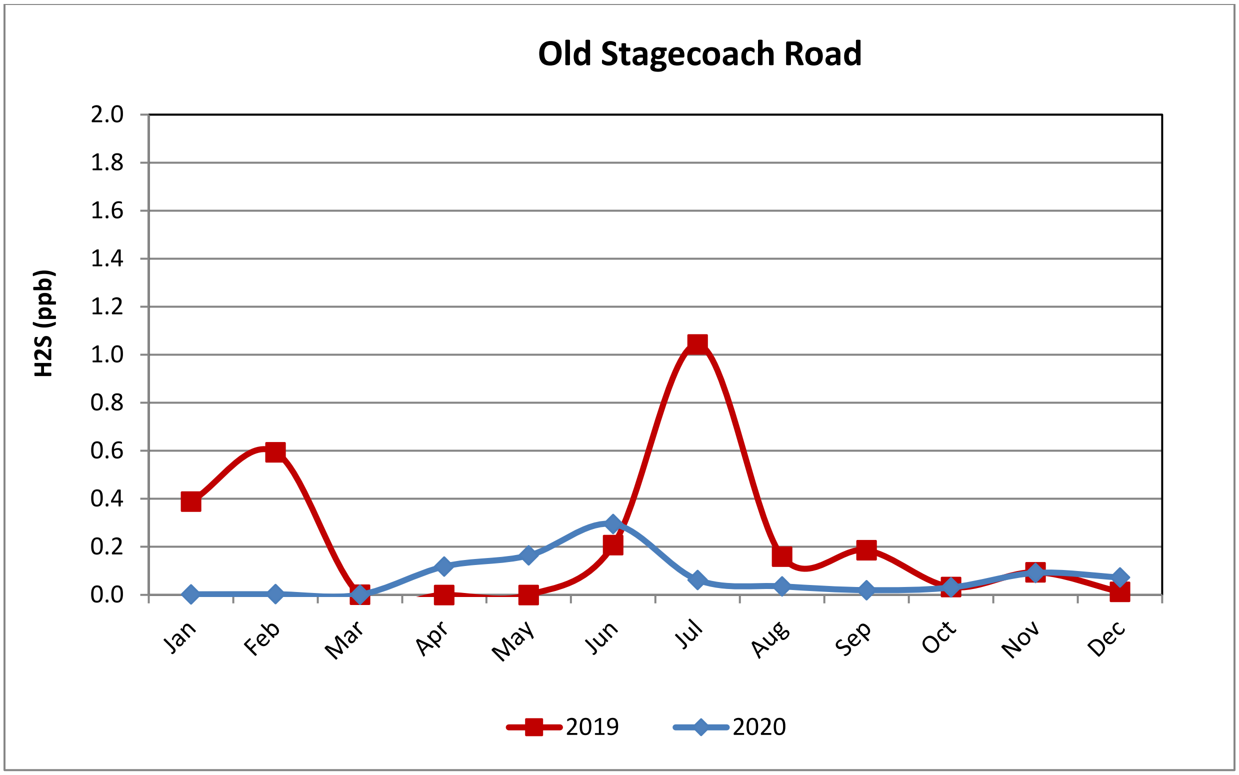

Figure 2-5 Monthly Avg. H_2S readings at the Old Stagecoach Road SPM, 2019 & 2020

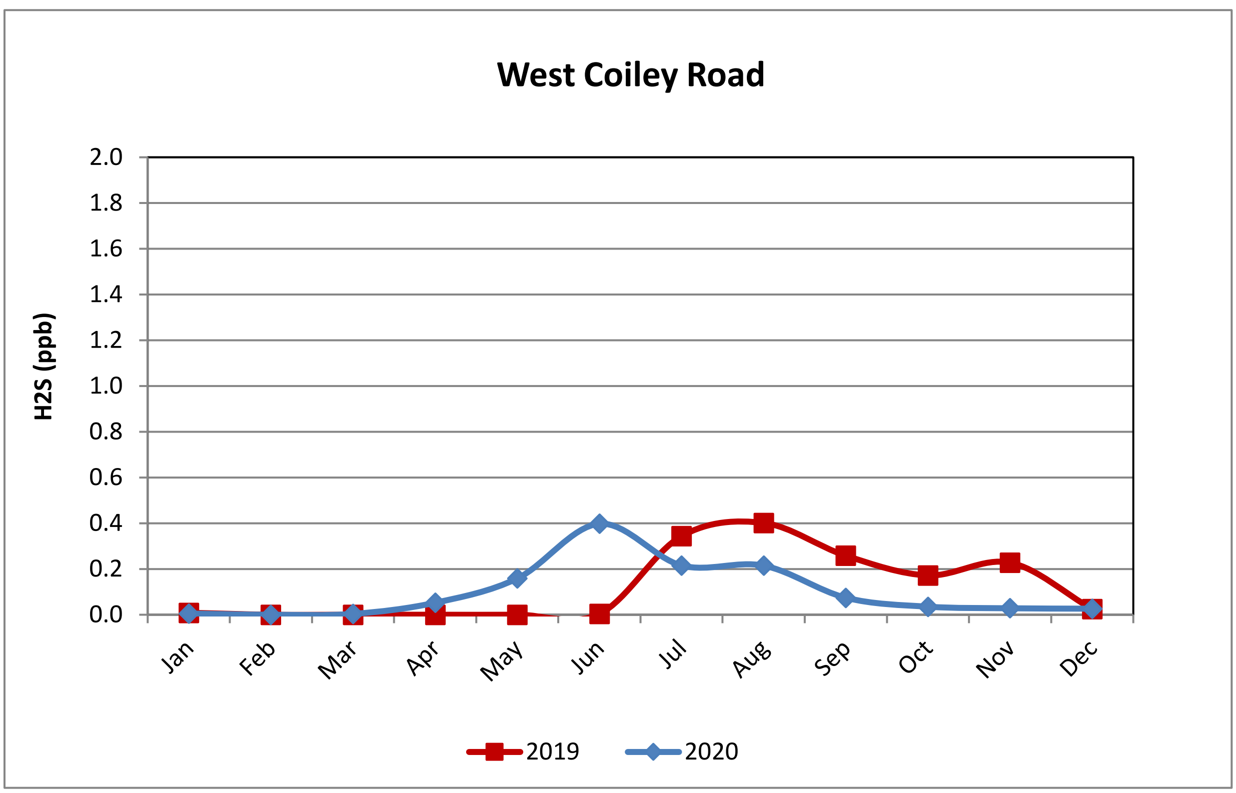

Figure 2-6 Monthly Avg. H_2S readings at the West Coiley Road SPM, 2019 & 2020

Instantaneous peak readings were identified during 2019 and 2020, to determine if any short duration H_2S episodes occurred. They are provided below in Table 2-2.

Table 2-2 Annual highest two readings at each SPM, 2019 & 2020

Juniper Ridge Landfill Hydrogen Sulfide Single Point Monitor Highest Two Annual Readings					
Year	**Location**	**Date**	**Highest Reading (ppb)**	**Date**	**2nd Highest Reading (ppb)**
2020	Access Road	12/19/2020 20:46	11.57	12/19/2020 21:01	8.90
2020	552 West Old Town Road	7/28/2020 17:39	11.68	12/6/2020 10:23	10.35
2020	Old Stagecoach Road	12/6/2020 12:38	23.03	9/30/2020 16:59	7.12
2020	West Coiley Road	8/4/2020 12:07	15.91	1/6/2020 8:41	9.46
2019	Access Road	12/10/2019 8:27	4.89	6/12/2019 17:50	4.34
2019	552 West Old Town Road	11/3/2019 13:58	18.80	11/3/2019 13:43	11.68
2019	Old Stagecoach Road	7/26/2019 20:27	12.79	9/20/2019 22:15	11.01
2019	West Coiley Road	11/8/2019 13:33	7.34	11/8/2019 13:48	5.23

Throughout 2020, there were two H_2S readings above 15 ppb, at the four off-site SPM's. This compares to one reading above 15 ppb during 2019. The MEDEP was notified of the occurrences, which were also noted as required in the JRL Monthly Status Report. On site landfill gas management systems continue to function well in preventing off-site migration of H_2S.

The first elevated H_2S reading was 15.9 ppb on August 4th, 2020 at 12:07 am. This occurred at the West Coiley Road SPM. Facility personnel were not able to identify any operational problems in the landfill that could have contributed to this high reading and no unusual odors were detected at the time. No apparent problems were identified with the meter itself. No other high H_2S readings were observed from any of the other meters during this period. It appeared to be an anomaly, either a problem with the meter, or a pocket of H_2S.

The second elevated H_2S reading was 23.0 ppb on December 6th, 2020 at 12:38 pm. This occurred at the Old Stagecoach Road SPM. It appeared the meter was reading accurately, but only stayed at that concentration for a moment, then several lower concentration readings of 3-4 ppb followed. The H_2S was likely related to multiple instances of utility power loss throughout the day.

3.0 ODOR COMPLAINTS

Complaints recorded via the 24-hour JRL complaint hotline are provided for 2019 and 2020 in Table 3-1 below. Detailed complaint logs were submitted as part of the facility's monthly reports to the MEDEP during 2020. During the year, the JRL complaint hotline received a total of 19 landfill related complaints. 15 complaints were odor related, 3 were noise related and one was dust related. This is an increase from the 15 landfill related complaints for 2019, all of which were odor related. All 19 were confirmed as likely coming from the landfill. Odor complaints were logged as they occurred.

Site visits were conducted at the location of complaint if requested, to allow for validity of all complaints. Close attention was paid to complaints, which helped determine operational effectiveness of all odor control measures and/or systems. Changes were made to those measures and/or systems as necessary.

In 2020, nine individuals called in a total of 15 odor complaints. This is an increase from 4 individuals who called in 15 complaints during 2019.

Table 3-1 Summary of Complaints at Juniper Ridge Landfill, 2019 & 2020

2020	-OBJECT OF COMPLAINT-						MONTH
MONTH	ODOR	NOISE	LIGHTS	DUST	BIRDS	OTHER	TOTAL
JAN.	0	0	0	0	0	0	0
FEB.	1	0	0	0	0	0	1
MAR.	1	1	0	0	0	0	2
APR.	1	0	0	0	0	0	1
MAY	0	1	0	0	0	0	1
JUN.	0	0	0	0	0	0	0
JUL.	0	1	0	1	0	0	2
AUG.	3	0	0	0	0	0	3
SEP.	1	0	0	0	0	0	1
OCT.	1	0	0	0	0	0	1
NOV.	2	0	0	0	0	0	2
DEC.	5	0	0	0	0	0	5
TOTALS	***15***	***3***	***0***	***1***	***0***	***0***	***19***

2019	-OBJECT OF COMPLAINT-						MONTH
MONTH	ODOR	NOISE	LIGHTS	DUST	BIRDS	OTHER	TOTAL
JAN.	0	0	0	0	0	0	0
FEB.	1	0	0	0	0	0	1
MAR.	3	0	0	0	0	0	3
APR.	1	0	0	0	0	0	1
MAY	1	0	0	0	0	0	1
JUN.	0	0	0	0	0	0	0
JUL.	0	0	0	0	0	0	0
AUG.	1	0	0	0	0	0	1
SEP.	0	0	0	0	0	0	0
OCT.	1	0	0	0	0	0	1
NOV.	3	0	0	0	0	0	3
DEC.	4	0	0	0	0	0	4
TOTALS	***15***	***0***	***0***	***0***	***0***	***0***	***15***

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4.0 CH_4 SURFACE SCANS

Landfill methane (CH_4) emission surface scans are performed to determine the effectiveness of intermediate landfill cover and landfill gas collections systems in controlling landfill gas migration. Quarterly surface scans were completed on the landfill intermediate cover at JRL during 2020 in accordance with the JRL Operations Manual and the requirements of the New Source Performance Standards (NSPS) for municipal solid waste (MSW) landfills contained in 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW. Copies of the 2020 surface scans are kept on file and uploaded to Sanborn Head and Associates' Landfill Gas Management Suite (LFGMS).

Surface scans were completed in general accordance with the procedures outlined in NSPS, specifically Section 60.753(d) which states that each owner or operator of an MSW landfill with a gas collection and control system shall:
"Operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage…"

Surface scans were completed using a MicroFID® (flame ionizing detector) or similar device (QED SEM-5000 portable methane detector, which NEWSME purchased in 2019). The MicroFID® device has a detection limit of 0.5 parts per million (ppm) and a concentration range of 0.5 to 50,000 ppm, while the QED SEM-5000 portable methane detector has the same detection limit but has a concentration range of 0.5 ppm to 100% methane. During 2020, a total of 9 readings above 500 ppm were detected during initial quarterly surface scans, compared to 17 which were detected during 2019. A quarterly breakdown is provided in Table 4-1. These readings and their locations have been documented, copies have been provided to the site supervisor, and necessary corrective actions have been taken. Follow-up was performed 10 days and 30 days after the initial reading in excess of 500 ppm or any subsequent reading in excess of 500 ppm.

Table 4-1 Readings above 500 ppm found during CH_4 Surface Scans, 2019 & 2020

Surface Scan Readings above 500 ppm					
	Q1	Q2	Q3	Q4	TOTAL
2020	0	1	5	3	9
2019	13	1	3	0	17

Overall, annual readings above 500 ppm were lower in 2020 than in 2019. All of these were resolved on the first initial rescan and follow-up, with the exception of two readings which required further corrective action and were resolved in subsequent rescans. These results demonstrate the effectiveness of the synthetic and soil intermediate cover system. Damage to cover boots for the gas extraction piping due to landfill consolidation and settlement continue to be the primary cause of readings above 500 ppm. These damages are repaired as soon as practical.

5.0 SUMMARY

Two types of air monitoring activities occurred at the Juniper Ridge Landfill (JRL) during 2019; (1) hydrogen sulfide H_2S monitoring with stationary continuous monitors and, (2) quarterly methane emission surface scans on the landfill intermediate cover.

When comparing the 2020 and 2019 Annual SPM H_2S averages of the four SPMs located around JRL, two SPMs saw a decrease, and two saw an increase in 2020. The average off-site H_2S levels remained very low during both 2020 and 2019.

Throughout 2020, there were two H_2S readings above 15 ppb, at the four off-site SPM's. This compares to one reading above 15 ppb during 2019. The MEDEP was notified of the occurrences, which were also noted as required in the JRL Monthly Status Report. On site landfill gas management systems continue to function well in preventing off-site migration of H_2S

During 2020, the JRL complaint hotline received a total of 19 landfill related complaints. 15 complaints were odor related, 3 were noise related and one was dust related. This is an increase from the 15 landfill related complaints for 2019, all of which were odor related. All 19 were confirmed as likely coming from the landfill. In 2020, nine individuals called in a total of 15 odor complaints. This is an increase from 4 individuals who called in 15 complaints during 2019.

During 2020, a total of 9 readings above 500 ppm were detected during methane surface scans. This is compared to 17 which were detected during 2019. Most of these readings occurred around landfill intermediate cover penetrations and were promptly corrected. Follow-up readings confirmed the issues were resolved.

ATTACHMENT I

Geotechnical Monitoring Report

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2020 Annual Geotechnical Landfill Inspection Report
Juniper Ridge Landfill
Old Town, Maine

March 2021

Report to:

BGS/NEWSME Landfill Operations, LLC
Hampden, Maine

Casella Waste Systems, Inc.
Saco, Maine

STATE OF MAINE
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LICENSED
PROFESSIONAL ENGINEER

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A corporation providing hydrogeotechnical consulting services for engineering and environmental applications.

EXECUTIVE SUMMARY

This 2020 Annual Landfill Geotechnical Monitoring Report for the Juniper Ridge Landfill (JRL) summarizes the geotechnical conditions of the facility over the past year. These conditions were ascertained from monitoring that was performed to assure that the field behavior of the landfill continues to be consistent with parameters and assumptions used in the facility design. This report describes the geotechnical activities performed in accordance with the current Geotechnical Monitoring Plan (Appendix N of the Operations Manual) and Stability and Settlement Monitoring Plan (Section 3.1.5 of the Design Report), prepared and included as part of the JRL Expansion Application (SME 2015a) for a new solid waste license, as approved by the Board of Environmental Protection under Solid Waste License #S-020700-WD-BI-N and Natural Resources Protection Act #L-19015-TG-D-N dated 06/01/2017.

The geotechnical monitoring at JRL during 2020 emphasized weekly stability and settlement observations of the landfill surface made during operations, and an independent geotechnical inspection of the landfill surface and slope topography conducted on October 16, 2020. Other specific monitoring activities in 2020 included: (a) comparisons of semi-annual topographic surveys, (b) review of waste types, quantities, and location of waste placement, and (c) evaluation of fluid pressure data measured by an electronic transducer placed on the base of Cell 11 to indicate the leachate head on the liner and to track whether or not the leachate collection system performance is consistent with design assumptions.

This document supplements previous monitoring reports made through 2010 (REW 2005a, 2006, 2007a, 2008a, 2009, 2010), and subsequent landfill inspection reports from the last ten years (REW 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, and 2020). All monitoring data indicates that settlement and stability of the landfill waste is consistent with design parameters and assumptions. Information provided by the Cell 11 transducer demonstrates that the fluid levels in the leachate collection layer are at minimal levels, verifying that this drainage layer is performing as designed. No changes to the Geotechnical Monitoring Plan are proposed for geotechnical monitoring during 2021.

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Appendices

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2020 Annual Landfill Geotechnical Monitoring Report
Juniper Ridge Landfill Facility
Old Town, Maine

1. INTRODUCTION

This 2020 Annual Landfill Geotechnical Monitoring Report has been prepared for the State of Maine's Juniper Ridge Landfill (JRL), a facility that is owned by the State of Maine Bureau of General Services (BGS) and operated by NEWSME Landfill Operations, LLC. (NEWSME), a subsidiary of Casella Waste Systems Inc. (CWSI). The landfill site plan (Figure 1), is based on an aerial topographic survey performed on June 26, 2020.

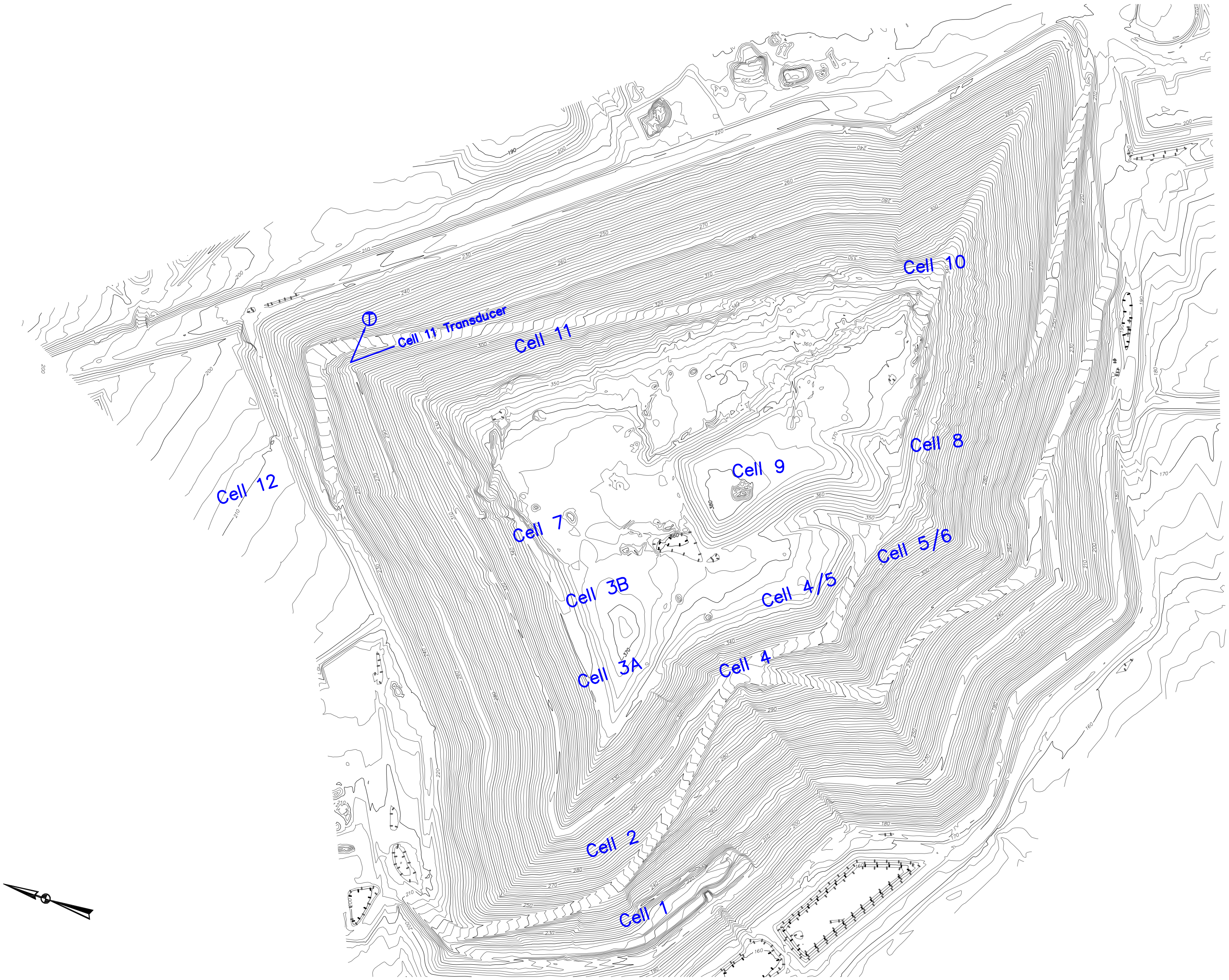
This report describes the geotechnical activities performed in accordance with the current Geotechnical Monitoring Plan (Appendix N of the Operations Manual) and Stability and Settlement Monitoring Plan (Section 3.1.5 of the Design Report), prepared and included as part of the JRL Expansion Application (SME 2015a,b) for a new solid waste license, as approved by the Board of Environmental Protection under Solid Waste License #S-020700-WD-BI-N and Natural Resources Protection Act #L-19015-TG-D-N dated 06/01/2017. This report presents the results of this monitoring that verifies the consistency of the landfill's geotechnical performance with design parameters and assumptions, and with the goals of the JRL Expansion Operations Manual (NEWSME 2020).

2. HISTORY OF LANDFILL DEVELOPMENT & MONITORING

JRL was initially developed by Fort James Operating Company (FJC), a subsidiary of Georgia-Pacific Corporation, for its own use in the disposal of treatment plant sludges and other wastes from its mill in Old Town, Maine. In 2004, the State of Maine, through the State Planning Office (SPO), agreed to purchase the landfill for disposal of other approved in-state wastes including: construction and demolition debris (CDD), oversized bulky waste (OBW), front end processing residue (FEPR), ash from waste incinerators, other ashes from industrial incinerators, bypass municipal solid waste (bypass MSW), and other miscellaneous wastes. This section discusses the history of landfill development at the site.

2.1 Fort James Operation

Approximately 68 acres of a 780-acre property was licensed by FJC as a secure landfill, and operated by FJC from 1996 until 2004 when the State of Maine purchased the landfill. During this period, JRL, then called the West Old Town Landfill (WOTL), was used mainly for disposal of combined sludge from FJC's primary and secondary treatment plant in Old Town and fly ash from a biomass boiler at Eastern Paper's mill in Lincoln. Placement of the sludge began in December 1996 along the western portion of Cell 1. By 2001, operations had moved to the east into Cell 2. Details relating to the geotechnical behavior of FJC's sludge during the sequential landfill development is presented in previous reports (REW 2007a,b).



(ref: 06/26/20 aerial topographic survey)

Title:	Site Plan Juniper Ridge Landfill	By: REW Checked: REW
Project:	2020 Annual Landfill Geotechnical Monitoiring Report	Date: March 2021
Client:	State of Maine BGS/NEWSME Landfill Operations LLC, Old Town, Maine	Scale: ~1" = 375'

Figure No: 1

Project No: 1751

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2.2 State of Maine Purchase and Operations

In February 2004, the State of Maine, through the SPO, purchased the landfill from FJC. It selected CWSI through its subsidiary NEWSME, to operate the disposal of in-state wastes. Approximately 50,000 tons of sludge from FJC's Old Town mill were initially placed in landfill Cells 1 & 2 before the mill closed in 2006. To improve deposit stability, CWSI stabilized the existing sludge at the site by mixing it with approved in-state waste streams, i.e. CDD, OBW, FEPR, incinerator ash, bypass MSW, and other miscellaneous wastes. A detailed description of the test plots constructed to determine the geotechnical behavior of this waste and the sludge stabilization program were presented in previous annual monitoring reports (REW 2005a, 2006, 2007a, 2008a, 2009, 2010, 2011) and an annual geotechnical landfill inspection report (REW 2012).

Once the sludge stabilization program was completed by mid-2006, landfill operations moved into Cell 3A/B, followed sequentially with Cells 4-10 under MEDEP Solid Waste License #S-020700-WD-N-A. Deposited in these cells was a mixture of in-state wastes, which included but not limited to various percentages of CDD, MSW (Cells 3-10 only), bypass MSW, OBW, MSW incinerator ash and other ashes, CDD wood fines for cover, contaminated soils, WWTP/POTW sludge, lime mud and grit, oil spill debris, pulp mill waste, other approved miscellaneous special wastes.

In mid-2015, with the help of SME, BGS/NEWSME submitted JRL Expansion Application (SME 2015a,b) to the MEDEP. On June 6, 2017, that application was approved by the BEP under Solid Waste License #S-020700-WD-BI-N and Natural Resources Protection Act #L-19015-TG-D-N. During 2018, the first cell (Cell 11) of a 6-cell, 54 acre landfill expansion was constructed. As a result, a mixture of similar in-state wastes as described above for Cells 3-10, (excluding MSW for Expansion Cells 11-16) was approved. Based on performance to date, this mixture of wastes are stable at slopes up to 2.5H:1V. While the mixture from these waste streams are still highly compressible and subject to gas generation, , the in-state waste mixture is more stable and less compressible than the waste-stabilized sludge based on more than 13 years of operational experience.

2.3 Overview of Past Geotechnical Monitoring

Once the stability of the waste-stabilized sludge was resolved (see MEDEP 2008; REW 2008b; *2008 GMR*, REW 2009; *2010 GMR*, REW 2011), the previous program (REW 2007b) was modified to represent the monitoring needs associated with current waste mixtures placed in a landfill founded on a firm soil (see *2011 GMR*, REW 2012). Specifically, reliance on the extensive measurements of in-situ instruments was shifted to observation methodologies that are used to assure that the geotechnical performance of the landfill remained consistent with design analyses. This approach has been in service since 2010 and now applied to the most recent GMP included in the JRL Expansion Operations Manual (NEWSME 2020).

3. CURRENT SITE ACTIVITIES AND OPERATION

3.1 Cell 11 Construction and Soft Layer Placement

Throughout the 2018 construction season, the first cell (Cell 11) of a 6-cell, 54 acre JRL expansion was completed and approval to place waste was granted by the MEDEP. Once approved, soft waste material placement was initiated in the basal area of the cell, and extended through 2019. Due to a lack of sufficient adequate soft protective material (intended to protect the liner/leachate collection system) in the incoming waste, some suitable soft waste was excavated from the Cells 1 & 2 during 2019, as presented in that year's inspection report, (see Fig. 3, REW 2020). This borrow waste material was placed as a 5 ft. thick layer of protective material in Cell 11 (also see REW 2020: Appendix A, & Appendix F site photos ##29-32).

3.2 2020 Waste Placement and Operation

As portions of the protective layer were completed, mixed waste placement during 2020 continued in the active portions of Cell 11 (see Appendix F herein, photos ##2,19,27,29) and on the upper portions of Cells 7/9/10 to bring this latter area to interim grades in preparation for intermediate cover (see Appendix F herein, photos ##19-20). Also the soft waste protection layer was placed in the southern end of Cell 12 that is located north of Cell 11 (see Appendix F herein, photos ##2, 27-30). Due to capital restraints in 2020, the size of the constructed Cell 12 was reduced from the previously approved 12.6 acres to 9.6 acres. This reduction in acreage will be compensated for at a later time by adding an additional cell within the approved expansion area.

As summarized in Appendix A herein, waste composition during this period was dominated by forms of CDD, MSW (Cells 3-10 only), bypass MSW, OBW, MSW incinerator ash and other ashes, CDD wood fines for cover, contaminated soils, WWTP/POTW sludge, oil spill debris, pulp mill waste, other approved miscellaneous special wastes. By mid-year (when the aerial photography was made), approximately 50 feet of the mixed waste was placed in Cell 11, raising its grade to a maximum elevation of approximately 350 ft. mean sea level (msl). Wastes placed over the southeastern portion of Cells 9/10 raised the grade in this area to a maximum elevation of about 390 ft. msl.

The remaining landfill capacity in Cells 1-12 at the end of 2020 is summarized in Appendix B. Moving forward, the expansion area will be referenced as Cells 11-17. As the capacity of Cell 12 is exhausted, expansion will continue in five additional landfill cells (i.e. Cells 13 to 17) located north of the existing operations. It is expected that future expansion cells will receive similar types and quantities of wastes placed in the current operation of Cell 11 and 12.

4. 2020 GEOTECHNICAL LANDFILL MONITORING

During 2020, various monitoring was performed at JRL to ensure compliance with JRL's Solid Waste License #S-020700-WD-BI-N and Natural Resources Protection Act #L-19015-TG-D-N. Results of this monitoring verifies the consistency of the landfill's geotechnical performance with design parameters and assumptions, and with the goals of the JRL Expansion Operations

Manual (NEWSME 2020). Specifically, geotechnical monitoring during this past year included: (1) visual observation of landfill slope stability, settlement, and general landfill conditions, (2) assessment of site aerial topographic surveys; (3) a review of waste types, quantities, location of waste placement, and filling sequences, and (4) evaluation of fluid levels in the leachate collection layer of Cell 11.

4.1 Landfill Observations

During 2020, performance of JRL was verified by routine weekly visual site inspections of the landfill during normal operations. A sample copy of the weekly/monthly inspection forms is presented in Appendix C (with copies of any specific inspection available upon request). Observations made during these inspections help confirm the corroboration of landfill performance with the design conditions used in the geotechnical analysis. In part, the revised stability and settlement analyses completed for the landfill design (REW 2005b, SME 2015b) were verified in the field by monitoring the type, quantity, rate, location, and condition of waste placement in accordance with the JRL Expansion Operations Manual (NEWSME 2020).

4.2 Annual Inspection

To supplement weekly operational observations, an annual geotechnical inspection of the landfill area (performed on October 16, 2020) focused on the overall condition of the landfill that specifically looked for evidence of cracking, localized depressions, erosion, leachate breakout on sideslopes, areas of ponded water, stressed vegetation, and toe heaving. As previously mentioned, normal operations were taking place in Cell 11 while additional grading material was placed on the top of the landfill in the southeast portion of Cells 9/10. Synthetic Intermediate Cover Material (SICM) and, in small areas, earthen intermediate cover has been placed over the inactive portions of the landfill.

Geotechnical observations were made to confirm that waste placement procedures, sideslope construction, cover performance, and other construction/filling practices are consistent with the JRL Expansion Operations Manual (NEWSME 2020). An observation report, using the checklist presented in the current GMP, was filled out and is included in Appendix D of this report.

Inspection elements for assessment of geotechnical performance included:

Active Areas

- waste lift thickness
- active filling area slope angle
- final waste slope angle
- identification of areas with visible ponding, seepage, or indications of mass snow burial

Inactive Areas with Intermediate Cover (SICM or earthen material)

- overall surface and/or intermediate cover condition
- evidence of surface cracking

- localized surficial depressions in waste or cover surface
- erosion of cover material
- erosion of ditch linings
- leachate breakout on sideslopes
- areas of ponded water
- toe heaving
- grass kills
- gas venting

Geotechnical performance observations indicated that the landfill slopes were stable and that differential waste settlement was minor and can be managed to tolerable levels during final cover design. The active waste placement in Cell 9/10 and Cell 11 is performing as anticipated. At the time of the inspection, there were no indications of inconsistencies between site activities and JRL Expansion Operations Manual (NEWSME 2020).

During the annual site inspection, ponded stormwater (in what appears to be an intercepting drainage ditch) was observed on the SICM in the northwest inactive portion of the landfill at an elevation of approximately 317 msl (see Appendix F Photos ##5-6). To mitigate this condition, the local topography was subsequently modified to re-establish passive drainage of stormwater runoff in this area.

4.3 Fluid Pressure Measurements

In accordance with the Board Order for the landfill expansion, a fluid pressure transducer was installed in the leachate collection layer of Cell 11 (at the location shown on Figure 1) to confirm system design by measuring fluid levels in this drainage layer. This instrument was placed at the bottom of the 12-inch sand layer of the leachate collection system that overlies the geocomposite layer of the containment liner. The transducer is placed roughly at elevation 213 and is approximately 5 feet higher in elevation compared to the sump which is located closer to elevation 208.

To help determine the degree that the hydraulic head within the leachate collection layer is minimized, daily instrument readings were recorded during 2020 as presented in Appendix E. The small values demonstrate that the levels are minimal, verifying that the leachate collection at this location in Cell 11 is performing in accordance with design. For this same purpose, another transducer was also installed in Cell 12. Due to the limited amount of waste placed in Cell 12 during 2020, there was insufficient data to date to evaluate the fluid pressure measurements for this area.

4.4 Surveys

A topographic survey of the landfill surface was completed on June 26, 2020 using aerial photogrammetric methods. A spot check of surface elevations indicates that the waste slope angles are consistent with the project design and JRL Expansion Operations Manual (NEWSME 2020). Elevation contours for covered areas were visually examined for depressions, heaving, and ditch slope continuity. Consistent with site observations, these observations indicate that the landfill is performing as anticipated during design with no noticeable excessive differential settlements or instabilities. Exclusive of the excavation area in Cells 1 & 2, comparisons with the aerial survey made in June 2020 show no discernable differences in the overall topography of the landfill surface that would indicate large differential settlements or slope instabilities.

4.5 Modifications to the Geotechnical Monitoring Plan

As addressed last year, with the filling of Cell 11 in 2019, the current GMP, which was originally included in the JRL Expansion Application (SME 2015a), is now included as part of the JRL Expansion Operations Manual (NEWSME 2020). This GMP is now implemented along with weekly routine inspections and an evaluation of fluid levels in the leachate collection layer of JRL expansion cells (i.e. Cells 11 to 17). No other modifications to the GMP are proposed for 2020.

5. SUMMARY

Geotechnical monitoring of JRL was performed to verify that the operations and field behavior of the facility is consistent with design analyses and geotechnical plans. Consistent with the modifications in 2008 and 2010, field observations of landfill activities were emphasized in assuring consistency with the JRL Expansion Operations Manual (NEWSME 2020) and, in the process, confirmed that there were no indications of potential slope instabilities or excessive differential settlements that might impact the performance of the facility. Sand ballasts and Platipus anchors were installed on the SCIM at several locations to supplement the tethered sand bags in helping hold down the membrane during high winds.

In accordance with the current GMP (which is included as part of the JRL Expansion Operations Manual, NEWSME 2020), routine weekly visual site inspections of the landfill were made during normal operations in 2020. In addition, an aerial topographic survey of the facility was conducted on June 26, 2020, and an annual geotechnical inspection was performed on October 16, 2020. This monitoring documented that the landfill is performing as anticipated with no excessive deformations, slope movements, unexplained ponded water, or leachate breakouts. Site observations made of the inactive areas and the operational activity in Cell 11 and the top of Cells 9/10 indicate that the landfill is performing as anticipated during design. Measurements of the fluid levels in the leachate collection system at the base of Cell 11 (as measured by the in-place transducer) indicates that the head on the liner system is minimal and is performing in accordance with design.

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APPENDIX A

Summary of Wastes Accepted at Juniper Ridge Landfill Report 2020

Summary of Wastes Accepted at Juniper Ridge Landfill Report Year 2020				
Waste Type #	Waste Types	Total (tons)	Origin	% Total Waste
1	Bypass MSW[6]	110,866	Maine	13.3
2	CDD/MSW Processing Residue - OBW (Disposed of in the Original 2004 Permitted Footprint)	1,685	Maine	0.2
3	CDD/MSW Processing Residue - OBW (Disposed of in the Expansion Permitted Footprint)[5]	84,350	Maine	10.1
4	CDD Processing Residue - Fines[1]	100,134	Maine	12.0
5	FEPR	-	Maine	0.0
6	Mixed CDD	322,636	Maine	38.6
7	MSW[4]	55,470	Maine	6.6
8	Wood from CDD[2]	2,107	Maine	0.3
9	Residue/Trash from Single Stream	6,800	Maine	0.8
	Special Wastes Types			
10	Burn Pile Ash and/or Hot Loads Area Ash	614	Maine	0.1
11	Catch Basin Grit & Street Sweeping	692	Maine	0.1
12	Coal, Oil & Multi-fuel Boiler Ash	6,253	Maine	0.7
13	Contaminated Soil & Debris	7,432	Maine	0.9
14	Dredged Spoils	129	Maine	0.0
15	Graphite/Carbon Dust	4	Maine	0.0
16	Industrial WWTP Sludge	17,964	Maine	2.2
17	Leather Scraps	29	Maine	0.0
18	Lime Mud/Grit	1,039	Maine	0.1
19	MSW Incinerator Ash	31,265	Maine	3.7
20	Municipal WWTP/POTW Sludge	64,443	Maine	7.7
21	Non-Friable Asbestos	840	Maine	0.1
22	Non-Hazardous Chemical Related	2,239	Maine	0.3
23	Oil Spill Debris	5,130	Maine	0.6
24	Polyethylene & Cellulose Trimmings	9,616	Maine	1.2
25	Pulp Mill Waste	946	Maine	0.1
26	Sandblast Grit	487	Maine	0.1
27	Spoiled Foods	526	Maine	0.1
28	Sulfur Scrubbing Residues	792	Maine	0.1
29	Water/Air Filtration Media	41	Maine	0.0
30	WWTP Grit Screenings	734	Maine	0.1
SUBTOTAL WASTE TYPES 1-9		684,048	Maine	81.9
SUBTOTAL WASTE TYPES 10-30		151,213	Maine	18.1
GRAND TOTAL WASTE RECEIVED[3]		**835,261**	Maine	

1. Used as alternative daily cover (ADC).

2. Wood from CDD was received at the Juniper Ridge Landfill wood storage facility (ADC).

3. Total derived from sum of higher significant digit numbers, not rounded whole numbers as provided in the above table.

4. Non-bypass MSW was limited to 81,800 tons in the Original 2004 Permitted Footprint from 04/01/19 - 03/31/20. During this time frame 80,366 tons were disposed of. An additional six month was also granted for the same area, allowing an additional 40,900 tons between 04/01/20 - 09/30/20. During this time frame 40,886 tons were disposed of. Numbers reported above are for calendar year 2020.

5. On 12/20/19, MEDEP approved an increase of OBW in the Expansion area. The previous limit of 65,000 tons per year, set by expansion license #S-020700-WD-BI-N, was modified through solid waste minor revision #S-020700-WD-BW-M. The minor revision approved additional disposal of OBW to 85,000 tons for calendar year 2020.

6. CRM/MRC 8,357.94 tons, ecomaine 8,258.87 tons, PERC 94,249.25 tons

APPENDIX B

JRL Estimate of Landfill Capacity December 31, 2020

Juniper Ridge Landfill
Estimate of Remaining Capacity as of December 31, 2020

	Values	Units	Source	
Landfill Capacity Remaining in Cells 1-10 as of December 31, 2019	724,268	cy	Calculated 2019 capacity evaluation	MSE Berm used for final waste surface for Cells 1-10 as permitted
Landfill Capacity Remaining in Cells 11-17 as of December 31, 2019	7,849,531	cy	Calculated 2019 capacity evaluation	
Remaining Site Capacity as of June 26, 2020 in landfill Cells 1-10	924,900	cy	June 26, 2020 Site Survey	MSEBerm used for final waste surface for Cells 1-10
Remaining Site Capacity as of June 26, 2020 in Expansion Cells 11 thru 17	7,043,800	cy	June 26, 2020 Site Survey	
Tons Placed in Landfill Cells 1-10 (tons) between June 27, 2020 and December 31, 2020.	27,538.05	tons	JRL Records	Wendy Plissey 02-09-2020
Tons Placed in Expansion Landfill Cells 11-17 (tons) between June 27, 2020 and December 31, 2020.	446,670.13	tons	JRL Records	Wendy Plissey 02-09-2021
Compaction Factor Three Year Running Average through June 2020	0.93	ton/cy	JRL Records	For Cells 1-11 (Cell 12 was not constructed until 9-31-2020). Note the previous (2019) compaction rate used for this calculation was 0.81tons/cy.
Calculated Capacity Used in Cells 1-10 between June 27, 2020 and December 31, 2020 (CY)	29,611	cy	Calculation	
Calculated Capacity Used in Cells 1-10 in 2020	-171,021	cy	Calculation; Compaction factor change from 0.81 to 0.93.	Apparent Gain in Capacity from Settlement
Calculated Capacity Used in Cells 11-17 between June 27, 2020 and December 31, 2020 (CY)	480,290	cy	Calculation	Based on 0.93 compaction factor. Based on Airspace Capacity Report 06-26-2020 analysis update (04Sept2020)
Calculated Capacity Used in Cells 11-17 in 2020	1,286,021	cy	Calculation	
Estimated Remaining Cell 1 thru Cell 10 Capacity as of December 31, 2020	**895,289**	**cy**	Calculation	
Estimated Remaining Cell 1 thru Cell 12 Capacity as of December 31, 2020	**1,540,599**	**cy**	Calculation	Cell 1 thru 12 Capacity Remaining reported as of 6-26-2020 of 2,050,500 cys minus capacity consumed to end of 2020.
Estimated Remaining Site Capacity in Cells 11-17 as of December 31, 2020	**6,563,510**	**cy**	Calculation	
Tons Disposed of in Landfill Cells 1 thru 10	**61,519.57**	**Tons**	Provided by JRL	
Tons Disposed of in Landfill Cell 11 &12	**773,741.08**	**Tons**	Provided by JRL	Wendy Plissey 02-10-2020
Total Reported Tons Disposed of in Entire Landfill Cells 1 thru 12	**835,260.65**	**Tons**	Provided by JRL	

Appendix C

Weekly/Monthly Landfill Inspection Form

WEEKLY/MONTHLY INSPECTION FORM

Site Name/Company	Juniper Ridge Landfill/NEWSME Landfill Operations, LLC
Location	2828 Bennoch Road, Alton, Maine
Date of Visit	6/12/2020
Inspector Name/Signature	Andrew Bennett Andrew Bennett

Note: For weekly inspections, only Table 1 and Table 3 need to be completed. For monthly inspections, Table 1, Table 2 and Table 3 need to be completed.

Table 1
Inspection of Active Areas at the Facility

Active Areas at the Facility			
Leachate	Is leachate observed on the ground, or leaking from tanks or piping, with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Access Roads	Are industrial materials, residue or trash observed on roads where vehicles enter or exit the active landfill with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
MSW and CDD (windblown debris)	Is MSW and/or CDD on ground, tracking, blowing or whirling with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☑ Comments (see below)
Borrow Pit	Is there evidence of tracking or erosion from site soil borrow areas with potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Mobile Equipment	Is mobile equipment leaking oil or other liquids with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Comments	2 laborers are picking litter. South road was repaired.		

Table 2
Inspection of Stabilized Areas at the Facility

Stabilized Active Areas at the Facility			
Leachate	Is leachate observed on the ground, or leaking from tanks or piping, with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
Access Roads	Are industrial materials, residue or trash observed on roads where vehicles enter or exit the active landfill with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☐ Comments (see below)
MSW and CDD (windblown debris)	Is MSW and/or CDD on ground, tracking, blowing or whirling with evidence of or the potential to impact stormwater?	☐ Yes ☑ No	☑ Comments (see below)
Comments	2 labores are pickinglitter		

Table 3
Inspection of Stormwater BMPs, Conveyances and Outfalls

BMP	Describe where any of the following were observed: • Any evidence that the BMP is not functioning properly.
Detention Pond 1	None
Geomembrane Lined Storage Pond	None
Detention Pond 2	None
Detention Pond 6	None
Litter Fence	None

Table 3
Inspection of Stormwater BMPs, Conveyances and Outfalls

BMP	Describe where any of the following were observed: • Any evidence that the BMP is not functioning properly.
Lechate Storage Tank Containment Area	None
Leachate Storage Tank Containment Area Riprap Outlet	None
Leachate Loading Rack Catch Basin	None
Detention Pond 9	None
2,000-Gallon Underground Storage Tank	None
Detention Pond 5	None
Outfall No. 1	None
Outfall No. 2	None
Outfall No. 3	None
Outfall No. 4	None
Outfall No. 5	None

Table 4
New Potential Pollutant Source and/or Recommendations for Additional BMPs

Reference	Description	Schedule

Certification

☑ Site is in compliance with SWPPP and MSGP. ☐ Site is not in compliance with SWPPP and MSGP and either structural control measure maintenance, additional controls, or modifications to the SWPPP are required.	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Name: Andrew Bennett	**Telephone:** 249-3536
Signature: Andrew Bennett	**Date:** 6/12/2020

Appendix D

Checklist: Annual Geotechnical Landfill Inspection

Table D-1
Checklist: Annual Geotechnical Inspection
2020 Annual Geotechnical Landfill Monitoring Report, Juniper Ridge Landfill, Old Town, Maine

Observation Date: 10/16/2020
Monitor Name: Richard E. Wardwell
Weather: cloudy, temperatures in mid- 50's

Observation Area	Sat.	Unsat	Description (location, direction, appearance, etc.)	Proposed Action
Active Area				
location description	-	-	top of Cells 9/10/11 (#18,19,23,24,25,26,27), base of Cell 12 (see Photos 2,26 to 29)	n/a
slope stability	X			
waste lift thickness	X			
active slope angle	X		~2½:1 to 3:1 (see Photos #18,19)	
erosion	X			
leachate breakout	X		none observed (N/O)	
ponded water	X		N/O	
toe heaving	X		N/O	
overall condition	X		stable slope appearance	
Inactive Area (Synthetic)			Synthetic Interim Cover Material (SICM) over most slopes	
location description	-	-	except lower west slope	n/a
slope stability	X		isolated surface bulge associated with SICM anchor	none needed
cracking	X		N/O	
erosion	X		N/O	
leachate breakout	X		N/O	
ponded water	X		ponding on the northwest corned of landfill (see Photos #4, 5)	regrading to establish drainag
toe heaving	X		N/O	
overall condition	X		stable SICM slope appearance (see Photos 1-3, 8,11-17,20--29)	
Interim Soil Cover				
location description	-	-	lower westerly slopes	n/a
overall surface conditio	X		good grass/soil cover except in excavation (see Photo #6)	
cracking	X		N/O	
erosion of cover materia	X		N/O	
erosion of ditch linings	X		N/O	
leachate breakout	X		N/O	
ponded water	X		N/O	
toe heaving	X		N/O	
grass kills	X		N/O	
gas venting	X		N/O	
overall condition	X		good stable condition (see Photos 1,6,7,25-28)	

Appendix E

Cell 11 Fluid Pressure Data

2020 Leachate Cell Floor Transducer (Cell 11)*

1st Qtr**		2nd Qtr		3rd Qtr		4th Qtr	
Date	**(ft)**	**Date**	**(ft)**	**Date**	**(ft)**	**Date**	**Level (ft)**
01/01/20	0.05	04/01/20	0.05	07/01/20	0.05	10/01/20	0.05
01/02/20	0.05	04/02/20	0.05	07/02/20	0.05	10/02/20	0.05
01/03/20	0.05	04/03/20	0.05	07/03/20	0.05	10/03/20	0.05
01/04/20	0.05	04/04/20	0.05	07/04/20	0.05	10/04/20	0.05
01/05/20	0.05	04/05/20	0.05	07/05/20	0.05	10/05/20	0.05
01/06/20	0.05	04/06/20	0.05	07/06/20	0.04	10/06/20	0.05
01/07/20	0.05	04/07/20	0.05	07/07/20	0.00	10/07/20	0.05
01/08/20	0.05	04/08/20	0.05	07/08/20	0.04	10/08/20	0.05
01/09/20	0.05	04/09/20	0.05	07/09/20	0.05	10/09/20	0.05
01/10/20	0.05	04/10/20	0.02	07/10/20	0.05	10/10/20	0.05
01/11/20	0.05	04/11/20	0.05	07/11/20	0.06	10/11/20	0.05
01/12/20	0.05	04/12/20	0.05	07/12/20	0.06	10/12/20	0.05
01/13/20	0.05	04/13/20	0.05	07/13/20	0.05	10/13/20	0.05
01/14/20	0.05	04/14/20	0.05	07/14/20	0.05	10/14/20	0.05
01/15/20	0.05	04/15/20	0.05	07/15/20	0.04	10/15/20	0.05
01/16/20	0.05	04/16/20	0.05	07/16/20	0.00	10/16/20	0.05
01/17/20	0.05	04/17/20	0.05	07/17/20	0.00	10/17/20	0.05
01/18/20	0.05	04/18/20	0.05	07/18/20	0.00	10/18/20	0.05
01/19/20	0.05	04/19/20	0.05	07/19/20	0.00	10/19/20	0.05
01/20/20	0.05	04/20/20	0.05	07/20/20	0.04	10/20/20	0.05
01/21/20	0.05	04/21/20	0.05	07/21/20	0.05	10/21/20	0.05
01/22/20	0.05	04/22/20	0.05	07/22/20	0.05	10/22/20	0.05
01/23/20	0.05	04/23/20	0.05	07/23/20	0.05	10/23/20	0.05
01/24/20	0.05	04/24/20	0.05	07/24/20	0.05	10/24/20	0.05
01/25/20	0.05	04/25/20	0.05	07/25/20	0.06	10/25/20	0.05
01/26/20	0.05	04/26/20	0.05	07/26/20	0.06	10/26/20	0.05
01/27/20	0.05	04/27/20	0.05	07/27/20	0.05	10/27/20	0.05
01/28/20	0.05	04/28/20	0.05	07/28/20	0.05	10/28/20	0.05
01/29/20	0.05	04/29/20	0.05	07/29/20	0.05	10/29/20	0.05
01/30/20	0.05	04/30/20	0.05	07/30/20	0.05	10/30/20	0.05
01/31/20	0.05	05/01/20	0.05	07/31/20	0.00	10/31/20	0.05
02/01/20	0.05	05/02/20	0.05	08/01/20	0.05	11/01/20	0.06
02/02/20	0.05	05/03/20	0.05	08/02/20	0.05	11/02/20	0.06
02/03/20	0.05	05/04/20	0.05	08/03/20	0.05	11/03/20	0.05
02/04/20	0.05	05/05/20	0.05	08/04/20	0.05	11/04/20	0.05
02/05/20	0.05	05/06/20	0.05	08/05/20	0.05	11/05/20	0.05
02/06/20	0.05	05/07/20	0.05	08/06/20	0.05	11/06/20	0.05
02/07/20	0.05	05/08/20	0.05	08/07/20	0.06	11/07/20	0.03
02/08/20	0.04	05/09/20	0.05	08/08/20	0.04	11/08/20	0.05
02/09/20	0.04	05/10/20	0.05	08/09/20	0.00	11/09/20	0.05
02/10/20	0.05	05/11/20	0.05	08/10/20	0.00	11/10/20	0.05
02/11/20	0.05	05/12/20	0.05	08/11/20	0.00	11/11/20	0.05
02/12/20	0.05	05/13/20	0.05	08/12/20	0.00	11/12/20	0.05
02/13/20	0.05	05/14/20	0.05	08/13/20	0.00	11/13/20	0.05
02/14/20	0.04	05/15/20	0.05	08/14/20	0.00	11/14/20	0.05
02/15/20	0.05	05/16/20	0.05	08/15/20	0.00	11/15/20	0.05
02/16/20	0.05	05/17/20	0.05	08/16/20	0.00	11/16/20	0.05
02/17/20	0.05	05/18/20	0.05	08/17/20	0.00	11/17/20	0.05

02/18/20	0.05
02/19/20	0.05
02/20/20	0.05
02/21/20	0.05
02/22/20	0.05
02/23/20	0.05
02/24/20	0.05
02/25/20	0.05
02/26/20	0.05
02/27/20	0.05
02/28/20	0.05
02/29/20	0.05
03/01/20	0.05
03/02/20	0.05
03/03/20	0.05
03/04/20	0.05
03/05/20	0.05
03/06/20	0.05
03/07/20	0.05
03/08/20	0.05
03/09/20	0.05
03/10/20	0.05
03/11/20	0.05
03/12/20	0.05
03/13/20	0.05
03/14/20	0.05
03/15/20	0.05
03/16/20	0.05
03/17/20	0.05
03/18/20	0.05
03/19/20	0.05
03/20/20	0.05
03/21/20	0.05
03/22/20	0.05
03/23/20	0.05
03/24/20	0.05
03/25/20	0.05
03/26/20	0.05
03/27/20	0.05
03/28/20	0.05
03/29/20	0.05
03/30/20	0.05
03/31/20	0.05

05/19/20	0.05
05/20/20	0.05
05/21/20	0.05
05/22/20	0.06
05/23/20	0.05
05/24/20	0.05
05/25/20	0.05
05/26/20	0.05
05/27/20	0.05
05/28/20	0.05
05/29/20	0.05
05/30/20	0.05
05/31/20	0.05
06/01/20	0.05
06/02/20	0.06
06/03/20	0.05
06/04/20	0.05
06/05/20	0.05
06/06/20	0.05
06/07/20	0.05
06/08/20	0.05
06/09/20	0.05
06/10/20	0.05
06/11/20	0.05
06/12/20	0.05
06/13/20	0.05
06/14/20	0.05
06/15/20	0.05
06/16/20	0.05
06/17/20	0.05
06/18/20	0.05
06/19/20	0.05
06/20/20	0.05
06/21/20	0.05
06/22/20	0.05
06/23/20	0.05
06/24/20	0.05
06/25/20	0.05
06/26/20	0.05
06/27/20	0.05
06/28/20	0.05
06/29/20	0.05
06/30/20	0.05

08/18/20	0.00
08/19/20	0.00
08/20/20	0.00
08/21/20	0.00
08/22/20	0.00
08/23/20	0.00
08/24/20	0.00
08/25/20	0.00
08/26/20	0.00
08/27/20	0.00
08/28/20	0.00
08/29/20	0.00
08/30/20	0.00
08/31/20	0.00
09/01/20	0.00
09/02/20	0.00
09/03/20	0.00
09/04/20	0.00
09/05/20	0.00
09/06/20	0.00
09/07/20	0.00
09/08/20	0.00
09/09/20	0.00
09/10/20	0.00
09/11/20	0.00
09/12/20	0.00
09/13/20	0.00
09/14/20	0.00
09/15/20	0.00
09/16/20	0.00
09/17/20	0.00
09/18/20	0.00
09/19/20	0.00
09/20/20	0.00
09/21/20	0.00
09/22/20	0.00
09/23/20	0.00
09/24/20	0.02
09/25/20	0.05
09/26/20	0.05
09/27/20	0.05
09/28/20	0.05
09/29/20	0.05
09/30/20	-0.02

11/18/20	0.05
11/19/20	0.05
11/20/20	0.05
11/21/20	0.05
11/22/20	0.05
11/23/20	0.06
11/24/20	0.05
11/25/20	0.05
11/26/20	0.05
11/27/20	0.05
11/28/20	0.05
11/29/20	0.05
11/30/20	0.05
12/01/20	0.05
12/02/20	0.05
12/03/20	0.05
12/04/20	0.05
12/05/20	0.06
12/06/20	0.05
12/07/20	0.05
12/08/20	0.05
12/09/20	0.05
12/10/20	0.05
12/11/20	0.05
12/12/20	0.05
12/13/20	0.05
12/14/20	0.05
12/15/20	0.05
12/16/20	0.05
12/17/20	0.05
12/18/20	0.05
12/19/20	0.05
12/20/20	0.05
12/21/20	0.06
12/22/20	0.05
12/23/20	0.05
12/24/20	0.05
12/25/20	0.06
12/26/20	0.05
12/27/20	0.05
12/28/20	0.05
12/29/20	0.05
12/30/20	0.05
12/31/20	0.05

Appendix F

Site Photographs

10/16/20 Site Visit

1. looking southeasterly along eastern portion of northern slope

2. looking easterly across middle portion of northern slope

3. looking northwesterly along western portion of the northern slope in the transition between Cell 3 & Cell 1 & 2

4. looking northerly across northwest corner of Cells 1 & 2

5. looking north along the western slope of Cells 1 & 2

6. at landfill toe looking east up the western slope of Cells 1 & 2
(the location of the previous excavation area)

7. at western detention pond looking north towards bottom slope of Cell 1 & 2
(and northern portion of the excavation area)

8. looking southeasterly at western detention pond towards the western slope of Cell 4/5

9. on the western slope of Cell 1/2/3 looking southerly towards northwestern slope of Cell 4

10. looking northerly down west slope of Cell 4/5 towards western detention ponds and western slope of Cell 1

11. on the western slope of Cell 4 looking southerly to the western slope of Cell 4/5

12. looking northerly along west slope of Cells 4/5 to southeast slope of Cells 4, and 1/2

13. looking southeasterly along south face of Cell 4/5 towards southwest face of Cell 5/6

14. looking southwest along southerly slopes of Cells 4/5/6

15. looking southeast to southwestern face of Cell 5/6 and Cell 8

16. looking southwesterly along the bottom slope of Cell 8/10

17. at the southern toe of the landfill looking southwesterly along the south face of Cell 10

18. looking westerly aloong the southern top of active Cell 10

19. top of Cell 10 looking northerly to the active face of waste placement

20. looking south down south slope of Cell 10

21. looking south down the south slope of Cell 10

22. detail of anchor pockets on south slope of Cell 10

23. looking northwesterly up south ridge line of Cell 10 towards the eastern slopes of Cell 10 and 11

24. looking northwesterly along the easterly slope of Cells 10/11

25. top of the northwest corner looking down north slope of Cell 3/2/1

26. top of landfill looking northerly down north slope towards the soft material placement into Cell 12

27. looking easterly along eastern north face of Cell 7/11 (with Cell 12 to the left)

28. looking southerly towards the northeast corner of Cell 10/11 and southeast corner of Cell 12
(with the active placement of soft material in the foreground)

10/16/20 Site Visit

29. looking westernly at the northeast landfill corner towards soft waste placement in Cell 12

ATTACHMENT J

Updated Closure and Post-Closure Cost Estimates

SME
SEVEE & MAHER
ENGINEERS

4 Blanchard Road, P.O. Box 85A
Cumberland, ME 04021
Tel: 207.829.5016 • Fax: 207.829.5692
info@smemaine.com
smemaine.com

April 23, 2021

Mr. Jeffrey Pelletier
Environmental Compliance Manager
NEWSME Landfill Operations LLC
358 Emerson Mill Rd
Hampden, ME 04444

Subject: Update of Opinion of Capital Closure and Post-Closure Costs
Calendar Year 2021
Juniper Ridge Landfill
Old Town, Maine

Dear Jeffrey:

As requested by NEWSME Landfill Operations LLC (NEWSME), Sevee & Maher Engineers, Inc. (SME) has updated our opinion of capital closure and post-closure costs for the Juniper Ridge Landfill (JRL) in Old Town, Maine for calendar year 2021. The capital closure cost is for those cells that, as of the end of the calendar year 2021, have been or will be constructed and operational, but have not received final cover. These include Cells 1, 2, 3A, 3B, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13. In total, these landfill cells have approximately 94.2 acres of closure area. Our opinion of the capital closure cost to close the 94.2 acres is $24,176,000. This cost is based on a per-acre closure cost presented in Table 1, for a final cover consistent with the final waste grades and cover components requirements of Maine Department of Environmental Protection (MEDEP) Solid Waste Management Rules (SWMRs).

The post-closure monitoring and maintenance cost for the site (as of April 2021) is $12,800,100 for the items presented in Table 2. The post-closure costs assume a 30-year post-closure period and are based on 2021 dollars.

Our opinion of closure and post-closure costs is based on the following assumptions.

1. The closure of the individual cells will consist of placing final cover over the areas of the developed landfill which have not received final cover. Note that operational costs such as placement and removal of intermediate cover, and operational waste grading are not included in the final cover costs presented herein. The cost to install an active gas collection system as part of closure is only included for landfill areas which currently do not have any active gas systems. It is assumed that the current systems will continue to operate during the post-closure period. In areas that currently do not have active gas collection, it is assumed that a gas extraction system will be installed as part of the final cover construction.
2. The final cover of these cells will consist of the components outlined in the current SWMRs. SME's opinion of closure costs is based on our current understanding of site conditions and unit costs from NEWSME's Cell 13 project (excluding the drainage terraces and

engineering/construction monitoring costs). The unit cost of vegetative cover factors in an estimate from Casella Organics to purchase and transport compost. The unit costs have been adjusted to reflect cover construction on 3H to 1V side slopes.

3. The unit costs for most items increased from 2020 to 2021. There was a significant increase in the cost of 40-mil geomembrane based on both industrywide price increases following disruptions in resin production and discussions with installers that indicated prices would not decline in the future. There was also a significant price increase for sand based on recent bid prices that have been observed at JRL for Cell 13 construction. Actual closure costs will vary and are dependent upon the actual nature and extent of waste placement, timing of closure, and other factors not evident at this time.

4. The post-closure costs include landfill inspection, water quality monitoring, leachate management, general site maintenance, gas treatment and maintenance, and engineering for the entire facility. These post-closure costs are based on our current understanding of site conditions, and projections of both leachate and landfill gas quantity and quality, and costs associated with treatment and disposal. Actual post-closure costs will vary and are dependent upon the actual nature of site conditions at the time of closure, long-term management decisions of NEWSME and the Regulators, and other factors not evident at this time.

If there are any questions concerning our opinion of costs presented in this letter, please feel free to contact us.

Sincerely,

SEVEE & MAHER ENGINEERS, INC.

Rhonda M Forrester

Rhonda N. Forrester, P.E.
Project Manager

Attachments:

Table 1	Opinion of Final Cover Costs for Juniper Ridge Landfill Developed Landfill Area as of December 2021
Table 2	Opinion of Post-Closure Monitoring and Maintenance Costs for Juniper Ridge Landfill Developed Landfill Area as of December 2021

cc: Toni King, NEWSME
Wayne Boyd, NEWSME

TABLE 1

OPINION OF FINAL COVER COSTS FOR JUNIPER RIDGE LANDFILL
DEVELOPED LANDFILL AREA
AS OF DECEMBER 2021

JUNIPER RIDGE LANDFILL PER-ACRE FINAL COVER COSTS (GAS COLLECTION NEEDED) (Update 4/2021)				
ITEM	UNIT	QUANTITY	UNIT COST(1)	TOTAL
Mobilization	L.S.	1	$26,300	$26,300
Erosion Control	L.S.	1	$5,900	$5,900
Active Gas System	L.S.	1	$22,700	$22,700
Site Grading	L.S.	1	$3,600	$3,600
Drainage Terraces	L.S.	1	$21,200	$21,200
24" Compacted Clay	C.Y.	3,230	$21.00	$67,830
40-mil Textured Geomembrane	SQ.FT.	43,600	$0.49	$21,364
12" Drainage Sand	C.Y.	1,620	$28.00	$45,360
12" Vegetative Cover	C.Y.	1,620	$22	$35,640
Seed & Mulch	L.S.	1	$2,400	$2,400
Engineer/Const. Monitoring	L.S.	1	$25,300	$25,300
			Total	$277,594

JUNIPER RIDGE LANDFILL PER-ACRE FINAL COVER COSTS (EXISTING GAS COLLECTION) (Update 4/2021)				
ITEM	UNIT	QUANTITY	UNIT COST(1)	TOTAL
Mobilization	L.S.	1	$26,300	$26,300
Erosion Control	L.S.	1	$5,900	$5,900
Site Grading	L.S.	1	$3,600	$3,600
Drainage Terraces	L.S.	1	$21,200	$21,200
24" Compacted Clay	C.Y.	3,230	$21.00	$67,830
40-mil Textured Geomembrane	SQ.FT.	43,600	$0.49	$21,364
12" Drainage Sand	C.Y.	1,620	$28.00	$45,360
12" Vegetative Cover	C.Y.	1,620	$22	$35,640
Seed & Mulch	L.S.	1	$2,400	$2,400
Engineer/Const. Monitoring	L.S.	1	$25,300	$25,300
			Total	$254,894

Notes:
1. Unit costs (not including drainage terraces and engineer/const. monitoring) based upon Third Party Construction Cost (JRL Cell 13 bid dated March 2021). Unit cost of vegetative cover is based on the JRL Cell 13 bid and a compost unit cost estimate from Casella Organics. These costs have been adjusted to reflect the cover construction on 3H to 1V side slopes.

	Acres	Closure Cost
Area with Existing Gas Collection (Cells 1 - 12)	86.9	$22,150,000
Area without Gas Collection (Cell 13)	7.3	$2,026,000
Total		$24,176,000

TABLE 2

OPINION OF POST-CLOSURE MONITORING AND MAINTENANCE COSTS FOR JUNIPER RIDGE LANDFILL
DEVELOPED LANDFILL AREA AS OF DECEMBER 2021

ITEM	OPINION OF AVERAGE YEARLY COSTS	TOTAL COST FOR 30 YEAR PERIOD	ASSUMPTIONS
Leachate Collection, Transport and Disposal			
A. Electrical Costs to Operate Pump Stations	$ 1,500	$45,000	Assumes a 15 hp (75 percent efficiency) pump pumping for 752 hours per year with electrical costs of $0.18 /kWhr.
B. Disposal Costs for Leachate Years 1-30	$ 98,600	$2,958,000	Leachate generation is estimated for a 30 year period beginning with 18.0 M gallons at year 1 and decreasing to 0.31 M gallons at year 30. Transportation cost of $0.02184/gal.
C. Annual Leachate Testing	$ 5,000	$150,000	Annual cost for pretreatment testing.
	Subtotal Total	**$3,153,000**	
Post Closure Water Quality Monitoring			
A.1 Collect Samples From 24 Wells, 11 Underdrains,2 Leachate, 1 Leak Detection, 7 Surface Waters & 3 Pore Waters for 3 Rounds/Year & Methane Measurements From Wells 3 Times per Year	$ 42,900	$214,500	Assumes two rounds detection monitor parameters, one round extended parameters for years 1-5.
A.2 Collect Samples From 24 Wells, 11 Underdrains,2 Leachate, 1 Leak Detection, 7 Surface Waters & 3 Pore Waters for 2 Rounds/Year & Methane Measurements From Wells 2 Times per Year	$ 28,600	$143,000	Assumes one round detection monitor parameters, one round extended parameters for years 6-10.
A.3 Collect Samples From 24 Wells, 11 Underdrains,2 Leachate, 1 leak Detection, 7 Surface Waters & 3 Pore Waters for 1 Round/Year & Methane Measurements From Wells 1 Time per Year	$ 14,300	$286,000	Assumes one round extended parameters for years 11-30.
B.1 Analyses of 52 Samples 3 Times per Year	$ 52,800	$264,000	Assumes 24 wells,11 underdrains,2 leachate, 1 Leak Detection 7 surface,3 pore water & 4 QA/QC.
B.2 Analyses of 52 Samples 2 Times per Year	$ 35,200	$176,000	Assumes 24 wells,11 underdrains,2 leachate, 1 leak detection, 7 surface,3 pore water & 4 QA/QC.
B.3 Analyses of 52 Samples 1 Time per Year	$ 17,600	$352,000	Assumes 24 wells,11 underdrains,2 leachate, 1 leak detection, 7 surface,3 pore water & 4 QA/QC.
C. Compile Data and Submit to MDEP	$ 4,600	$138,000	Assumes Report prepared and submitted to MEDEP after each sampling round.
Subtotal Yearly Cost Years 1-5	$ 100,300		
Subtotal Yearly Cost Years 6-10	$ 68,400		
Subtotal Yearly Cost Years 11-30	$ 36,500		
	Subtotal Total	**$1,573,500**	
Landfill Inspection			
A. Monthly Site Walk Over & Report Generation	$ 9,180	$275,400	Assumes 9 hr. per month @ $85/hr.
Subtotal	**$ 9,180**	**$275,400**	
Active Landfill Gas Extraction System			
A. Gas Collection Equipment Replacement	$ 11,200	$336,000	General equipment replacement including well heads, condensate pumps etc.
B. Flare Maintenance	$ 6,100	$183,000	Replacement of flare parts such as flame arrestor media etc.
C. Blower Maintenance	$ 6,100	$183,000	Routine inspection and maintenance of blower & control system.
D. System Operation and Inspection	$ 5,800	$174,000	General system operation & maintenance.
E. Well Tuning	$ 11,200	$336,000	Well tuning once per month.
F. Compliance Monitoring and Reporting	$ 18,400	$552,000	Includes Compliance Air Monitoring and Reporting.
G. Electrical Costs to Operate Blowers, Heat & Control Panel Years 1-30	$ 62,000	$1,860,000	Electricity for blowers assumes varying horsepower requirement as gas decreases @$0.18/kWhr.
H. Landfill Gas Treatment Costs Years 1-30	$ 80,500	$2,415,000	Includes treatment cost for H2S removal to 1,000 ppm using Thiopaq system at a cost of $2,050 per ton.
	Subtotal Total	**$6,039,000**	
Landfill Maintenance			
A. Cover Maintenance Including Annual Mowing & Erosion Repair	$ 9,000	$270,000	Assumes 2 man crew 10 days/ year.
B.1 Pump Stations Inspections	$ 11,700	$351,000	Assumes 4.5 hr./ week @ $50 per hour.
B.2 Pump Replacement Every Five Years (Not Annual Cost)	$ 39,200	$235,200	Assumes replacing 14 on-site pumps every 5 years at $2,800 a piece.
C. General Site Maintenance	$ 8,000	$240,000	Assumes snow plowing 20 storms per year @ $400 per storm.
D. Leachate Line Cleaning	$ 27,000	$540,000	Assumes leachate line cleaning once per year for years 1-10, then every other year, for years 11-30 @ $27,000 per cleaning.
Subtotal	**$ 94,900**	**$1,636,200**	
Professional Services			
A. Engineering Services	$ 4,100	$123,000	General Services
Subtotal	**$ 4,100**	**$123,000**	
TOTAL		**$12,800,100**	

ATTACHMENT K

MSW Diversion

JRL 2020 Annual Report

Compliance with Condition 5 of #S-020700-WD-BC-A

(Casella MSW Landfilling Diversion)

Best efforts by Casella to divert MSW from landfilling at JRL to the greatest extent practicable:

5.A: A list and description of all diversion options evaluated and/or pursued by Casella, including currently operating Maine waste-to-energy facilities as options:

Diversion of MSW through Recycling

1. Casella's Zero-Sort program delivering MSW recyclables collected in Maine to the Casella processing facility in Lewiston.
2. Casella's cardboard recycling program wherein source separated cardboard is collected, baled, and marketed to end use recyclers.
3. Operation of the Casella Zero-Sort processing facility in Lewiston, Maine. Outreach to municipalities and businesses to encourage participation in Casella's Zero-Sort recycling program.

Diversion of MSW to Maine Incinerators and Processing Facilities

ecomaine:

Casella's Pine Tree Waste hauling companies collect and deliver Maine MSW and recycling materials to the ecomaine incinerator and single stream recycling facility.

MMWAC:

Casella's Pine Tree Waste hauling companies collect and deliver Maine MSW to the MMWAC incinerator.

PERC:

In 2019 an agreement was reached with PERC to annually deliver up to 107,000 tons of Maine MSW. This agreement included an additional 27,000 tons of Maine MSW delivered to PERC. This is more than half of the expected annual throughput at the PERC facility. In addition, in the 2019 agreement with PERC a new provision has been added that if Coastal Resource Management (CRM) cannot accept the commercial tons provided for in the CRM agreement that MSW from the Bangor and Waterville markets will be taken to PERC.

COASTAL RESOURCE MANAGEMENT:

In 2017 an agreement was reached with CRM to deliver 40,000 tons annually of Maine municipal solid waste to CRM's recycling and processing facility in Hampden, in addition to deliveries of collected material from Municipal Review Committee (MRC) communities by Pine Tree Waste.

SWAP AGREEMENT:

A collective agreement was reached between Pine Tree Waste, Inc., NEWSME Landfill Operations, LLC, Waste Management Disposal Services of Maine, Inc., Municipal Review Committee, Inc., and Coastal Resources of Maine, LLC, pursuant to which bypass MSW and oversized bulky waste collected from some MRC communities, primarily within the greater Bangor area, would be delivered to JRL rather than being delivered to the Crossroads Landfill, and an equivalent amount of MSW originating in Maine that otherwise would be delivered by Pine Tree to JRL would instead by delivered by Pine Tree to the Crossroads Landfill.

Diversion by Disposal at Other Landfills

Casella's Pine Tree Waste hauling companies (Bethel, Fairfield, Hermon, Houlton, Mechanic Falls, Old Orchard Beach, Sanford, Scarborough, Waterville, and West Bath) collect Maine MSW and deliver to landfills other than Juniper Ridge: Bath, Brunswick, Fort Fairfield / Presque Isle (RWS), and Norridgewock, Maine, and Berlin, New Hampshire.

5.B: A narrative detailing the specific efforts made by Casella to implement diversion options:

See narrative description in 5.A above.

5.C: A narrative describing the results of Casella's evaluation/pursuit of MSW diversion options, including the volume of waste and diversion destination of MSW successfully diverted and/or the specific reasons that MSW was not diverted to other destination options.

Maine MSW Recyclables Delivered to Casella Zero-Sort in Lewiston, ME

- Number of Maine municipalities participating in Casella's Zero-Sort program in calendar year 2020: 44
- Number of Maine businesses participating in Casella's Zero-Sort program in calendar year 2020: approx. 3,602
- Tons of Maine MSW recyclables processed in Casella's Zero-Sort program in calendar year 2020: 28,302 tons

Casella cardboard recycling

Fiber brokered and baled directly from Maine municipalities or Maine businesses in calendar year 2020:

- Brokered: 46,442 tons
- Baled: 13,807 tons

Maine MSW Delivered to Maine Incinerators and Processing Facilities in 2020

ecomaine:

- Single-stream recyclables: 12,694 tons
- MSW: 55,030 tons

MMWAC:

- MSW: 37,171 tons

PERC:

- MSW: 116,209 tons

CRM:

- MSW: 7,155 tons

Maine MSW Delivered to Landfills Other than Juniper Ridge in 2020

Bath Landfill:

- MSW: 1,199 tons

Brunswick Landfill:

- MSW: 8,474 tons

Fort Fairfield / Presque Isle Landfill (RWS):

- MSW: 12,468 tons

Norridgewock Landfill:

- MSW: 7,503 tons

Berlin, NH Landfill:

- MSW: 11,830 tons

Total Maine MSW diverted from disposal at JRL in 2020 through efforts described above

- 358,284 tons

Total Maine, non-bypass MSW disposed at JRL in 2020

- 55,470 tons

MSW DIVERSION FROM JUNIPER RIDGE LANDFILL	2014	2015	2016	2017	2018	2019	2020
Maine MSW Recyclables Delivered to Casella Zero-Sort Facilities:							
Number of Maine municipalities participating in Casella Zero-Sort program:	52	62	64	63	59	43	44
Number of Maine businesses participating in Casella Zero-Sort program:	3,200	3,482	3,381	3,343	3,375	3,305	3,602
Tons of Maine MSW recyclables processed in Casella Zero-Sort program	25,026	28,688	35,851	30,263	30,376	28,876	28,302
Cardboard recycling: Fiber from Maine municipalities, businesses, or transfer stations (tons):							
Brokered:	37,385	53,244	55,903	47,613	53,445	54,126	46,442
Collected / Baled:	12,840	29,071	27,288	25,953	21,945	22,450	13,807
Maine MSW delivered by Casella to Maine incinerators or Processing Facilities (tons):							
a. ecomaine:							
i. Lewiston Zero-Sort processing residue:	97	329	-	-	-	-	-
ii. Single-stream recyclables:	42,506	11,430	11,934	11,697	11,127	10,149	12,694
iii. MSW:		41,130	45,837	48,295	48,047	49,073	55,030
b. MMWAC:							
i. Lewiston Zero-Sort processing residue:	-	1,742	2,777	3,080	484	-	-
ii. MSW:	147	32,212	35,384	37,707	36,949	38,961	37,171
c. PERC:							
i. Lewiston Zero-Sort processing residue:	-	-	-	-	2,608	1,343	-
ii. MSW:	89,902	89,054	79,443	76,477	96,124	114,008	116,209
d. CRM[1]						8,037	7,155
Maine MSW delivered by Casella to Maine landfills other than Juniper Ridge (tons):							
a. Bath Landfill:	388	6,097	5,740	5,445	4,747	3,210	1,199
i. Lewiston Zero-Sort processing residue:	-	-	-	-	603	-	-
b. Brunswick Landfill:	10,144	528	3,474	6,715	9,303	14,661	8,474
c. Fort Fairfield Landfill:	7,249	10,500	11,204	10,828	13,682	16,069	12,468
d. Norridgewock Landfill:	2,495	2,720	2,549	2,264	16,865	40,562	7,503
Maine MSW delivered by Casella to New Hampshire Landfills (tons):							
a. Berlin Landfill						11,804	11,830
Total Maine MSW diverted from disposal at JRL through efforts described above (tons):	228,179	306,745	317,384	306,337	346,305	401,525	358,284
Total Non-Bypass Maine MSW disposed at JRL (tons):	36,878	57,521	69,934	77,673	82,805	79,910	55,470

1 A portion of the volume noted as MSW to CRM was previously reported as recycling,
due to CRM's ability to process co-mingled MSW and recycling