

Operated By NEWSME Landfill Operations, LLC

April 24, 2014

Mike Parker Division of Solid Waste Management Department of Environmental Protection 17 State House Station Augusta, ME 04333-0017

Re: Juniper Ridge Landfill 2013 Annual Report

Dear Mike:

Enclosed for your review is the above-referenced report and supporting documentation as required.

Should you require additional information or clarification, please do not hesitate to contact me at 207-862-4200 ext. 233 or Wayne Boyd at 207-862-4200 ext. 224.

Respectfully submitted,

NEWSME Landfill Operations, LLC.

Jeremy Labbe, P.E.

Engineer & Environmental Manager

Enclosure

Ce: Vicky Bryant, MEDEP

Michael Barden, BGS

William Mayo, City of Old Town

2013 ANNUAL REPORT

JUNIPER RIDGE LANDFILL OLD TOWN, MAINE

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

April 2014



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1.0 INTRODUCTION

Pursuant to the requirements of 38 MRSA §1310-N(6-D), this document, and associated attachments, serve as the 2013 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, as well as Condition 19 of Solid Waste Order #S-020700-WD-N-A, and Condition 4 of Solid Waste Order #S-020700-WD-W-M. 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 68 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 (now referred to as Old Town Fuel & Fiber) 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

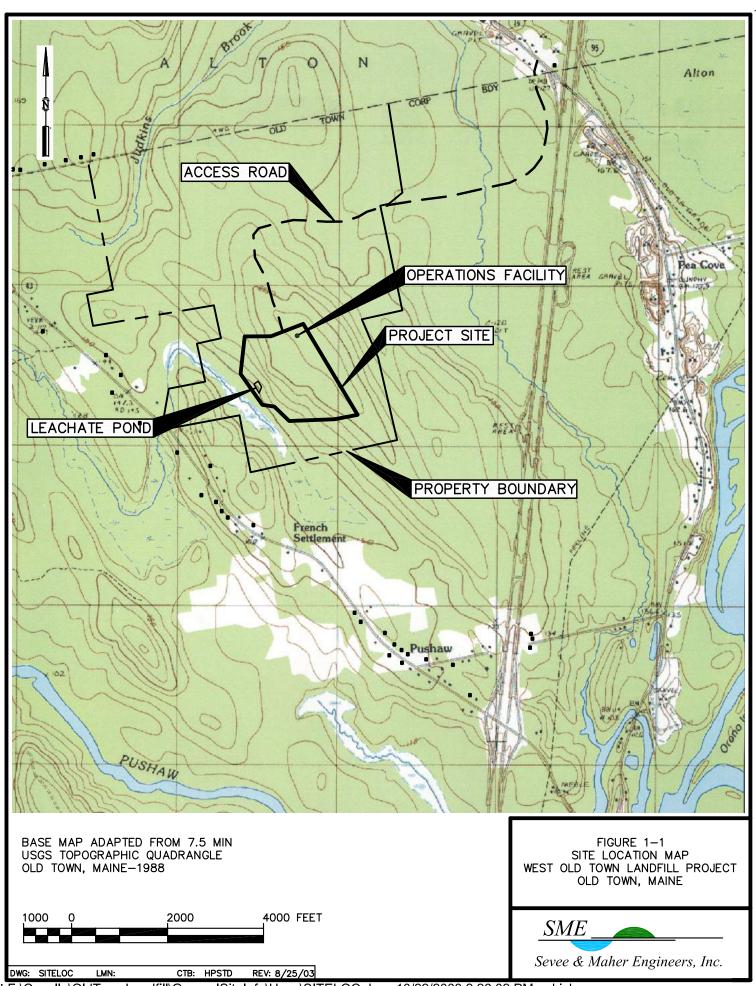
of additional waste streams at the facility. On February 5, 2004, SPO formally purchased the JRL property from Fort James and signed an Operating Services Agreement with NEWSME to operate the facility for a 30 year period. At the same time, all previously approved MEDEP operating licenses for the JRL 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 (utilizing MSE berms).

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

At the time of this annual report, Cells 1, 2, 3A, 3B, 4, 5, 6, 7, and 8 have been constructed at the facility with Cells 7 and 8 being the operational cells in 2013. An updated site plan may be found in Attachment A of this report.

1.2 Annual Report Format

This Annual Report contains the information required by Section 401.4.D of the Regulations, including a general summary of activities during 2013, a compliance evaluation performed by JRL's environmental manager, a summary of 2013 operations and operational information, a summary of facility site changes, a summary of the site monitoring performed at and around the site during 2013, and an update of the costs and documentation of changes to the closure and post-closure funding of the facility. The 2013 Annual Report fee of \$3,396 was previously submitted to the MEDEP on February 6, 2014.



2.0 SUMMARY OF SITE ACTIVITIES

2.1 Site Activities

The major site activities that occurred at JRL during 2013 are as follows:

- The landfill gas flare was relocated from its temporary location on the north side
 of the site, to its permanent permitted location on the south side of the site
 adjacent to the leachate storage tank. This relocation was completed on May 20,
 2013;
- The re-construction of Detention Pond #5 was completed to include a liner and phased treatment capabilities, including an initial phase sand filtration unit.
 Portions of the road and stormwater drainage ditches northwest of the landfill were also re-graded and paved to optimize the collection of stormwater runoff for treatment along the northwest perimeter of the landfill;
- Two Hydrogen sulfide (H₂S) treatment containers utilizing SulfaTreat® media were installed in January adjacent to the flare to assist in maintaining H₂S levels within air license required limits;
- Intermediate cover (consisting of 40-mil geomembrane) was installed on approximately 8 acres of Cells 7 and 8 sideslope to shed clean stormwater and to assist in controlling odors;
- New landfill gas collection components were installed throughout Cells 7 and 8.
 The components included seven new vertical LFG extraction wells, 11 gas collection trenches, 12" header piping, and lateral extraction piping in accordance with cells 7 & 8 landfill gas system expansion design previously submitted to the MEDEP with cell design documents;
- Installed an access road on the south side of Cell 8 in accordance with the Cell 8 development plans;

- Filled Cell 7 to elevation 325' and installed intermediate cover (soil) on top of the cell;
- Continued filling of Cell 8.

The following MEDEP and Federal applications were submitted and/or approved during 2013 relating to the operations at JRL.

TABLE 2-1
SUMMARY OF APPLICATIONS SUBMITTED AND/OR APPROVED AT JUNIPER RIDGE LANDFILL REPORT YEAR 2013

| Application Description | Agency | Permit/License Number |
|---|-------------------------------------|-----------------------|
| City of Brewer Industrial Wastewater Discharge Permit | City of Brewer | #37-2679-07 |
| Federal Fish & Wildlife Permit Renewal (Bird Depredation) | US Department of | #MB670894-0 |
| #S-020700-WD-N-A Amendment (MSW acceptance) | MEDEP Bureau of Waste Management | #S-020700-WD-BC-A |
| Application for Part 70 Administrative Revision to Incorporate NSR License into JRL's Part 70 Air License | MEDEP Bureau of Air Quality | Application |
| Minor Revision Application for Amendment to the NSR License to Install a Sulfur Control System | MEDEP Bureau of Air Quality | Application |

2.2 Compliance Self-Audit

As required by Section 401.4.D (1) (b) of the MEDEP Regulations, JRL performed an annual evaluation of landfill operations for calendar year 2013. A copy of the Audit is included as Attachment B.

3.0 SUMMARY OF OPERATIONS

3.1 Types of Wastes Received At JRL During 2013

During 2013, the waste stream at JRL included construction and demolition debris, FEPR, CDD processing residue wood fines, OBW, MSW incinerator ash, municipal wastewater sludge, lime mud, wood ash, contaminated soils, pulp/paper sludge, MSW bypass, and other approved special wastes.

Between January 1, 2013 and December 31, 2013, JRL received a total of 606,254 tons of material as compared to 637,303 tons received during 2012. Non-waste-related deliveries to the landfill during 2013 consisted of 1,670 tons of tire chips and shreds (utilized for landfill gas collection trenches and leachate drainage systems).

Table 3-1 lists the specific waste types accepted at the landfill during report year 2013 and the corresponding tonnages.

The MEDEP report form "2013 Annual Solid Waste Management Report for Municipalities and DEP-licensed Transfer Stations and Landfills" is contained in Attachment C.

TABLE 3-1
SUMMARY OF WASTES ACCEPTED AT JUNIPER RIDGE LANDFILL
REPORT YEAR 2013

| Type of Waste | Quantity (tons) | Origin |
|---|--------------------|--------|
| Burn pile ash and/or hot loads area ash | 1,208* | Maine |
| Catch basin grit & street sweepings | 686 | Maine |
| CDD processing residue - bulky waste | 54,203 | Maine |
| CDD processing residue – fines | 152,915* | Maine |
| Coal, oil & multifuel boiler ash | 7,507 * | Maine |
| Contaminated soil & debris | 1,462 | Maine |
| Dredged spoils | - | Maine |
| FEPR | 53,654 | Maine |
| Industrial WWTP sludge | 18,206 | Maine |
| Leather scraps | 172 | Maine |
| Lime mud and grit | 7,321 | Maine |
| Miscellaneous special wastes | 21 | Maine |
| Mixed CDD | 167,418 | Maine |
| MSW Bypass | 7,326 | Maine |
| MSW incinerator ash ¹ | 57,435* | Maine |
| Municipal WWTP/POTW sludge | 40,243 | Maine |
| Non friable asbestos | 3,410 | Maine |
| Non-hazardous chemical related | 377 | Maine |
| Oil spill debris | 6,002 | Maine |
| Oversized bulky waste (MSW procsng.) | 150 | Maine |
| Pulp mill waste | 8,022 | Maine |
| Rock and soil drill cuttings | - | Maine |
| Sandblast grit | 143 | Maine |
| Short-paper fiber | 6,110* | Maine |
| Spoiled foods | 296 | Maine |
| Stumps ² | 34 | Maine |
| Sulfur Scrubbing Residues | 1 | |
| Sulfur slurry & sulfur filter media | - | Maine |
| Treated biomedical waste | 1,096 | Maine |
| Urban fill soil & debris | 9,555 | Maine |
| Wood from CDD ² | 891 | Maine |
| WWTP grit screenings | 389 | Maine |
| TOTAL TONS ³ | 606,254 | 500/: |

^{1.} Only approximately 50% of the MSW incinerator ash is used as ADC, the other 50% is mixed with sludge as a stabilizer.

^{2.} Stumps and Wood from CDD were received at the Juniper Ridge Landfill wood storage facility.

^{3.} Total does not include purchased materials: tire chips (1,670 tons). Monthly reports include this purchased material. Total derived from sum of higher significant digit numbers, not rounded whole numbers as provided in the above table.

^{*} Denotes materials used as alternative daily cover.

As seen in Table 3-1, the six predominant waste types received at the JRL facility during 2013 included construction and demolition debris, CDD processing residue wood fines, CDD processing residue bulky waste, MSW incinerator ash, front-end process residue, and municipal WWTP/POTW sludge. In compliance with JRL's permit condition, wastes going to the landfill were screened in advance in order to assure that no out-of-state wastes were accepted at the facility.

3.2 Estimates of Capacity Utilized During 2013 and Remaining Capacity

During 2013, wastes were primarily disposed of in Cells 7 & 8. The estimated net disposal capacity utilized during the calendar year (using aerial surveys of the entire landfill footprint which take settlement and consolidation over this entire footprint into account) was approximately 643,000 cubic yards. The estimated remaining permitted capacity at JRL as of December 31, 2013 was approximately 4,637,000 cubic yards. This remaining capacity is based upon the original permitted capacity (with MSE berms) minus total cubic yards consumed through 12/31/13. Note that this remaining capacity utilizes aerial photography through 10/30/13 and an estimated compaction rate of 0.89 for the remainder of November, and December 2013 waste totals. Since aerial photography is utilized, the capacity remaining does take into account capacity that has been gained due to settlement, compaction, and/or decomposition of the waste within the landfill up until the date of the October survey. Future settlement and compaction rates will vary.

3.3 Estimates of the Amount of Cover Material Placed

During calendar year 2013, approximately 8 acres of Cells 7 & 8 (predominantly sideslopes) were covered with a 40-mil geomembrane as an intermediate cover. Operational areas throughout the year received alternate daily cover (ADC). ADC is also used as a bedding layer on the waste sideslopes prior to placement of the intermediate cover. Materials approved as ADC include CDD processing residue wood fines, coal, oil & multi fuel boiler ash, contaminated soil & debris, lime mud and grit, MSW incinerator ash, and short-paper fiber. Total ADC usage amounted to 196,458 tons. Utilization of waste-related materials for daily cover and bedding for the intermediate cover obviated the use of a comparable amount of virgin soil material.

3.4 Summary of Changes to the Facility's Operations Manual

With the construction of Cell 8 in 2012, the facility operations manual was updated to include the new infrastructure and cell development plans. Additional sections were previously revised with the last published copy (May 2010) of the manual to address stormwater management, gas management, odor control, environmental and geotechnical monitoring, and leachate management. Changes were made to the environmental monitoring program as discussed in Section 5.0. These changes have been incorporated into an updated Environmental Monitoring Plan. This updated plan will be part of the revised operations manual to be issued in June of 2014. There were no changes made during 2013 other than the standard updates.

3.5 Proposed Changes to the Operations Manual or Other Aspects of the Landfill Operations

No cell construction took place during 2013. During 2014, operations at JRL will continue in cell 8 and also begin waste filling on the top of Cells 1 through 8 in order to complete the second elevation filling of the currently permitted and constructed cells. JRL staff previously submitted second elevation development plans to the MEDEP in March 2014. These plans will be added to the operations manual. There were stormwater improvements made during 2013. An updated site plan will be included in the revised operations manual which will be issued in June 2014.

During 2014, a permanent landfill gas hydrogen sulfide treatment system will be constructed at the site. A separate operations manual will be developed for this facility. A description of the system, site plans and specifications for the treatment building and pump station, 2014 Stormwater Management, Erosion and Sedimentation Control Plan, Landfill Gas Header Plans and Specifications, and Proposed Monitoring for Operation of the Thiopaq System were submitted to the MEDEP under a minor revision application submitted in February, 2014.

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

During 2013, the JRL facility did not experience any incidents relative to petroleum-related spills, fire, or leachate. There were three intermediate cover (SICM) incidents and one solid waste incident that occurred and are detailed chronologically below.

- 1/31/13 Intermediate Cover (SICM) Loss: JRL had two significant wind events
 within two weeks of each other. Both events lead to intermediate cover (SICM)
 damage and subsequent damage to external gas collection infrastructure in the
 immediate area (wellheads). During this first event, SICM was lost on the north
 side of Cells 1 and 2.
- 2/9/13 Intermediate Cover (SICM) Loss: During this second event, SICM was
 lost on the west side of Cell 1 and torn on the top of Cell 6. Repairs were made
 to restore the geomembrane and the affected landfill gas wells.
- 2/10/13 Intermediate Cover (SICM) Apparent Melting: During a storm event over the weekend of 2/9 and 2/10, a section of the geomembrane (10 ft x 20 ft) on Cell 7, appeared to have melted. There was no indication that a waste related fire had occurred, and waste (wood fines) under this section of geomembrane were unaffected and remained frozen. There was no soot, charring, or other evidence that combustion had occurred. JRL staff hypothesized that static electricity caused by movement of the geomembrane against the landfill surface during high winds, the dry air, and potentially, the landfill gas under the liner caused a heating (flash) event that melted the liner section. The MEDEP was notified of the issue and the affected geomembrane section was repaired.
 - NEWSME removed discolored soils exposed during the road and stormwater drainage ditch regrading in 2013. Soils were removed along the northwest perimeter of the landfill both in the access road sub-base gravels and in an area between the access road and the northern boundary of Cell 2. The discolored soils were likely remnants of waste materials that had been deposited on the access road during use of Cells 1 and 2 by the prior owner, likely by truck tire tracking. This material may have contributed to the water quality changes observed at the monitoring locations on the northwest side of the landfill. These materials were removed and placed in the landfill during the summer of 2013. NEWSME exposed the anchor trench on the northern side of Cell 2 to evaluate if leachate had overtopped the landfill liner in this area. No indication of overtopping was observed.
- 6/24/13 Contaminated Soil: JRL received three loads of material as CDD from the Pine Tree Waste Westbrook Transfer Station. All three loads contained

apparent soil material, with the second and third loads containing significant quantities and minimal CDD material. The environmental manager notified PTW to cease deliveries of this material until proper identification, characterization, and approval could be accomplished. Two additional trailers were subsequently delivered to JRL and were parked on-site and not unloaded until a determination of material source and type was made. The material was found to have originated from a third party contractor hauling CDD to the Transfer Station. It was determined that the contractor was excavating soil material and transporting it to the transfer station as CDD. Transport of the material to the Transfer Station was immediately ceased. A composite sample of both the material at JRL and the Transfer Station was taken. JRL and PTW MEDEP project managers were informed of the situation. A waste characterization protocol was followed and Gorham Sand & Gravel was issued a profile number. The material was characterized as Urban Fill Soil & Debris and was tracked through JRL's special waste program. The loads that were originally delivered to JRL were reclassified from CDD material to Urban Fill Soil & Debris.

3.7 Updated Cell Development Plans

No cell construction will occur in 2014. Cell development plans provided with the 2011 annual report pertaining to Cell 8 development will be utilized in 2014. Additionally, JRL staff plan to begin filling on the top of Cells 1 through 8 in order to complete the second elevation filling of the currently permitted and constructed cells. JRL staff previously submitted second elevation development plans to the MEDEP in March 2014. These plans will be added to the operations manual and may be found in Attachment D.

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

During 2013, JRL submitted monthly special waste activity reports to the MEDEP, to the Bureau of General Services, to the Landfill Advisory Committee, and to the City of Old Town. No non-permitted special wastes or hazardous wastes were received at JRL during 2013.

Consequently, no reports were required to be submitted pursuant to JRL's Hazardous and Special Waste Handling and Exclusion Plan.

3.9 Inspections and Testing

During calendar year 2013, JRL personnel performed routine inspections of the landfill and infrastructure as outlined in the facility's Operations Manual. Copies of weekly inspection reports may be found on file in the Environmental Manager's Office with summary quarterly inspection reports located in Attachment E of this Annual Report.

3.10 Description of System Failures and/or Repairs

During report year 2013, the following routine maintenance and/or repair functions were performed at the facility:

- Sections of the leachate collection piping within the landfill were high pressure cleaned to maintain proper drainage.
- One leachate pump was removed and replaced with a new unit. An actuator was also replaced on the leachate loadout system.
- Two of the blowers on the flare were replaced, one with a new unit and one with a rebuilt unit.
- 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 40-mil intermediate cover systems due to developing tears, rips, and holes from movement, settlement, or wind.
- Several landfill gas (LFG) wellheads were repaired throughout the year due to normal wear and tear.

4.0 FACILITY SITE CHANGES

During report year 2013, the following minor facility site changes not requiring Department approval occurred:

- Re-graded, mulched, and grassed portions of the embankment along the landfill
 paved access road to enable seasonal mowing, increase safety, and avoid
 overturning along the road should traffic inadvertently leave the roadway.
- Re-graded, mulched, and grassed the stockpile storage area behind the office building to include a vehicle parking area.
- Mowing, brush cutting, and other site maintenance and upkeep activities.

During 2014, the following minor facility site changes not requiring Department approval are proposed:

- Continued safety and visual improvement of the landfill paved access road.
- Installation of bin blocking for the JRL transfer station site to allow for cleaner placement of accepted material.

5.0 MONITORING

An annual water quality summary report is included as Attachment F of this report. Included with the summary report is the evaluation of the environmental monitoring data for the JRL site for report year 2013. During 2013, water quality samples were collected at the Juniper Ridge Landfill (JRL) in accordance with the Environmental Monitoring Program (EMP) during April, July, and October. Changes were made to the EMP as a result of Sevee & Maher Engineers, Inc. (SME) recommendations, as contained in the 2012 Annual Water Quality Report, to modify the EMP to align it with current site conditions and subsequent discussions with Maine Department of Environmental Protection (MEDEP). The changes included the addition and removal of monitoring locations and parameters of analysis. The majority of these changes were implemented beginning with the July sampling round. Based on the results of these data collection activities, the water quality at the Juniper Ridge Landfill site can be summarized as follows:

In 2013, groundwater monitoring wells do not show adverse impacts from the landfill or leachate transport and storage systems. Three of the monitoring wells (i.e., MW-302R, MW-223A, and MW-223B) located along the northwest perimeter of the landfill continued to show influence of site activities. As noted in the 2012 Annual Water Quality Report for the JRL, the water quality from those wells warranted further investigation, and it was interpreted that the location of site infrastructure relative to these wells (e.g., storm water runoff and detention) was contributing to the water quality changes at these locations. 2013 construction activities at the JRL included improvements to storm water runoff collection and treatment along the northwest perimeter of the landfill. The improvements included re-construction of Detention Pond #5 with a liner. Detention Pond #5 was also designed and constructed with phased treatment capabilities, including an initial phase sand filtration unit. Portions of the road and stormwater drainage ditches northwest of the landfill were re-graded and paved to optimize the collection of stormwater runoff for treatment along the northwest perimeter of the landfill.

During 2013 construction activities, an area was exposed along the northwest perimeter of the landfill that contained discolored soil outside of the lined portion of the landfill. This area was cleared of this material during the summer of 2013. The discolored soils were likely remnants of waste materials that had been deposited on the access road during use of Cells 1 and 2 by the prior owner, likely by truck tire tracking. SME believes that this may have been contributing to water quality changes observed at monitoring locations along the northwest perimeter of the landfill over the past several years. Also during the excavation of this soil, the Cell 2 anchor trench was exposed and there were no signs that leachate had overflowed the Cell 2 containment berm.

The corrective actions implemented along the northwest perimeter of the landfill and at stormwater Detention Pond #5 during 2013 were completed in the summer/fall of 2013. While water quality at MW-223A, MW-223B, and MW-302R during the October 2013 sampling event did not yet reflect any changes related to the corrective actions, improvements to water quality at these locations are anticipated and will be watched for during future sampling events.

During 2013, the remainder of the soil overburden and bedrock monitoring wells and the pore-water sampling locations either: (1) had water quality consistent with groundwater quality monitoring wells located upgradient from the landfill and outside of the area of influence from landfill construction activities; or (2) recorded parameter concentrations and trends that suggest that water quality at these locations is consistent with water quality at a site with various construction related activities associated with landfill cell construction. The latter are not interpreted to be indications of landfill leachate impacts to groundwater.

Samples from the landfill underdrains generally have low overall parameter
concentrations, indicating they are not influenced by landfill leachate and
verifying that the landfill liner systems are performing as designed. Similar to
monitoring wells located along the northwest perimeter of the landfill
underdrains for landfill cells located along the northwest perimeter of the landfill
(i.e., LF-UD-1 and LF-UD-2) have exhibited water quality changes, including

increased chloride concentrations during 2013. These water quality changes are believed to have been influenced by the above mentioned stormwater runoff and detention infrastructure located northwest of the landfill, and the discolored soil exposed during 2013 construction activities in an area along the northwest perimeter of the landfill outside of the lined portion of the landfill. Improvements to water quality at these locations are anticipated and will be watched for during future sampling events following the (1) clearing of the discolored soil, (2) the improvements made by re-grading and paving the roads and stormwater drainage ditches along the northwest perimeter of the landfill, and (3) reconstruction of Detention Pond #5 with a liner and sand filter unit.

At LF-UD-6, parameter values are generally higher than at other landfill underdrain monitoring locations. Sample collection from LF-UD-6 is unique from other sampling locations in that it is sampled from a stilling well in the underdrain line. It is suspected that recent higher parameter values, including chloride and specific conductance, may be due to constituents in the stilling well water becoming more concentrated over time due to settling and due to evaporation of water from the stilling well. This premise is supported by the lack of evidence of influence from LF-UD-6 on underdrain water quality at LF-UD-5 and 6, which is a combination of underdrain water from Cell 5 and Cell 6. Attempts will be made during 2014 to purge the stilling well with clean water, from which samples for LF-UD-6 are collected. The sampling results will be closely watched during 2014.

- Bromide was added to the monitoring program during 2013, beginning with the April 2013 monitoring event. Bromide concentrations were low site-wide during 2013, ranging from non-detect to low concentrations (i.e., up to 0.42 mg/L at MW12-303R) near to the laboratory detection limit of 0.1 mg/L.
- A supplementary addition to the 2013 monitoring program included sampling and analyses for dissolved methane at MW12-303R, MW-223A, MW-223B, MW-302R, and MW-304A in July 2013 and at MW-223B in October 2013.
 Dissolved methane was not detected at MW12-303R, MW-223A, MW-302R, and

MW-304A during July 2013. Dissolved methane sampling at monitoring well MW-223B during 2013 resulted in detections at low concentrations during the July (40.6 μ g/L) and October 2013 (9.2 μ g/L) sampling events. Given the location of this well adjacent to the large bog area associated with the unnamed tributary to Pushaw Stream, these low concentrations are interpreted to be related to natural sources.

Surface water downstream of the site along the unnamed tributary to Pushaw
 Stream appears to be unaffected by the landfill operations, with SW-1 and SW-3
 having similar parameter concentrations as upstream location SW-2.
 Additionally, the 2013 samples from the SW-DP1, SW-DP5, and SW-DP6 do not show adverse impacts from the landfill.

A summary of landfill gas monitoring is provided in Attachment G. This routine landfill gas (LFG) monitoring took place at various on-site gas management locations with results being submitted via electronic deliverable document to the MEDEP as required. Based on the results of these data collection activities, the landfill gas monitoring at the Juniper Ridge Landfill site can be summarized as follows:

- The 2013 monitoring data associated with the landfill gas collection and treatment system indicates that the system is operating in accordance with the facility's operating manual. During the course of the year, 18 new wells and trenches were installed. These included 11 gas collection trenches and 7 vertical wells. Also, 2 gas collection trenches, 1 vertical well, and 1 condensate trap were discontinued during 2013.
- Overall, average monthly CH₄ concentrations slightly decreased from 2012, remaining within the target range of 40-45% five out of the twelve months and averaging 39.0% for 2013, a decrease of 1.6% from 2012. O₂ concentrations remained low from May to November in 2013, with January, February, March, April and December averaging above 1%. The annual average O₂ concentration in 2013 was 1.3% at the landfill gas combustion flare, a slight increase from the 2012 average of 0.7%.

• The total flow of landfill gas at the JRL flare remained largely unchanged from 2012, with a slight decrease in total flow of 3.79%. When comparing the last two years, 2013 month-to-month flow rates from January to the start of August were less than the flow rates recorded in 2012 until mid-August, where the 2013 flow rates surpassed the flow rates in 2012. The total flow during 2013 of 963 million standard cubic feet (MMSCF), less than 2012's total flow of 1001 MMSCF. The total energy generated by CH₄ combustion at the JRL flare in 2013 was 7.98% less than 2012 levels with a total heat content of 374,139 MMBTUs in 2013.

During 2013, JRL continued monitoring odor on-site and off-site. In accordance with the JRL operations manual, two types of air monitoring activities occurred on site during 2013; (1) hydrogen sulfide H_2S monitoring with stationary continuous monitors and, (2) quarterly methane (CH₄) emission surface scans on the landfill intermediate cover. Additionally, odor complaints from the 24-hour JRL odor complaint hotline provide an opportunity to evaluate the effectiveness of odor control measures at the JRL. Stationary H_2S monitors are currently positioned at four locations surrounding the JRL. Data obtained from monitors located on the Access Road, at West Coiley Road, at Fort James House, and on the Stagecoach Road continue to be submitted to the MEDEP on a routine basis. A summary of air monitoring completed with the use of stationary H_2S monitors is provided in Attachment H. Based on the results of these data collection activities, the odor monitoring at the Juniper Ridge Landfill site can be summarized as follows:

• Overall, average monthly and annual H₂S concentrations remained low at the SPM's located around the landfill. A decrease in quantifiable readings (4 ppb or above) from 2012 to 2013 of 10% was observed, while an increase of 15% in detectable readings (2 ppb or above) occurred. Both the Stage Coach Road and the West Coiley Road SPMs show an increase in quantifiable readings, while the Access Road and Fort James SPMs show a decrease in quantifiable readings in 2013. The Access Road, Fort James, and West Coiley Road SPMs all show an increase in detectable readings, while the Stage Coach Road SPM showed a small decrease in detectable readings in 2013. Overall, quantifiable readings slightly decreased, and detectable readings slightly increased during 2013.

- Odor-related complaints in 2013 increased from the previous year with a total of eleven odor related complaints occurring during 2013 compared to seven in 2012. Of these complaints, three complaints during 2013 were confirmed as likely coming from the landfill as opposed to only one confirmed in 2012.
- Surface scan CH₄ emission results increased from 2012 to 2013 with a total of sixteen readings above 500 ppm found during 2013 during four surface scans, compared with six above that level detected in 2012 during three surface scans. The average concentration of these readings increased from 999 ppm in 2012 to 1393 ppm in 2013. Readings above 500 ppm are infrequent and continue to occur primarily around penetrations in the intermediate cover system for the gas extraction piping and are fixed upon identification. Damage to cover boots for the gas extraction piping due to landfill consolidation and settlement continue are the primary cause of readings above 500 ppm. These damages are repaired as soon as practical.

During 2013, JRL continued to monitor site settlement and stability as in the past with the assistance of Dr. Richard Wardwell. Geotechnical monitoring of the JRL was performed to verify that the field behavior of the facility is consistent with design analyses. This program was modified in 2008 and 2010 to emphasize field observations of landfill activities in assuring consistency with the Operations Manual, and that there were no indications of potential slope instabilities or excessive settlements that might impact the performance of the facility. These modifications were made to address logistic conflicts with cell development and in recognition that the need for electronic waste settlement measurements and surveys of slope movements diminished as the waste elevation of the instrumented area approached its final grade without any discernible deformations. The 2013 Geotechnical Monitoring Inspection may be found in Attachment I of this report.

In accordance with the current GMP (REW 2007b), the routine observations made during landfill operations were supplemented with the annual geotechnical inspection performed on October 14, 2013 and an aerial topographic survey of the facility made on October 30, 2013. The resulting checklist and photographic record from the site visit, included in the Appendices, documents observations that the landfill is performing as anticipated with no excessive deformations, slope movements, unexplained ponded water, or leachate breakouts. Specific site

observations made of the northern slope of Cells 1 & 2 (an area of the landfill underlain with waste-stabilized sludge) indicate that this critical portion of the landfill is performing as anticipated during design.

6.0 FINANCIAL ASSURANCE

The closure and post-closure costs have been recalculated to reflect those cells, as of the end of calendar year 2013, that have 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 separate cover.

ATTACHMENT A Updated Site Plan



- 1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO INC., NORRIDGEWOCK, MAINE. PHOTO DATE 10/30/13. VERTICAL DATUM: BRASS PLUG AT PUMP STATION. HORIZONTAL DATUM: MAINE STATE COORDINATES EAST ZONE NAD 83. GROUND CONTROL BY PLISGA & DAY LAND SURVEYORS, BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION
- 2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES INCLUDING ELECTRICAL AND PIPING BASED ON FIELD SURVEY DURING CONSTRUCTION OF PREVIOUS CELLS AND LEACHATE POND. CONTRACTOR SHOULD FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS. EXISTING TOPOGRAPHY SHOWN ON THE DRAWINGS REPRESENT GRADES AT THE TIME OF THE SURVEY. CONTRACTOR SHOULD FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 4. WETLAND BOUNDARIES AS INDICATED IN WETLAND DELINEATION AND CHARACTERIZATION REPORT FOR NEWSME LANDFILL OPERATIONS, LLC, JUNIPER RIDGE LANDFILL PROJECT SITE IN OLD TOWN, MAINE BY STANTEC (WOODLOT ALTERNATIVES, INC) IN NOVEMBER 2004.
- 5. WETLAND BOUNDARY DELINEATED BY STANTEC CONSULTING SERVICES, INC IN JANUARY, 2012.
- 6. BORINGS & TEST PIT LOCATIONS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE.

SITE BENCHMARK INFORMATION

100 0 200 400 FE

JUNIPER RIDGE LANDFILL OLD TOWN, MAINE

SITE PLAN
CALENDAR YEAR 2013



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

ATTACHMENT B Compliance Self Audit

JUNIPER RIDGE LANDFILL COMPLIANCE SELF-AUDIT EVALUATION REPORT YEAR 2013

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 |
|-------------------------|------------------------|
| Location | Old Town, Maine |
| Audit for Calendar Year | 2013 |
| Compliance Auditor | Jeremy M Labbe |
| Title | Environmental Manager |
| Signature of Auditor | M Me |

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 the various permits held by the facility. MEDEP licensed conditions are entered onto 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.

- MEDEP approval of JRL's Operations Manual
- Amendment Application to Accept Municipal Solid Waste from Maine Sources
- JRL Landfill Gas Treatment Minor Revision

4. Date of payment of MEDEP Annual License Fee.

The 2013 annual license fee in the amount of \$12,805 was paid on July 9, 2013.

- 5. Date of submittal of previous MEDEP Annual Report & Fee.
- MEDEP 2012 annual report was submitted on April 24, 2013.
- MEDEP 2012 annual report fee of \$3,296 was submitted on February 28, 2013.

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.

The Operations Manual was last formally updated in May 2010. New cell development plans are placed in the manual each year as the landfill adds new infrastructure and cells. The Operations Manual is currently under revision and will be issued by July 2014.

10. MEDEP approval date of last updated Operations Manual.

The facility has not received formal MEDEP approval of its Operations Manual.

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 Bangor & Augusta Offices of the MDEP
- 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 DECD

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

During 2013, 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 in the Hampden, Maine company office.

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 locked 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, updated cell development plans through cell #8, constructed in 2012, have been submitted as required. Second elevation development plans for cells 1-8 have also been submitted in February 2014. No cell construction will occur in 2014.

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 predetermined 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. The LFG Operations & Maintenance Manual was updated in March 2010. The Landfill Gas Management Plan for future Cell 8 was submitted with the Cell 8 construction documentation submitted on March 8, 2012. The Landfill Gas Management Plan for second elevation filling over cells 1-8 was submitted with the Second Elevation development plan in February 2014.

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. No elevated levels of methane were detected in 2013 in non-LFG collection infrastructure in 2013.

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 predetermined 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. The EMP was revised in April 2010.

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 C Annual Solid Waste Management Report

INSTRUCTIONS for completing the ANNUAL SOLID WASTE MANAGEMENT REPORT for Licensed Transfer Stations and Landfills

Licensed transfer stations and landfills must complete and submit this reporting form to Maine DEP to meet the annual reporting requirement in accordance with 38 MRSA §1310-N.6.D. Facilities may also use this form to meet the municipal solid waste management/recycling reporting requirement (38 MRSA §2133.7) of the municipalities served by the facility. The form is available on line

at: http://www.maine.gov/dep/waste/solidwaste/documents/comb_ann_rprt.pdf. You can complete the form either on a computer or by hand. The completed form must be copied and mailed to the DEP.

This form has 5 sections:

Section 1 - Summary of Waste Handling: This section must be completed by all transfer stations and landfills.

Section 2 – Municipal Solid Waste Program Information and Section 3 – Municipal Solid Waste Recycling Rate: These sections must be completed by facilities that are also completing the annual solid waste management/recycling reporting requirement on behalf of municipalities.

Section 4 – Additional Reporting Requirements for Licensed Transfer Stations: This section must be completed by all transfer stations.

Section 5 – Additional Reporting Requirements for Licensed Landfills — Landfills must complete the "Landfill Capacity Summary" table in this section, and attach information to address all other listed reporting requirements.

General instructions for completing the form:

To use a computer to complete the form, save a copy of the form from the internet onto your computer. Also download Adobe Acrobat Reader from http://get.adobe.com/reader if you don't already have it. On your saved copy you can then place your cursor in, or tab to, the space after each item to activate the fill-in field. You can save, close and re-open the form so you do not need to complete it at one sitting. If you have questions on how to download and complete this form electronically, please call Sue Alderson at 207-287-2806.

To ensure accurate and complete reporting, please be sure your facility manager is involved in preparing and/or reviewing this report.

All data should be for calendar year 2013 (January 1 - December 31). Report all data in tons unless otherwise indicated. If weight data is not available to you, please use Appendix A to convert volumes to tons. If you cannot report in tons, tell us the volume or number <u>and</u> the unit of measure, e.g., cubic yards, pieces.

After completing the form, please print and make enough copies to save one for your records and to submit the appropriate number to DEP (noted below).

-

¹ Please refer to 38 MRSA Chapter 24, Section 2133, paragraph 7 for the annual reporting requirement for municipalities, and 38 MRSA, Section 1310-N, sub-§6-D for the annual reporting requirement for licensed solid waste facilities.

INSTRUCTIONS for completing the ANNUAL SOLID WASTE MANAGEMENT REPORT for Licensed Transfer Stations and Landfills

Assistance with Report

For assistance please contact your DEP project manager at:

Southern Maine Regional Office – 207-822-6300 or 888-769-1036 Eric Hamlin (eric.p.hamlin@maine.gov), Randy McMullin (randy.l.mcmullin@maine.gov)

Central Maine Regional Office - 207-287-7688 or 800-452-1942 Mike Parker (<u>michael.t.parker@maine.gov</u>), Linda Butler (<u>linda.j.butler@maine.gov</u>), Bill Butler (<u>william.w.butler@maine.gov</u>),

Eastern Maine Regional Office – 207-941-4570 or 888-769-1137 Cyndi Darling (cyndi.w.darling@maine.gov), Karen Knuuti (karen.knuuti@maine.gov)

Northern Maine Regional Office – 207-941-4563 or 207-540-6467 Lou Pizzuti (lou.s.pizzuti@maine.gov)

Submit your report and fee (if any) by April 30, 2014

Owners/operators of transfer stations, please submit two (2) copies, landfills submit three (3) copies, of your completed report to:

Vicky Bryant, Maine Dept. of Environmental Protection 17 State House Station Augusta, Maine 04333-0017

Please send your annual report fee payment (if applicable) with the payment stub from the invoice mailed to you to:

Natural Resources Service Center 155 State House Station Augusta, ME 04333

If you have questions on your annual report fee invoice or payment, please contact Vicky Bryant at 207-287-7865 or vicky.bryant@maine.gov.

Appendix A – Conversion factors for the ANNUAL SOLID WASTE MANAGEMENT REPORT for Municipalities and DEP-licensed Transfer Stations and Landfills

FACTORS FOR CONVERTING VOLUME TO WEIGHT OF VARIOUS MATERIALS, TO BE USED FOR ESTIMATING MUNICIPAL SOLID WASTE TONNAGES

Use these numbers to calculate and report the tonnage of recycled material if actual weight data is not available.

PAPER

Uncompacted office paper 1 cubic yard = 0.20 tons. Uncompacted mixed paper 1 cubic yard = 0.15 tons

CORRUGATED CARDBOARD (OCC)

Uncompacted, flattened
1 cubic yard = 0.10 tons Baled
- 1 cubic yard = 0.5 tons

METALS and CANS

Aluminum cans - whole:
1 cubic yard = 0.035 tons
Aluminum cans - manually flattened:
1 cubic yard = 0.125 tons
Ferrous cans - whole
1 cubic yard = 0.075 tons
Ferrous cans - Flattened

1 cubic yard = 0.425 tons.

Scrap metal

1 cubic yard = 0.113 tons

NEWSPAPER

Loose (no strings or bags) 1 cubic yard = 0.30 tons

GLASS

Loose (whole bottles)
1 cubic yard = 0.30 tons
55 gallon drum = 0.088 tons
Semi-crushed (manually broken)
1 cubic yard = 0.50 tons
55 gallon drum = 0.15 tons

Crushed, maximum size, 1 1/2" (mechanically broken)

1 cubic yard = 0.90 tons 55 gallon drum = 0.275 tons

MAJOR APPLIANCES:

1 unit = 0.075 tons (average weight)

PLASTIC

Mixed plastics - #3 - #7

1 cubic yard = 0.025 tons

PETE/PET (#1) (whole, uncrushed)

1 cubic yard = 0.02 tons.

HDPE (#2) (whole, uncrushed)

1 cubic yard = 0.015 tons

LDPE (#4) - Plastic film

Baled 30"x42"x48" = 0.55 tons

ORGANIC MATERIALS

Leaves (uncomposted & uncompacted)

1 cubic yards = 0.075 tons

Leaves (uncomposted & compacted)

1 cubic yard = 0.225 tons

Leaves (uncomposted & vacuumed)

1 cubic yard = 0.175 tons

Leaves (composted)

1 cubic yard = 0.250 tons

Wood Chips

1 cubic yard = 0.313 tons

Grass Clippings

1 cubic yard = 0.20 tons

Trees & Brush

1 cubic yard = 0.15 tons

Food Scraps (mixed)

OTHER MATERIALS

1 cubic yard = 0.535 tons

Demolition Debris
1 cubic yard = 0.625 tons
Mattress
1 mattress = 0.0275 tons
Mixed Bulky Waste
1 cubic yard = 0.20 tons
Wood Pallets
1 pallet = 0.020 tons
Wood Waste
1 cubic yard = 0.175 tons

ANNUAL SOLID WASTE MANAGEMENT REPORT for Licensed TRANSFER STATIONS AND LANDFILLS

| FACILITY NAME: Juniper Ridge Landfill | Report Year: 2013 |
|---|---------------------------------------|
| (Operated by NEWSME, Landfi | 11 Operations, LLC) |
| DEP LICENSE NUMBER S-020700-WD-N-A | |
| This report includes information on MSW handling and dispo- N/A | sal for the following municipalities: |
| This report includes information on RECYCLING for the follow N/A | ving municipalities: |
| CONTACT PERSON: Jeremy Labbe | Title: Environmental Manager |
| Mailing Address: 358 Emerson Mill Road | |
| City/Town: Hampden | Zip Code: 04444 |
| Phone: 207-862-4200 x. 233 | E-mail: jeremy.labbe@casella.com |
| Facility web site address: casella.com | |
| FRANSFER STATION or LANDFILL MANAGER: Wayne Mailing Address: 358 Emerson Mill Road City/Town: Hampden | Zip Code: 04444 |
| Phone: 207-862-4200 x. 224 | E-mail: wayne.boyd@casella.com |
| ione: | D man. |
| RECYCLING COORDINATOR (if different): N/A Mailing Address: | |
| Mailing Address: | Zip Code: |
| • | Zip Code: |

<u>Please return two (2) copies of your completed form (3 copies for landfill reports) with the required annual report fee (if any) by April 30, 2014 to:</u>

Vicky Bryant Maine Dept. of Environmental Protection 17 State House Station Augusta, Maine 04333-0017

| Report for: | Date: |
|-------------|-------|
|-------------|-------|

SECTION 1 SUMMARY OF WASTE HANDLING

A. Summary of waste disposed – In this table, enter only waste materials sent for **disposal** to a landfill or municipal waste-to-energy incinerator. Include materials approved as alternative daily cover. If you receive a waste type from multiple states, enter the amount from each state on a separate line.

TABLE 1 – MATERIALS DISPOSED

| Waste Type | Origin by state or province | TONS shipped for disposal/disposed of | Disposal facility name (Landfill or WTE incinerator) |
|--|-----------------------------------|---|--|
| MSW | province | uisposal/uisposcu oi | |
| WISW | | | |
| | | | |
| | | | |
| Mixed CDD (unprocessed) (may include building materials, furniture & carpet, asphalt, wallboard, pipes, metal conduit, etc.) | Plea | ase reference l | ast page attachment. |
| CDD processing residue | | | |
| FEPR | | | |
| MSW bypass | | | |
| MSW incinerator ash | | | |
| Leaf & yard waste | | | |
| Land clearing debris | | | |
| Burn pile ash and/or hot loads area ash | | | |
| Aggregate (includes concrete, bricks, porcelain & incidental rocks/soil/sand) | | | |
| Coal, oil, & multi-fuel boiler ash | | | |
| Municipal WWTP/POTW sludge | | | |
| Industrial WWTP sludge | | | |
| Catch basin grit & street sweepings | | | |
| Oil-contaminated soil | | | |
| Alternate daily cover -list material type: | | | |
| Alternate daily cover -list material type: | | | |
| Other (list) | | | |
| | | | |
| | | | |
| Total disposed | | | |

Comments:

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Report for: Date:

B. Summary of waste recycled. In this table, enter only those materials sent for **recycling**. Use the waste type that best describes the material stream. Leave blank or enter "0" for any waste types you do not ship. **Do not include data twice** (for example, enter either single stream or the separate recyclable types unless residents and businesses used both single stream and source-separated collection systems to manage recyclables).

TABLE 2 – MATERIALS RECYCLED

| Waste Type | Origin by state or province | TONS shipped | Destination(s) (may list broker) |
|---|-----------------------------|-----------------|----------------------------------|
| Single Stream /Zero-sort®/Single sort | | | |
| Dual sort co-mingled containers | | | |
| Dual sort co-mingled paper & Corrugated cardboard (OCC) | | | |
| Paper (office & mixed) | | | |
| Corrugated cardboard (OCC) | | | |
| Newspapers and magazines | | | |
| Glass | | | |
| Metals (include aluminum cans/foil, steel cans) | | | |
| Plastics (Include #1 - #7, rigid plastics and plastic films) | | | |
| Clothing/textiles | | | |
| Appliances & other scrap metal | | | |
| Construction/demolition debris (include asphalt shingles, sheetrock/ wallboard, furniture, mattresses, carpet) | | | |
| Tires | | | |
| Vehicle batteries | | | |
| Other (describe): | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Total Recycled | | | |

Comments:

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| Report for: | | | | Date: | | |
|-------------|---|----------|-----------------------------|-----------------------|---|--|
| C. S | Summary of wastes sent for p | rocessi | ing or proce | essed on site | ☐ Check if not applicable | |
| | Т | CABLI | E 3 – MATE | CRIALS PROC | ESSED | |
| | Waste Type | | Origin by state or province | TONS shipped | Processing facility/destination | |
| | Mixed CDD (unprocessed) (minclude building materials, furniture carpet, asphalt, wallboard, pipes, miconduit, etc.) | e & | | | | |
| | Wood from CDD | | | | | |
| | Land clearing debris | | | | | |
| | Aggregate (includes concrete bricks, porcelain & incidental rocks/soil/sand) | | | | | |
| | Oil-contaminated soil | | | | | |
| | Other: | | | | | |
| | | | | | | |
| | Total proc | essed | | | | |
| (n | ummary of waste composted Check this box if you have subraumber: participating municipalities: | nitted a | a separate ar | - | Check if not applicable composting, and enter your facility lice ants are: actual -or- estimate | |
| Com | post site location: | ADLE | 4 MATE | DIALS COMP | OCTED | |
| | Waste Type | | <u>4 – MATE</u> Olume | RIALS COMP Weight* | Broker/End-Users | |
| | | re | eceived oic yards) | received (tons) | DI ORCI/EHU-USCIS | |
| | Vegetative (leaf & yard) | | | | | |
| | Food Waste | | | | 」 | |
| | Other Organics (describe): | | | | | |

*To calculate the weight of vegetative waste, multiply volume by 0.225. To calculate weight of food scraps, multiply volume by 0.85. Contact Sue Alderson (susan.a.alderson@maine.gov, 207-287-2806) for

conversion factors for other waste types.

Page 4 of 12 Revised 1/2014

| Report for: | | Date: | | |
|---|---|-----------------------|--------------------------|------------------------|
| | nandling - Note "Y" or "N" to indicate whether you accept each of the Universal Waste d the consolidator or other destination (e.g., Veolia, TRC, Call2Recycle). | | | |
| This facility accepts Uni | iversal Wastes from: | (check all that apply | /) | |
| Households 1 | Businesses | Municipal building | gs/schools | N/A (Direct elsewhere) |
| If you do not accept Unideliver these products? | versal Wastes at you | r facility, where do | you direct your resident | ts and businesses to |
| Waste Type | Do you collect this waste type? (Y/N) | Conso | olidator(s) or other des | stination |
| Electronics | | | | |
| Mercury-added lamps, including CFLs Mercury thermostats | | | | |
| Other mercury devices | | | | |
| Rechargeable batteries and cell phones | | | | |
| Intact Ballasts | | | | |
| Other: | | | | |
| Other: | | | | |
| F. Waste Oil Managen | nent: | | Check if not app | licable |
| | y licensed transporte | r | | |
| Gallons burned on Gallons burned off | | | | |
| | | | | |
| Name of transpo | rter. | | | |
| E. Household Hazardo | ous Waste Collectio | n | | |
| List municipaliti | es that provide for He | ousehold Hazardous | Waste collection | |

Facility or hosting organization

Frequency of collection

F. Reuse: Check if not applicable

Please describe any reuse opportunities for 'items salvaged' that you provide through a 'Swap shop/bargain barn' or 'casual program'.

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| Re | port for: Date: | | | | | |
|----|--|------|--|--|--|--|
| SI | SECTION 2 - MUNICIPAL SOLID WASTE PROGRAM INFORMATION | | | | | |
| A. | Municipal Solid Waste (MSW) Collection Practices | | | | | |
| 1. | Complete all that apply to municipalities served by this facility: | | | | | |
| | List the municipalities that provide curbside trash pickup by municipal employees: | | | | | |
| | List the municipalities that contract with private haulers for curbside trash pickup: | | | | | |
| | List the municipalities in which residents contract for curbside trash pick up by private haulers: | | | | | |
| 2. | List the names of haulers utilizing your facility and the municipalities served by them: | | | | | |
| В. | How are trash disposal costs paid? – Complete all that apply to municipalities served by this facility: List the municipalities that pay for disposal of residential trash with tax monies or other general rever | nue: | | | | |
| | List the municipalities in which residents pay for trash disposal through a "Pay as You Throw" progr The price per bag is | am: | | | | |
| | List the municipalities in which residents pay for disposal of trash through private contracts with hau or through a tipping fee at the receiving facility: | lers | | | | |
| | List the municipalities that pay for disposal of residential construction/demolition debris with tax mo or other general revenues: | nies | | | | |
| | List the municipalities in which residents pay for disposal of construction/demolition debris through private contracts with haulers or through a tipping fee at the receiving facility: | | | | | |
| | List the municipalities that pay for disposal of commercial trash with tax monies or other general revenue | | | | | |

Report for: Date:

List the municipalities in which businesses pay for commercial trash disposal: through a "Pay as You Throw" program

through private contracts

List the municipalities that pay for disposal of commercial construction/demolition debris with tax monies or other general revenue:

List the municipalities in which businesses pay for disposal of construction/demolition debris through private contracts with haulers or through a tipping fee at the receiving facility:

C. Recycling Collection Practices

1. Complete all that apply to municipalities served by this facility:

List the municipalities that provide curbside collection of recyclables by municipal employees:

List the municipalities that contract for curbside collection of recyclables by private hauler(s):

List the municipalities in which residents contract with private haulers to provide curbside collection of recyclables:

- 2. List the names of haulers and the municipalities in which they collect recyclables:
- **D. Solid Waste and Recycling Ordinances/Requirements** Complete all that apply to municipalities served by this facility:

List the municipalities that have mandatory recycling:

List the municipalities that require trash haulers to register with the municipality or your facility:

List the municipalities that require recyclables to be taken to a specific transfer station, recycling center, or processing facility and the facility names:

List municipalities that ban specific items from disposal by municipal ordinance and the items that are banned:

List the municipalities that have any additional solid waste and recycling ordinances, and a brief description of these other ordinances, such as "Pay as You Throw / Pay-per-bag":

Page 7 of 12 Revised 1/2014

| Report for: | Date: |
|--|--|
| SECTION 3. MUNICIPAL SOLID WASTE R | ECYCLING RATE |
| municipal recycling rate in accordance with the prov formula provides a basis for tracking municipal prog | solid waste generated each year. Municipalities are hat goal. This section provides a formula for calculating a isions of 38 MRS § 2132 and §2133. Consistent use of this ress on recycling over time. If this licensed facility serves ecycling rate by municipality or an overall recycling rate for |
| Calculating recycling rates | |
| To calculate a base recycling rate, use the following: | steps. Be sure all amounts in your calculations are |

measured in tons

Step 1. Divide (tons recycled + tons composted) by (tons disposed + tons recycled + tons processed + tons composted). Use the totals from Tables 1, 2, 3 and 4 in this calculation. Show calculation here:

Step 2. Add 0.07 to the result of Step 1. (This factor is added to account for the recycling of tires, vehicle batteries, rechargeable batteries, electronics, and beverage containers handled by Maine's bottle bill program.) Show calculation here:

Step 3. Multiply the result of Step 2 by 100. The result is the percentage of municipal solid waste recycled.

Adjusted municipal recycling rate:

Wastes sent to processing facilities may be used to create materials that are recycled or utilized as fuel. To calculate an adjusted municipal recycling rate, the municipality may contact the Maine DEP to obtain factors by processor (as available) to apply to the amounts of materials noted in Table 3 as sent for processing to determine the amount of the municipality's materials recycled. These amounts then can be added to the numerator of the initial recycling rate calculation to calculate a more robust municipal recycling rate.

For waste processing adjustment factors, contact Sue Alderson at 207-287-2806 or susan.a.alderson@maine.gov.

RECYCLING RATES: If this report includes data for more than one municipality, list a recycling rate for the entire region or recycling rates by municipality: The rates reported here are base - oradjusted (check one).

| Municipality or All | Recycling Rate | Municipality | Recycling Rate |
|---------------------|----------------|--------------|----------------|
| | | | |
| | | | _ |
| | | | _ |
| | | | |
| | | | |

If reporting adjusted recycling rates, submit calculations with report to Maine DEP.

Revised 1/2014 Page 8 of 12

| Re | eport for: Date: |
|-----|--|
| Se | ection 4 - Additional Reporting Requirements for Licensed Transfer Stations |
| 1. | Provide a summary of factors which affected the operation, design, and/or environmental monitoring program. |
| 2. | Operations |
| | A. Submit copies of reports prepared in accordance with the transfer station or storage facility's Hazardous and Special Waste Handling and Exclusion Plan. |
| | B. Report on deviations from approved operations manual and proposed changes in operations and/or operations manual. |
| Pa | st Year Deviations |
| Pro | oposed Changes |
| 3. | Summary of staff training provided on operation or maintenance of the transfer station. |
| 4. | Summary of all spills, fires and/or accidents on-site. |
| Sp | oills: |
| Fi | res: |
| Ac | ecidents: |
| 5. | Provide verification of 2 feet till soil between waste, and seasonal high water and bedrock if one or more base pads for storage of non-containerized waste is used. |
| | |

| Re | eport for: | Date: |
|----|---|------------------------------|
| 6. | Design | |
| | If any aspect of design was changed, please submit as-built plans and a narrative design changes for current year may be described). | e on these changes (proposed |
| 7. | Monitoring (if facility has a monitoring plan). Evaluation of past year's monitoring results, monitoring program and equipment may be submitted. Attach additional sheets or provide a separate attachment if a | |
| Mo | onitoring Results | |
| Мо | onitoring Program | |
| Eq | uipment | |
| | Recommended Changes for transfer station (if any). Attach additional sheets achment if additional space is needed. | or provide a separate |
| | Comments: Please describe any recent improvements in your solid waste and reure plans or concerns for your program. | ecycling program. Include |

Report for: Date:

SECTION 5. Additional Reporting Requirements for Licensed Landfills

Landfill Capacity Summary. Enter capacity measurements in cubic yards.

| Item | Amount | Unit |
|---|--------|------|
| Landfill capacity used by daily cover – this year | | |
| Landfill Capacity used by waste - this year | | |
| Total landfill capacity used – this year | | |
| Total landfill capacity used | | |
| Constructed landfill capacity remaining | | |
| Total licensed landfill capacity remaining, including to-be-constructed | | |

NOTE: If reporting in tons, please provide the latest 'in place weight/volume' calculation so that the remaining airspace in cubic yards may be determined.

Pursuant to 38 MRSA §1310-N(6-D), an annual report and fee shall be submitted by the landfill operator to the Department for review and approval. The annual reporting requirements for landfills are as follows (as listed in Chapter 401, section 4.D of the *Solid Waste Management Regulations*:

- (1) General. The annual report must include:
 - (a) A summary of activity at the landfill during the past year. This shall include a narrative describing any factors, either at the landfill, or elsewhere, that affected the operation, design or monitoring programs of the landfill.
 - See 2013 Juniper Ridge Landfill Annual Report, Section 2.1
 - (b) An evaluation of the landfill's operations to verify compliance with the approved operations manual, licenses, and regulatory requirements. This evaluation shall be performed either by qualified facility personnel or a qualified consultant.
 - See 2013 Juniper Ridge Landfill Annual Report, Section 2.2
- (2) Operations. As part of the annual report, the following operational information is required.
 - (a) A summary of the type, quantity, and origin of waste received (reference tables in Section 1); See 2013 Juniper Ridge Landfill Annual Report, Section 3.1 & Table 3-1
 - (b) Estimates of the capacity of the landfill used during the past year and of the landfill's remaining capacity (reference tables in Section 1;
 - See 2013 Juniper Ridge Landfill Annual Report, Section 3.2
 - (c) A description and estimate of the amount of cover material used in the past year (reference tables in Section 1);See 2013 Juniper Ridge Landfill Annual Report, Section 3.3
 - (d) A summary of changes in the operations manual during the past year as submitted pursuant to section 4.A(2);

 See 2013 Juniper Ridge Landfill Annual Report, Section 3.4
 - (e) Proposed changes to the operations manual or other aspect of the landfill's operations; See 2013 Juniper Ridge Landfill Annual Report, Section 3.5
 - (f) A summary of responses to spills, fires, accidents, and unusual events that occurred at the landfill in the past year;
 - See 2013 Juniper Ridge Landfill Annual Report, Section 3.6
 - (g) Updated cell development plans, highlighting any changes to the approved plans and including detailed plans for the subsequent two year period. Approved plans need to be updated whenever variabilities in waste disposal rates and other operational factors cause development to vary more than 6 months from projected timelines. Detailed plans must include a narrative and drawings that address: layout of the cells, projected grades, location and timing of intermediate and/or final

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Report for: Date:

> cover, location and construction of cell access, any relevant aspects of leachate and stormwater management measures, any relevant aspects of erosion and sedimentation control measures, and other pertinent facility-specific features.

See 2013 Juniper Ridge Landfill Annual Report, Section 3.7

- (h) Copies of reports prepared in accordance with the landfill's Hazardous and Special Waste Handling and Exclusion Plan;
 - See 2013 Juniper Ridge Landfill Annual Report, Section 3.8
- (i) A report on the results from the inspections and testing required by section 4.C(12), including a report stating the date and findings associated with the annual inspection and cleaning, if necessary, of the leachate collection, detection, and transport systems; and See 2013 Juniper Ridge Landfill Annual Report, Section 3.9
- (i) A description of system failures and documentation of repair measures to those systems. See 2013 Juniper Ridge Landfill Annual Report, Section 3.10
- (3) Facility Site Changes. The annual report must document minor changes to the facility site not requiring departmental approval that have occurred during the reporting year. Also, minor aspects of the facility site proposed to be changed in the current year may be described in the annual report. Changes handled in this manner are those that do not require licensing under minor revision or amendment provisions of Chapter 400.

See 2013 Juniper Ridge Landfill Annual Report, Section 4.0

(4) Monitoring. The following monitoring information must be included in the annual report. If any of this information is submitted with the facility's periodic monitoring reports, only a summary of that information is required in the annual report. Evaluations must be done in accordance with all approved monitoring plans for the landfill.

See 2013 Juniper Ridge Landfill Annual Report, Section 5.0

- (a) An evaluation of data gathered for each surface water and ground water monitoring point for the landfill, including a statistical analysis of the data where appropriate. See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments) (b) An evaluation of the quantity and quality of leachate generated by the landfill during the past
- year, including a comparison of the past year's leachate monitoring results to previous years'

results.
See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)

(c) An evaluation of the quantity and quality of liquid found in the leak detection and removal system during the past year, including a comparison of the past year's results to the previous

See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)

(d) An evaluation of the gas monitoring results for the past year, including a comparison of the past

- year's results to the previous years' results. See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)
- (e) An evaluation of the air monitoring results for the past year, including a comparison of the past year's results to the previous years' results.

See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)

(f) An evaluation of the condition of each monitoring well.

See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)

- (g) Any changes to any aspect of the approved monitoring programs proposed in response to the changes in operation or design of the landfill, or environmental effects attributable to the landfill or its ancillary structures.
 See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)
- (h) An evaluation of the stability and settlement monitoring data collected at each monitoring point. See 2013 Juniper Ridge Landfill Annual Report, Section 5.0 (and attachments)
- (5) Financial Assurance. The landfill owner or operator must submit an annual update on cost and documentation of any changes made to the financial assurance instrument in accordance with Chapter 400, section 11.

See 2013 Juniper Ridge Landfill Annual Report, Section 6.0 (and Page 12 of 12 attachments) Revised 1/2014

ATTACHMENT D Updated Cell Development Plans

JUNIPER RIDGE LANDFILL THE SECOND ELEVATION DEVELOPMENT

1.0 THE SECOND ELEVATION FILLING OVERVIEW

The placement of waste in the currently constructed landfill cells above elevation 325 will be accomplished in a sequential manner over three development areas. These areas, herein referred to as the second elevation filling of underlying cells, in total is approximately 15 acres in size and is area above the final operational waste grades for the existing based landfill cells, 1, 2, 3A, 3B, 4, 5, 6, 7 and 8. The current cell development plans for these cells are to an operational waste grade at elevation 325. Therefore the second elevation filling includes the permitted landfill capacity above this elevation to an operational waste grade of 380. The capacity of this second elevation filling from the existing landfill grades as of October 30, 2013, to the final waste grades for the second elevation areas is 828,000 cubic yards¹. The development of the second elevation filling will require a progressive removal of the existing intermediate cover placed on top areas of the existing cells, construction of intermediate terrace berms at some of the perimeters of the cells, reestablishing the leachate collection inlets at the landfill perimeter and constructing access roads and perimeter ditches. The intermediate terrace berms will initially contain runoff from the waste mass within the operation cell, and ultimately provide a diversion berm to direct runoff from the intermediate cover to the facility's stormwater management system.

2.0 SECOND ELEVATION FILLING DEVELOPMENT

The second elevation filling will be subdivided into three areas. The first area to be filled will be over Cells 1-4, the second fill area will be over Cell 7 and the third fill area will be over Cells 5, 6, & 8. Initial conditions prior to waste placement into the first fill area is shown on Figure 1. After the initial removal of the existing intermediate cover previously placed on Cells 1, 2, 3A, 3b and 4 as shown on Figure 1, and constructing of the intermediate terrace berm, and extending

1

¹ The top wasted grade for several of the existing landfill cells as of the October 30 2013 site survey were not at 325 due to settlement and/or a suspension of waste filling, and application of intermediate cover placement in these cells prior to achieving the 325 elevation.

Z:\Casella\OldTownLandfill\Cells12345678secondelevation\Docs\R\2014Casella-2nd-Elevation-Dev.docx Sevee & Maher Engineers, Inc. February 19, 2014

the leachate collection inlets as shown on Figure 6, waste placement and operations in Area 1 will be performed in the same manner as previous cells (i.e., lift height, compaction effort, etc.). The various phases of waste placement in these three areas are shown on Figures 2 through 5 and associated operational details such as the temporary intermediate terrace berm and leachate collection inlet are shown on Figure 6. Access to the areas will be initially from the existing west side access road and a new internal access road shown on Figure 2 will be constructed with waste. Prior to filling over these existing cells, temporary cover materials will be removed. During the initial waste placement operations along the perimeter of fill areas, waste will be placed as shown in the detail on Figure 6 to allow leachate to flow to collection inlets. When waste filling is complete the area along the terrace berm will become a temporary stormwater drainage ditch when the intermediate geomembrane cover is installed on the first area.

Waste placement operations in first fill area will progress until final waste grades are achieved as shown on Figure 2. At the completion of the filling of the first fill area and prior to filling in the second fill area the intermediate cover placed on the top of Cell 7 will be removed, an intermediate terrace berm as shown on Figure 2 will be constructed along the northern and eastern side of the second fill area, and the existing leachate collection risers located on the north and southern side of the second fill area are extended and inlet installed. Horizontal gas collection trenches and extraction wells will be installed and connected to the site's gas management infrastructure and intermediate geomembrane cover will be placed on the sideslopes of the first fill area. Runoff from the intermediate geomembrane covering the sideslopes of first fill area will flow via a temporary stormwater ditches to ditches constructed along the inside edge of the western access road to the stormwater structures located outside of the cells.

Operational controls and waste filling will progress in the second and third fill areas (as shown on Figures 3, 4 and 5 respectively) in the same manner as the first fill area. As the waste elevation approaches the final elevation in each fill area the mid-slope intermediate berms, leachate transport piping, leachate collection inlets, landfill gas infrastructure and intermediate geomembrane cover are installed to be ready for the operation of the next fill area. The filling of second and third fill areas will include the construction of the landfill access road which incorporates 2-foot high berms on the outside edge of the road and 2-foot wide stormwater ditch

on the inside edge of the road. The waste below the landfill access road and any berms constructed of waste must be a high shear strength waste such as construction and demolition debris. The waste has adequate strength if it can be piled while maintaining side slopes of 1 Horizontal to 1 Vertical. High strength wastes would not include materials such as sludges or other high moisture content materials. The stormwater ditch along the roadway in the previously filled areas will be lined with temporary geomembrane cover. The stormwater ditch will direct clean runoff from the the covered landfill via culverts to the lower portion of the landfill where it is directed to the roadside ditch located along the perimeter access road.

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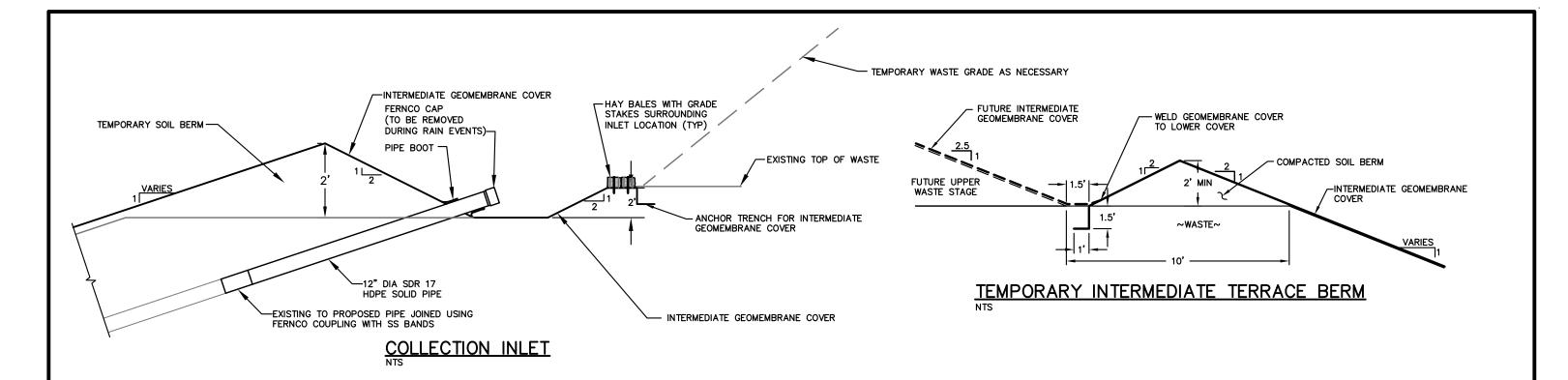
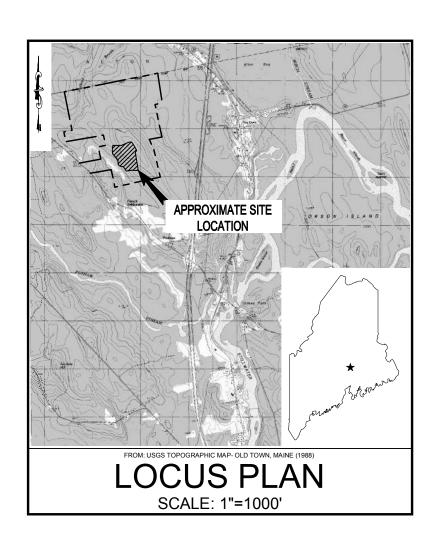


FIGURE 6
SECOND ELEVATION
CELL DEVELOPMENT DETAILS
JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE



SECOND ELEVATION FILLING LANDFILL GAS SYSTEM EXPANSION DRAWINGS

JUNIPER RIDGE LANDFILL
OLD TOWN, MAINE
FEBRUARY 2014



SHEET INDEX

SHEET 1 EXISTING CONDITIONS PLAN

SHEET 2 LFG INFRASTRUCTURE DEVELOPMENT PLAN - CELLS 1-4

SHEET 3 LFG INFRASTRUCTURE DEVELOPMENT PLAN - CELL 7

SHEET 4 LFG INFRASTRUCTURE DEVELOPMENT PLAN - CELLS 5, 6 & 8

SHEET 5 CROSS SECTIONS

SHEETS 6-8 DETAILS



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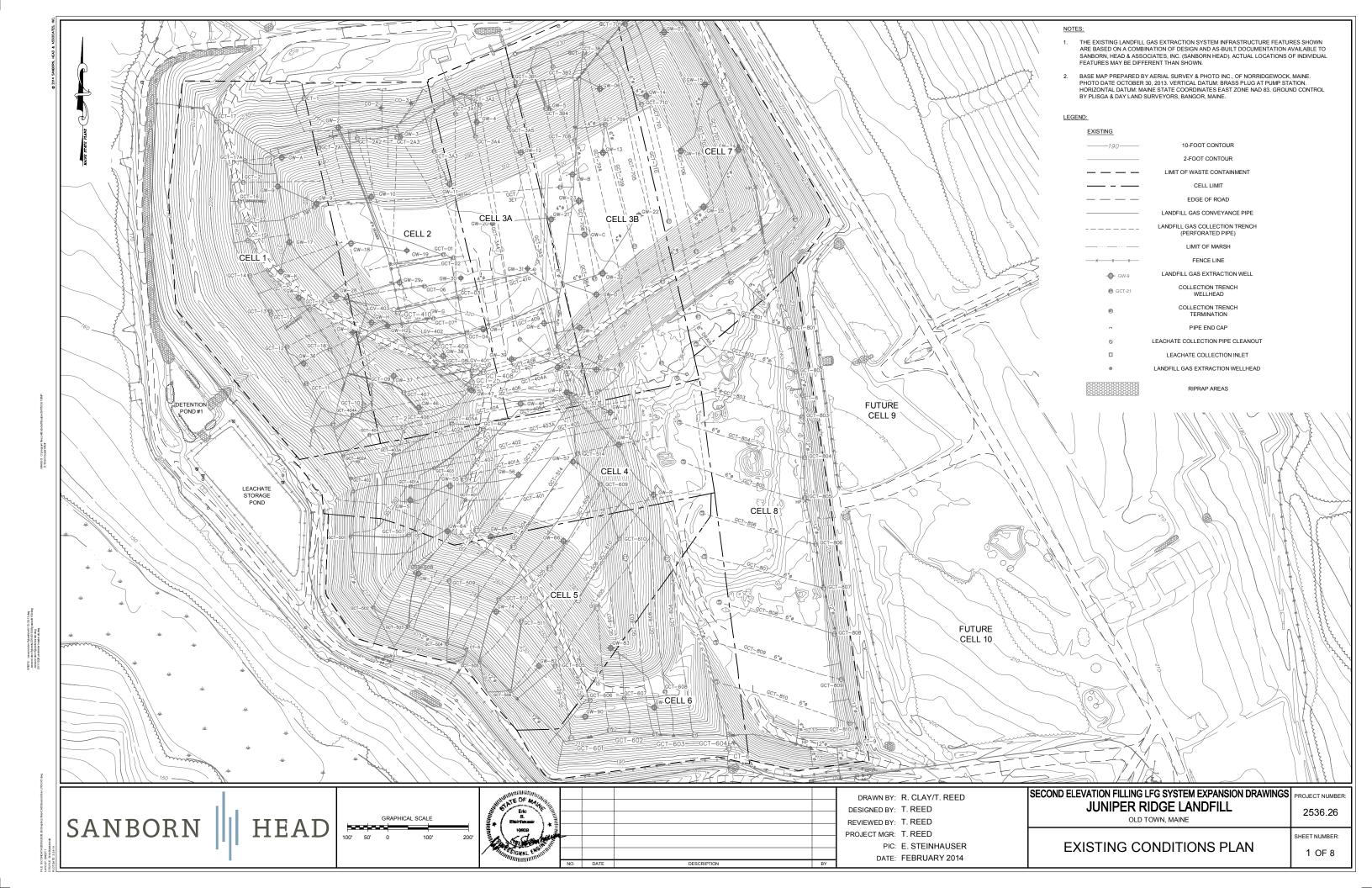


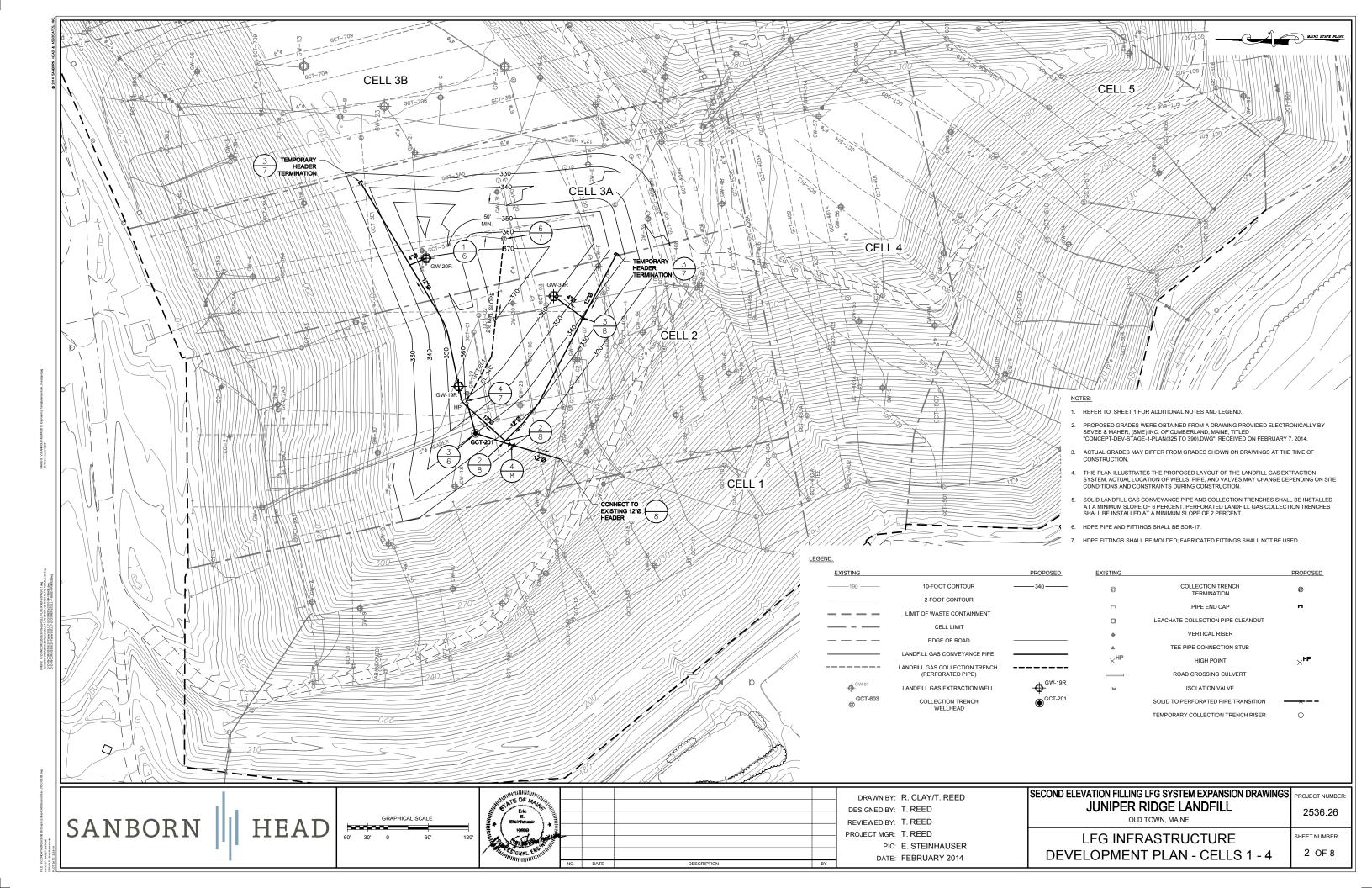
JUNIPER RIDGE LANDFILL OLD TOWN, MAINE

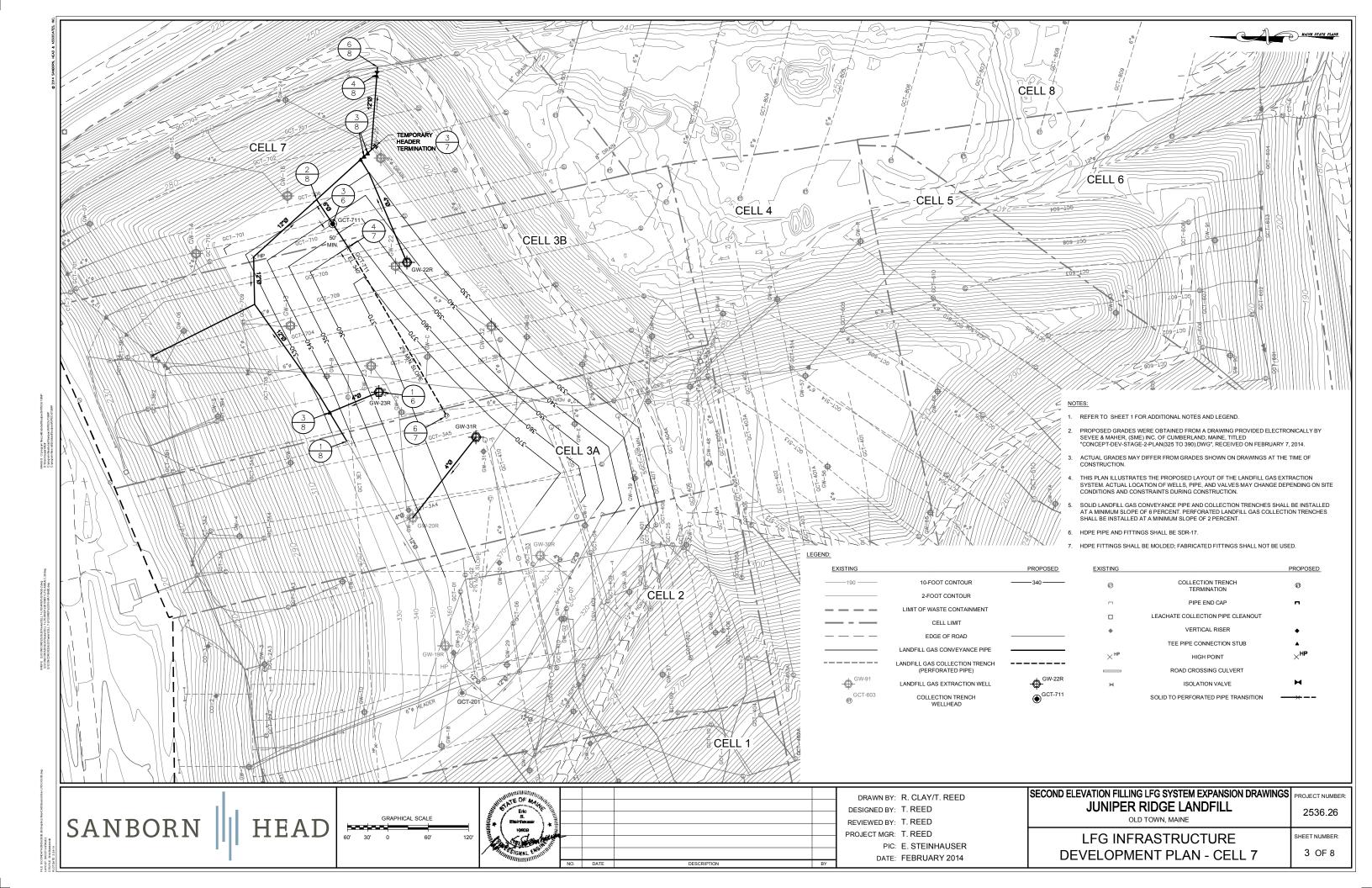
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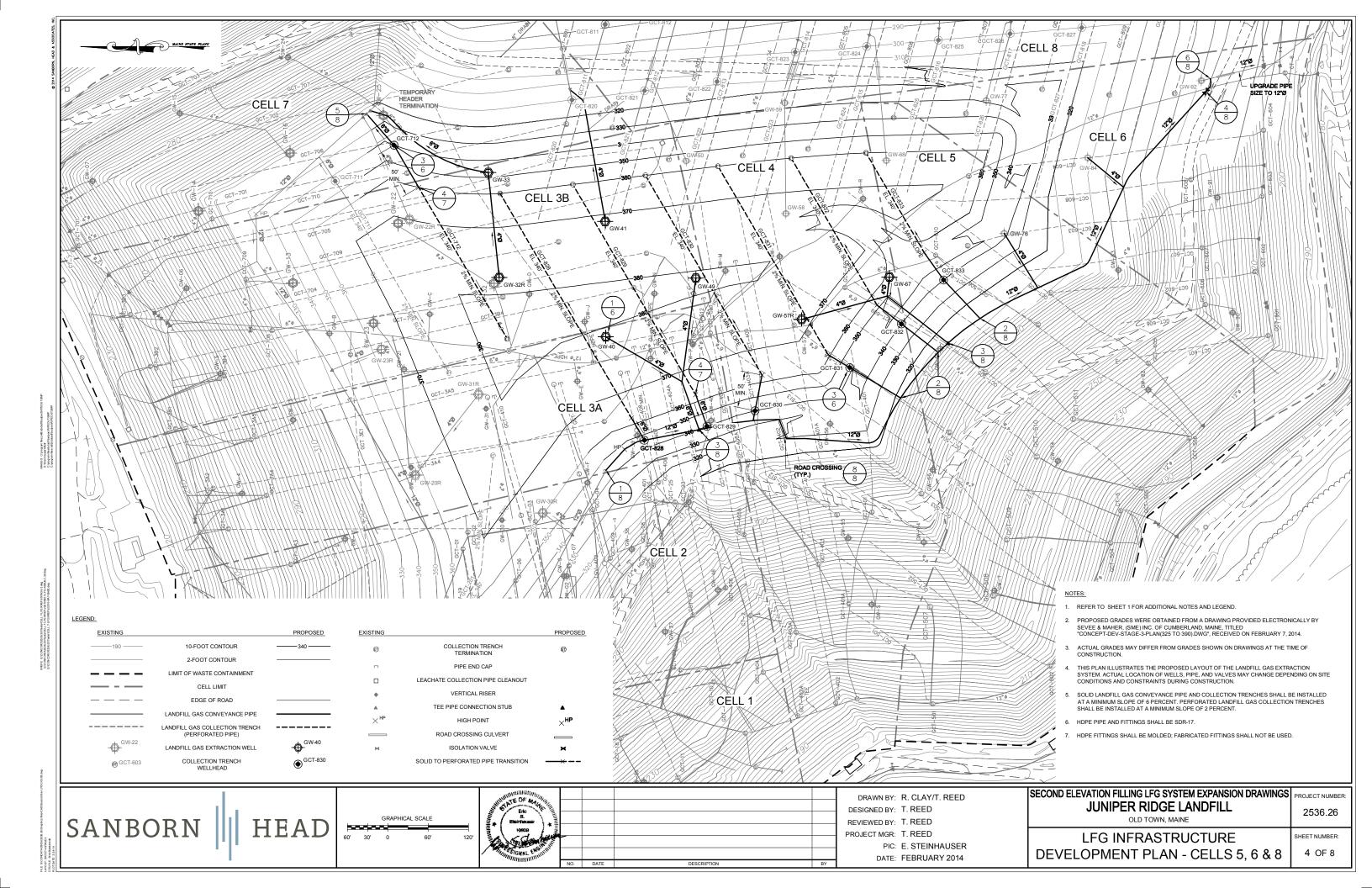


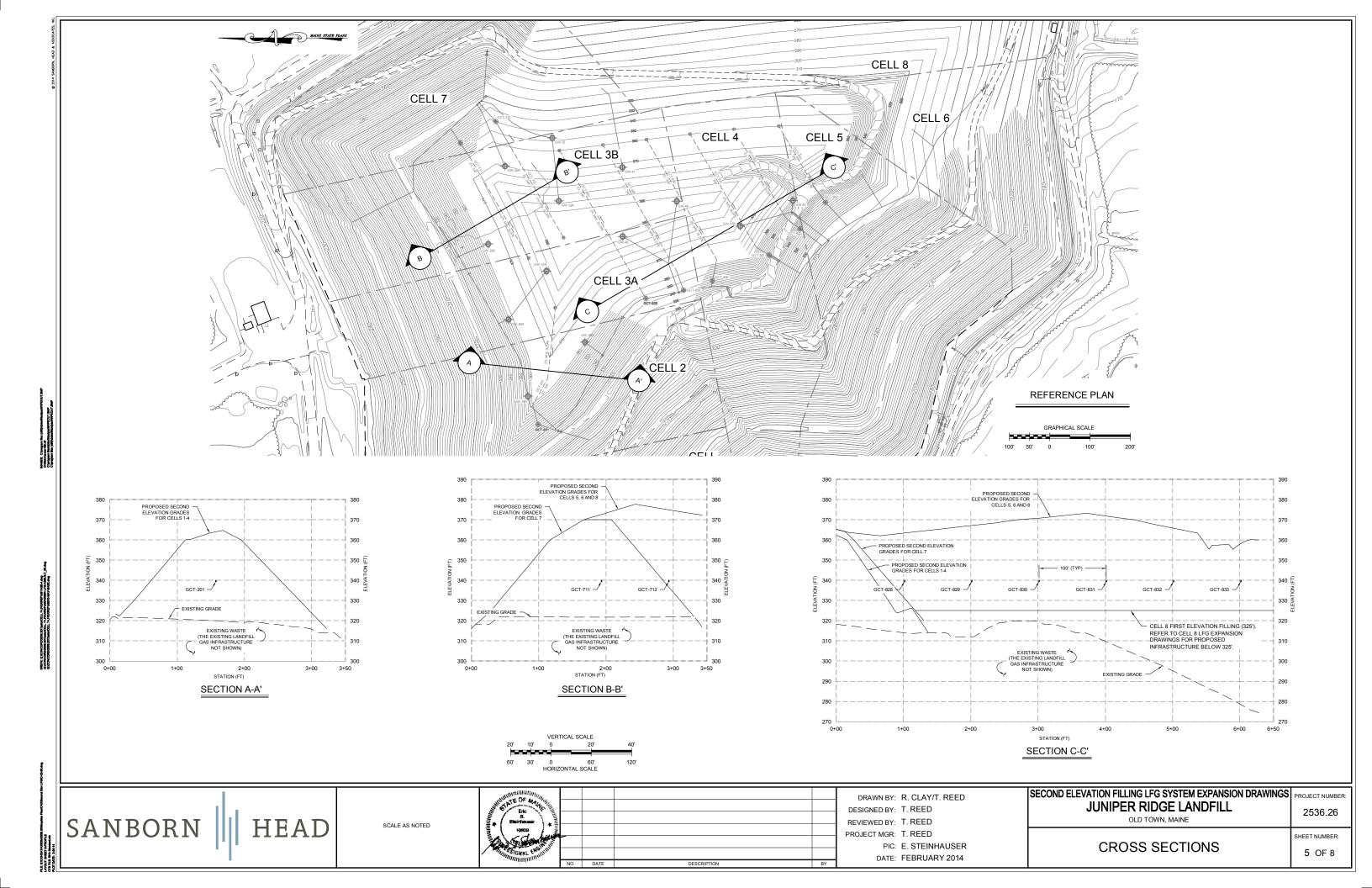
20 FOUNDRY STREET, CONCORD, NEW HAMPSHIRE 03301 (603) 229-1900 FAX (603) 229-1919











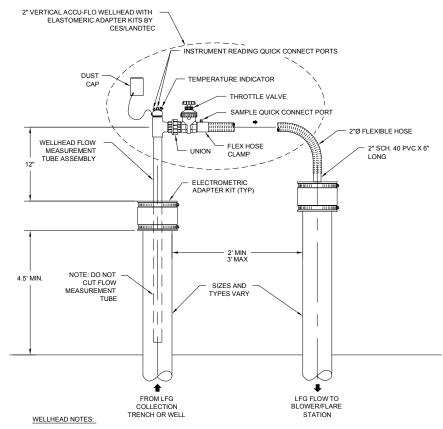
NOTES:

- 1. ALL HDPE PIPE SHALL BE SDR-17, UNLESS OTHERWISE NOTED.
- ALL SOLID HDPE PIPE SHALL BE BUTT-FUSION WELDED UNLESS OTHERWISE INDICATED OR AN ALTERNATIVE IS APPROVED BY THE ENGINEER.
- COVER SOLID HDPE PIPE ON LANDFILL SLOPES WITH MINIMUM 2 FEET OF SOIL AND STABILIZE AGAINST EROSION.
- PIPE PERFORATED WITH SLOTS ½" TO ¼" WIDE BY 8" LONG. FOUR SLOTS PER ROW SPACED 90° APART, WITH ADJACENT ROWS OFFSET BY 45°.

WELL SCHEDULE NOTES:

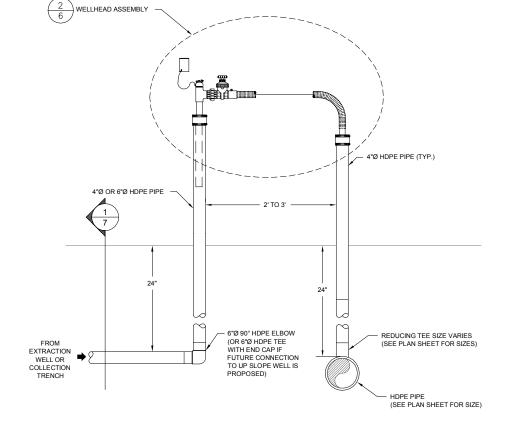
- 1. LFG EXTRACTION WELLS SHALL BE INSTALLED WITHIN ONE FOOT OF LISTED
- 2. A TEMPORARY BENCHMARK WITH ELEVATION SHALL BE ESTABLISHED AT EACH WELL PRIOR TO DRILLING.
- 3. 15 FEET OF SOLID RISER IS TO BE PROVIDED BELOW INTERMEDIATE COVER GRADES. THE INTENT IS TO PROVIDE 3 FEET OF STICK UP ABOVE FILL GRADES.
- 4. ELEVATIONS SHALL BE CONFIRMED AGAINST AS-BUILT TOP OF PRIMARY SAND GRADES AND FILL GRADES PRIOR TO CONSTRUCTION.

| WELL SCHEDULE | | | | | | | | | |
|---------------------|----------|----------|----------------------------|----------------------------------|-----------------------------|----------------------------------|-------------------------------|--------------------------|--------------------------------|
| WELL DESIGNATION | NORTHING | EASTING | BOTTOM OF WASTE (FT) | TOP OF EXISTING WASTE (FT) | TOTAL WELL DEPTH (FT) | BOTTOM OF WELL SCREEN (FT) | TOP OF WELL SCREEN (FT) | SCREEN LENGTH (FT) | TOP OF CASING ELEV. (FT) |
| GW-19R | 478830.0 | 925903.3 | 202.3 | 356.3 | 139.0 | 217.3 | 341.3 | 124.0 | 359.3 |
| GW-20R | 478878.2 | 926093.3 | 209.3 | 355.3 | 131.0 | 224.3 | 340.3 | 116.0 | 358.3 |
| GW-22R | 478887.0 | 926473.0 | 213.6 | 344.5 | 116.0 | 228.6 | 329.5 | 101.0 | 347.5 |
| GW-23R | 478928.7 | 926280.1 | 212.5 | 362.6 | 135.1 | 227.5 | 347.6 | 120.1 | 365.6 |
| GW-30R | 478688.8 | 926037.2 | 202.3 | 360.3 | 143.0 | 217.3 | 345.3 | 128.0 | 363.3 |
| GW-31R | 478784.3 | 926213.2 | 208.6 | 370.0 | 146.4 | 223.6 | 355.0 | 131.4 | 373.0 |
| GW-32R | 478753.5 | 926387.1 | 210.9 | 377.5 | 151.5 | 225.9 | 362.5 | 136.5 | 380.5 |
| GW-33 | 478769.9 | 926542.9 | 214.8 | 347.3 | 117.5 | 229.8 | 332.3 | 102.5 | 350.3 |
| GW-40 | 478595.2 | 926299.0 | 205.3 | 378.6 | 158.3 | 220.3 | 363.6 | 143.3 | 381.6 |
| GW-41 | 478596.0 | 926470.3 | 209.4 | 371.1 | 146.7 | 224.4 | 356.1 | 131.7 | 374.1 |
| GW-49 | 478461.3 | 926386.1 | 205.7 | 380.0 | 159.3 | 220.7 | 365.0 | 144.3 | 383.0 |
| GW-57R | 478304.0 | 926324.8 | 196.4 | 371.4 | 160.0 | 211.4 | 356.4 | 145.0 | 374.4 |
| GW-67 | 478173.5 | 926387.8 | 195.8 | 356.6 | 145.8 | 210.8 | 341.6 | 130.8 | 359.6 |



- CES-LANDTEC ACCU-FLOW WELLHEAD SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION MANUAL. INSTRUCTIONS SHALL BE THOROUGHLY READ BEFORE ATTEMPTING ASSEMBLY AND INSTALLATION OF WELLHEAD.
- WELLHEAD AND FLOW MEASUREMENT TUBE ASSEMBLY SHALL BE COMPATIBLE WITH CES-LANDTEC GEM-2000 (LANDFILL GAS INSTRUMENT).
- FOR FLEXIBLE CONNECTIONS TO PIPE, USE ONLY "IPS WELD-ON 795" PLASTIC PIPE CEMENT OR EQUAL APPROVED BY THE ENGINEER.
- WARNING: DO NOT CUT THE FLOW MEASUREMENT TUBE ASSEMBLY. FAILURE TO HEED THIS WARNING WILL RESULT IN A DAMAGED OR INOPERATIVE WELLHEAD AND VOID THE WARRANTY. SUCH DAMAGE WOULD REQUIRE REPLACEMENT OF THE WELLHEAD AT THE CONTRACTOR'S
- ALLOW SUFFICIENT SLACK IN FLEX HOSE FOR PIPE EXPANSION AND CONTRACTION; AN EXTRA 8 TO 12 INCHES IS RECOMMENDED.

WELLHEAD ASSEMBLY NOT TO SCALE



COLLECTION TRENCH WELLHEAD NOT TO SCALE

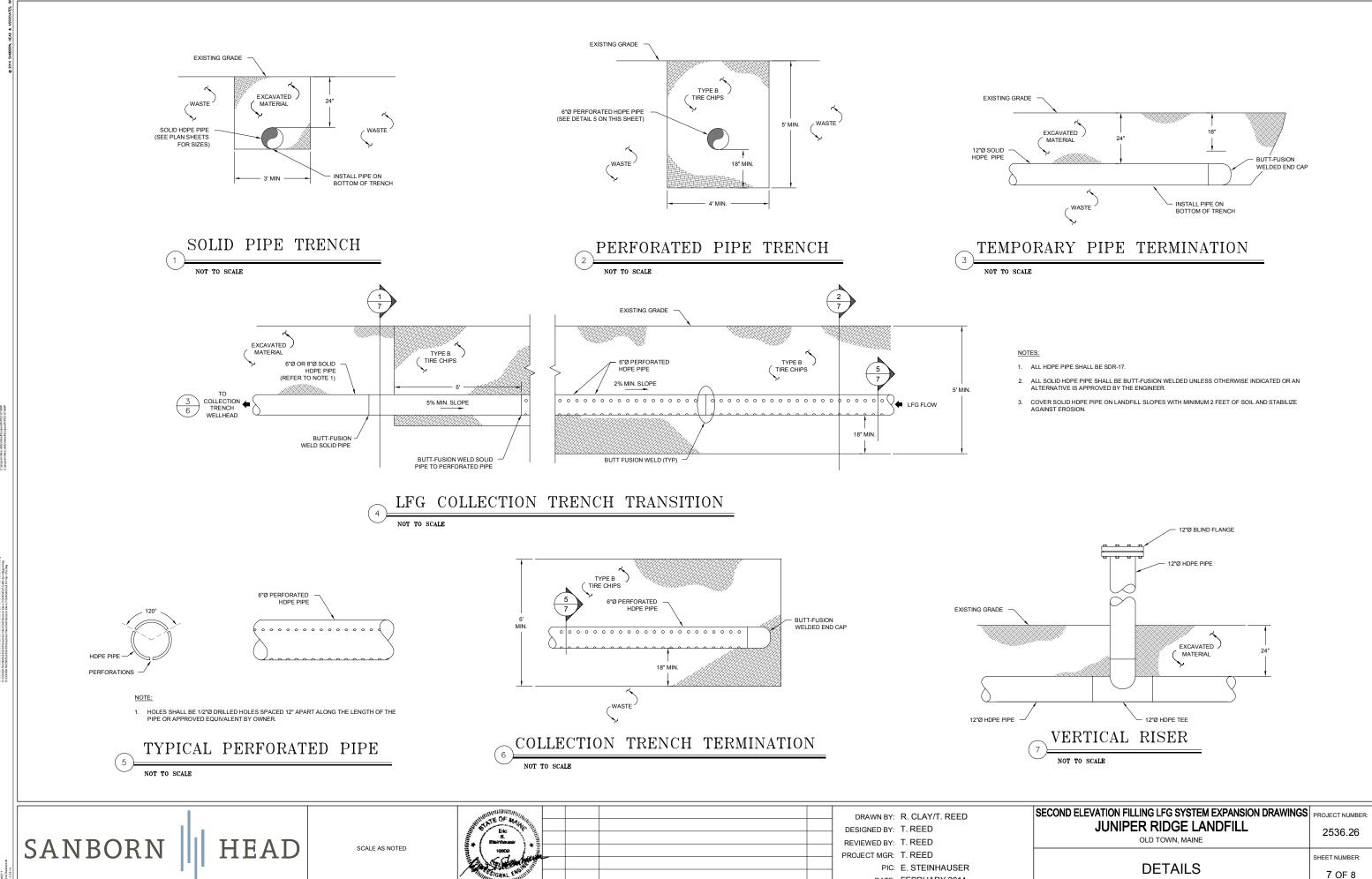
SANBORN

SCALE AS NOTED

DRAWN BY: R. CLAY/T. REED DESIGNED BY: T. REED REVIEWED BY: T. REED PROJECT MGR: T. REED PIC: E. STEINHAUSER

DATE: FEBRUARY 2014

SECOND ELEVATION FILLING LFG SYSTEM EXPANSION DRAWINGS PROJECT NUMBER JUNIPER RIDGE LANDFILL 2536.26 OLD TOWN, MAINE SHEET NUMBER: **DETAILS** 6 OF 8

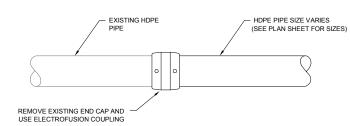


DATE: FEBRUARY 2014

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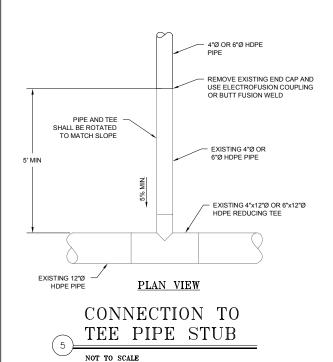


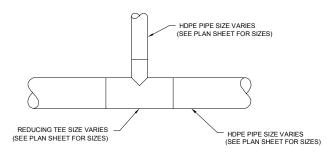
- 1. ALL HDPE PIPE SHALL BE SDR-17.
- 2. ALL SOLID HDPE PIPE SHALL BE BUTT-FUSION WELDED UNLESS OTHERWISE INDICATED OR AN
- 3. COVER SOLID HDPE PIPE ON LANDFILL SLOPES WITH MINIMUM 2 FEET OF SOIL AND STABILIZE



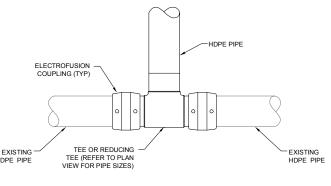
EXISTING CONVEYANCE PIPE CONNECTION

NOT TO SCALE



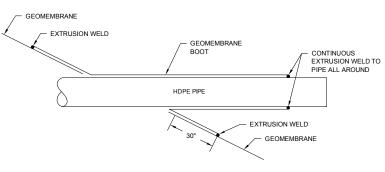


CONNECTION NOT TO SCALE



"TEE" CONNECTION TO EXISTING PIPE

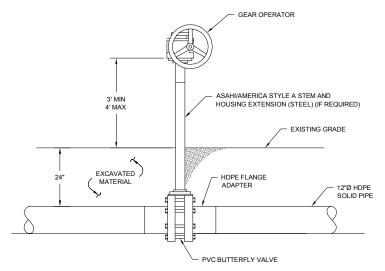
NOT TO SCALE



TYPICAL GEOMEMBRANE BOOT SEAL

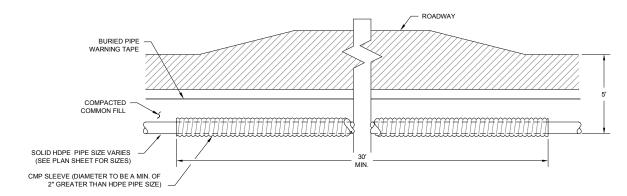
4"Ø OR 6"Ø HDPF PIPE AND TEE SHALL BE ROTATED TO MATCH SLOPE 4"Ø OR 6"Ø HDPE 4"x12"Ø OR 6"x12"Ø HDPE REDUCING TEE 12"Ø HDPE PIPE PLAN VIEW

TEE PIPE CONNECTION STUB



LFG FLOW CONTROL VALVE

NOT TO SCALE



ROAD CROSSING PIPE SLEEVE NOT TO SCALE

NOT TO SCALE

SCALE AS NOTED

SANBORN | HEAD

DRAWN BY: R. CLAY/T. REED DESIGNED BY: T. REED REVIEWED BY: T. REED PROJECT MGR: T. REED

PIC: E. STEINHAUSER DATE: FEBRUARY 2014

SECOND ELEVATION FILLING LFG SYSTEM EXPANSION DRAWINGS PROJECT NUMBER JUNIPER RIDGE LANDFILL 2536.26 OLD TOWN, MAINE

DETAILS

SHEET NUMBER: 8 OF 8



Technical Specifications Second Elevation LFG System Expansion Landfill Gas Extraction System Juniper Ridge Landfill Old Town, Maine

Prepared for

NEWSME Landfill Operations, LLC

Old Town, Maine

Prepared by
Sanborn, Head & Associates, Inc.
20 Foundry Street
Concord, New Hampshire

File 2536.26 February 2014



SECTION 02560

LANDFILL GAS EXTRACTION WELLS

PART 1 - GENERAL

1.1 SCOPE OF APPLICATION

A. Supply all equipment, materials, and labor needed to install landfill gas extraction wells as specified herein and as indicated on the Drawings.

1.2 SUBMITTALS

- A. Submit to ENGINEER Certificates of Compliance on materials furnished, and manufacturer's brochures containing complete information and instructions pertaining to the storage, handling, installation, and inspection of pipe and appurtenances furnished.
- B. Submit to ENGINEER well logs within 7 days of the completion of well installations.
- C. The well logs shall depict a construction diagram for each well drilled, including the total depth of the well, the temperature of spoils, depth, thickness, and description of soil or waste strata, and the occurrence of any water bearing zones.

1.3 SITE CONDITIONS

- A. Obstructions and saturated conditions such as sludges, and foundry sands are sometimes encountered when drilling in landfills, many of which can be drilled through. CONTRACTOR is expected to make reasonable effort to drill through obstructions and saturated conditions and will be paid for offset redrilling and boring abandonment only with prior written approval from OWNER.
- B. Well drilling shall be performed on a level surface. CONTRACTOR shall provide a level surface at each drilling location as required. The size of the level area shall be acceptable to the drilling subcontractor. Any soil placed to level the drilling location shall be removed following well installation.

PART 2 - PRODUCTS

2.1 BALLAST STONE

A. Ballast Stone shall be hard, durable, and resistant to weathering and to water action, free from overburden, spoil, and organic materials. Ballast Stone shall be washed, and uniformly blended according to the particle size distribution requirements shown below.

| Sieve Size | Percent Passing by Weight | |
|------------|---------------------------|--|
| 2-inch | 100 | |
| 1½-inch | 90 - 100 | |
| 1-inch | 30 - 40 | |
| ¾-inch | 10 - 15 | |
| ½-inch | 0 - 5 | |
| 3/8-inch | 0 - 5 | |

2.2 BENTONITE SEAL

A. Bentonite Seal shall be constructed using dry bentonite chips or pellets.

2.3 SAND/GRAVEL FILTER

A. Sand/Gravel Filter should conform to the following particle size distribution.

| Sieve Size | Percent Passing by Weight |
|------------|---------------------------|
| 1½-inch | 100 |
| No. 4 | 70 - 100 |
| No. 40 | 30 - 80 |
| No. 200 | 0 - 15 |

2.4 COMMON FILL

A. Common Fill should be soil containing no stone larger than 4 inches, and shall have a maximum of 75 percent passing the No. 40 sieve and a minimum of 35 percent passing the No. 200 sieve.

2.5 PVC PIPE

A. Refer to Specification Section 15212.

2.6 WELLHEAD

- A. Wellheads should be nominal 2-inch size CES/LANDTEC Accu-Flo wellhead, Model 200, with elastomer adapter kits, or equivalent approved by OWNER. The wellhead components are indicated on the Drawings.
- B. Wellhead and flow measurement tube shall be compatible with the CES/LANDTEC GEM-2000™ Landfill Gas Monitor.

PART 3 - EXECUTION

3.1 DRILLING

- A. ENGINEER shall observe all drilling operations.
- B. Wells shall be drilled to the minimum diameter and the specific depths shown on the Drawings. CONTRACTOR shall drill the wells using bucket-type augers and dry drilling equipment; wet rotary drilling equipment may not be used.
- C. Well depths shown on the Drawings are estimated based on projected top of waste elevations and may be adjusted in the field by ENGINEER. At no time shall the drilling extend deeper than the bottom of well screen elevation.
- D. If water is encountered in a borehole, then CONTRACTOR may be directed to drill beyond the point that it was encountered. If wet conditions remain, then drilling may be terminated and the length of perforated pipe adjusted by ENGINEER, or the well may be relocated. If wet conditions cease (e.g., due to trapped water layer), then drilling will continue to the design depth.
- E. As soon as drilling is completed, a safety screen shall be placed over the top of the borehole. This screen shall stay in place until backfilling is within 4 feet of the surface. Safety screen size should be large enough to accommodate all backfill materials and any tools used during backfill yet not large enough for any human to accidentally fall through.
- F. Wells shall be drilled straight and plumb and the well pipe shall be installed in the center of the borehole. CONTRACTOR will take all compression off of the pipe by mechanical means and center the pipe in the middle of the borehole before starting to backfill.
- G. PVC well pipe shall be solvent cemented and mechanically fastened with stainless steel fasteners.

3.2 BACKFILLING

- A. Backfilling the borehole shall commence immediately after drilling is completed and the PVC pipe has been installed. Backfill materials shall be installed as indicated on the Drawings and as approved by ENGINEER.
- B. Ballast Stone shall be poured or scooped through the safety screen at a rate that will not endanger the integrity of the well casing and limits the potential for bridging.
- C. The Sand/Gravel Filter shall be poured through the safety screen until a layer at least 1-foot thick above the Ballast Stone is formed.

- D. The Bentonite Seal will be formed by evenly distributing bentonite around the annulus of the well until a minimum plug thickness of 1 foot has been achieved.
- E. Common Fill shall be rodded in the boring to provide even distribution and compaction.

3.3 DISPOSAL

A. Refuse from well drilling operations shall be hauled to the active face of the landfill operation the same day it is excavated.

[END OF SECTION 02560]

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SECTION 02565

LANDFILL GAS TRENCHES

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. CONTRACTOR shall provide all labor, materials, equipment, and incidentals necessary to excavate and backfill trenches for the landfill gas management system as shown on the Drawings and specified herein, including, but not limited to: excavation of waste; placement of soil, aggregate, and pipe; compaction of soil; and grading.

PART 2 - PRODUCTS

2.1 GENERAL

- A. All soil, unless otherwise specified, shall consist of clean soil substantially free from organic materials, wood, trash, and other objectionable materials that may be compressible or that cannot be properly compacted. Soil shall not contain stone blocks, broken concrete, masonry rubble, or other similar materials. Soil shall have physical properties such that it can be readily spread and compacted to the specified density. Snow, ice, and frozen soil shall not be permitted.
- B. Unless otherwise specified, the maximum soil particle size shall be no larger than two-thirds the loose lift thickness.

2.2 MATERIALS

- A. Tire Chips shall be provided by the OWNER and shall be placed in accordance with ASTM D 6270.
- B. HDPE pipe and fittings refer to Specification Section 15210.

PART 3 - EXECUTION

3.1 GENERAL EXCAVATION BELOW GRADE

- A. CONTRACTOR shall plan and perform earthwork activities to prevent damage to existing structures, safeguard people and property, minimize disruptions to site traffic, protect the structures to be installed, and provide safe working conditions in compliance with local safety regulations and provisions of the Occupational Safety and Health Act (OSHA).
- B. Excavation shall be made to the elevations and dimensions shown on the Drawings. Excavate sufficient material to provide suitable room for construction providing bracing and support as required.

3.2 EXCAVATION IN WASTE

- A. CONTRACTOR shall take safety precautions during construction activities that conform to all OSHA regulations and the safety requirements of OWNER and the Specifications.
- B. Trenches shall be excavated to the depths, widths, and alignments shown on the Drawings.
- C. CONTRACTOR shall separate cover soil from excavated refuse to the extent possible. Cover soil may be used to backfill trenches. Excavated material not suitable for use as soil shall be transported to the working face as directed by OWNER.
- D. Pockets of perched leachate may be encountered during waste excavation activities. CONTRACTOR shall immediately notify OWNER and ENGINEER when leachate is encountered. ENGINEER will provide CONTRACTOR with directions on how to manage the leachate in narrative and/or drawing form. Potential leachate management techniques may include one or a combination of the following.
 - 1. Backfilling the affected area.
 - 2. Realigning the trench.
 - 3. Installing a French drain.
- E. To the extent possible, the trench invert shall slope uniformly as indicated on the Drawings.
- F. CONTRACTOR shall not excavate more trench than can be backfilled in one day after placement of the pipe. Excavations shall not be left open overnight.

3.3 BACKFILL

- A. Excavated material shall be placed in loose layers and compacted to the extent possible with the goal of establishing a firm, even surface. The loose lift thickness shall not exceed 12 inches.
- B. ENGINEER does not have to be present, and does not supervise or direct the actual Work by CONTRACTOR, his/her employees, or agents. Neither the presence of ENGINEER nor any observations and testing performed by ENGINEER shall excuse CONTRACTOR from defects discovered in their Work.

[END OF SECTION 02565]

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SECTION 15210

HIGH DENSITY POLYETHYLENE (HDPE) PIPE, FITTINGS, AND APPURTENANCES

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish and install HDPE pipe and fittings for the landfill gas extraction system.
- B. Pressure test HDPE pipe.

1.2 DELIVERY, STORAGE, AND HANDLING

A. The pipe and fitting manufacturer shall package products for shipment in a manner suitable for safe transport by commercial carrier. When delivered, CONTRACTOR shall inspect the shipment and report any damage to the pipe and fittings manufacturer. Pipe and fittings shall be handled, installed, and tested in accordance with manufacturer's recommendations, and the requirements of this Section.

B. Pipe Storage:

- 1. Store or stack pipe to prevent damage from marring, crushing or puncture. Limit maximum stacking height to 6 feet or manufacturer's recommended maximum height, whichever is less.
- 2. Store in accordance with manufacturer's recommendations.

C. Pipe Handling:

- 1. Protect pipe from excessive heat or harmful chemicals.
- 2. Handle pipe and use equipment needed to avoid gouging of the pipe surfaces.

PART 2 - PRODUCTS

2.1 PHYSICAL PROPERTIES:

A. Materials used for the manufacture of PE pipe and fittings shall meet the following physical property requirements:

| Property | Unit | Test | Value |
|---------------------------|---------------------|-------------|----------------------|
| | (2000) 12 1 1 2 2 3 | Procedure | |
| Material Designation | - | PPI/ASTM | _ |
| PPI Material Listing | | PPI TR-4 | PE 3408 |
| Cell Classification | (4 0) | ASTM D 3350 | 345434C or 355434C |
| Density | g/cm3 | ASTM D 1505 | >0.941 |
| Melt Index [E] | g/10 min | ASTM D 1238 | < 0.15 |
| Flexural Modulus | psi | ASTM D 790 | >110,000 and |
| Tensile Strength | psi | ASTM D 638 | <160,000 |
| ESCR [C] | hours | ASTM D 1693 | 3,000 to 3,500 |
| HDB | psi | ASTM D 2837 | f ₀ >5000 |
| UV Stabilizer [C] | % Carbon | ASTM D 1603 | 1,600 23 C |
| Elastic Modulus | Black | ASTM D 638 | 2 to 3 |
| Brittleness Temperature | ٥F | ASTM D 746 | <-180 |
| Vicat Softening Thermal | ٥F | ASTM D 1525 | 255 |
| Expansion | in/in/ ºF | ASTM D 696 | 8 x 10E-5 |
| Hardness | Shore D | ASTM D 2240 | 64 |
| Molecular Weight Category | - | - | Extra High |

- B. There shall be no evidence of splitting, cracking, or breaking when the pipe is tested.
- C. Ring Stiffness Constant (RSC) values for the pipe shall be 90 percent of the nominal.
- D. The pipe and fittings shall be homogenous throughout and free from visible cracks, holes, foreign inclusions, or other injurious defects. The pipe shall be as uniform as commercially practical in color, opacity, density, and other physical properties.
- E. Clean rework or recycled material generated by the manufacturer's own production may be used so long as the pipe or fittings produced meet all the requirements of this Section.

2.2 PIPE AND FITTINGS

A. Dimensions:

- 1. Pipe Dimensions: The nominal inside diameter of the pipe shall be true to the specified pipe size in accordance with ASTM D 2513. Standard laying lengths shall be 40 feet ± 2 inches.
- Fitting Dimensions: Fittings such as couplings, wyes, tees, adaptors, etc. for use in laying pipe shall have standard dimensions that conform to ASTM D 3261.
- 3. Pipe and fittings shall be SDR-17 unless otherwise noted.

- B. Pipe and fittings shall be produced from identical materials meeting the requirements of this Section. Special or custom fittings may be exempted from this requirement.
- C. Pipe and fittings shall be pressure rated to meet the service pressure requirements specified. Fittings shall be fully pressure rated to at least the same service pressure rating as the joining pipe.
- D. Molded fittings shall meet the requirements of ASTM D 3261 and this Section. At the point of fusion, the outside diameter and minimum wall thickness of fitting butt fusion outlets shall meet the diameter and wall thickness specifications of the mating system pipe. Fitting markings shall include a production code that identifies the location and date of manufacture. Upon request, the manufacturer shall provide an explanation of his production code.

E. Marking:

- Each standard and random length of pipe and fitting shall be clearly marked with the following information:
 - Manufacturer's Name or Trademark;
 - b. ASTM Standard Designation;
 - Nominal Pipe Size; C.
 - Class & Profile Number; d.
 - Production Code, including Extrusion Date, and Lot or Batch Number; e. and
 - f. Standard Dimension Ratio.
- F. The pipe and fitting manufacturer shall certify that samples of production pipe have undergone stress regression testing, evaluation, and validation in accordance with ASTM D 2837 and PPI TR-3. Under these procedures, the minimum hydrostatic design basis shall be certified by the pipe and fitting manufacturer to be 1600 psi at 73.4° F and 800 psi at 140° F.
- Material shall be listed in the name of the pipe and fitting manufacturer by the G. Plastics Pipe Institute (PPI) in PPI TR-4 with the following Standard Grade ratings:

| | | 73.4° F | 140° F |
|----|---------------------------------|-----------|---------|
| 1. | Hydrostatic Design Basis (HDB) | 1,600 psi | 800 psi |
| 2. | Hydrostatic Design Stress (HDS) | 800 psi | 400 psi |

PPI material listing in the name of the resin supplier is not acceptable in meeting H. this requirement.

I. Certification:

File No. 2536.26

As the basis of the acceptance of the material, the manufacturer shall furnish a certificate of conformance of this Section upon request. When prior agreement is being made in writing between CONTRACTOR and the manufacturer, the manufacturer shall furnish other conformance certification in the form of affidavit of conformance, test results, or copies of test reports.

2.3 GASKETS AND HARDWARE

A. All gaskets shall be Viton or other similar materials approved by OWNER. Joint hardware shall be Type 304 stainless steel.

2.4 FITTINGS

- A. Fittings shall be manufactured from polyethylene compound having cell classification equal to or exceeding compound used in pipe to ensure compatibility of polyethylene resins.
- B. Fittings greater than 10-inches in diameter shall be molded. Fittings less than 10-inches in diameter may be fabricated.
- C. Dimensions of fittings conforming to standard dimensions and tolerances in accordance with ASTM D 3261.
- D. Fittings shall have the same or higher pressure rating as pipe.

E. Markings:

- 1. Manufacturer's name or trademark.
- Nominal size.
- 3. Type of plastic pipe (i.e., PE 3408).
- 4. Standard dimension ratio.
- 5. Extrusion date, lot number or batch number.
- G. The Drawings do not show all fittings that may be required. Provide all fittings required for a complete installation.

PART 3 - EXECUTION

3.1 FIELD QUALITY CONTROL

- A. Pipe may be rejected for failure to conform to any of the following:
 - 1. Fractures or cracks passing through pipe wall, except single crack not exceeding 2 inches in length at either end of pipe, which may be cut off and discarded. All pipes within one shipment shall be rejected if defects exist in more than five percent of shipment or delivery.
 - 2. Cracks sufficient to impair strength, durability, or service ability of pipe.
 - 3. Defects indicating improper proportioning, mixing, and molding.
 - 4. Damaged ends, where such damage prevents making satisfactory joint.
 - 5. Damage due to handling or installation. Scratches and gouges exceeding five percent of the wall thickness shall be considered excessive, and may be rejected by ENGINEER or OWNER.

- B. Acceptance of fittings, stubs, or other specially fabricated pipe sections shall be based on visual inspection by ENGINEER and documentation of conformance to this Section.
- C. Prior to backfilling trench CONTRACTOR shall obtain as-built top of pipe coordinates and elevations at grade changes, terminations, fittings, and at least every 50 feet along the pipe.

3.2 INSTALLATION

A. Trench, backfill, and compact in accordance with Specification Section 02565.

B. Heat Fusion of Pipe:

- Weld pipe in accordance with manufacturer's recommendation for butt fusion methods. The pipe manufacturer shall certify fusion machine operators.
- 2. Butt fusion equipment for joining procedures shall be capable of meeting conditions recommended by pipe manufacturer including, but not limited to, temperature, alignment, and fusion pressures.
- 3. Branch saddle fusions shall be joined in accordance with manufacturer's recommendations and procedures. Branch saddle fusion equipment shall be of a size to facilitate saddle fusion within the trench.
- 4. For cleaning pipe ends, solutions such as detergents and solvents, when required, shall be used in accordance with manufacturer's recommendations. Solvents shall not be used unless approved by OWNER.
- 5. Do not bend pipe to greater degree than minimum radius recommended by manufacturer for type and grade.
- 6. Do not subject pipe to strains that will overstress or buckle pipe or impose excessive stress on joints.
- 7. Before butt fusing pipe, observe inside of each pipe length for presence of dirt, sand, mud, shavings, and other debris or animals. Remove debris from pipe prior to fusing.
- 8. Cap open ends of fused pipe at end of each working day to prevent entry by animals, debris, or stormwater.
- Use compatible fusion techniques when polyethylenes of different melt indexes are fused together. Refer to manufacturer's specifications for compatible fusion.

C. Flange Jointing:

- Use on flanged pipe connection sections.
- At a minimum convoluted stainless steel backup rings shall be used for joining HDPE pipes below grade, and epoxy-coated carbon steel backup flanges shall be used above grade, unless stainless steel is specified by OWNER.
- 3. Butt fuse fabricated flange adapters to pipe or use electrofusion couplings.
- 4. Observe the following precautions in connection of flange joints:

- a. Use full-face gaskets only.
- b. All fasteners and back-up rings shall be Type 18-8 or Type 304 stainless steel below grade, and zinc-plated steel above grade.
- c. Align flanges or flange/valve connections to provide tight seal.
- d. U.S. Standard round washers may be used on some flanges when in accordance with manufacturer's recommendations. Bolts shall be lubricated prior to installation.
- 5. Protect below grade bolts and flanges by covering with a 6-mil thick PE wrap. Duct tape wrap to HDPE pipe.
- 6. Electrofusion couplers, where used, shall be installed per manufacturer's specifications. The outside diameter of the HDPE pipe and face shall be prepared in accordance with manufacturer's recommendations prior to installing the coupler.

D. Pipe Placement:

- 1. Grade control equipment shall be of the type to accurately maintain design grades and slopes during installation of pipe.
- 2. Unless otherwise specifically stated, install pipe in accordance with manufacturer's recommendations.
- 3. Maximum lengths of fused pipe to be handled as one section shall not exceed 400 feet and shall be placed according to the manufacturer's recommendations as to pipe size, pipe SDR, and topography so as not to cause excessive gouging or surface abrasion. Pipe wall gouges deeper than 3/16-inch may be cause for rejection of the pipe.
- 4. Cap pipe sections longer than single joint (usually 40 feet) on both ends during placement except during fusing operations.
- 5. Remove dirt or debris from inside of pipe before backfilling.
- Notify ENGINEER prior to installing pipe into trench and allow time for observation. CONTRACTOR shall correct irregularities identified during observation.
- 7. Complete connections within trench whenever possible to prevent overstressed connections.
- 8. Allow pipe sufficient time to adjust to trench temperature prior to testing, fusion welding, making segment connections, or backfilling activity.
- 9. To reduce branch saddle stress, install saddles at slope equal to and continuous with connecting pipe.
- 10. Install reducers adjacent to laterals and tees unless directed otherwise.
- 11. Place pipe system in trench allowing at least 12 in./100 ft. for thermal contraction and expansion.
- 12. Trench and backfill soil in accordance with Specification Section 02565.

3.2 PIPE TESTING

A. CONTRACTOR shall perform a pneumatic test of the non-perforated pipe and fittings, with the exception of the 50-feet of solid pipe installed in the horizontal collection trenches, after placement in the trench, in accordance with manufacturer's recommendations.

- B. Pipes shall be pressure tested in presence of ENGINEER. Provide adequate notice to ENGINEER before performing test.
- C. Pneumatic testing shall be performed as follows:
 - 1. The test period at the test pressure shall last no more than 10 minutes.
 - 2. Provide all necessary connections, bulkheads, flanges, bracing, and blocking, as well as all required test equipment.
 - 3. Test pressure gauge shall have a recommended range of 20 psig, with minor gradations no greater than 0.1 psig.
 - 4. Pipe to be tested shall be exposed in the trench, except bends, reduced pressure rated fittings and components, which shall be buried or restrained. Flange connections shall be visible to check for leaks.
 - 5. Test pressure shall be 10 psig.
 - 6. Acceptance
 - a. Test shall be accepted if the pressure drop over 10 minutes is less than 5 percent of the pressure at the beginning of the test period.

D. Test Report

- ENGINEER shall prepare and submit to OWNER a test report using the attached forms for each pipe system tested. Include following information in test report.
 - Date of test.
 - b. Description and identification of pipe system tested.
 - c. Type of test performed.
 - d. Test fluid.
 - e. Test pressure.
 - f. Results of test.
 - g. Type and location of leaks detected.
 - h. Corrective action taken to repair leaks.
 - i. Results of retesting.
 - j. Name of person performing test.

[END OF SECTION 15210]

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ATTACHMENT 1 TO SECTION 15210 PIPE PRESSURE AIR TEST LOG

| | | Project No.: | | |
|-----------------------------------|---|---|--|--|
| SANBORN HEAD | | Project Name: | | |
| | | | | |
| | | Project Location: Weather: | | |
| Contractor: | | Test No.: | | |
| SHA Personnel: | | Person/Company Perform | ning the Test | |
| Date of Test: | | Time of Test: | Finish: | |
| Pipe Length: ~ ft. | Pipe Diameter: | Pipe Material: | Pipe SDR/Sch.: | |
| Rated Working Press | ure: | Test Pressure: psi | | |
| Location/designation | of pipe tested: | | | |
| t Time (min.) | T Pipe Temperature (°C) | P _t Pressure Gauge Reading (psig) | P _c Pressure Drop (%) | |
| 0 | | | | |
| 5 | | | | |
| 10 | | | | |
| 15 | | | | |
| 30 | | | | |
| 60 | | | | |
| Pass | Fail | Retest? Yes | No | |
| Description of leaks a | nd repairs of retested pipe | e segments: | | |
| P _c = Percent Pressure | Drop $\frac{P_o - P_t}{P_o} \times 100$ | P_o = Initial Pressure Ga P_t = Pressure Gauge Re | | |
| Comments: | | | | |
| | | Signature: | | |

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SECTION 15212

POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. Supply polyvinyl chloride (PVC) Schedule 80 pipe and fittings as shown on the Drawings.

1.2 SUBMITTALS

A. Submit to ENGINEER manufacturer's technical product data and installation instructions for PVC pipe and fittings.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

- A. Pipe and fittings shall be manufactured from a PVC compound which meets the requirements of Cell Classification 12454-B polyvinyl chloride as outlined in ASTM D 1784.
- B. PVC pipe used in the construction of landfill gas extraction system shall meet the requirements of ASTM D 1784 and ASTM D 1785 for Schedule 80 PVC pipe.
- C. PVC fittings used in the construction of landfill gas extraction system shall meet the requirements of ASTM D 2464 and ASTM D 2467.
- D. All PVC cements shall meet the requirements of ASTM D 2564 for solvent cemented PVC joints.
- E. Clean rework or recycle material generated by the manufacturer's own production may be used so long as the pipe or fittings produced meet all the requirements of this Section.
- F. Fittings shall be industrial, heavy duty, hub style.
- G. Socket fittings shall be pressure rated the same as the corresponding size pipe prescribed by ASTM D 1785. Threaded fittings shall be pressure rated to at least 50 percent of the rating for socket fittings.

2.2 FLANGES

- A. Flanges shall be one piece solid design or two-part Van Stone type that use the tapered, serrated face and full face gasket technique for joining and are compatible with ANSI B16.5 Class 150 metal flanges.
- B. Flanges shall be pressure rated at 150 psi for water service at 73°F, non-shock and have a minimum burst requirement of 3.3 times the rated pressure.
- C. Bolts shall be zinc-plated ASTM A193, Grade B8M hex head, and nuts shall be zinc-plated ASTM A194, Grade 8M hex head.
- D. Gaskets shall be 1/8-inch thick, full face Viton or other similar materials approved by OWNER.

PART 3 - EXECUTION

3.1 PVC PIPE HANDLING

A. PVC pipe and pipe fittings shall be handled carefully in loading and unloading. They shall be lifted by hoists and lowered on skidways in such a manner as to avoid shock. Derricks, ropes, or other suitable equipment shall be used for lowering the pipe into well borings. Pipe and pipe fittings shall not be dropped or dumped.

3.2 PVC PIPE INSTALLATION

A. PVC pipe installation shall conform to the requirements of this Section, the manufacturer's recommendations, and as outlined in ASTM D 2774V.

3.3 JOINING OF PVC PIPES

- A. Pipes shall be joined in accordance with ASTM D 2855.
- B. Pipe shall be inspected for cuts, scratches, or other damages prior to installation. Pipe with imperfections shall not be used.
- C. Burrs, chips, etc., shall be removed from pipe interior and exterior.
- D. Loose dirt and moisture shall be wiped from the interior and exterior of the pipe end and the interior of the fitting.
- E. Pipe cuts shall be square and perpendicular to the center line of pipe.
- F. A coating of CPS primer, as recommended by pipe supplier, shall be applied to the entire interior surface of the fitting socket, and to an equivalent area on the exterior of the pipe prior to applying solvent cement.

- G. The solvent cement shall comply with the requirements of ASTM D 2564 and shall be applied in strict accordance with manufacturer's specifications.
- H. Pipe and pipe fittings shall be selected so that there will be as small a deviation as possible at the joints, and so that inverts present a smooth surface. Pipe and fittings that do not fit together to form a tight fitting shall be rejected.

[END OF SECTION 15212]

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Construction Quality Assurance Plan Second Elevation LFG System Expansion Landfill Gas Extraction System

Juniper Ridge Landfill Old Town, Maine

Prepared for

NEWSME Landfill Operations, LLC

Old Town, Maine

Prepared by
Sanborn, Head & Associates, Inc.
20 Foundry Street
Concord, New Hampshire

File 2536.26 February 2014



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1.0 INTRODUCTION

This Construction Quality Assurance (CQA) Plan addresses the quality assurance activities specific to the installation of landfill gas (LFG) extraction systems components at the NEWSME Landfill Operations LLC (NEWSME) Juniper Ridge Landfill. In the context of this Plan, quality assurance refers to means and actions employed to assure that the components of the LFG extraction system are installed in accordance with the drawings and specifications. Quality assurance is provided by a party independent from the Contractor. Quality control refers to those actions taken by the contractor and the manufacturers to ensure that materials and workmanship meet the requirements of the drawings and specifications.

The scope of this CQA Plan applies to manufacturing, shipment, handling, and installation of LFG extraction system components. The CQA Plan does not address design guidelines, installation specifications, or selection of the components. The specifications define the quality of materials and workmanship to be used and employed. The CQA Plan defines the means to assure that the level of material and workmanship used in the construction meets or exceeds the requirements of the drawings and specifications.

2.0 PARTIES

2.1 Project Manager

The Project Manager is an official representative of NEWSME and is responsible for construction project. The Project Manager coordinates the project meetings as defined in Section 3.0, and serves as a liaison between all parties involved in the project. The Project Manager is also responsible for proper resolution of quality assurance issues that arise during construction.

2.2 Design Engineer

The Design Engineer is the individual and/or firms responsible for the preparation of the design, including drawings and specifications. The Engineer is responsible for approving all changes to the drawings and specifications, and for making design clarifications during construction. The Engineer may attend the pre-construction meeting and progress meetings as requested by the Project Manager. At the completion of the construction, the Design Engineer will prepare record drawings based on as-built information provided by the CQA Engineer.

2.3 CQA Engineer

The CQA Engineer is either a qualified representative of NEWSME, or a representative of an engineering firm, independent of NEWSME, that is experienced in observing and documenting construction. The number of CQA Engineer personnel needed on site at a given time will be decided by the Contractor's schedule.

The CQA Engineer is responsible for observing and documenting the construction activities as defined in this CQA Plan. Specific duties of the CQA Engineer personnel include:

- Reviewing the drawings and specifications, and all modifications thereto;
- Reviewing other project-specific documentation, including proposed layouts, and manufacturer and Contractor literature;
- Documenting construction operations using field reports, logs, and/or photographs;
- Attending project meetings;
- Noting on-site activities that could result in damage and/or delays;
- Reporting unapproved construction deviations to the Project Manager;
- Verifying that the contractor is obtaining as-built survey information as required by this plan, the drawings, and specifications; and
- Preparing a construction documentation report.

3.0 COMMUNICATION

3.1 Pre-Construction Meeting

A pre-construction meeting should be held at the site prior to the start of construction. Typically, the meeting is to be attended by the Project Manager and representatives of the Design Engineer, CQA Engineer, and Contractor. Specific agenda topics for meeting include:

- Review of the project team members, and their roles and responsibilities;
- Review of the site-specific safety and security requirements;
- Review of the project design components and goals; and
- Review of construction schedule.

The meeting shall be documented by the Project Manager or his designee.

3.2 Progress Meetings

Progress meetings should be held with the Project Manager and representatives of the Contractor, CQA Engineer, and other parties invited by the Project Manager. The agenda for the progress meetings should include a discussion of:

- Current progress;
- Planned activities for the next week;
- Issues requiring resolution; and
- New business.

The Project Manager, or his designee, should document the meetings, specifically noting problems and decisions. If any matter remains unresolved at the end of this meeting, then the Project Manager is responsible for assuring that the matter is resolved and the resolution is communicated to the appropriate parties.

4.0 DOCUMENTATION

The CQA Engineer is responsible for providing the Project Manager with documentation that clearly and succinctly describes the construction activities and the locations of the constructed components. A complete file of the construction documentation should be maintained on site. Documentation consists of daily reports, test reports, as-built survey, and the Construction Documentation Report.

4.1 Daily Reports

A report and/or log should be prepared for each day construction is performed. The report and/or log should document the construction and monitoring activities performed that day, identifying problems encountered and remedial action taken. Documentation should include the equipment used, the work force provided including subcontractors. The report and/or log should be completed at the end of the work day, prior to the CQA Engineer leaving the site.

4.2 Testing Reports

On-site testing of pressure pipe shall be reported on an appropriate Test Report Log. Test reports shall be submitted along with the daily report.

4.3 As-Built Survey

The CQA Engineer is responsible for verifying that the Contractor as-built survey is correct and accurate. In addition, the CQA Engineer is responsible for documenting changes to the construction details. As-built survey drawings are to include horizontal and vertical locations of trench end points, landfill gas extraction wells, and well heads. The Contractor is responsible for recording changes to pertinent details and supplying this information to the CQA Engineer. The CQA Engineer will forward the as-built survey and changes to the construction details to the Design Engineer, who will prepare the record drawings to be included in the CQA Engineer's Construction Documentation Report.

4.4 Construction Documentation Report

The CQA Engineer is responsible for preparing a report that documents the construction activities and includes the record drawings prepared by the Design Engineer. The report should include the following:

- Parties and personnel involved with the project;
- Seal and signature of a professional engineer licensed in the State of Maine;
- Record drawings, sealed and signed by a professional engineer licensed in the State of Maine;



- Written clarifications and interpretations of the specifications;
- Change Orders to the design;
- Minutes from pertinent meetings;
- Copies of the pertinent CQA records (e.g., contractor submittals; pipe test logs; and daily reports); and
- Photographs.

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ATTACHMENT E Facility Inspection Reports

| INSPECTION MONTH YEAR: Jan 2013 | INSPECTION DATE: 1/31/13 |
|---------------------------------|-------------------------------|
| NAME OF INSPECTOR: | Summary of weekly inspections |

| INSPECTION ITEM | INSPECTED | NEEDS ACTION |
|--|--|---------------------------------------|
| DESCRIPTION | NO ACTION TAKEN | |
| OPERATIONS | (place a check mark in | the appropriate column) |
| Access roads clear and free of debris | 1 | are appropriate column) |
| Active disposal area size minimized | 10 | |
| Daily cover materials being utilized | | · · · · · · · · · · · · · · · · · · · |
| Litter being controlled & collected as needed | | 10 |
| Dust being minimized | | |
| Tracking of wastes outside of cell being controlled | | |
| Waste setback from berms | | |
| Leachate controlled & contained in cells | | <u> </u> |
| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | | |
| Fire prevention & control measures in-place | | <u></u> |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | CAPTURE CHARACTER TO | |
| Build-up of sediment in wetwells | | <u> </u> |
| Pumps & valves functioning properly | | · |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| low meter inspection | | |
| Manholes intact and serviceable | | · |
| EACHATE STORAGE & DISPOSAL | A Same Company of the super | |
| nspection of leachate storage pond & level | | |
| Any signs of leachate seeps | | |
| Inderdrain system monitoring being performed | | <u> </u> |
| nspection of loading rack system & drain | , | |
| eachate forcemain system | | _ |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | |
| Signs of erosion | | <u> </u> |
| Check dams | | |
| Detention ponds | | · · · · · · · · · · · · · · · · · · · |
| ilt fences installed properly | | |
| Check roadway ditches for erosion | | <u> </u> |
| ACTIVE GAS COLLECTION SYSTEM | | |
| ondensate knockout system | | |
| ondition of wellheads ok | | · · · · · · · · · · · · · · · · · · · |
| resence of leakage on assembly | | <u> </u> |
| loise/vibration in the motor or blower | | <u> </u> |
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Distribution: General Manager PCE Manager

| INSPECTION MONTHLYEAR: Feb 2013 | INSPECTION DATE: 2/28/13 |
|---------------------------------|--------------------------------|
| NAME OF INSPECTOR: Jerenyl | summary of week by inspections |

| INSPECTION ITEM | INCOECTED | NEEDO ACTION |
|--|---------------------------|--|
| DESCRIPTION | INSPECTED NO ACTION TAKEN | NEEDS ACTION |
| OPERATIONS | | (See Comments) |
| Access roads clear and free of debris | | the appropriate column) |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | | |
| Litter being controlled & collected as needed | | |
| Dust being minimized | WASH. | - Wind Show |
| Tracking of wastes outside of cell being controlled | <u> </u> | |
| Waste setback from perms | | |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | <u> </u> | |
| | | |
| Vector control measures in-place (birds, rats, etc.) | | <u> </u> |
| Fire prevention & control measures in-place | <i>L</i> | |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | <u>. </u> |
| Pumps & valves functioning properly | | <u> </u> |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| Flow meter inspection | / | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | 引用工作的复数 化马米马斯 |
| Inspection of leachate storage pond & level | | - |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | | |
| Inspection of loading rack system & drain | | <u> </u> |
| Leachate forcemain system | | |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | , | |
| Drainage ditches clear and flowing | | |
| Signs of erosion | | V 0 |
| Check dams | | |
| Detention ponds | 100 | |
| Silt fences installed properly | 1 | · . |
| Check roadway ditches for erosion | | |
| 7 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 | | |
| Condensate knockout system | | |
| Condition of wellheads ok | | · |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | | VQ |
| Maintenance up-to-date | | <u> </u> |
| Condition of igniter system | | |
| Plumbness of stack | | |
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| And Chick Chick As a light to As a light to the control of the con | <u> </u> | <u>in kalang ditaban sa pendi</u> |

¹⁾ SICM 1055 due to wind, needs to be repaired in spring

²⁾ Slight vibration in blover A, will continue to mondor

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Distribution: General Manager PCE Manager

| INSPECTION DATE: 3/26/13 |
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| OPERATIONS | | the appropriate column) |
| Access roads clear and free of debris | | T |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | 1/ | · · |
| Litter being controlled & collected as needed | 1 | 10 |
| Dust being minimized | | V 100 |
| Tracking of wastes outside of cell being controlled | | - |
| Waste setback from berms | | |
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| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | | |
| Fire prevention & control measures in-place | | |
| Adequate working equipment onsite | | , |
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| Build-up of sediment in wetwells | 1/ | The state of the s |
| Pumps & valves functioning properly | 1.0 | |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
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| Flow meter inspection | | |
| Manholes intact and serviceable | | l etyt flan stustäviškom ko |
| LEACHATE STORAGE & DISPOSAL | <u> </u> | <u> </u> |
| Inspection of leachate storage pond & level | | |
| Any signs of leachate seeps | <u> </u> | |
| Underdrain system monitoring being performed | | |
| Inspection of loading rack system & drain | | |
| Leachate forcemain system | | |
| STORMWATER COLLECTION & CONTROL SYSTEM | V/S , <u>dv. Av. dv. uv. uv. d. d.</u> | volen et gestifft offic of West, in |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | V 3 |
| Signs of erosion | V | · · · |
| Check dams | | ··· , <u>.</u> |
| Detention ponds | | |
| Silt fences installed properly | <u> </u> | |
| Check roadway ditches for erosion | | 1 0 1 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 |
| ACTIVE GAS COLLECTION SYSTEM | | |
| Condensate knockout system | | |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | · · | |
| Maintenance up-to-date | Commission of the Commission o | |
| Condition of igniter system | - Indiana | |
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Distribution: General Manager PCE Manager

| INSPECTION MONTH/YEAR: Apr 2013 | INSPECTION DATE: 4/26/13 |
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| DESCRIPTION | NO ACTION TAKEN | |
| OPERATIONS | (place a check mark in | tne appropriate column) |
| Access roads clear and free of debris | | <u> </u> |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | | |
| Litter being controlled & collected as needed | | |
| Dust being minimized | | · |
| Tracking of wastes outside of cell being controlled | | |
| Waste setback from berms | | |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | <u> </u> | |
| Fire prevention & control measures in-place | <i></i> | |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | - |
| Pumps & valves functioning properly | | - |
| Flow conditions | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| Flow meter inspection | | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | 1/ | |
| Inspection of loading rack system & drain | | |
| Leachate forcemain system | | · |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | |
| Signs of erosion | <u> </u> | <u>i/(2)</u> |
| Check dams | 1- | |
| Detention ponds | | 1/(3) |
| Silt fences installed properly | 1.0 | |
| Check roadway ditches for erosion | | |
| ACTIVE GAS COLLECTION SYSTEM | | A real diverging of the regularity of the street, |
| Condensate knockout system | | |
| Condition of wellheads ok | 1 1 | |
| Presence of leakage on assembly | 1 1 | |
| Noise/vibration in the motor or blower | | |
| Maintenance up-to-date | | |
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3 STCM amendy being repaired on north & west sites

3 Some litter in sept panel 9

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Distribution: General Manager PCE Manager

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| INSPECTION MONTHLYEAR: ACET 2013 | INSPECTION DATE: 5/16/13 |

NAME OF INSPECTOR: Josephy Labbe

| | ACTION |
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| DESCRIPTION OPERATIONS (place a check mark in the appropria Access roads clear and free of debris Active disposal area size minimized Daily cover materials being utilized Litter being controlled & collected as needed Dust being minimized Tracking of wastes outside of cell being controlled Waste setback from berms Leachate controlled & contained in cells Odor control measures in-place Vector control measures in-place (birds, rats, etc.) Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| OPERATIONS (place a check mark in the approprial Access roads clear and free of debris Active disposal area size minimized Daily cover materials being utilized Litter being controlled & collected as needed Dust being minimized Tracking of wastes outside of cell being controlled Waste setback from berms Leachate controlled & contained in cells Odor control measures in-place Vector control measures in-place (birds, rats, etc.) Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | omments) |
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| Waste setback from berms Leachate controlled & contained in cells Odor control measures in-place Vector control measures in-place (birds, rats, etc.) Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Odor control measures in-place Vector control measures in-place (birds, rats, etc.) Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Vector control measures in-place (birds, rats, etc.) Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Fire prevention & control measures in-place Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Adequate working equipment onsite LEACHATE MANAGEMENT Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Build-up of sediment in wetwells Pumps & valves functioning properly Flow conditions | |
| Pumps & valves functioning properly Flow conditions | |
| Flow conditions | |
| | |
| Pump station vented properly | |
| | |
| Electrical panel inspection | _ |
| Flow meter inspection | |
| Manholes intact and serviceable | |
| LEACHATE STORAGE & DISPOSAL | |
| Inspection of leachate storage tank & level | |
| Any signs of leachate seeps | |
| Underdrain system monitoring being performed | i |
| Inspection of loading rack system & drain | |
| Leachate forcemain system | |
| STORMWATER COLLECTION & CONTROL SYSTEMS | |
| Check outlet structures for condition | |
| Drainage ditches clear and flowing | ••• |
| Signs of erosion | |
| Check dams | |
| Detention ponds | |
| Silt fences installed properly | |
| Check roadway ditches for erosion | |
| ACTIVE GAS COLLECTION SYSTEM | |
| Condensate knockout system | |
| Condition of wellheads ok | |
| Presence of leakage on assembly | |
| Noise/vibration in the motor or blower | |
| Maintenance up-to-date | |
| Condition of igniter system | |
| Plumbness of stack | |
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| VIEW BY ENVIRONMENTAL COMPLIANCE | E MANAGER: | | | |

Distribution: General Manager PCE Manager

| INSPECTION MONTHLYEAR: Jun 2013 | INSPECTION DATE: 6/25/13 |
|---------------------------------|------------------------------|
| NAME OF INSPECTOR: Jeromy L | summony of weekly inspediens |

| NAME OF INSPECTOR: SEEMEL | | 9 |
|--|-----------------|--|
| INSPECTION ITEM | INSPECTED | NEEDS ACTION |
| DESCRIPTION | NO ACTION TAKEN | (See Comments) |
| OPERATIONS | | the appropriate column) |
| Access roads clear and free of debris | 31, | 10 |
| Active disposal area size minimized | V | |
| Daily cover materials being utilized | السما | |
| Litter being controlled & collected as needed | ~ | |
| Dust being minimized | V | |
| Tracking of wastes outside of cell being controlled | | |
| Waste setback from berms | V | |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | <i>-</i> | |
| Vector control measures in-place (birds, rats, etc.) | V | |
| Fire prevention & control measures in-place | | |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | 1 | A CASE TO SERVICE AND ADDRESS OF THE SERVICE AND |
| Pumps & valves functioning properly | 1/ | - |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| Flow meter inspection | | " |
| Manholes intact and serviceable | | · |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | ETEROPE TO THE COLUMN TO THE HELD OF THE |
| Any signs of leachate seeps | | · |
| Underdrain system monitoring being performed | | <u> </u> |
| Inspection of loading rack system & drain | | 1/3 |
| Leachate forcemain system | | <u> </u> |
| STORMWATER COLLECTION & CONTROL SYSTEM | VIS | |
| Check outlet structures for condition | | <u> </u> |
| Drainage ditches clear and flowing | | |
| Signs of erosion | | - |
| Check dams | | · <u> </u> |
| Detention ponds | | <u> </u> |
| Silt fences installed properly | | |
| Check roadway ditches for erosion | i | ··· |
| ACTIVE GAS COLLECTION SYSTEM | | |
| Condensate knockout system | 1 | <u>rangan kabupat dalah di kabupat</u> |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | · |
| Noise/vibration in the motor or blower | | √ ③) |
| Maintenance up-to-date | | |
| Condition of igniter system | <u> </u> | |
| Plumbness of stack | | · |
| Figurial less of stack | | an en |
| CO ON THE RESIDENCE OF THE PROPERTY OF THE PRO | | |

| (i) | Dinton | roodways | to be swept |
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⁽³⁾ Wibration on blower A, will continue to minder

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| VIEW BY ENVIRONMENTAL C | OMPLIANCE MA | ANAGER: | |
| | | 1 1 111 | |
| | | 111111 | 6/25/13 |
| | | Signature | <u> </u> |

Distribution: General Manager PCE Manager

| INSPECTION MONTHLYEAR: Jul 2013 | INSPECTION DATE: 7/23/13 |
|---------------------------------|-------------------------------|
| NAME OF INSPECTOR:_ Terening L | Summony of reakly Inspections |

| INSPECTION ITEM DESCRIPTION | INSPECTED NO ACTION TAKEN | NEEDS ACTION (See Comments) |
|--|---|--|
| OPERATIONS | (place a check mark in t | |
| Access roads clear and free of debris | | VD |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | | |
| Litter being controlled & collected as needed | ···· | V(i) |
| Dust being minimized | | - V V) |
| Tracking of wastes outside of cell being controlled | | . |
| Waste setback from berms | | <u></u> |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | | |
| Fire prevention & control measures in-place | | " |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | |
| Pumps & valves functioning properly | | |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | 1/ | |
| Flow meter inspection | | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | to a control and the second section |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | | |
| Inspection of loading rack system & drain | | |
| Leachate forcemain system | | • |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | ,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | A CONTRACTOR OF THE STATE OF TH |
| Drainage ditches clear and flowing | | |
| Signs of erosion | | |
| Check dams | | |
| Detention ponds | | |
| Silt fences installed properly | | |
| Check roadway ditches for erosion | | <u></u> |
| ACTIVE GAS COLLECTION SYSTEM | | |
| Condensate knockout system | | |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | | |
| Maintenance up-to-date | | |
| Condition of igniter system | | |
| Plumbness of stack | | · |
| Plumbness of stack | · · · · · · · · · · · · · · · · · · · | |

COMMENTS ON NON-COMPLIANT CONDITIONS: REVIEW BY ENVIRONMENTAL COMPLIANCE MANAGER: Signature Signature

Distribution: General Manager

PCE Manager

| INSPECTION MONTHLYEAR: Aug 2013 | INSPECTION DATE: 8/29/3 |
|---------------------------------|-------------------------|
| NAME OF INSPECTOR: Teremy L | Summany of weakly Insp. |

| INSPECTION ITEM | INSPECTED | NEEDS ACTION |
|--|-----------------|--|
| DESCRIPTION | NO ACTION TAKEN | to the following for a contract to the |
| OPERATIONS | | the appropriate column) |
| Access roads clear and free of debris | | are appropriate columny : |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | | <u> </u> |
| Litter being controlled & collected as needed | | |
| Dust being minimized | | (O) |
| Tracking of wastes outside of cell being controlled | | |
| Waste setback from berms | | |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | | |
| Fire prevention & control measures in-place | | |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | |
| Pumps & valves functioning properly | | |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| Flow meter inspection | | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | <i>\'\'</i> | |
| nspection of loading rack system & drain | ~ | |
| Leachate forcemain system | | |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | |
| Signs of erosion | | |
| Check dams | | |
| Detention ponds | | |
| Silt fences installed properly | | <u> </u> |
| Check roadway ditches for erosion | | |
| ACTIVE GAS COLLECTION SYSTEM | | |
| Condensate knockout system | <u> </u> | ··· |
| Condition of wellheads ok | V | <u></u> . |
| Presence of leakage on assembly | 1 | |
| Noise/vibration in the motor or blower | - V | <u> </u> |
| Maintenance up-to-date | | |
| Condition of igniter system | | · |
| Plumbness of stack | | |

| 1 Dusty around road | ways - | will water | - Morduous | |
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| VIEW BY ENVIRONMENTAL COMPL | IANCE MAN | AGER: | | |

Distribution: General Manager PCE Manager

| INSPECTION MONTH YEAR: 1 203 | INSPECTION DATE: 9/26/13 |
|------------------------------|--------------------------|
| NAME OF INSPECTOR: Teremy L | Som many of weekly Insp. |

| INSPECTION ITEM | INSPECTED | NEEDS ACTION |
|--|--|-------------------------|
| DESCRIPTION | NO ACTION TAKEN | |
| OPERATIONS | (place a check mark in | the appropriate column) |
| Access roads clear and free of debris | | |
| Active disposal area size minimized | | |
| Daily cover materials being utilized | V | |
| Litter being controlled & collected as needed | | |
| Dust being minimized | | |
| Tracking of wastes outside of cell being controlled | | <u> </u> |
| Waste setback from berms | | |
| Leachate controlled & contained in cells | | |
| Odor control measures in-place | | |
| Vector control measures in-place (birds, rats, etc.) | V | |
| Fire prevention & control measures in-place | <i>V</i> | |
| Adequate working equipment onsite | <u> </u> | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | |
| Pumps & valves functioning properly | | 1/2 |
| Flow conditions | <i></i> | |
| Pump station vented properly | - L | |
| Electrical panel inspection | <u> </u> | |
| Flow meter inspection | └ | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | <i>L</i> 3 | |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | | |
| Inspection of loading rack system & drain | \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| Leachate forcemain system | <i>j</i> | |
| STORMWATER COLLECTION & CONTROL SYST | EMS | |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | _ |
| Signs of erosion | | V(3) |
| Check dams | <i></i> | <u> </u> |
| Detention ponds | | |
| Silt fences installed properly | | |
| Check roadway ditches for erosion | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| ACTIVE GAS COLLECTION SYSTEM | | |
| Condensate knockout system | | |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | 1 | |
| Maintenance up-to-date | | |
| Condition of igniter system | | |
| Plumbness of stack | <u> </u> | |
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| 1) some fines trooked | will be suppt up |
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| (3) Sed Pond 5 project u | inderway - ECM's in place (Moine BM9's) |
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| EVIEW BY ENVIRONMENTAL COMPLIANCE M | IANAGER: |
| | 1 11 |
| | Signature Date |

Distribution: General Manager PCE Manager

| INSPECTION MONTHLYEAR: Oct 2013 | INSPECTION DATE: 10/31/13 |
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| NAME OF INSPECTOR: Sereny L | Summary of weekly Englections |

| INSPECTION ITEM | INSPECTED | NEEDS ACTION |
|---|--|--|
| DESCRIPTION | NO ACTION TAKEN | la contra di distributi e di contra di sulla di |
| | | |
| OPERATIONS | (place a check mark in t | ne appropriate column) |
| Access roads clear and free of debris | | |
| Active disposal area size minimized | | <u> </u> |
| Daily cover materials being utilized | | |
| Litter being controlled & collected as needed | | VO |
| Dust being minimized | | |
| Tracking of wastes outside of cell being controlled Waste setback from berms | | |
| Leachate controlled & contained in cells | | |
| | | |
| Odor control measures in-place | | " |
| Vector control measures in-place (birds, rats, etc.) | 1 | |
| Fire prevention & control measures in-place | - | |
| Adequate working equipment onsite | | and the second of the second o |
| LEACHATE MANAGEMENT | | e fergio i di Colonio di grati di Riccia di Calendo di |
| Build-up of sediment in wetwells | | |
| Pumps & valves functioning properly | <u> </u> | <u> </u> |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | | |
| Flow meter inspection | + <u> </u> | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | |
| Any signs of leachate seeps | | • • |
| Underdrain system monitoring being performed | | |
| Inspection of loading rack system & drain | | |
| Leachate forcemain system | | - · · · · · · · · · · · · · · · · · · · |
| STORMWATER COLLECTION & CONTROL SYST | EMS | |
| Check outlet structures for condition | | |
| Drainage ditches clear and flowing | | (5) |
| Signs of erosion | | VQ) |
| Check dams | | |
| Detention ponds | | |
| Silt fences installed properly | | |
| Check roadway ditches for erosion | | |
| ACTIVE GAS COLLECTION SYSTEM | | <u> Vinithiin kaantiin ky</u> |
| Condensate knockout system | | |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | | |
| Maintenance up-to-date | | |
| Condition of igniter system | | |
| Plumbness of stack | 1 / 1 | |

| 1 Litter by cell 8, bei | na pidledup | |
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| HENRY BY ENNIRONMENTAL COMPLEXA | | |
| VIEW BY ENVIRONMENTAL COMPLIANCE | : MANAGER: | |
| | mule | 10/31/13 |

Distribution: General Manager PCE Manager

| INSPECTION MONTH/YEAR: Nov 2013 INSPECTION DATE: (1/26/13 | |
|---|--|
|---|--|

NAME OF INSPECTOR: Jeens

| INSPECTION ITEM DESCRIPTION | INSPECTED NO ACTION TAKEN | NEEDS ACTION (See Comments) |
|--|---------------------------|--|
| OPERATIONS | (place a check mark in t | |
| Access roads clear and free of debris | | |
| Active disposal area size minimized | 1/ | |
| Daily cover materials being utilized | | |
| Litter being controlled & collected as needed | | - |
| Dust being minimized | | |
| Tracking of wastes outside of cell being controlled | 1 | |
| Waste setback from berms | | |
| Leachate controlled & contained in cells | 1 | |
| Odor control measures in-place | <u> </u> | • |
| Vector control measures in-place (birds, rats, etc.) | <u> </u> | |
| Fire prevention & control measures in-place | 1/ | · |
| Adequate working equipment onsite | | |
| LEACHATE MANAGEMENT | | |
| Build-up of sediment in wetwells | | |
| Pumps & valves functioning properly | | |
| Flow conditions | | |
| Pump station vented properly | | |
| Electrical panel inspection | 1 | |
| Flow meter inspection | | |
| Manholes intact and serviceable | | |
| LEACHATE STORAGE & DISPOSAL | | |
| Inspection of leachate storage pond & level | | |
| Any signs of leachate seeps | | |
| Underdrain system monitoring being performed | 1 1- | · |
| Inspection of loading rack system & drain | | - |
| Leachate forcemain system | | |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | |
| Check outlet structures for condition | | <u> </u> |
| Drainage ditches clear and flowing | | |
| Signs of erosion | 100 | |
| Check dams | | |
| Detention ponds | 1 | (1) |
| Silt fences installed properly | | |
| Check roadway ditches for erosion | | |
| ACTIVE GAS COLLECTION SYSTEM | | and the second of the first second of the firs |
| Condensate knockout system | | <u> </u> |
| Condition of wellheads ok | | |
| Presence of leakage on assembly | | |
| Noise/vibration in the motor or blower | | · · · · |
| Maintenance up-to-date | | |
| Condition of igniter system | | |
| Plumbness of stack | | |
| riumbiless of stack | <u> </u> | ing in the second of the second |

COMMENTS ON NON-COMPLIANT CONDITIONS: REVIEW BY ENVIRONMENTAL COMPLIANCE MANAGER: MMe

Distribution: General Manager PCE Manager

| INSPECTION MONTHLYEAR: Dec 2013 | INSPECTION DATE: 12/27/13 |
|---------------------------------|---------------------------|
| NAME OF INSPECTOR: Termi | |

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|--|--------------------------|--|--|
| INSPECTION ITEM | INSPECTED | NEEDS ACTION | |
| DESCRIPTION | NO ACTION TAKEN | (See Comments) | |
| OPERATIONS | (place a check mark in t | he appropriate column) | |
| Access roads clear and free of debris | 16 | | |
| Active disposal area size minimized | | | |
| Daily cover materials being utilized | ν | | |
| Litter being controlled & collected as needed | ~ | | |
| Dust being minimized | | | |
| Tracking of wastes outside of cell being controlled | | | |
| Waste setback from berms | | | |
| Leachate controlled & contained in cells | | | |
| Odor control measures in-place | | · | |
| Vector control measures in-place (birds, rats, etc.) | | | |
| Fire prevention & control measures in-place | | | |
| Adequate working equipment onsite LEACHATE MANAGEMENT | | | |
| Build-up of sediment in wetwells | | <u> er first i de </u> | |
| Pumps & valves functioning properly | | | |
| Flow conditions | | | |
| Pump station vented properly | | | |
| Electrical panel inspection | | ** | |
| Flow meter inspection | | | |
| Manholes intact and serviceable | 1/ | | |
| LEACHATE STORAGE & DISPOSAL | | | |
| Inspection of leachate storage pond & level | | | |
| Any signs of leachate seeps | | | |
| Underdrain system monitoring being performed | | | |
| Inspection of loading rack system & drain | l~ | | |
| Leachate forcemain system | レ | | |
| STORMWATER COLLECTION & CONTROL SYSTE | MS | | |
| Check outlet structures for condition | | | |
| Drainage ditches clear and flowing | V | | |
| Signs of erosion | | | |
| Check dams | √ | | |
| Detention ponds | | | |
| Silt fences installed properly | V | | |
| Check roadway ditches for erosion | <u> </u> | | |
| ACTIVE GAS COLLECTION SYSTEM | | | |
| Condensate knockout system | | | |
| Condition of wellheads ok | | <u> </u> | |
| Presence of leakage on assembly | | · | |
| Noise/vibration in the motor or blower | | | |
| Maintenance up-to-date | | | |
| Condition of igniter system | | | |
| Plumbness of stack | | | |
| N. 1981 - 在选择。 整度的 10 元素 10 10 10 基本 | <u> </u> | | |

| Site looks pretty go | od lappy Haldays! | |
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| REVIEW BY ENVIRONMENTAL COMPLIANO | E MANACED. | |
| VENIEW BY EINVIRQUINDENTAL COMPLIANC | E IVIANAGER. | |

Distribution: General Manager PCE Manager

ATTACHMENT F Water Quality Monitoring Report

2013 ANNUAL WATER QUALITY REPORT JUNIPER RIDGE LANDFILL

Prepared for

NEWSME LANDFILL OPERATIONS, LLC

April 2014



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE



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2013 ANNUAL WATER QUALITY REPORT JUNIPER RIDGE LANDFILL NEWSME LANDFILL OPERATIONS, LLC

EXECUTIVE SUMMARY

During 2013, water quality samples were collected at the Juniper Ridge Landfill (JRL) in accordance with the Environmental Monitoring Program (EMP) during April, July, and October of 2013. Changes were made to the EMP as a result of Sevee & Maher Engineers, Inc. (SME) recommendations, as contained in the 2012 Annual Water Quality Report, to modify the EMP to align it with current site conditions and subsequent discussions with Maine Department of Environmental Protection (MEDEP). The changes included the addition and removal of monitoring locations and parameters of analysis. The majority of these changes were implemented beginning with the July sampling round.

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 2013 data indicate that the water quality has remained consistent with recent historical data. Samples from the landfill underdrains generally have low overall parameter concentrations, indicating they are not influenced by landfill leachate and verifying that the landfill liner systems are performing as designed.

As recommended by SME in the 2012 Annual Water Quality Report for JRL, in 2013 NEWSME Landfill Operations, LLC (NEWSME) completed several upgrades to site infrastructure, and investigations along the northwest side of the landfill to address water quality changes observed during the past several years at several monitoring locations on the northwest side of the landfill. These activities included:

 The re-construction of Detention Pond #5 to include a liner and phased treatment capabilities, including an initial phase sand filtration unit. Portions of the road and stormwater drainage ditches northwest of the landfill were also re-graded and paved to optimize the collection of stormwater runoff for treatment along the northwest perimeter of the landfill.

- NEWSME removed discolored soils exposed during the road and stormwater drainage ditch regrading in 2013. Soils were removed along the northwest perimeter of the landfill both in the access road sub-base gravels and in an area between the access road and the northern boundary of Cell 2. SME believes that the discolored soils were remnants of waste materials that had been deposited on the access road during use of Cells 1 and 2 by the prior owner, likely by truck tire tracking. This material may have contributed to the water quality changes observed at the monitoring locations on the northwest side of the landfill. These materials were removed and placed in the landfill during the summer of 2013.
- NEWSME exposed the anchor trench on the northern side of Cell 2 to evaluate if leachate had overtopped the landfill liner in this area. No indication of overtopping was observed.

These items should result in improvements to site water quality on the northwest side of the site over the next few years.

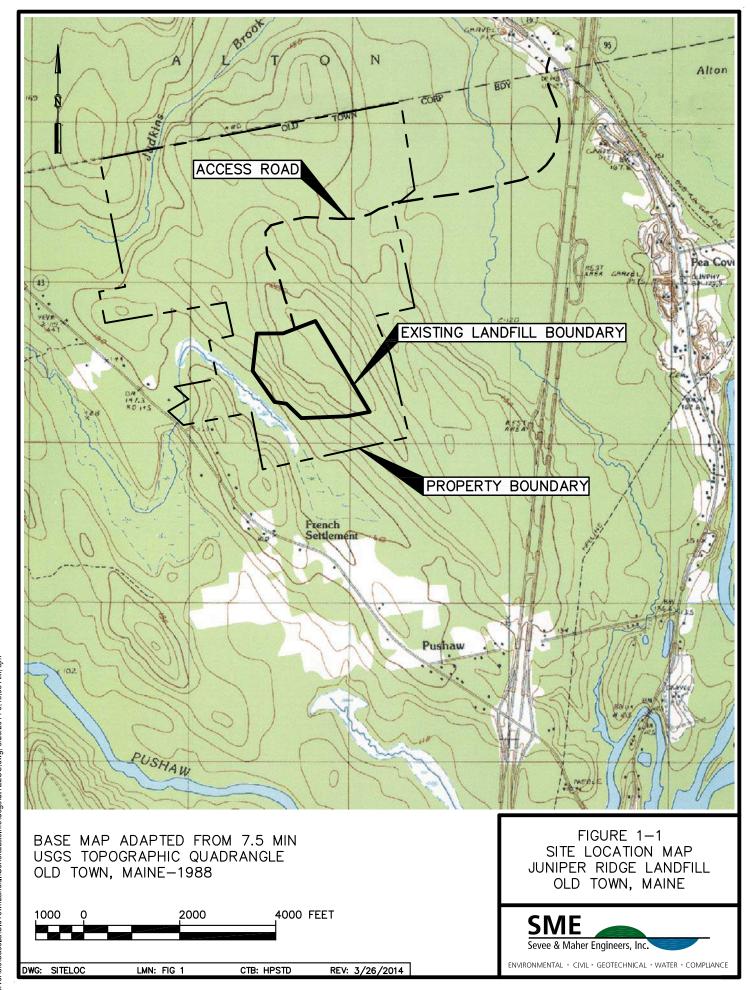
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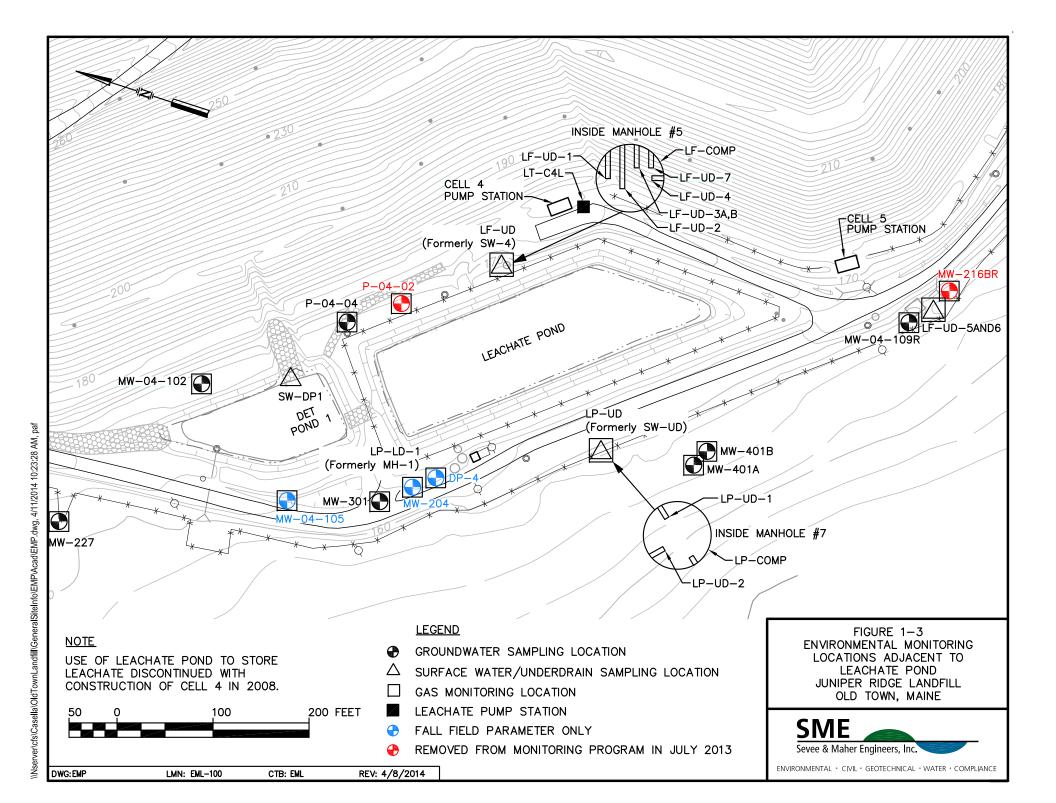
The Juniper Ridge Landfill (JRL), located in Old Town, Maine, is currently owned by the Maine Bureau of General Services (BGS) and is operated by NEWSME Landfill Operations, LLC (NEWSME). The JRL, formerly known as the West Old Town Landfill, was originally owned and operated by Georgia-Pacific (previously 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 Sevee and Maher Engineers Inc. (SME) entitled: *James River Paper Company Inc., West Old Town Landfill Project, Old Town Maine, Volume III, Site Investigation and Hydrogeologic Evaluation, August 1991*). Figure 1-1 shows the location of the site. Figures 1-2 and 1-3 show the general site layout and monitoring locations.

Water quality has been monitored at the site since 1990 when the site was first selected for the landfill. This report describes the results of the water quality sampling and analyses for 2013 and compares the results to historical water quality at the site and to State and Federal water quality standards. In 2013, changes were made to the Environmental Monitoring Plan (EMP) after discussion with Maine Department of Environmental Protection (MEDEP) about aligning the EMP to current site conditions. The changes included the addition and removal of monitoring locations and parameters of analysis. These changes were implemented beginning with the July sampling round. The 2013 data evaluation includes statistical and graphical evaluations of trends in the data by sample location. Description of the site setting, facility layout, monitoring locations, 2013 site activities, and analytical parameters are also included herein.

1.1 Landfill Conditions

The landfill has been 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 is collected and stored in an on-site storage tank, then transported to the Old Town Fuel & Fiber wastewater treatment facility for treatment. The City of Brewer's treatment facility is available as a back-up leachate disposal location.





The facility was originally permitted for the disposal of pulp and papermaking residuals (primarily wastewater treatment plant sludges) from the Old Town mill (then owned by James River), bottom ash from Lincoln Pulp & Paper, and burn pile ash from the City of Old Town transfer station. In addition to the waste streams historically disposed of at the landfill, the landfill is now permitted to receive non-hazardous waste streams including, but not limited to, construction and demolition debris, municipal solid waste, incinerator ash, sludges, contaminated soils, and other solid waste for which the facility has either blanket or individual permits.

To date, Cells 1, 2, 3A, 3B, 4, 5, 6, 7, and 8 have been constructed; this accounts for approximately 56 acres of the permitted 68-acre facility. The majority of the waste filling in 2013 occurred in Cell 8. As of December 2013, approximately 4,637,000 cubic yards of the site's permitted capacity remains. In 2013, there was no new landfill cell construction; however, intermediate cover was applied to several areas within the active landfill area. The other major site construction activity which occurred in 2013 was associated with the improvements to stormwater runoff collection and treatment along the northwest perimeter of the landfill. The improvements included re-construction of Detention Pond #5 with a liner and phased treatment capabilities, including an initial phase sand filtration unit. The reconstruction and paving of a portion of the northern access road and associated stormwater drainage ditches are intended to optimize the collection and treatment of stormwater runoff along the northwest perimeter of the landfill. In the process of completing this construction, discolored soils were observed both in the sub-base gravel soils under the access road, and in an area between the access road and the northern boundary of Cell 2. These discolored soils appeared to be the remnants of cell access roads and possible waste materials. These materials were removed and disposed of in the landfill. NEWSME also exposed the Cell 2 anchor trench on the northern side of Cell 2 to investigate the potential that leachate had overtopped the Cell 2 dike at the suggestion of the MEDEP. No indication that this had occurred was observed. The reconstruction of Detention Pond #5 and the paving of the access road were completed between August and October of 2013.

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 which 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, and, thus, the stream acts as a hydrologic boundary for groundwater flow from the landfill towards the west. The interpreted shallow groundwater phreatic surface and shallow bedrock groundwater potentiometric surface are shown in Figures 1-4 and 1-5. The 2013 groundwater level data are generally consistent with the data utilized to construct these figures.

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. In addition, there are several isolated, discontinuous washed till zones found beneath the till.

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. There are locations outside of the landfill

boundary where no soil is present and bedrock is exposed at the ground surface. This is the case on the northwestern corner of the site adjacent to stormwater Detention Pond #5.

Based on measured hydraulic conductivities at the site, horizontal hydraulic conductivities of the till vary between around 10⁻⁷ to around 10⁻⁵ cm/sec, resulting in estimated horizontal groundwater seepage rates from about 1 foot/year to about 40 feet/year. Slightly higher hydraulic conductivities were measured in the discontinuous washed till, which result in estimated localized horizontal groundwater seepage velocities ranging from 50 to 200 feet per year in the washed till. Measured hydraulic conductivities of the bedrock range from around 10⁻⁷ to upper 10⁻³ cm/sec, resulting in estimated horizontal groundwater seepage rates of less than 1 foot per day to 40 feet per day in the bedrock fractures.

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2.0 MONITORING LOCATIONS

2.1 2013 Monitoring Locations

In 2013, water quality samples were collected by SME from 22 groundwater monitoring wells, three pore-water sample locations, six surface water locations, seven¹ underdrain locations, one leak detection location, and two² leachate monitoring locations. These monitoring points are summarized in Table 2-1 and Table 2-2 and their locations are shown in 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 screened interval, is listed in Table 2-1. Groundwater, surface water, leachate, leak detection, and underdrain samples from the landfill site were collected in April, July, and October 2013. Measurement of field parameters (e.g., temperature and specific conductance) at the underdrain locations were completed on a monthly basis by NEWSME personnel. During 2013 there were several changes to the locations included in the groundwater monitoring program. The changes to the monitoring locations are discussed in the following sections.

2.2 Groundwater Locations

Monitoring wells MW-206, P-206A, MW11-207R, MW-212, MW-303R, and MW-304A are positioned upgradient of the landfill. Monitoring location P-206A was added to the monitoring program beginning in July 2013 as a new upgradient bedrock groundwater monitoring location. P-206A is located southeast of the landfill directly beside MW-206 in an area outside of the active site landfill area. Monitoring well MW-212 was removed from the monitoring program beginning during the July 2013 sampling event.

Monitoring locations MW-204, MW-216BR, MW-223A, MW-223B, MW-227, MW-301, MW-401A, MW-401B, MW-402A, MW-402B, and MW09-901 are positioned downgradient of the

¹ Three additional locations were not sampled due to dry conditions, including LF-UD-3A,B, LF-UD-7, and LP-UD-1. No composite samples were required to be taken at Manhole #5 and Manhole #7.

² Leachate samples were collected from two locations during 2013 due to a sampling location change following the April 2013 sampling round.

landfill. Monitoring well MW-216BR was removed from the monitoring program beginning during the October 2013 sampling event. Monitoring well MW-204 was removed from the monitoring program beginning with the July sampling event; however, MW-204 will continue to be sampled for field parameters during fall sampling events.

TABLE 2-1
2013 GROUNDWATER MONITORING LOCATIONS

| Monitoring Well | Position Relative to Landfill | Screen Depth Interval (feet-BGS) | Ground Surface Elevation (ft-MSL) | Screen Interval Elevation (ft-MSL) | 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 ² | Upgradient | 85.5 – 90.5 | 201.5 | 111.0 – 116.0 | Bedrock |
| MW11-207R | Upgradient | 39.5 – 44.5 | 212.5 | 173.0 – 168.0 | Bedrock |
| MW-212 ³ | Upgradient | 12.0 – 17.0 | 217.0 | 205.0 - 200.0 | Till |
| 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-304A | Upgradient | 29.5 – 39.5 | 214.7 | 185.2 – 175.2 | Bedrock |
| 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 ⁴ | Downgradient (In proximity of leachate pond) | 18.5 – 24.5 | 165.5 | 147.0 – 141.0 | Till |
| P-04-02 ⁵ | Downgradient (In proximity of leachate pond) | (32.11 – 37.11) | 166.1 | 136.6 – 131.6 | Till |
| P-04-04 | Downgradient (In proximity of leachate pond) | (27.21 – 32.21) | 166.7 | 142.1 – 137.1 | Till |
| MW04-102 | Downgradient (In proximity of leachate pond) | 10.0 – 15.0 | 167.0 | 157.0 – 152.0 | Till |
| MW04-105 ⁶ | Downgradient (In proximity of leachate pond) | 14.8 – 19.8 | 162.2 | 147.4 – 142.4 | Till |
| MW04-109R | Downgradient (In proximity of leachate pond) | 15.0 – 20.0 | 157.1 | 142.1 – 137.1 | Till |
| MW-216BR ⁷ | Downgradient | 14.6 – 19.6 | 156.2 | 141.6 – 136.6 | Till |
| MW09-901 | Downgradient | 15.0 – 20.0 | 161.9 | 146.9 – 141.9 | Till |

Notes

- 1. MW-204 was removed from the detection monitoring analytical program after April 2013; it is now sampled only during the fall sampling events for field parameters only.
- 2. P-206A was added to the detection monitoring analytical program, beginning in April 2013.
- 3. MW-212 was removed from the detection monitoring analytical program after April 2013.
- 4. DP-4 was removed from the detection monitoring analytical program after July 2013; it is now sampled only during the fall sampling events for field parameters only.
- 5. P-04-02 was found damaged beyond repair during the April 2013 and was removed from the detection monitoring analytical program in July so the well was not repaired.
- 6. MW04-105 was removed from the detection monitoring analytical program after July 2013; it is now sampled only during the fall sampling events for field parameters only.
- 7. MW-216BR was removed from the detection monitoring analytical program after July 2013.

TABLE 2-2
2013 SURFACE WATER, LEACHATE, UNDERDRAIN, AND LEAK DETECTION MONITORING LOCATIONS

| | W (5 1 | | |
|-------------|--|--|--|
| Location | Water Body | | |
| Designation | Description | | |
| SW-1 | Unnamed tributary of Pushaw Stream | | |
| SW-2 | Unnamed tributary of Pushaw Stream | | |
| SW-3 | Unnamed tributary of Pushaw Stream | | |
| SW-DP1 | Storm Water Detention Pond #1 | | |
| SW-DP5 | Storm Water Detention Pond #5 | | |
| SW-DP6 | Storm Water 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 | | |
| LP-LD-1 | Leachate pond leak detection at MH #1 | | |
| LP-UD-1 | Leachate pond underdrain south end at MH #7 | | |
| LP-UD-2 | Leachate pond underdrain north end at MH #7 | | |
| | Composite sample of LF-UD-1, LF-UD-2, LF-UD- | | |
| LF-COMP | 3A,B, LF-UD-4, and LF-UD-7 when water level in | | |
| | manhole covers the inlet pipes at MH #5 | | |
| _ | Composite sample of LP-UD-1 and LP-UD-2 | | |
| LP-COMP | when water level in manhole covers both of the | | |
| | inlet pipes at MH #7 | | |
| LT-C4L | Leachate – Cell 4 pump station | | |

Monitoring wells P-04-04, MW04-102, MW04-105, MW04-109R, and DP-4 are located in the proximity of the leachate pond and are also downgradient of the landfill. Monitoring locations DP-4 and MW04-105 were removed from the monitoring program beginning with the July 2013 sampling event; however, these monitoring locations will continue to be sampled for field parameters during fall sampling events. P-04-02 was removed from the monitoring program in July 2013 due to adequate coverage in this area by continued monitoring of proximate monitoring wells MW04-102 and P-04-04. It was also not sampled in April of 2013 because of damage to the well casing that occurred prior to the April 2013 sampling event.

Monitoring well MW-302R is considered to be side-gradient to the landfill directly adjacent to and above stormwater Detention Pond #5.

2.3 Surface Water Locations

Surface water samples were collected at nine locations in 2013. SW-1, SW-2, and SW-3 are collected at 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. SW-DP1, SW-DP5, and SW-DP6 are collected at storm water Detention Pond #1, storm water Detention Pond #5, and storm water Detention Pond #6, respectively. Detention Pond #5, SW-DP5, was added as a monitoring location to the monitoring program during the April 2013 sampling event due to recent historical water quality changes at MW-302R, and that well's proximity and apparent hydraulic connection to storm water from SW-DP5. Stream-based pore-water sample locations PWS10-1, PWS10-2, and PWS10-3 were added to the monitoring program in April 2010. The pore-water sample locations are located downgradient of the landfill along the unnamed tributary to Pushaw Stream and represent water in the sediments at the base of the stream.

2.4 Leachate Sample Locations

During the April 2013 sampling event, leachate samples were collected from the Cell 4 leachate pump station designated as LT-C4L. The location of LT-C4L is shown on Figure 1-3. All leachate generated from Cells 1, 2, 3A, 3B, 4, and 7 flows to the Cell 4 pump station where it is pumped to the site's above ground leachate storage tank.

Leachate generated in Cell 5 and Cell 6 flows to the Cell 5 pump station where it is pumped directly to the site's above ground leachate storage tank. Leachate from Cell 8 flows to the newly constructed Cell 8 pump station where it is pumped to the site's above ground leachate storage tank. In order to provide a representative sample of the leachate from the entire site, the leachate sampling location was moved to the on-site leachate storage tank (i.e., LT-C4LR) beginning during the July 2013 sampling event. Leachate samples associated with compliance monitoring for off-site wastewater treatment are also collected at the leachate storage tank when transport tanker trucks are being loaded. The location of the leachate storage tank sampling location, LT-C4LR, is shown on Figure 1-3.

2.5 Leachate Pond Leak Detection Monitoring

The leachate pond's leak detection manhole (MH #1) is located outside the northwest corner of the leachate pond. This location is called LP-LD-1 and monitors the leak detection layer of the leachate pond. As previously discussed, use of the leachate pond to store leachate was discontinued with the construction of Cell 4 in 2008. The pond is currently used as a stormwater detention pond for the collection of clean surface water runoff from covered areas of the landfill. Beginning in 2010, monitoring of the leachate pond's leak detection system was reduced to the collection of only field parameters during the tri-annual monitoring of the site until the pond is again used to store leachate. As there are currently no plans to reestablish use of the leachate pond for leachate storage, LP-LD-1 was discontinued as a monitoring location following the July 2013 sampling event.

2.6 Underdrain Monitoring

The sample locations where underdrain samples were collected in 2013 are shown on Figures 1-2 and 1-3. The landfill underdrain system supplements as a cell leak detection system. Manhole MH #5, located northeast of the leachate pond, is the sample location which receives groundwater entering the underdrains beneath Cells 1, 2, 3A, 3B, 4, and 7. The underdrain for Cell 6 is sampled from a stilling well in the underdrain line. Flow from the Cell 6 underdrain is then connected to the Cell 5 underdrain line. The combined flow from the Cell 5 and Cell 6 underdrains then drains to a 6-inch diameter pipe outfall located on the southern perimeter of the landfill. Beginning in June 2010, samples collected from this 6-inch diameter pipe outfall are now a composite sample from the Cell 5 and Cell 6 underdrains (LF-UD-5 and 6); prior to June 2010, samples collected from this 6-inch diameter outfall pipe were for the Cell 5 underdrain only (LF-UD-5). A separate sample is collected from the Cell 6 underdrain (UD-6). This sample is collected from a small stilling well which is built into the underdrain line.

The underdrain for Cell 8 was constructed in 2012 at a discrete location shown on Figure 1-2. LF-UD-8 was added to the monitoring program during the April 2013 sampling event as the underdrain monitoring location for Cell 8.

Underdrain samples were collected tri-annually for laboratory analysis and monthly for field parameters at sample locations LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5 and 6, LF-UD-6, LF-UD-7, and LF-UD-8 during 2013, unless those locations were dry or their sample pipe inverts were submerged.

Manhole location MH #7, which is located southwest of the 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 leachate pond. LP-UD-1 and LP-UD-2 were monitored by SME tri-annually for laboratory parameters and monthly for field parameters by NEWSME in 2013.

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 collected from the manhole MH #5. This sample provides a composite sample of the aforementioned underdrain locations. This condition did not occur during the tri-annual monitoring events during 2013; however, LF-COMP samples were collected and analyzed for field parameters during ten months of the year during 2013.

LP-COMP samples were not collected during the tri-annual monitoring events in 2013 because the conditions did not exist where LP-UD-1 and LP-UD-2 were not able to be sampled separately due to pipe invert submergence.

2.7 Annual Monitoring Well Specific Conductance Measurements

Specific conductance measurements were taken from an expanded select list of monitoring wells surrounding the existing landfill operations at JRL during the fall sample round of 2013. This sampling has occurred since 2008 when MEDEP made a request that these samples be collected. Locations measured annually for specific conductance are shown on Figure 2-1 and listed in Table 2-3 below. A summary report table for the annual specific conductance data collected at the site to date is contained in Appendix F.

TABLE 2-3

2013 MONITORING WELL AND PIEZOMETER LOCATIONS
USED FOR ANNUAL SPECIFIC CONDUCTANCE MEASUREMENTS

| DP-4 | MW-402B |
|-----------|-----------|
| MW04-101 | MW11-207R |
| MW04-102 | P-206A |
| MW04-104 | P-04-04 |
| MW04-105 | P-201A |
| MW04-109R | P-201B |
| MW-204 | P-201C |
| MW09-901 | P-201D |
| MW-216BR | P-201E |
| MW-223A | P-202A |
| MW-223B | P-202B |
| MW-227 | P-209A |
| MW-301 | P-209B |
| MW-302R | P-209C |
| MW12-303R | P-211A |
| MW-401A | P-211B |
| MW-401B | P-220A |
| MW-402A | P-220B |

Notes:

Monitoring locations MW04-110, P-214A, P-214B, P-214C, MW-212, and P-04-02 are included in the EMP (April 2010) for annual specific conductance measurements, but have since been decommissioned.

P-206A was added for annual specific conductance measurements during 2013.

2.8 Landfill Gas Monitoring Program

Concurrent with the site tri-annual water quality monitoring events, site monitoring wells, underdrain locations, leachate manholes, leak detection manhole, and JRL site property boundaries were monitored for the presence of landfill-related gases during 2013 using a handheld, GEM 2000 gas meter. Figures 1-2 and 1-3 show the gas monitoring locations associated with the landfill's water quality monitoring program.

3.0 MONITORING PARAMETERS

Detection monitoring was performed in 2013 at the locations shown in Tables 2-1 and 2-2. The majority of the locations listed in Tables 2-1 and 2-2 were analyzed for the detection monitoring parameters listed in Table 3-1 in April, July, and October 2013. As requested by the MEDEP, analysis for volatile organic compounds (VOCs) was included during the April 2013 monitoring event for multiple locations (LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5 and 6, LF-UD-6, LF-UD-7, LF-UD-8, LP-UD-1, LP-UD-2, DP-4, MW-204, and MW-401B), provided that there was sufficient water available for sampling. The leachate sample from LT-C4L was analyzed for VOCs in April 2013, and the leachate samples from LT-C4LR were analyzed for VOCs during the July 2013 and October 2013 monitoring events. The leachate location (LT-C4L) was also analyzed for the parameters listed in Appendix A, Column 3 of the Chapter 405 MEDEP Solid Waste Regulations during the April 2013 sample event. These parameters will be analyzed annually for the leachate sample collected at LT-C4LR beginning in April 2014.

During 2013 there were three monitoring parameter changes in the monitoring program as agreed upon with MEDEP. Beginning during the July 2013 sampling event, ammonia and chloride were removed from the detection monitoring analytical program for all locations except for leachate. Beginning during the April 2013 sampling event, bromide was added to the detection monitoring analytical program.

One supplementary addition to the 2013 monitoring program included sampling and analyses for dissolved methane at MW12-303R, MW-223A, MW-223B, MW-302R, and MW-304A in July 2013 and at MW-223B in October 2013. The results of the supplementary dissolved methane monitoring are discussed in Section 6.0.

TABLE 3-1 2013 DETECTION MONITORING ANALYTICAL PROGRAM

| Water Quality | Mashad | PQL ¹ |
|--|-------------------------|------------------|
| Parameter | Method | (mg/l) |
| Total Dissolved Solids | SM 2540C | 10 |
| Total Suspended Solids | SM 2540D | 4 |
| Tannins/Lignins | SM 5550B | 0.20 |
| Ammonia (NH ₃ -N) ⁹ | SM 4500 NH3 E/4500NH3 B | 0.5 |
| Arsenic (As) | SW846/6010B/3010A | 0.005 |
| Calcium (Ca) | SW846/6010B/3010A | 0.3 |
| ron (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 (CI) | SW846/9056 | 1.0 |
| Bromide (Br) | SW9056 | 0.1 |
| Sulfate (SO ₄) | SW846/9056 | 2.0 |
| Nitrate (NO ₃ -N) | SW846/9056 | 0.3 |
| Bicarbonate (HCO ₃ -CaCO ₃) | SM 2320B | 1.5 |
| /olatile Organic Compounds (VOCs) ^{3,7} | U.S.EPA 8260B | 0.0005 - 0.01 |
| Chemical Oxygen Demand (COD) | Hach 8000 | 10 |
| Sulfide ⁸ | SW846/9030B | 0.10 |
| Fotal Kjeldahl Nitrogen (TKN) ⁴ | SM 4500 NORC | 0.30 |
| Fotal Phosphorous ⁵ | U.S.EPA 365.3 | 0.04 |
| Biochemical Oxygen Demand (BOD) ⁶ | SM 5210B | 2 |
| Cadmium (Cd) | SW846/6010B/3010A | 0.0006 |
| Copper (Cu) ⁹ | SW846/6010B/3010A | 0.003 |
| Nickel (Ni) | SW846/6010B/3010A | 0.005 |
| Field Parameters | | |
| Groundwater Elevation | Field Measurement | NA |
| Specific Conductance | Field Measurement | NA |
| Dissolved Oxygen (DO) | Field Measurement | NA |
| pH | Field Measurement | NA |
| Ξh | Field Measurement | NA |
| remperature remains a series of the series o | Field Measurement | NA |
| | Field Measurement | |
| Turbidity | (APHA 2130) | NA |
| Monitoring Well Pumping Rate | Field Measurement | NA |
| Surface Water Flow Rate | Field Measurement | NA |
| Field Observations | Visual Observations | NA NA |
| Total Alkalinity (as CaCO ₃) | Field Measurement | 5 |

- At dilution factor of unity
- NA = Not Applicable.
- VOCs are the 47 organic constituents listed in Appendix I of 40 CFR Part 258. PQLs for VOCs are reported at a dilution factor of unity.
- Monitoring wells and leachate only.
 Surface waters and underdrain only.
- Surface waters only (excluding stormwater detention ponds and underdrains).
- In April 2013, LF-UD-1, LF-UD-2, LF-UD-3A,B, LF-UD-4, LF-UD-5 and 6, LF-UD-6, LF-UD-7, LF-UD-8, LP-UD-1, LP-UD-2, DP-4, MW-204, P-04-02, and MW-401B were analyzed for VOC compounds. Leachate location LT-C4L was analyzed for VOC compounds in the spring sample event and its replacement LTC4LR sampled during the summer and fall monitoring events in 2013.
- In April 2013, leachate was analyzed for Appendix A, Column 3 parameters (from Chapter 405 MEDEP Solid Waste Regulations), including sulfide.

| | Water Quality | | PQL ¹ | | |
|----|---|--------|------------------|--|--|
| | Parameter | Method | (mg/l) | | |
| 9. | 9 Ammonia and copper are only analyzed for leachate samples (beginning during 2013) | | | | |

4.0 SAMPLING TECHNIQUES

4.1 Monitoring Wells

Groundwater samples were obtained from the monitoring wells utilizing the low-flow sample collection techniques in general accordance with the EMP for the landfill. The low-flow sampling program includes dedication of a small-diameter (1/8-inch 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 deep well 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 well at approximately 100 to 200 ml/min. 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 collected for chemical analysis. Several of the wells have very low recharge rates and, therefore, do not stabilize even under 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 Underdrain, Leak Detection, and Sampling Leachate Locations

Grab samples are collected at the surface water, underdrain, leak detection, 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 Gas Monitoring

Gas monitoring at the monitoring wells and underdrain locations was done using a GEM 2000 gas meter manufactured by Landtec of Colton, California with an auxiliary H₂S pod. Measurement of headspace gas in the monitoring wells is measured 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 locations are measured by placing the probe at the manhole opening where underdrain samples are collected. The meter is calibrated daily before use. Methane, carbon dioxide, and oxygen are reported as percent by volume. Hydrogen sulfide is reported in parts per million by volume.

4.4 Sample Handling and Chain-of-Custody

After collecting the water quality samples, the samples were preserved on ice in coolers and shipped by SME to Maine Environmental Laboratory of Yarmouth, Maine for analyses. Katahdin Analytical Services of Scarborough, Maine performed the semi-volatile organic compounds (SVOCS), pesticides, herbicides, and polychlorinated biphenyls (PCBs) analyses for the spring (April) 2013 sampling event. 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 CONTROL (QC)/QUALITY ASSURANCE (QA)

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 is reliable and provided 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 2013 sampling rounds, 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 TDS to specific conductance, and values falling outside of historic ranges for each sampling round were presented in each of the three data transmittals provided in 2013.

6.0 WATER QUALITY EVALUATION

Groundwater, surface water, leachate, leak detection, and underdrain water quality samples were collected at monitoring locations as described in Section 2.0 of this report. Samples were collected during April, July, and October 2013. Laboratory analytical reports, field data sheets, and data validation documentation have been presented in tri-annual data submittals forwarded to MEDEP during 2013 for each sampling round.

Noteworthy observations in the data for 2013 have been identified and are reported below for groundwater monitoring locations (Section 6.1), surface water monitoring locations (Section 6.2), leachate monitoring (Section 6.3), leak detection monitoring (Section 6.4), and underdrain monitoring (Section 6.5). Appendix A contains tables of historic water quality data collected over the past ten years, including 2013, for the sampling locations and parameters identified in this report. Water quality data not specifically referenced in this report are considered to be generally consistent with the previously collected water quality data for the JRL and are not changing significantly over time.

Bromide was added to the monitoring program during 2013, beginning with the April 2013 monitoring event. Bromide concentrations were low site-wide during 2013, ranging from non-detect to low concentrations (i.e., up to 0.42 mg/L at MW12-303R) near to the laboratory detection limit of 0.1 mg/L. The bromide monitoring results for 2013 are included in the historic water quality data tables in Appendix A.

The methods used for analyzing the water quality data in 2013 are summarized below.

Box and Whisker Plots and Data Summary Sheets. 2013 water quality data for each monitoring location are summarized in the data summary sheets contained in Appendix B of this document. The summary sheet prepared for each sampling location contains a map and description of the monitoring point, a 2013 water quality data summary, and a statistical summary of the historic data prior to 2013. Parameter concentrations that exceeded historical minimum and maximum concentration values in 2013 at site monitoring locations are identified on the individual water quality summary sheets contained in Appendix B.

Also included in Appendix B are box and whisker plots of select monitoring parameters 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 long-term trends occur in the data, the trends are typically visually detectable 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 2013 data) is aided by using a fast-Fourier transform regression of each of the select parameter annual mean concentration values. A graph of the fast-Fourier regression accompanies the box and whisker plots in Appendix B.

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 2013 back five years and three years. The three-year and five-year timeframes are suitable for evaluating landfill performance and changes in water quality related to recent site operations and identify ongoing 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 is less than 0.05. The Mann-Kendall results for groundwater, surface water, leachate, leak detection, and underdrain locations are included in Appendix C and are discussed by location in Sections 6.1 through 6.5. It should be noted that trend analyses using analytical data that is typically non-detect are at times positive for increasing or decreasing trend screenings due to changes in the laboratory detection limit reported. In those cases, trends are interpreted and reported as no trends; these instances are identified in Appendix C. This occurrence is frequent

for JRL site water quality due to the generally low parameter concentrations in groundwater at the site. Examples of parameters for which this occurs frequently include (but are not limited to) cadmium and nitrate, which are typically non-detect at most groundwater monitoring locations, but had increased reporting limits in 2013.

The trend analysis is used as one of the screening tools to review the water quality and must be viewed in conjunction with other factors such as the specific parameter exhibiting the trend and the parameter concentration detected at the monitoring locations (i.e., a specific parameter could have an increasing 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 statistical trend.

Although rapid increases in concentrations of multiple parameters at a monitoring location may reflect site operational impact such as spillage of leachate or a landfill liner failure, changes in one or only a few parameters at a given monitoring location are also potentially the result of changes in groundwater conditions unrelated to the landfill leachate (e.g., decreases in natural precipitation recharge to the groundwater will change redox, alkalinity, and pH conditions, which allows the release of various constituents such as iron, manganese, and arsenic from soils and bedrock into the groundwater). Generally, at a given monitoring well, an increase in landfill leachate contribution should result in increased chloride concentrations due to its presence at high concentrations in the JRL leachate (i.e., between 5,970 mg/L to 24,300 mg/L at LT-C4LR in 2013) and the conservative nature of chloride in terms of adsorption, precipitation, and degradation. Therefore, sudden increases in chloride concentration, in conjunction with changes in other parameter concentrations, can be a reliable indicator of landfill impacts resulting from the presence of JRL leachate assuming that no other natural or anthropogenic sources of chloride are present. 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, any increase in chloride levels needs to reviewed in terms of site conditions. Specific conductance is also a useful parameter for assessing water quality across the site as it gives an indication of the total dissolved constituents at each monitoring location. Nearly all other chemical constituents are subject to changes in concentrations resulting from interactions between soil,

rock, and groundwater in addition to the presence of leachate. Increases in multiple (4 or more) parameters, especially when including chloride, are believed to be the most reliable indicator of *potential* landfill leachate impacts that require further investigation. At locations where this criterion is met, further analysis of water quality data is completed to ascertain the potential causes for the change in water quality.

Concentrations above MCL, MEG, MFCCC. Parameters measured at the site groundwater monitoring wells and pore-water sample locations that were above their U.S.EPA Maximum Contamination Levels (MCLs) or Maine Maximum Exposure Guidelines (MEGs) during 2013 are identified in detail in Sections 6.1 and 6.2. Only one parameter (i.e., arsenic) of the parameters analyzed at groundwater monitoring locations, was detected above an MCL in 2013. This was consistent with water quality results for 2012. Arsenic concentrations were detected above their MCL at 14 locations during one or more monitoring event in 2013; there were eight locations with arsenic MCL exceedances in 2012. Although arsenic concentrations were above the arsenic MCL at multiple locations, the arsenic exceedances at the site are generally consistent with historical arsenic exceedances at the site and include exceedances at multiple upgradient monitoring locations. Arsenic concentrations were reported as high as 0.027 mg/L in 2013 (MW-402B in October 2013). In the past, several potential reasons for the arsenic concentrations detected at the site have been identified including the arsenic concentrations occurring naturally in Maine, and the presence of general site wide reducing conditions in the groundwater associated with decreasing groundwater recharge from site development. The conditions that result in arsenic detected on-site in 2013 are consistent with these previously identified reasons and the 2013 results are not interpreted as impact from the landfill leachate.

Four parameters (i.e., arsenic, manganese, sodium, and iron) were detected at concentrations above an MEG in 2013. Manganese and iron were above their MEGs at only two locations, and sodium was above its MEG at only one location. Both iron MEG exceedances and one of the manganese exceedances were in pore-water samples collected in shallow saturated soils along the edge of the unnamed tributary to Pushaw Stream. These results are not interpreted as being landfill related given the relative location of this sampling point. The sample results did

not detect concentrations of nitrate, cadmium, copper, nickel, ammonia, or VOCs³ above their respective MCL or MEG at the groundwater monitoring locations sampled in 2013.⁴

Parameters measured at the site surface water monitoring locations that were above their Maine Freshwater Criterion Continuous Concentrations (MFCCCs) are identified in detail in Section 6.2. In summary, the MFCCC for iron was exceeded at multiple surface water monitoring locations in 2013. There were no MFCCC exceedances for chloride, arsenic, nickel, cadmium, copper, or ammonia at any of the surface water monitoring locations in 2013.

6.1 Groundwater Quality

6.1.1 Bedrock Groundwater. Groundwater quality in the bedrock is measured at eight monitoring wells. Bedrock groundwater upgradient of the site is monitored at MW-304A, P-206A, and MW11-207R. The upgradient bedrock groundwater monitoring wells are currently located in areas that have not been disturbed by landfill development, and are presently considered to be unaffected by both landfill leachate and landfill operations. P-206A was added as a new monitoring location during the July 2013 monitoring event. Bedrock groundwater downgradient of the landfill area is monitored at MW-223A, MW-301, MW-401A, and MW-402A. Monitoring well MW-302R monitors groundwater along the northwestern side of the landfill and is interpreted to be cross-gradient of the landfill rather than downgradient. Notable observations in bedrock groundwater quality during 2013 are as follows:

6.1.1.1 <u>Upgradient Bedrock Groundwater Monitoring Wells</u>

 MW11-207R is located outside of the construction and operational area of the landfill and replaced MW-207 in 2011. Consistent with historical data since sampling began in 2011, there were no exceedances of MCLs or MEGs for parameters analyzed at MW11-207R in 2013. Water quality at MW11-207R in

³ Groundwater analyses for VOCs occurs only at DP-4, P-04-02, MW-204, and MW-401B.

⁴ Copper and ammonia were removed from the detection monitoring analytical program following the April 2013 monitoring event.

2013 was consistent with historical data since the fall round of 2011, and there are not statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) in the three years of monitoring at this location. The 2013 annual maximum specific conductance value of 88 µmhos/cm and chloride concentration of 3.8 mg/L at MW11-207R were very low and in the range expected in an upgradient groundwater monitoring well.

- Monitoring well MW-304A is located upgradient from the landfill and outside of the area of landfill construction. There were no MCL or MEG exceedances of analyzed parameters at MW-304A in 2013. In 2013 and historically, groundwater quality data from MW-304A has not indicated influence from site activities. The Mann-Kendall analyses indicate that there are no statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (4 or more) at MW-304A for 5-year or 3-year periods from the end of 2013. The 2013 annual maximum specific conductance value of 138 μmhos/cm and chloride concentration of 3.2 mg/L at MW-304A were very low and in the range expected in an upgradient groundwater monitoring well. Dissolved methane was sampled at MW-304A during the July 2013 sampling round as requested by MEDEP and was not detected.
- P-206A is a bedrock piezometer located upgradient 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. The location has limited recharge so the parameters analyzed at this location vary depending on the amount of sample that can be collected. In July there was insufficient sample to analyze for laboratory parameters, so only field parameters were measured. In October 2013, groundwater samples were collected from P-206A for measurement of field parameters and analyses for inorganic parameters; however, there was insufficient groundwater for analyses of metals. There were no MCL or MEG exceedances of analyzed parameters at P-206A in October 2013, and October 2013 groundwater quality data from P-206A does not indicate influence from

landfill leachate or site activities. There is insufficient data for three-year and five-year Mann-Kendall trend analyses at P-206A at this time. The October 2013 specific conductance value of 126 μ mhos/cm and chloride concentration of 4.3 mg/L at P-206A were very low and in the range expected in an upgradient groundwater monitoring well.

6.1.1.2 <u>Downgradient Bedrock Groundwater Monitoring Wells</u>

• Water quality from downgradient bedrock monitoring well MW-223A includes concentrations of multiple parameters greater than those at the upgradient bedrock monitoring wells. Arsenic was the only monitored parameter with an MCL or MEG exceedances in 2013. Arsenic slightly exceeded its MCL and MEG of 0.01 mg/L at MW-223A during the July (0.012 mg/L) and October (0.013 mg/L) sampling events. MW-223A has statistically significant increasing trends (95% confidence level) for twelve parameters over the past five years, including specific conductance, pH, arsenic, calcium, magnesium, potassium, sodium, total dissolved solids, sulfate, bicarbonate, alkalinity, and chloride. Similarly, nine parameters, including chloride, have statistically significant increasing trends (95% confidence level) over the past three years at MW-223A. Nine parameters were detected at new historic maximum values during one or more sampling event in 2013, including specific conductance, arsenic, calcium, magnesium, nitrate, total dissolved solids, sulfate, bicarbonate, and chloride.

The increase in the multiple parameter concentrations in recent years at MW-223A are subtle between about 2007 and the end of 2008, and more pronounced since 2009. The annual maximum specific conductance value and chloride concentration in 2013 at MW-223A were 454 μ mhos/cm and 45.2 mg/L, respectively, which were both historic maximum concentrations at this location. In comparison, these values were 189 μ mhos/cm (specific conductance) and 2.6 mg/L (chloride) during the October 2008 sampling event.

In our evaluation of MW-223A water quality in 2012,⁵ SME noted that that while something is affecting water quality in this well, the current specific conductance and chloride levels do not suggest landfill leachate impact. A comparison of MW-223A to landfill leachate collected from LT-C4L in 2012 indicated that water quality at MW-223A remains distinct from the leachate water quality.

The location of MW-223A relative to the location of site infrastructure suggests that the current water quality changes at this well (i.e., increasing parameter values) is related to infiltration of storm water runoff in the vicinity of the northwest corner of the landfill. Storm water runoff northwest of the landfill is partially directed toward storm water Detention Pond #5, and partially around the northwest corner of the landfill toward storm water Detention Pond #1 (SW-DP1). It should be noted that similar water quality trends and concentrations have been observed at MW-223B, the shallow companion well to MW-223A, and MW-302R, which is located proximate to Detention Pond #5. Water quality data for MW-223B and MW-302R are discussed further in later sections.

As discussed previously, NEWSME implemented multiple construction activities during 2013 to address the recent historical groundwater quality changes that have been observed at the three monitoring locations northwest of the landfill (i.e., MW-223A, MW-223B, MW-302R). These corrective actions included regrading and paving the road and storm water drainage ways along the northwest corner of the landfill and re-constructing storm water Detention Pond #5 with a liner and sand filter unit. As described previously, during these construction activities, an area was exposed along the northwest perimeter of the landfill which contained discolored soils. This area was cleared of these soils during the summer of the 2013. The presence of the discolored soils is a plausible explanation for the water quality changes over the past several years in the northwest monitoring wells. The infiltration of precipitation and storm water

⁵ SME 2013, Juniper Ridge Landfill, NEWSME Landfill Operations, LLC. 2012 Annual Water Quality Report.

through the discolored soils may have resulted in the elevated chloride, among other parameter concentrations observed over the past several years, at MW-223A and other northwest monitoring locations. While water quality at MW-223A during the October 2013 sampling event did not yet reflect any changes related to the corrective actions, improvements to water quality at MW-223A, and the other northwest monitoring wells, are anticipated and will be watched for during future sampling events.

Dissolved methane was sampled at MW-223A during the July 2013 sampling round as requested by MEDEP and was not detected.

- MW-301 is a deep bedrock monitoring well (screened 162.7 feet-BGS to 182.7 feet-BGS) located downgradient from the landfill in proximity of the leachate pond. There were no MCL or MEG exceedances of analyzed parameters at MW-301 in 2013. Parameter concentrations at MW-301 remained relatively low in 2013, with no statistically significant increasing trends (95% confidence level) for multiple parameters (4 or more) over the past three-year and five-year periods back from 2013. There were four parameters with statistically significant decreasing trends (95% confidence level) over the past five years, including pH. dissolved oxygen, potassium, and sodium. The concentrations of several parameters are marginally higher than at the upgradient bedrock monitoring locations, but are still at low levels (e.g., the 2013 annual maximum specific conductance value at MW-301 was 209 µmhos/cm in July 2013 compared to the annual maximum value of 138 µmhos/cm reported for MW-304A in 2013). The 2013 annual maximum chloride concentration remains very low at MW-301 (3.1 mg/L), which is an indication that the subtle differences in water quality at MW-301 compared to upgradient water quality are not a result of leachate influence.
- Downgradient bedrock monitoring wells MW-401A and MW-402A both have relatively low parameter concentrations, similar to or only slightly greater than those measured upgradient of the landfill. There were no MCL or MEG

exceedances of analyzed parameters at MW-401A in 2013. Consistent with historical data, arsenic was detected above its MCL and MEG (i.e. 0.010 mg/L) at MW-402A in April 2013 at 0.021 mg/L, July 2013 at 0.024 mg/L, and October 2013 at 0.02 mg/L. The presence of arsenic above the MCL standard in this well is consistent with the discussion earlier in Section 6.0. Besides arsenic, there were no other parameters above their respective MCL or MEG at MW-402A in 2013.

There were not statistically significant increasing or decreasing trends (95% confidence level) over that past three years or five years at either MW-401A or MW-402A. Water quality remains essentially unchanged at MW-401A and MW-402A since sampling began at these locations in 2004.

The 2013 annual maximum specific conductance value and chloride concentration at MW-401A were 140 µmhos/cm and 2.8 mg/L, respectively. The 2013 annual maximum specific conductance value and chloride concentration at MW-402A were 141 µmhos/cm and 2.5 mg/L, respectively. These parameter values are low and comparable to upgradient monitoring locations for both MW-401A and MW-402A, and do not indicate water quality impacts from the landfill.

6.1.1.3 Cross-gradient Bedrock Groundwater Monitoring Well

Monitoring well MW-302R is located cross-gradient of the landfill on the northwest side of the site, but downgradient from the office facility, former topsoil and stump stockpile area, and a subsurface wastewater disposal field. MW-302R is directly adjacent to storm water Detention Pond #5. The roadways and paved parking area uphill and adjacent to MW-302R, along with the area of where the old flare pad and associated condensate drains drain into a ditch that passes alongside of the well and into Detention Pond #5. Additionally, portions of both access roads to Cell 7, and Cells 1 and 2 above elevation 325 drain to this pond. Thus, the water quality at MW-302R has the potential to be influenced

by a number of site features other than the landfill. Although this well is screened in the bedrock, the bedrock surface appears to be within a few feet of the bottom the detention pond. The greater extent of fluctuation of the water level in this well compared to other site monitoring wells, as summarized on the data tables included in Appendix A, suggest that there has been a hydraulic connection between the bottom of the pond and this well. With the reconstruction and lining of Detention Pond #5 and the paving of the access road and ditches, these potential sources of impact to this well have been eliminated; however, the effect of these site improvements will take time to be reflected in the water quality at MW-302R.

With the exception of sodium, there were no MCL or MEG exceedances of analyzed parameters at MW-302R in 2013. Sodium slightly exceeded its MEG (i.e. 20 mg/L) at MW-302R in October 2013 at a concentration of 20.3 mg/L. Sodium and chloride concentrations at MW-302R are higher than the sodium and chloride concentrations detected at upgradient bedrock groundwater monitoring wells. An annual maximum chloride concentration of 77.1 mg/L (July 2013) was detected above previous historic maximum concentrations. Specific conductance values at MW-302R, which ranged from 205 µmhos/cm in April 2013 to 350 µmhos/cm in July 2013, are marginally higher than at upgradient monitoring locations. MW-302R has a distinct water quality signature as compared to other groundwater monitoring locations at the site.

There were no statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) over that past three years or five years at MW-302R. Dissolved methane was sampled at MW-302R during the July 2013 sampling round and was not detected.

6.1.2 Soil Overburden Groundwater. During 2013, groundwater quality in the overburden was monitored at 15 monitoring wells. Several of the groundwater monitoring locations were sampled one or more times during 2013, but were discontinued as monitoring locations during the year as discussed previously. These locations are noted below. The soil overburden at the

site consists of glacial till at the upper site elevations and marine clay along the unnamed stream west of the landfill. Notable observations in soil overburden groundwater quality are as follows.

6.1.2.1 <u>Upgradient Overburden Groundwater Monitoring Wells</u>

Soil overburden groundwater upgradient of the site was monitored at three locations during 2013: MW-206, MW-212, and MW12-303R. Monitoring well MW-212 was discontinued from the monitoring program following the April 2013 monitoring event. While all of the overburden groundwater monitoring wells upgradient from the landfill are not influenced by landfill leachate, MW12-303R is located in an area that could be influenced by landfill operations (e.g., near roadways, near temporary storm water structures, or in an area that has been affected by disturbance of vegetation and soils). Notable observations in upgradient soil overburden groundwater quality are as follows.

• Upgradient soil overburden monitoring wells MW-206 and MW12-303R generally have relatively low historic parameter concentrations. MW-303 was replaced by MW12-303R following the April 2012 sampling event and was installed in the same geologic formation (till) as MW-303; the groundwater quality measured at MW12-303R since October 2012 is similar to groundwater quality measured previously at MW-303. There is insufficient data for statistically significant trend analyses at MW12-303R for the past three-year and five-year periods. Monitoring well MW-206 does not have multiple (four or more) parameters with statistically significant increasing or decreasing trends (95% confidence level) over the past five years or three years. Groundwater quality at MW-206 has been generally consistent since sampling began at this location in 1993.

Arsenic was detected above its MCL and MEG (i.e. 0.010 mg/L) at MW-206 (0.013 mg/L) and MW12-303R (0.015 mg/L) during the October 2013 sampling event. The arsenic exceedance at MW12-303R was a first time exceedance since sampling began at that location in October 2012. The presence of arsenic above the MCL and MEG standard in these upgradient wells corroborates the

premise that the presence of arsenic detected in site monitoring is consistent with natural concentrations in groundwater in the State of Maine; particularly at MW-206, which is located in an area outside of influence from landfill operations (e.g., away from roadways and areas that have been affected by disturbance of vegetation and soils). Besides arsenic, there were no other analyzed parameters above their respective MCL or MEG at MW-206 and MW12-303R in 2013.

The 2013 annual maximum specific conductance values and chloride concentrations at upgradient monitoring wells MW-206 and MW12-303R are included below on Table 6-1. Table 6-1 also includes the 2013 annual maximum chloride concentrations and specific conductance values for all downgradient overburden monitoring wells for reference throughout this section.

TABLE 6-1

2013 ANNUAL MAXIMUM SPECIFIC CONDUCTANCE VALUES
AND CHLORIDE CONCENTRATIONS AT
OVERBURDEN GROUNDWATER MONITORING LOCATIONS

| Location Designation | Specific Conductance (µmhos/cm) | Chloride (mg/L) | Position Relative To Landfill | | |
|---|---------------------------------------|-----------------|----------------------------------|--|--|
| MW-206 | 146 | 2.4 | Upgradient | | |
| MW-212 | Dry | Dry | Upgradient | | |
| MW12-303R | 254 | 8.4 | Upgradient | | |
| DP-4 | 293 | 30.8 | Downgradient | | |
| MW-204 | 185 | 5.5 | Downgradient | | |
| MW-223B | 363 | 42.9 | Downgradient | | |
| MW-227 | 192 | 2.5 | Downgradient | | |
| MW-401B | 376 | 16.3 | Downgradient | | |
| MW-402B | 174 | 2.5 | Downgradient | | |
| P-04-04 | 194 | 1.8 | Downgradient | | |
| MW04-102 | 227 | 2.5 | Downgradient | | |
| MW04-105 | 286 | 7.7 | Downgradient | | |
| MW04-109R | 414 | 7.7 | Downgradient | | |
| MW-216BR | 329 | 9.1 | Downgradient | | |
| MW09-901 | 197 | 2.7 | Downgradient | | |
| Note: U – not detected above laboratory reporting limit | | | | | |

Dissolved methane was sampled at MW12-302R during the July 2013 sampling round and was not detected.

Monitoring well MW-212 has been dry since the April 2011, including the April 2013 monitoring event. MW-212 was discontinued as a monitoring location following the April 2013 monitoring event.

6.1.2.2 Downgradient Overburden Groundwater Monitoring Wells

Overburden groundwater downgradient of the landfill area was monitored at 12 monitoring well locations during 2013 (DP-4, MW-204, MW-223B, MW-227, MW-401B, MW-402B, P-04-04, MW04-102, MW04-105, MW04-109R, MW-216BR, and MW09-901).

There were several changes to the groundwater monitoring program during 2013 that affected the downgradient overburden groundwater monitoring locations. Monitoring well P-04-02 was found to be damaged during the April 2013 sampling event. It was not repaired since it was one of the locations removed from the monitoring program. Groundwater quality samples were collected from MW-216BR in April 2013 and July 2013 prior to its removal from the monitoring program during 2013. Monitoring locations DP-4, MW-204, and MW04-105 were removed from the monitoring program following the April 2013 monitoring event; however, these three locations will continue to be monitored for field parameters during fall monitoring events.

Notable observations in downgradient overburden groundwater quality during 2013 are as follows:

• As shown above in Table 6-1, the 2013 annual maximum specific conductance values at the downgradient overburden monitoring locations remain low; all downgradient overburden monitoring locations have specific conductance values under 500 μmhos/cm. Chloride concentrations also remain relatively low at the downgradient monitoring locations, which is in contrast with the high chloride concentrations in the site leachate (e.g., 24,300 mg/L at LT-C4LR in July 2013) and suggests that the subtle differences in overburden groundwater quality

downgradient from the landfill compared to the upgradient locations are likely attributed to general site construction, development, and operational activities.

- Volatile organic compounds (VOCs) were analyzed at DP-4, MW-204, and MW-401B in April of 2013. No VOCs were detected above the laboratory reporting limit at these monitoring locations in 2013. There were no VOCs detected above the laboratory reporting limit at any of the downgradient overburden monitoring locations in 2013.
- Parameter concentrations that were above MCLs or MEGs at downgradient overburden groundwater monitoring locations in 2013 are identified below:

Arsenic was present above the MCL and MEG (i.e., 0.010 mg/L) in 2013 at:

- DP-4 (0.011 mg/L in April 2013);
- MW-206 (0.013 mg/L in October 2013);
- MW-227 (0.018 mg/L in April 2013, 0.017 mg/L in July 2013, and 0.017 mg/L in October 2013);
- MW-401B (0.013 mg/L in April 2013, 0.022 mg/L in July 2013, and 0.027 mg/L in October 2013);
- MW-402B (0.019 mg/L in April 2013, 0.024 mg/L in July 2013, and 0.019 mg/L in October 2013);
- MW04-102 (0.017 mg/L in July 2013 and 0.013 mg/L in October 2013);
- MW04-105 (0.012 mg/L in April 2013);
- MW04-109R (0.017 mg/L in April 2013, 0.016 mg/L in July 2013, and 0.015 mg/L in October 2013);
- P-04-04 (0.011 mg/L in April 2013 and 0.012 mg/L in July 2013);
- MW-216BR (0.019 mg/L in April 2013 and 0.015 mg/L in July 2013).

The arsenic exceedances at MW04-102 were first time exceedances. The remaining downgradient overburden monitoring location arsenic exceedances at each of these locations are consistent with historical exceedances.

Manganese was present above the MEG (i.e., 0.5 mg/L) in 2013 at DP-4 (1.81 mg/L in April 2013). The manganese exceedance at DP-4 during 2013 is consistent with historical exceedances at this location.

There were no other parameters at concentrations above MCLs or MEGs at downgradient overburden groundwater locations in 2013 for the parameters analyzed.

• Only two of the downgradient overburden monitoring locations have statistically significant increasing trends (95% confidence level) for multiple (four or more) parameters over the past three-year or five-year periods. Monitoring well DP-4 has statistically significant increasing trends for iron, magnesium, sodium, total Kjeldahl nitrogen, sulfate, chloride, and turbidity over the past three years. Each of these parameters, however, remains within their historical range at this location and overall water quality at DP-4 generally has improved from previous site operations in the early to mid-2000s. Visual assessments of these trends suggest that the parameters with increasing trends at DP-4 are subtle and at relatively low concentrations.

At MW-223B, there were statistically significant increasing trends (95% confidence level) for six parameters (calcium, magnesium, nitrate, sulfate, alkalinity, and chloride) over the past three years, and for eight parameters (specific conductance, pH, calcium, magnesium, nitrate, total dissolved solids, sulfate, and chloride) over the past five years. Five parameters (specific conductance, calcium, magnesium, nitrate, and bromide) were detected at new historical maximum concentrations in 2013 at MW-223B. It should be noted that, although the increasing trends for these multiple parameters are apparent, their concentrations still remain relatively low and there were no MCL or MEG exceedances at MW-223B in 2013 for the parameters analyzed.

Monitoring well MW-223B is located along the northwest perimeter of the landfill, and like MW-223A, groundwater quality at this location appears to be affected by infiltration of surface water runoff in the vicinity of the northwest corner of the landfill as well as the discolored soil uncovered during 2013 outside of the lined portion of the of the northwest corner of the landfill. As discussed above, NEWSME implemented multiple corrective actions during 2013 to address the recent historical groundwater quality changes that have been observed at the monitoring locations northwest of the landfill. These corrective actions were not yet reflected in October 2013 groundwater quality from MW-223B; however, improvements to water quality at MW-223B are anticipated and will be watched for during future sampling events.

locations continues to improve from water quality impacts from previous site operations in the early to mid-2000s. Seven of the overburden downgradient monitoring wells (DP-4, MW-301, MW04-105, MW04-109R, MW09-901, MW-204, and MW-216BR) have statistically significant decreasing trends (95% confidence level) for multiple (four or more) parameters over the past five years. The complete Mann-Kendall statistical trend analyses for these locations are included in Appendix C. These decreasing parameter values at these overburden downgradient monitoring wells are now typically approaching or are near equivalent to those values observed at the upgradient overburden monitoring wells.

Groundwater quality at MW04-102, MW-227, MW-401B, MW-402B, and P-04-04 does not exhibit statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more). Groundwater quality at MW-401B has historically had multiple parameter values that are moderately higher than upgradient values. While groundwater quality at MW-401B does not have statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) over the past three years, visual assessment of the water quality data at MW-401B indicates that multiple

parameter values at this location have had generally steady declines since the early 2000s (e.g., specific conductance, calcium, potassium, sodium, iron, magnesium, total dissolved solids, sulfate, bicarbonate, and alkalinity).

• Dissolved methane was sampled for at monitoring well MW-223B during the July 2013 sampling round as requested by MEDEP and was detected at a low concentration of 40.6 μg/L. Dissolved methane was sampled again at MW-223B in October 2013 and was detected slightly above its laboratory reporting limit (i.e., 6.6 μg/L) at a concentration of 9.2 μg/L. Given the location of this well adjacent to the large bog area associated with the unnamed tributary to Pushaw Stream, these low concentrations are interpreted to be related to natural sources. Methane will be analyzed at this location during the spring and summer sampling round in 2014.

6.2 Surface Water

Surface water at the site was monitored in 2013 at three locations on the southwest side of the landfill along an unnamed tributary to Pushaw Stream (SW-1, SW-2, and SW-3). Surface water was also monitored at three surface water detention ponds (SW-DP1, SW-DP5, and SW-DP6) during 2013. SW-DP5 was added as a new monitoring location during 2013. Additionally, three pore-water sampling locations were monitored in 2013 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. Parameter concentrations that exceeded historical minimum and maximum concentration values for these surface water monitoring locations are identified on the individual water quality summary sheets contained in Appendix B. Notable observations in the surface water sampling data for 2013 are as follows:

 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 2013 sampling events at downstream locations SW-1 and SW-3 were generally similar to those measured at SW-2, which is located upstream of 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. There were not statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) at SW-1, SW-2, or SW-3 for the past three-year or five-year periods.

Iron concentrations exceeded their MFCCC standard of 1 mg/L at SW-1 and SW-2 during the July 2013 sampling round at concentrations of 2.92 mg/L and 1.1 mg/L, respectively. These exceedances were consistent with historical exceedances at these locations. There were no other MFCCC exceedances at SW-1, SW-2, or SW-3 for parameters analyzed during 2013.

SW-DP1 is collected from a surface water detention pond at the downstream western edge of the JRL site. SW-DP5 was added to the monitoring program during the April 2013 sampling event and is collected from an outfall on the west side of Detention Pond #5. SW-DP6 is a surface water detention pond sampling location at the southern end of the site.

Parameter concentrations at SW-DP1 were generally similar to historical concentrations for most parameters. Parameter concentrations at SW-DP1 have remained low since sampling began at this location in 2004 and have not indicated influences from landfill leachate or landfill operations. The annual maximum specific conductance value and chloride concentration at SW-DP1 were 204 µmhos/cm and 15.2 mg/L, respectively. There were no statistically significant increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) at SW-DP1 for the past three-year and five-year periods. Additionally, there were no MFCCC exceedances at SW-DP1 for parameters analyzed during 2013.

Surface water quality monitoring at SW-DP6 began in October 2009. Many parameter concentrations measured at SW-DP6 during 2013 were generally lower than or similar to those concentrations recorded at SW-DP1 during 2013.

The annual maximum specific conductance value and chloride concentration at SW-DP6 were 113 µmhos/cm and 7.0 mg/L, respectively. Many parameter concentrations at SW-DP6 have been lower over the past two years compared to previous historical data, which has resulted in statistically significant decreasing trends (95% confidence level) for seven parameters (specific conductance, calcium, magnesium, potassium, sodium, total dissolved solids, and bicarbonate) over the past three years, and nine parameters (specific conductance, calcium, magnesium, manganese, sodium, total dissolved solids, bicarbonate, organic carbon, and chloride) over the past five years. There was only one MFCCC exceedance at SW-DP6 for parameters analyzed during 2013; iron exceeded its MFCCC of 1 mg/L during the April 2013 sampling event with a concentration of 1.39 mg/L.

Surface water quality monitoring at SW-DP5 during 2013 was completed during the April 2013 and July 2013 monitoring events. This location was dry during the October 2013 monitoring event and samples were not collected. Similar to surface water quality at SW-DP1 and SW-DP6, the surface water quality at SW-DP5 during 2013 is characterized by low parameter concentrations that do not indicate influences from landfill leachate or landfill operations. The annual maximum specific conductance value and chloride concentration at SW-DP5 were 162 µmhos/cm and 10.7 mg/L, respectively. There were no MFCCC exceedances for the parameters analyzed during 2013. There is currently insufficient data for three-year and five-year statistically significant trend analyses at SW-DP5.

• 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. Groundwater quality has been generally consistent at all three pore-water sampling locations since sampling began at these locations in 2010. The Mann-Kendall analyses indicate that there are not three-year statistically significant

increasing or decreasing trends (95% confidence level) for multiple parameters (four or more) at PWS10-1, PWS10-2, or PWS10-3. There is insufficient data for five-year trend analyses at these locations.

2013 pore-water sample quality at PWS10-1, PWS10-2, and PWS10-3 is generally similar to groundwater quality upgradient from the landfill; exceptions include higher pore-water concentrations of iron, organic carbon, and chemical oxygen demand, which is consistent with the local hydrology of the sample locations (i.e., shallow fluctuating water table with high organic matter associated with the wetland and stream).

While the pore-water sampling locations are grouped with surface monitoring locations, the samples are collected from soil and the sampling results from these locations are compared to MCL and MEG standards for groundwater. Arsenic was detected slightly above its MCL and MEG standard of 0.01 mg/L during the April 2013 sampling event with a concentration of 0.011 mg/L at PWS10-1. Iron was detected above its MEG standard of 5 mg/L at PWS10-2 during the October 2013 sampling event with a concentration of 6.07 mg/L, and at PWS10-3 during the July 2013 sampling event with a concentration of 11.4 mg/L. Manganese was detected slightly above its MEG standard of 0.5 mg/L during the July 2013 sampling event with a concentration of 0.51 mg/L at PWS10-3. All of these exceedances were consistent with periodic historical exceedances with the exception of the first time exceedance of the iron MEG standard at PWS10-2. There were no other MCL or MEG exceedances for analyzed parameters at PWS10-1, PWS10-2, or PWS10-3 during 2013. Given the location and setting of these sample locations, the exceedances are not interpreted to be related to the landfill.

6.3 Leachate

The landfill leachate is sampled and analyzed as part of the ongoing water quality monitoring program. The landfill leachate sampling location changed during the course of 2013. Landfill

leachate sampling, which had occurred at LT-4CL since 2009 from a pump station that pumps leachate collected from Cell 1, Cell 2, Cell 3A, Cell 3B, Cell 4, and Cell 7 to the onsite leachate storage tank, was moved to the on-site leachate storage tank following the April 2013 sampling event. This change was made in order to provide a representative sample of the leachate from the entire site, including leachate from Cell 5, Cell 6, and Cell 8, which are pumped to the leachate storage tank from individual pump stations. Leachate samples were collected from the on-site leachate storage tank (i.e., LT-C4LR) beginning during the July 2013 sampling event. Leachate samples associated with compliance monitoring for off-site wastewater treatment are also collected at the leachate storage tank when transport tanker trucks are being loaded. During 2013, approximately 10.9 million gallons of leachate was loaded into tanker trucks and transported from JRL for off-site treatment.

The April 2013 leachate sample collected from LT-4CL resulted in parameter concentrations consistent with historic data collected at LT-4CL since 2009. Furthermore, most parameter concentrations from samples collected at the leachate storage tank, LT-4CLR, during July 2013 and October 2013 were within the range of those collected at LT-4CL since 2009.

The specific conductance values recorded at LT-C4LR in 2013 ranged from 23,400 µmhos/cm in July 2013 to 24,100 µmhos/cm in October 2013. Chloride concentrations at LT-C4LR in 2013 ranged from 5,970 mg/L in October 2013 to 24,300 mg/L in July 2013. Since LT-C4LR is a new monitoring location, there is currently insufficient data for three-year and five-year trend analyses.

Leachate was monitored for VOCs, SVOCs, herbicides, pesticides, and PCBs during the April 2013 monitoring event at LT-4CL, and for VOCs during the July 2013 and October 2013 monitoring events at LT-4CLR. Appendix D summarizes the VOC, SVOC, herbicide, pesticide, and PCB detections above the laboratory reporting limits in 2013 at LT-4CL and LT-4CLR. At LT-4CL in April 2013, acetone (1,310 μ g/L), methyl ethyl ketone (4,110 μ g/L), phenol (140 μ g/L), and 3&4-methyohenol (1,000 μ g/L) were detected in LT-C4L at levels above their respective laboratory detection limits. Acetone and methyl ethyl ketone were also detected above their respective laboratory reporting limits at LT-4CLR during 2013. Acetone was detected at concentrations of 4,400 μ g/L in July 2013 and 4,000 μ g/L in October 2013. Methyl ethyl ketone

was detected at concentrations of 23,000 μ g/L in July 2013 and 20,000 μ g/L in October 2013. There were no detections of these parameters in groundwater, surface water, or underdrain samples collected during 2013. No herbicides, pesticides, or PCBs were detected above the laboratory detection limits in 2013 at LT-C4L.

6.4 Leak Detection

The 2013 leak detection monitoring at the leachate pond leak detection manhole location, LP-LD-1, indicates that the leachate pond liner is intact and functioning properly. Because the pond is no longer used as the primary leachate storage structure on site, this monitoring location was dropped from the monitoring program at the end of 2009 and was reduced to field parameters. Field parameter data has been consistent at LP-LD-1 since 2009 and there are no three-year or five-year statistically significant trends (95% confidence level) for field parameters analyzed at this location. As there are currently no plans to reestablish use of the leachate pond for leachate storage, LP-LD-1 was discontinued as a monitoring location following the July 2013 sampling event.

6.5 Underdrains

The water quality monitoring results from underdrain sampling locations are used to indicate whether the landfill liner systems are performing as designed. Historically, the landfill underdrain samples have had relatively low parameter concentrations and high dissolved oxygen levels, and monitoring results have been generally similar to upgradient groundwater monitoring locations. In general, slight increases in some parameter concentrations at the landfill cell underdrain locations are likely attributed to the soil disturbances associated with the construction of Cell 5, Cell 6, Cell 7, and Cell 8 during the last five years, and the stormwater management associated with the construction of those cells. The 2013 monthly landfill and leachate pond underdrain field data and the 2013 and historical tri-annual underdrain water quality data is included in Appendix A. Notable observations for the underdrain monitoring locations in 2013 are discussed below.

- Consistent with recent historical data, there was no flow at LF-UD-3A,B,
 LF-UD-7, and LP-UD-1 during 2013, and thus, no samples were collected at these locations during 2013.
- VOCs were analyzed at all sampled underdrain locations (both landfill and leachate pond underdrains) in April of 2013. There were no VOCs detected in 2013 at any of the sampled underdrain locations.
- Chloride concentrations detected in several of the landfill underdrain monitoring locations were higher during one or more of the 2013 monitoring events.

 Chloride was detected at new historical maximum concentrations at LF-UD-1 (22.5 mg/L), LF-UD-2, (35.2 mg/L), LF-UD-4 (13.2 mg/L), and LF-UD-6 (18.2 mg/L) during 2013. These chloride concentrations still remain relatively low in comparison to the concentration of chloride in the leachate (e.g., 24,300 mg/L in July 2013 at LT-4CLR). Of these locations, there are currently statistically significant increasing trends (95% confidence level) for chloride at LF-UD-2 (five-year) and LF-UD-6 (three-year). Chloride concentrations will be closely watched at these locations during 2014. Annual maximum chloride concentrations remained low at LF-UD-5 and 6 at 3.6 mg/L, LF-UD-8 at 3.5 mg/L, and LP-UD-2 at 7.2 mg/L during 2013.

The chloride concentrations from samples collected from LF-UD-1, LF-UD-2, which are located along the northwest portion of the landfill, may be attributed to a combination of the conditions that existed on the northwest side of the landfill and were remediated with the removal of the discolored soils discovered outside of the lined portion of the landfill during 2013, and the paving of the surface water drainage ditches on the northwest side. They are not interpreted to be related to the performance of the landfill liner systems. These conditions are also believed to have contributed to rising chloride concentrations (among other parameters) detected at several groundwater monitoring locations northwest of the landfill over the past several years.

The higher chloride concentrations detected at LF-UD-6 during 2013 are concurrent with higher concentrations of additional parameters. Specific conductance values at LF-UD-6 ranged from 281 µmhos/cm in February 2013 to 919 µmhos/cm in August 2013, and total dissolved solids were detected at an annual maximum concentration of 554 mg/L in July 2013. These values are higher than other underdrain monitoring locations and site groundwater. Sample collection from LF-UD-6 is unique from other sampling locations in that it is sampled from a stilling well in the underdrain line. It is suspected that recent higher parameter values, including chloride and specific conductance, may be due to constituents in the stilling well water becoming more concentrated over time due to settling and due to evaporation of water from the stilling well. This premise is supported by the lack of evidence of influence from LF-UD-6 on underdrain water quality at LF-UD-5 and 6, which is a combination of underdrain water from Cell 5 and Cell 6. In fact, eight parameters have statistically significant decreasing trends (95% confidence level) at LF-UD-5 and 6 over the past three years (as discussed below). Attempts have been made during 2014 to flush the stilling well from which samples for LF-UD-6 are collected with clean water. The sampling results from LF-UD-6 will be closely watched during 2014.

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 for parameters (95% confidence level) analyzed at the landfill and leachate pond underdrain locations. There was insufficient data for both three-year and five-year trend analyses for sample locations LF-UD-3A,B, LF-UD-7, LF-UD-8, LP-COMP, and LP-UD-1; there was insufficient data for five-year trend analyses for LF-COMP, LF-UD-5 and 6, and LF-UD-6; and there was insufficient data for three-year trend analyses at LF-UD-4. Underdrain sampling locations with statistically significant increasing or decreasing trends for multiple parameters (four or more) include the following.

 Ten parameters have statistically significant increasing trends (95% confidence level) at LF-UD-2 over the past three years, including specific conductance, dissolved oxygen, calcium, magnesium, sodium, nitrate, total dissolved solids, sulfate, chloride, and turbidity. Visual assessment of the data indicates that these increases over the past three years remain within a range of low concentrations and are generally subtle trends. Specific conductance levels have been generally stable over the past three years at LF-UD-2, and at values only moderately greater than at upgradient overburden groundwater in areas developed for landfill operations (e.g., monthly specific conductance values for LF-UD-2 in 2013 ranged from186 µmhos/cm in January to 404 µmhos/cm in October). LF-UD-2 also has statistically significant increasing trends (95% confidence level) for four parameters (temperature, Eh, dissolved oxygen, and chloride) over the past five years. As discussed above, the water quality changes at LF-UD-2 are believed to be influenced by the conditions that existed on the northwest side of the site and were remediated in 2013 with the removal of the discolored soils discovered outside of the lined portion of the landfill during and the pavement of the stormwater ditches; they are not interpreted to be related to the performance of the landfill liner systems.

- Eight parameters have statistically significant decreasing trends (95% confidence level) at LF-UD-5 and 6 over the past three years, including specific conductance, magnesium, potassium, sodium, total dissolved solids, sulfate, bicarbonate, and turbidity.
- Seven parameters have statistically significant increasing trends (95% confidence level) at LF-UD-6 over the past three years, including specific conductance, pH, magnesium, sodium, bicarbonate, alkalinity, and chloride. Parameter concentrations at LF-UD-6 are generally higher than at other underdrain monitoring locations. As discussed above, the water quality changes at LF-UD-6 are believed to be influenced by its collection method, which is a stilling well in the underdrain line.
- Four parameters have statistically significant increasing trends (95% confidence level) at LP-UD-2 over the past five years, including temperature, Eh, arsenic,

and bicarbonate. Review of the data for these locations shows groundwater quality at LP-UD-2 is generally consistent with upgradient groundwater quality.

7.0 GAS MONITORING

As part of the 2013 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.⁶ During 2013, methane gas monitoring results were below the meter detection limit. Hydrogen sulfide (H₂S) was monitored at all of the above locations in 2013 and was not detected at any of the locations. Historical and 2013 gas monitoring results for the site are contained in Appendix E. The 2013 gas monitoring results indicate no landfill-related gases are present at the monitored locations.

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⁶ GEM2000 multi-gas meter accuracy is ±0.3% for detections ranging from 0-5%, and ±0.1% for detections ranging from 5-15%.

8.0 SUMMARY AND RECOMMENDATIONS

8.1 Summary

In general, the 2013 water quality data for the JRL is consistent with the historical data for the site. With few exceptions, the downgradient groundwater quality is similar to or has parameter concentrations only slightly greater than that of the upgradient groundwater. Given that the upgradient groundwater is in close proximity to the recharge area and receives atmospheric water regularly in contrast to the downgradient wells, which represent groundwater that has traveled up to 2,000 feet through soil and rock, it is expected that the downgradient wells will have higher dissolved constituents present. The 2013 site water quality can be summarized as follows:

In 2013, groundwater monitoring wells do not show adverse impacts from the landfill or leachate transport and storage systems. Three of the monitoring wells (i.e., MW-302R, MW-223A, and MW-223B) located along the northwest perimeter of the landfill continued to show influence of site activities. As noted in the 2012 Annual Water Quality Report for the JRL, the water quality from those wells warranted further investigation, and it was interpreted that the location of site infrastructure relative to these wells (e.g., storm water runoff and detention) was contributing to the water quality changes at these locations. 2013 construction activities at the JRL included improvements to storm water runoff collection and treatment along the northwest perimeter of the landfill. The improvements included re-construction of Detention Pond #5 with a liner. Detention Pond #5 was also designed and constructed with phased treatment capabilities, including an initial phase sand filtration unit. Portions of the road and storm water drainage ditches northwest of the landfill were re-graded and paved to optimize the collection of storm water runoff for treatment along the northwest perimeter of the landfill.

During 2013 construction activities, an area was exposed along the northwest perimeter of the landfill that contained discolored soil outside of the lined portion

of the landfill. This area was cleared of this material during the summer of the 2013. SME believes that this may have been contributing to water quality changes observed at monitoring locations along the northwest perimeter of the landfill over the past several years. Also during the excavation of this soil the Cell 2 anchor trench was exposed and there were no signs that leachate had overflowed the Cell 2 containment berm.

The corrective actions implemented along the northwest perimeter of the landfill and at storm water Detention Pond #5 during 2013 were completed in the summer/fall of 2013. While water quality at MW-223A, MW-223B, and MW-302R during the October 2013 sampling event did not yet reflect any changes related to the corrective actions, improvements to water quality at these locations are anticipated and will be watched for during future sampling events.

During 2013, the remainder of the soil overburden and bedrock monitoring wells and the pore-water sampling locations either: (1) had water quality consistent with groundwater quality monitoring wells located upgradient from the landfill and outside of the area of influence from landfill construction activities; or (2) recorded parameter concentrations and trends that suggest that water quality at these locations is consistent with water quality at a site with various construction related activities associated with landfill cell construction. The latter are not interpreted to be indications of landfill leachate impacts to groundwater.

Samples from the landfill underdrains generally have low overall parameter concentrations, indicating they are not influenced by landfill leachate and verifying that the landfill liner systems are performing as designed. Similar to monitoring wells located along the northwest perimeter of the landfill underdrains for landfill cells located along the northwest perimeter of the landfill (i.e., LF-UD-1 and LF-UD-2) have exhibited water quality changes, including increased chloride concentrations during 2013. These water quality changes are believed to have been influenced by the above mentioned storm water runoff and detention infrastructure located northwest of the landfill, and the discolored soil

exposed during 2013 construction activities in an area along the northwest perimeter of the landfill outside of the lined portion of the landfill. Improvements to water quality at these locations are anticipated and will be watched for during future sampling events following the (1) clearing of the discolored soil, (2) the improvements made by re-grading and paving the roads and storm water drainage ditches along the northwest perimeter of the landfill, and (3) reconstruction of Detention Pond #5 with a liner and sand filter unit.

At LF-UD-6, parameter values are generally higher than at other landfill underdrain monitoring locations. Sample collection from LF-UD-6 is unique from other sampling locations in that it is sampled from a stilling well in the underdrain line. It is suspected that recent higher parameter values, including chloride and specific conductance, may be due to constituents in the stilling well water becoming more concentrated over time due to settling and due to evaporation of water from the stilling well. This premise is supported by the lack of evidence of influence from LF-UD-6 on underdrain water quality at LF-UD-5 and 6, which is a combination of underdrain water from Cell 5 and Cell 6. Attempts will be made during 2014 to purge the stilling well with clean water, from which samples for LF-UD-6 are collected. The sampling results will be closely watched during 2014.

- Bromide was added to the monitoring program during 2013, beginning with the April 2013 monitoring event. Bromide concentrations were low site-wide during 2013, ranging from non-detect to low concentrations (i.e., up to 0.42 mg/L at MW12-303R) near to the laboratory detection limit of 0.1 mg/L.
- A supplementary addition to the 2013 monitoring program included sampling and analyses for dissolved methane at MW12-303R, MW-223A, MW-223B, MW-302R, and MW-304A in July 2013 and at MW-223B in October 2013.
 Dissolved methane was not detected at MW12-303R, MW-223A, MW-302R, and MW-304A during July 2013. Dissolved methane sampling at monitoring well MW-223B during 2013 resulted in detections at low concentrations during the

July (40.6 μ g/L) and October 2013 (9.2 μ g/L) sampling events. Given the location of this well adjacent to the large bog area associated with the unnamed tributary to Pushaw Stream these low concentrations are interpreted to be related to natural sources.

Surface water downstream of the site along the unnamed tributary to Pushaw Stream appears to be un-affected by the landfill operations, with SW-1 and SW-3 having similar parameter concentrations as upstream location SW-2. Additionally, the 2013 samples from the SW-DP1, SW-DP5, and SW-DP6 do not show adverse impacts from the landfill.

8.2 Recommendations

Based on review of 2013 and recent historical water quality data and the recent changes in the site water quality monitoring program, SME recommends that site water quality monitoring be continued in 2014 implementing the changes to the program made in 2013.

Based on results of the dissolved methane sampling at monitoring well MW-223B during 2013, which included detections of dissolved methane at low concentrations during the July and October 2013 sampling events, SME recommends that dissolved methane be monitored at this location during the 2014 spring and summer sampling rounds.

APPENDIX A 2013 AND HISTORICAL WATER QUALITY DATA

Groundwater, Surface Water, Pore Water, Underdrain, and Leak Detection Locations

Page 1 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Field Data Part 1 of 1 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (DP-4) Specific Temperature Water Level Water Level Well Depth Corrected Eh Dissolved Alkalinity Turbidity (field) Flow Rate Conductance Depth Elevation Oxygen (CaCO3) (field) NTU µmhos/cm Standard Units Degrees Celcius Feet Feet яV mg/L mg/L cfs @25°C Type Sample ID DP-4 1/30/2004 XX GWDP4X039 965 6.3 14.12 155.25 0.6 14.8 5/6/2004 XX GWXXXX00D 14.78 154.59 601 6.3 9.8 272 290 7.1 7/26/2004 XX GWXXXXXX41 417 7.1 14.6 13.92 155.45 318 6 255 36.2 10/26/2004 XX GWXXXXX07H 13.81 346 16.5 155.56 27.04 266 5 230 9.9 5/9/2005 XX GWXXXXX13I 264 6.9 13.25 215 9.6 156.12 239 6 8/1/2005 XX GWXXXXX176 295 6.7 15.8 13.8 155.57 295 2 175 16.8 GWXXXX1A4 9/20/2005 XX 380 7.3 16.6 14.38 154.99 27.06 228 4 135 0.7 5/22/2006 XX GWXXXX1EJ 340 6.8 10.3 14.59 188 154.78 1 105 27.8 GWXXXX1HG 7/24/2006 XX 270 7.1 19.6 14.52 154,85 251 150 1 3 9/11/2006 XX GWXXXX209 333 6.2 19.2 14.96 154,41 27.07 125 238 4.3 5/14/2007 XX GWXXXX23G 381 6.8 11.6 15 154.37 196 75 28 7/23/2007 XX GWXXXX280 274 15.28 154.09 233 6 175 18.6 6.4 7.2 9/10/2007 XX GWXXXX2AA 336 6.5 15.3 15.65 153.72 27.1 337 115 9.6 5/19/2008 XX GWXXXX2E4 356 6.6 9.5 14.4 154.97 -51 2 150 5.7 7/29/2008 XX GWXXXX2H8 17.4 17.19 152.18 105 362 6.4 64 1 5.9 10/27/2008 XX GWXXXX2JI 366 6.4 11.7 15.3 154.07 27.05 154 75 4.2 4/13/2009 XX GWXXXX336 442 6.3 7.1 14.55 154.82 279 70 8.5 4 7/6/2009 XX GWXXXX37A 380 67 15.3 14.59 154.78 308 5 130 12.1 10/26/2009 XX GWXXXX3F5 13.2 З 499 6.5 13.68 155.69 27.05 253 100 4.5 XX GWXXXX404 4/26/2010 271 13.2 14.8 100 6.3 154.57 216 3 3.3 7/19/2010 XX GWXXXX438 100 5.6 23.9 15.41 153.96 345 2 125 8.1 XX GWXXXX46C 10/18/2010 14.98 2.6 396 6.3 11.3 154.39 27.1 352 2 50 XX GWXXXX4AD 4/25/2011 277 6.4 12.2 13.9 155,47 282 70 2.5 7/18/2011 XX GWXXXX4EB 282 6.4 18.2 14.35 155.02 233 95 0.6 XX GWXXXX4I6 10/24/2011 256 6.7 13.8 16.95 152.42 27.06 312 8.0 70 1.6 4/25/2012 XX GWXXXX52G 334 6.3 9.1 232 120 14.1 155.27 5.9 7/25/2012 XX GWXXXX57F 313 6.2 13.8 154.07 25 120 3.7 15.3 0.6 10/24/2012 XX GWXXXX5E6 302 7.3 9.4 14.08 155.29 27.06 221 100 7.9 4/24/2013 XX GWXXXX5IH 293 6.5 7.2 14.38 154.99 240 70 10 10/30/2013 XX GW0P4X689 273 5.8 10.7 149 154.47 27.06 217 0.8 70 3.9 LF-COMP 5/25/2011 XX LFCMPX4FE 405 23.3 352 100 0.07 6/20/2011 XX LFCMPX4G5 370 7 23.8 376 125 7/19/2011 XX LFXXXX4F1 368 6.8 24.7 404 4 113 Ω XX LFCMPX4JF 8/3/2011 223 7.1 22.7 337 5 90 129.3 10/8/2011 XX LFCMPX4,4 371 7.1 24.8 370 6 80 0.6 XX LECMPX50 11/30/2011 351 7.1 20 382 90 24.9 LFCMPX508 12/29/2011 XX 362 7.4 17.2 341 125 1.1 6 1/26/2012 XX LFCMPX58I 3B1 7.5 372 6 140 17 1.05 2/24/2012 XX LFCMPX599 366 13.7 371 5 0.91 7.5 145 3/23/2012 XX LFCMPX5A0 t XX LECMPXSAB 4/16/2012 XX LFXXXX53B 4/24/2012 314 17.8 85 7.2 403 6 4.4 XX LFCMPX5B2 5/3/2012 400 18.7 140 7 446 6 11.82

444

383

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6

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150

0.07

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6/29/2012

7/31/2012

8/31/2012

XX LFCMPX5BO

XX LFCMPX5C4

XX LFCMPX5F5

394

389

421

6.9

7.3

6.9

22.5

29.7

22.1

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

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|------------|------------|--------------|-------------------------|----------------|-----------------|----------------------|--|--------------|--------------|---------------------|-------------------------------|-------------------|-----------|--|---------------------------------------|-------------|-------------------|---------|
| LF-COM | P) | | Specific Conductance | pН | Тетрегаште | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | | |
| Date 1 | Гуре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Fe e t | Feet | Feet | πV | mg/L | mg/L | NTU | ofs | | | | | |
| 9/27/2012 | | | 373 | 7.3 | 21.2 | | | | 348 | 8 | 150 | 0.14 | | i | | | | |
| 11/13/2012 | XX | LFCMPX5G7 | 307 | 7.6 | 17.7 | | | | 355 | 6 | 135 | 3.91 | | | | | | |
| 12/31/2012 | ХХ | LFCMPX5G1 | 306 | 7.7 | 11.4 | 1 | | | 406 | 8 | 130 | 5.27 | | | | | | |
| 1/30/2013 | хх | LFCMPX60E | 239 | 7.1 | 15.1 | | | | 426 | 7 | 100 | 9.85 | | | | | | |
| 2/15/2013 | хх | LFCMPX602 | 306 | 7.5 | 13.5 | | | | 407 | 6 | 145 | 3.75 | | | | - | | |
| | | LFCMPX617 | 294 | 8 | 16.7 | 1 | | | 333 | 8 | 170 | 0.74 | | | | · · | | |
| 4/24/2013 | XX | LFCMPX61J | 262 | 7.1 | 15.9 | | | | 347 | - 5 | 160 | D.39 | | † · · · · · · · · · · · · · · · · · · | | | | |
| 5/30/2013 | | LFCMPX62B | 271 | 7.3 | 20 4 | | | | 331 | 8 | 160 | 0.4 | | 1 | | + | | |
| 6/26/2013 | _ | LFCMPX633 | 311 | 7.8 | 20 2 | | | | 397 | 8 | 150 | 1.48 | | <u> </u> | | | | |
| 8/20/2013 | | LFCMPX69D | 397 | 7.1 | 25.3 | - | | | 383 | —-· 6 <u>-</u> - | 150 | 0.44 | | : | | | | |
| 9/26/2013 | XX | LFCMPX691 | 384 | 8.1 | 18.3 | | | | 399 | 8 | 125 | 0.72 | | 5 : | | +- | | |
| 11/25/2013 | | LFCMPX8A6 | 370 | 8.4 | 7.2 | - · | ! | | 371 | 8 | 160 | 0.32 | | ! | | +- | \ \ | ···· |
| 12/17/2013 | | LFCMPX6D6 | 359 | 7.5 | 8.9 | | i | | 433 | 8 | 185 | 5.86 | | | | +- | | |
| LF-UD- | • | - | 000 | | 0.0 | · | <u>: </u> | L | | | 165 | 3.00 | | | | 1 | | |
| | | LEUDAVASE | 245 | | 9 | | , | | 200 | | 1 | | | | | | | |
| 7/28/2004 | | | 245 | 6.6 | | | 1 | | 305 | 8 | 120 | 0 | | | | | | |
| 8/30/2004 | | LFUD1X080 | H2 | H2 | H2 | | 1 | | H2 | H2 | H2 | H2 | | | | | | |
| | | LFUD1X086 | 366 | <u> </u> | 10.2 | | <u> </u> | | 208 | 5 | 100 | 0.8 | | | | <u> </u> | | |
| 10/27/2004 | | LFUD1X076 | 230 | 6.7 | 12.5 | | | | 326 | 6 | 155 | | | | | | | |
| 11/23/2004 | 1 | LFUD1X101 | 258 | 7.6 | 10.4 | | | | 249 | 6 | 100 | 0.8 | | | | | | |
| 12/22/2004 | | LFUD1X107 | 235 | 7.1 | 9.5 | | | | 201 | 8 | 120 | 4 | | | | . | | |
| 1/26/2005 | | LFUD1X119 | 317 | 7.9 | 5.2 | | | | 300 | 6 | 115 | 0.1 | | | | | | |
| 2/24/2005 | | LFUD1X11G | D | D | D | | | | . D | D | D | D | | | | | | |
| 3/29/2005 | | LFUD1X14H | 182 | 6.3 | 8.6 | _ | | | 337 | 6 | 75 | 0 | | | | | | |
| | | LFUD1X152 | H2 | H2 | H2 | L | | | HI2 | H2 | H2 | H2 | | | | | | |
| 5/11/2005 | | LFUD1X137 | 246 | 6.3 | 11.9 | | | | 330 | 6 | 135 | 0 | | | | | | |
| 6/22/2005 | | LFUD1X17A | 287 | 7.4 | 13.4 | | | | 426 | 6 | 110 | 0 | | | | | | |
| 7/27/2005 | XX . | LFUD1X18F | 185 | 7.1 | 17.1 | | | | 309 | 6 | 125 | 1.2 | | | | | | |
| 8/29/2005 | XX : | LFUD1X180 | 238 | 7.4 | 16.6 | | | | 259 | 6 | 100 | 4.6 | | | | | | |
| 9/21/2005 | XX | LFUD1X19D | 155 | 7.6 | 16.2 | | · ··· · - · · · | | 294 | 6 | 100 | 1.1 | | | | | | |
| 10/21/2005 | xx] | LFUD1X1BA | 246 | 8.1 | 9.1 | - · · · · · · - · · | | | 220 | 5 | 110 | 3.8 | | | | | | |
| 11/21/2005 | XX | LFU01X1BH | 218 | 7 | 13.2 | | | | 231 | 2 | 100 | 2.6 | | i | | | | |
| 12/27/2005 | xx | LFUD1X1C3 | 256 | 7.9 | 2.6 | | | | 274 | 5 | 90 | 2.2 | | | | 1 | | |
| 1/23/2006 | хх | LFUD1X1C6 | 246 | 7.5 | 8 | | | | 428 | 6 | 80 | 1.2 | | | | | | |
| | _ | LFUD1X1CD | 194 | 7 | 8.6 | | | | 387 | 5 | 100 | 0.4 | 0.0033 | | | | | |
| | | LFUD1X1D0 | 247 | 7.1 | 8.1 | | | | 447 | 6 | 85 | 2.5 | 0.0033 | | | + | | |
| | | LFUD1X1G1 | 211 | 7.6 | 13.2 | · · · | | | 363 | 6 | 105 | 2.2 | 0.00446 | | | - | + | |
| | XX | LFUD1X1E8 | 247 | 5.8 | 13.2 | · · · -—— | | | 369 | 6 | 135 | 0.7 | 0.00223 | | | +- | -+ | |
| 6/13/2006 | | LFUD1X1IA | 295 | 6.5 | 15.2 | · | | | 469 | 5 | 140 | 0.1 | 0.00223 | | | | | |
| 7/25/2006 | XX | LFUD1X1H5 | 256 | 6.6 | 18 4 | | + | | 173 | | 175 | 1.2 | 0.0056 | | · · · · · · · · · · · · · · · · · · · | · | . | |
| 8/16/2006 | | LFUD1X20H | 248 | 7.2 | 169 | | | | 348 | 0 | 90 | 1. <u>Z</u> | 0.0022 | | | ··· | | |
| | | LFUD1X1JI | 211 | 7.2 | 14.7 | | + | | 279 | - | 100 | 1.2 | | ├····· | | + | | |
| 10/19/2006 | | LFUD1X213 | 280 | 7.5 | 14.7 | | ł | | 279 | 6 | 150 | | 0.0011 | | | | + | |
| | | LFUD1X219 | 249 | | 7.4 | | <u> </u> | | 235 | - 5 | | 0 | | <u> </u> | | | | |
| | | LFUD1X218 | 266 | 8.3 | | | | | 1 | | 115 | 2 | 0.0045 | | | | | |
| | | | | | 7.2 | | | | 312 | 3 | 100 | 4 , | 0.0045 | | | +- | $-\!\!\!\!+$ | |
| | | LFUD1X247 | 373 | 6.3 | 7.5 | | | | 295 | 2 | 105 | 1.3 | 0.0067 | | | - | \longrightarrow | |
| | | LFUD1X255 | 340 | 7.2 | 6.8 | | | | 217 | <u>6</u> | 75 | 0 . | 0.0033 | | | | | |
| 3/21/2007 | | LFUD1X25C | 102 | 7.4 | 9.4 | | | 1 | 299 | 6 | 115 | 0.2 | 0.0022 | L | | | | |
| 4/26/2007 | | LFUD1X25J | 375 | 7.4 | 12.8 | - | | | 229 | 5 | 135 | 1 | 0.0033 | | | | | |
| 5/16/2007 | xx l | LFUD1XZ35 | 302 | 6.7 | 10.2 | 1 | 1 | 1 | 335 | 5 | 140 | 1 | 0.0011 | | | | [] | |

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|------------|-----------------|------------|-------------------------|----------------|-----------------|--|--|--|-----------------|---------------------|-------------------------------|-------------------|-----------|--|--|
| (LF-UD-1) |) | · · | Specific Conductance | pН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | |
| Date 1 | Гуре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV _. | m y/ L | mg/L | NTU | cfs | | |
| 6/21/2007 | xx | LFUD1X289 | 264 | 6.3 | 16.8 | | ; | i | 382 | | 130 | 1.8 | 0.0022 | | |
| | | LFUD1X279 | 353 | 7.6 | 18.6 | ł ···· | i | | 302 | В | 195 | 2.6 | 0.0022 | | |
| · }- | | LFUD1X2AJ | 305 | 6.9 | 17.3 | · · · | 1 | i | 289 | В | 140 | 0.2 | 0.0006 | | |
| ·· | | LFUD1X29J | 300 | 0.5 | <u> </u> | | ì | | 1 1 | - | 1 | 1.2 | 0.0000 | | |
| | | LFUD1X2B5 | 611 | 7.9 | 12 1 | · · | 1 | 1 | 235 | <u>.</u> | 150 | 0.8 | 0.0011 | | |
| | | LFUD1X28B | | | | | | | 324 | ₿ | 125 | 0.8 | 0.0022 | | |
| | | LFUD1X28H | 359 | 7.3 | 97 | | | 1 | | i | | 1.2 | 0.0022 | | |
| | | | 360 | 7.9 | 7.4 | | | j | 294 | Б. | 110 | | | <u> </u> | |
| | | LFUD1X2C3 | 261 | 6.6 | 10.4 | | - | ļ · | 273 | 6 | 145 | 08 | 0.0022 | i | |
| | XX | LFUD1X2EF | 317 | 6.8 | 5.1 | | | ! | 374 | 5 | 120 | 36 | 0.0022 | ; _ | |
| | ,,, | LFUD1X2F1 | 279 | 7.2 | <u>D.6</u> | | | <u> </u> | 352 | 6 | 115 | 49 | 0.0022 | | l ———— |
| | XX | LFUD1X2F7 | 459 | 7.3 | 13.6 | | - | | 305 | 5 | 115 | 1.1 | 0.0022 | | l |
| 5/20/2008 | XX | LFUD1X2DD | 304 | 7.4 | 12.2 | | | | 400 | В | 150 | 8.0 | 0.0022 | ! | L |
| 6/9/2008 | XX | LFUD1X2HH | 336 | 7.2 | 16.1 | L | 1 | | 293 | 5 | 100 | 1.2 | 0.0022 | ! | |
| 7/28/2008 | XX | LFUD1X2GH | 314 | 6.7 | 19.2 | | ⊥ | ! | 404 | 5 | 165 | 1.5 | 0.0022 | i | |
| 8/28/2008 | XX | LFUD1X307 | 438 | 7.3 | 21.9 | | | | 376 | 5 | 160 | 1.2 | 0.0006 | | 1 . |
| 9/25/2008 | XX | LFUD1X30D | 295 | 6.7 | 16.7 | | 1 | 1 | 239 | Б | 100 | 0.9 | 0.0006 | i | |
| 10/28/2008 | XX | LFUD1X2J7 | 300 | 7.3 | 13.5 | | 1 | | 298 | 8 | 135 | 0 | 0.0004 | į. | |
| | XX | LFUD1X30J | 324 | 8.1 | 11.f | | | : | 365 | 5 | 120 | 0.5 | 0.0017 | | |
| | XX | LFUD1X315 | 328 | 7.3 | 8.7 | | | . 1 | 208 | 6 | 175 | 0.5 | 0.0022 | | |
| | XX | LFUD1X33G | 280 | 7.9 | 5.3 | | | Ţ | 247 | | 95 | 1.2 | 0.0033 | | |
| | XX | LFUD1X343 | 365 | 7.1 | 9.4 | | | ; | 388 | 5 | 110 | 0.8 | 0.0011 | | <u> </u> |
| | - XX | LFUD1X34B | 283 | 6.8 | 9 | | · | : | 276 | 6 | 145 | 1.4 | 0.0017 | : | <u> </u> |
| | XX | LFUD1X32F | 371 | 7.9 | 11.2 | + | + | <u>:</u> | 424 | 5 | 150 | 0.5 | 0.0022 | 1 | ··· |
| | | LFUD1X34J | 415 | 6.8 | 16.2 | · · · | 1 | | 264 | 5 | 135 | 4 | 0.0022 | · · · · · · · · · · · · · · · · · · · | l |
| | | LFUD1X357 | | | | | | • | H2 | H2 | H2 | H2 | H6 | ···· | l |
| | | | H2 | H2 | H2 | - | + | : | | | _ | | | | l · — — — — — — — — — — — — — — — — — — |
| | | LFUD1X36J | H2 | H2 | H2 | | | • | H2 | H2 | H2 | H2 | H6 | | |
| | | LFUD1X381 | F6 | F6 | F6 | | | : | F6 | F6 | F6 | F6 | F6 | | ' |
| | | LFUD1X38A | H2 | H2 | H2 | ļ | | <u>i </u> | H2 | H2 | H2 | H2 | H6 | | i |
| 10/27/2009 | | LFUD1X3EE | H2 | H2 | H2 | <u> </u> | | : | H2 | H2 | H2 | H2 | H6 | | |
| 11/11/2009 | | LFUD1X3FH | F6 | F6 | F6 | <u> </u> | | <u>: </u> | F6 | F6 | F6 | F6 | F6 | | <u> </u> |
| 12/8/2009 | XX | LFUD1X3G7 | F6 | F6 | F6 | | |] | | F6 | F6 | ₽6 | F6 | | L |
| 1/21/2010 | XX | LFUD1X3GJ | F6 | F6 | F6 | | : | 1 | F6 | F6 | F6 | F6 | F6 | | L |
| 2/23/2010 | XX | LFUD1X3HB | F6 | F6 | F6 |] | | i i | F6 | F6 | F6 | F6 | F6 | | |
| 3/17/2010 | XX | LFUD1X3I0 | 389 | 6.5 | 15.4 | | | ! | 375 | 6 | 150 | 2.6 | 0.0006 | i | |
| 4/27/2010 | ХХ | LFUD1X3JD | 356 | 7.5 | 13.4 | | | , | 245 | 6 | 160 | 0.2 | 0.0011 | | |
| 5/18/2010 | ХX | LFUD1X40G | F6 | F6 | F6 | ļ | | : | F6 | F6 | F6 | F6 | F6 | | |
| 6/22/2010 | | LFUD1X415 | F6 | F6 | F6 | · | 1 | | F6 | F6 | F6 | F6 | F6 | | 1 |
| 7/20/2010 | XX | LFUD1X42H | F6 | F6 | F6 | | †···· | | F6 | F6 | F6 | F6 | F6 | | t — — — |
| | | LFUD1X449 | F6 | F6 | F6 | | | • · · - · · · - · · · - · · · · | F6 | F6 | F6 | F6 | F6 | | <u> </u> |
| | | LFLID1X441 | F6 | F6 | F6 | | | i- ·-· | F6 | F6 | F6 | F6 | F6 | | h — — — |
| 0/19/2010 | - <u>xx</u> | LFUD1X461 | F6 | F6 | F6 | - | | ķ | F6 | F6 | F6 | F6 | F6 | | |
| b. | | | | | | | | · · · | | | | | F6 | | <u> </u> |
| | | LFUO1X473 | F6 | F6 | F6 | | ļ | , | F6 | F6 | F6 | F6 | | <u></u> | · |
| 2/16/2010 | | LFUD1X47J | H2 | H2 | H2 | | ļ | | H2 | H2 | H2 | H2 | H2 | | 1 |
| | | LFU01X476 | 356 | 8 | 12.8 | <u> </u> | | <u> </u> | 244 | 8 | 485 | 0 | 0.0006 | | |
| | | LFUD1X4BG | 483 | 7.1 | 13.6 | <u> </u> | ļ | : | 310 | 5 | 345 | 2.3 | 0.0011 | . _ | |
| 3/25/2011 | | LFUD1X4C6 | H2 | H2 | H2 | <u>: </u> | 1 | : | | H2 | H2 | H2 | H2 | | |
| 4/26/2011 | | LFUD1X4A2 | 331 | 7.4 | 15.4 | | L | : | 360 | 5 | 240 | 0.5 | 0.0022 | | |
| 5/25/2011 | XX | LFUD1X4F5 | H2 | H2 | H2 | 1 | | | H2 | H2 | H2 | H2 | H2 | | <u> </u> |
| 6/20/2011 | | LFUD1X4FG | H2 | H2 | H2 | | | : | H2 | H2 | H2 | H2 | H2 | | I |
| 7/19/2011 | 3/5/ | LFUD1X4E0 | 347 | 6.7 | 24.4 | | 1 | • | 290 | 4 | 125 | 0 | 0.0022 | | |

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| | | | | | | | | Lieid | Data Part i t | ,, | | | | | 4 BLANCHAF CUMBERLAN | ND CENTER, | , ME 04021 |
|------------|------|------------------------|-------------------------|----------------|-----------------|---|--|--|---------------|---------------------|-------------------------------|-------------------|-----------|--|-------------------------|-------------------|--|
| (LF-UD-1 |) | - | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalimity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | <u>. </u> |
| Date - | Гуре | Sample ID | μmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTŲ | cfs | | | | |
| 8/3/2011 | XX | LFUD1X4J6 | H2 | H2 | H2 | | 1 | Τ | H2 | H2 | H2 | H2 | H2 | 1 | | | |
| 10/8/2011 | XX | LFUD1X4IE | 353 | 7 | 23.7 | | | | 375 | 6 | 100 | 0.1 | 0.0006 | | | | |
| 10/25/2011 | XX . | LFUD1X4HF | 368 | 6.8 | 17.7 | | -)· · ·· | | 311 | 6 | 200 | 4.5 | 0.0006 | | | | - |
| 11/30/2011 | XX | LFUD1X509 | 349 | 7.6 | 17.6 | | · | · · · · · · · · · · · · · · · · · · · | 361 | 5 | 115 | 0.56 | 0,0006 | | | | · |
| 12/29/2011 | ХX | LFUD1X4JH | 337 | 8 | 14.2 | | | | 324 | 6 | 115 | 0.1 | 0.0011 | | | | .~ |
| 1/26/2012 | ΧХ | LFUD1X589 | 173 | 7.5 | 13.7 | | | | 371 | 8 | 150 | 2.03 | 0.0006 | ·+ | ···· | | |
| 2/24/2012 | ΧХ | LFUD1X591 | 382 | 7.4 | 15.3 | i . | | | 371 | 5 | 150 | 2.23 | 0.0006 | + | | | |
| 3/23/2012 | XX | LFUD1X59Ç | 349 | 7.2 | 16.7 | · · · · · · | | | 399 | . 6 | 150 | 0.22 | 0.0003 | | | | |
| 4/16/2012 | XX | LFUD1X5A3 | 359 | 7 | 17.3 | | | | 387 | 6 | 150 | 0.04 | 0.0006 | | | | |
| 4/24/2012 | ХX | LFUD1X525 | H2 | H2 | H2 . | | | | H2 | H2 | H2 | H2 | H2 | | | | |
| 5/3/2012 | XX | LFUD1X5AE | 364 | 7 | 16.7 | | | | 438 | 8 | 150 | 0.79 | 0.0006 | | | | |
| 6/29/2012 | XX | LFUD1X585 | 338 | 6.6 | 21.4 | | | | 427 | 6 | 125 | 0.64 | 0.0006 | | | | |
| 7/24/2012 | ХX | LFUD1X574 | 355 | 6.5 | 20.4 | | † | | 316 | | 200 | 1.8 | 0.0022 | | | - | |
| 7/31/2012 | | LFUD1X5BG | 375 | 7.1 | 24.1 | | 1 | | 341 | 8 | 160 | 0.17 | 0.0003 | ! | | | |
| 8/31/2012 | XX | LFUD1X5EH | · 384 | 6.7 | 21.1 | | | | 343 | 5 | 135 | 0.32 | 0.0003 | : | | | |
| 9/27/2012 | хx | LFUD1X5F8 | 317 | 8.1 | 18.6 | | | | 375 | 6 | 125 | 0.01 | 0.0003 | i | | + | |
| 10/23/2012 | XX | LFUD1X5DF | F6 | F6 | F6 | | 1 | | F6 | F6 | F6 | F6 | F6 | | | | |
| 11/13/2012 | | LFU01X5FJ | 288 | 8 | 14.8 | | 1 | | 362 | - 6 | 135 | 0.87 | | | | | |
| 12/31/2012 | | LFUD1X5GA | 290 | 7.7 | 10.6 | | † | | 409 | 8 | 120 | 0.72 | | | | | |
| 1/30/2013 | | LFUD1X606 | 295 | 7.1 | 13.3 | | 1 | | 380 | - 6 | 125 | 0.65 | 0.0002 | | | | |
| 2/15/2013 | | LFUD1X5JE | 298 | 7.5 | 10 | | • | | 404 | 6 | 145 | 0.03 | 0.0002 | | | 1 | |
| 3/28/2013 | + | LFUD1X60J | 291 | 8.1 | 14.1 | · - · - · · - · - · - · - · - · - · - · | | | 359 | | 150 | 0.41 | 0.0002 | | | | |
| 4/23/2013 | | LFUD1X5I6 | 358 | 7.5 | 16.1 | | | | 270 | | 100 | 1.1 | 0.0022 | · · · · · · · · · · · · · · · · · · · | | | |
| 4/24/2013 | XX | LFUD1X61B | . 230 | 7.1 | 14.6 | | · | | 331 | <u>8</u> | 150 | 0.28 | 0.0002 | | | | |
| 5/30/2013 | XX | LFUD1X623 | 240 | 7.5 | 25.9 | | | | 342 | 8 | 125 | 0.16 | 0.0003 | | | - 1 | |
| 6/26/2013 | XX | LFUD1X62F | 308 | 7.8 | 19.5 | | †··· | | 366 | 8 | 175 | 0.81 | 0.0003 | | | | |
| 7/30/2013 | XX | LFUD1X64B | 362 | 6.8 | 21.5 | | | | 262 | 6 | 100 | 0.9 | 0.0022 | | - | 1 | |
| 8/20/2013 | XX | LFUD1X695 | 348 | 7 | 23.6 | | | | 388 | 6 | 125 | 0.75 | 0.0001 | | - | | |
| 9/26/2013 | XX | LFUD1X68D | 334 | 7.9 | 18.1 | | 1 | | 420 | 8 | 125 | 0.65 | 0.0003 | 1 | | | |
| 10/29/2013 | хх | LFUD1X674 | F 6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | F6 | | — | - | |
| 11/25/2013 | хx | LFUD1X69I | Н8 | HB | H8 | | | | H8 | H8 | H8 | . не | H8 | | | | |
| | xx | LFUD1X6CI | 317 | 7.5 | 8.8 | | | | 334 | 10 | 160 | 3.52 | 0.00017 | | | + | |
| LF-UD-2 | 2 | | | .4 | | | | ·- · · <u> </u> | | | | 1 | | | | l | |
| 7/28/2004 | хх | LFUD2X05F | 231 | 6.8 | 11.5 | | T | | 207 | В | 135 | ···· ō | | | | ——— | |
| | | LFUD2X081 | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | | | | + | |
| | | LFUD2X087 | 280 | 6.9 | 11,1 | | · | | 206 | 6 | 125 | 0 | | | ·· | + | |
| 10/27/2004 | | LFUD2X077 | 224 | 7.6 | 13.6 | | | | 336 | 8 | 130 | 0 | | | - | + | |
| | . — | UFUD2X102 | 224 | 7.6 | B.4 | | 1 | | 234 | 6 | 100 | 1.2 | | | – | \longrightarrow | |
| 12/22/2004 | | LFUD2X108 | 208 | 7.4 | 8.3 | | 1 | | 211 | 8 | 85 | 5.6 | | j · · · | | | |
| 1/26/2005 | | LFUD2X11A | 286 | 7.8 | 68 | - | † | | 246 | 5 | 110 | 0.6 | | ļ ļ | - | + | |
| | | LFUD2X11H | | 1:57 D | - D | | <u> </u> | | 275 | D | D D | D D | - | | | + | |
| | | LFUD2X14t | 182 | 6.3 | 86 | | | | 337 | 6 | 75 | 0 | | } ; | ļ - | + | |
| | | LFUD2X153 | H2 | H2 | H2 H2 | ··· · · - | ····- | | H2 - | H2 | HI2 | H2 | | ļ <u>-</u> [| : — | + | |
| | | LFUD2X138 | 193 | 6.8 | 14.6 | | | | 306 | 8 | 145 | 0 | | | - - | + | |
| | | LFUD2X17B | 265 | 7.5 | 14.4 | ······· | | | 240 | | 135 | 12 | | | | \longrightarrow | |
| | | LFUD2X18G | 187 | 7.5 | 18 | | · · · · · · · · · · · · · · · · · · · | | 320 | - 5 | 125 | 1.2 | | | <u> </u> | - | |
| 7/27/20051 | | | | | | | | | | | | | | + | | \longrightarrow | |
| | XX | LFUD2X1B1 | 221 | 1 72 | 154 1 | | | | 256 | F | . 105 | | | | | | |
| 8/29/2005 | | LFUD2X1B1 LFUD2X19E | 221 291 | 7.2 7.7 | 15.4 16.5 | | | | 256 287 | 6 6 | 105 | 09 12 | | | | | |

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| Date Typ 11/21/2005 X 12/27/2005 X 1/23/2006 X 2/23/2006 X 3/15/2006 X 4/27/2006 X 6/13/2006 X | | Specific Conductance µmhos/cm @25°C | рН | Temperature | Water Level | Water Level | | | | | | | | | | |
|---|--------------|--|-----------------|-----------------|-------------|--------------|--------------|--------------|---------------------|-------------------------------|-------|-----------|--|---------------|----------|-----|
| 11/21/2005 X3 12/27/2005 X3 1/23/2006 X3 2/23/2006 X3 3/15/2006 X3 4/27/2006 X3 | (X LFU02X180 | | Carrada - 11-6- | Desert Calif | Depth | Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | | Flow Rate | | | | |
| 1/2/27/2005 XX 1/23/2006 XX 2/23/2006 XX 3/15/2006 XX 4/27/2006 XX 5/24/2006 XX | | | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cfs. | | | | • |
| 1/23/2006 XX 2/23/2006 XX 3/15/2006 XX 4/27/2006 XX 5/24/2006 XX | | 209 | 7.1 | 12.9 | <u></u> | : | | 298 | 3 | 125 | 1.8 | | | | Τ'''' | |
| 2/23/2006 X3 3/15/2006 X3 4/27/2006 X3 5/24/2006 X3 | | 235 | 7.8 | 2.4 | | | | 287 | 5 | 100 | 2.1 | | | | | |
| 3/15/2006 XX 4/27/2006 XX 5/24/2006 XX | | 218 | 7.6 | 9.7 | | | | 413 | 6 | 95 | 1.3 | | | | | |
| 4/27/2006 XX | | 237 | 7.6 | 10.2 | | <u> </u> | | 377 | 5 | 105 | 0.2 | 0.0067 | | | | |
| 5/24/2006 X | | 232 | 7.5 | 10.3 | | | | 423 | 5 | 110 | 1.3 | 0.0067 | | | | |
| | | 234 | 7.1 | 10.5 | | | | 366 | 6 | 125 | 2.2 | 0.00668 | | | | |
| 6/13/2006 Y | | 204 | 7.1 | 15.2 | | | | 403 | 6 | 120 | 0.8 | 0.00446 | | | | |
| | | 231 | 6.9 | 16.4 | | | | 485 | 6 | 125 | 0 | 0.0067 | | <u> </u> | | |
| 7/25/2006 X | -·. | 235 | 7 | 19.3 | | | | 187 | 6 | 160 | 1.4 | 0.0067 | | | | |
| 8/16/2006 XX | | 230 | 7.4 | 18.3 | | | | 377 | 5 | 80 | 0 | 0.0056 | | | | |
| 9/11/2006 XX | | 134 | 7.3 | 16 | | | | 255 | 6 | 115 | 0.8 | 0.0022 | | | <u> </u> | |
| 10/19/2006 XX | | 301 | 7.4 | 14.7 | | | | 244 | 6 | 130 | 0.2 | | | 1 | | |
| 11/21/2006 XX | | 246 | 8.3 | 11 | | | | 208 | 2 | 100 | | 0.0056 | | | | |
| | X LFUD2X21F | 274 | 8.3 | 10.1 | | | | 214 | 4 | 100 | 2 | 0.0067 | | <u></u> | | |
| 1/24/2007 XX | | 305 | 6 | 3.8 | | | | 336 | 4 | 100 | 2 | 0.0056 | | | | |
| 2/22/2007 XX | | 288 | 7.8 | 6.9 | | | | 219 | 5 | 80 | 0 | 0.0056 | | Ì | | |
| 3/21/2007 XX | | 154 | 6.8 | 10.6 | | | | 297 | 5 | 85 | 0.3 | 0 0022 | | | | |
| 4/26/2007 XX | | 250 | 7.9 | 16,7 | | | | 202 | 6 | 110 | 0.6 | 0.0045 | | | | |
| 5/16/2007 XX | | 246 | 7.6 | 12.6 | | | | 380 | 6 | 120 | 03 | 0 0033 | | | | |
| 6/21/2007 XX | | 217 | 6.5 | 19.1 | | | | 353 | 6 | 120 | 1.8 | 0.0045 | | Ī | Τ_ | |
| 7/25/2007 XX | | 274 | 7.5 | 18.7 | | | | 221 | 6 | 155 | 1.2 | 0.0045 | | <u> </u> | T: | |
| 8/16/2007 XX | | 252 | 7.2 | 18.3 | | | | 315 | 6 | 140 | 0.5 | 0.0011 | | | | |
| 9/12/2007 XX | | 272 | 8.3 | 17 | | | | 265 | 5 | 120 | 1.8 | 0.0011 | | | | |
| 10/24/2007 XX | | 377 | 8.3 | 12.9 | | | | 221 | 6 | 140 | 1.2 | 0.0022 | | | | _ 1 |
| 11/27/2007 XX | | 319 | 7.5 | 12.3 | | | | 252 | 6 | 140 | 0.6 | 0.0045 | | | | |
| 12/18/2007 XX | | 248 | 9.1 | 6.2 | | | | 302 | 6 | 75 | 1.4 | 0.0011 | | | | |
| 1/9/2008 XX | X LFUD2X2C4 | 174 | 6.6 | 11.4 | | | | 241 | 6 | 130 | 0.9 | 0.0045 | | | | |
| 2/25/2008 XX | | 249 | 7.7 | 9 | | | | 344 | 5 | 105 | 1 | 0.0045 | | | | |
| | X (LFUD2X2F2 | 243 | 8 | 2.2 | | | | 316 | 5 | 80 | 1.5 | 0.0045 | | | | 1 |
| | X LFUD2X2F8 | 246 | 7.3 | 15.4 | | | | 311 | 5 | 90 | . 0.3 | 0.0045 | | | | |
| 5/20/2008 XX | X LFUD2X2DE | 253 | 7.9 | 14.3 | | | | 377 | 6 | 140 | 1.2 | 0,0045 | T | " | T: | 1 |
| 6/9/2008 XX | X LFUD2X2HI | 257 | 7.5 | 17 | | | ł | 294 | 5 | 75 | 0.1 | 0.0045 | | · · · · · · · | ļ-· | |
| 7/28/2008 XX | X LFUD2X2GI | 254 | 6,9 | 20.1 | | | | 410 | 5 | 170 | 1.1 | 0.0033 | | | T | |
| 8/28/2008 XX | X LFUD2X308 | 430 | 79 | 19.9 | | T | [| 353 | 5 | 140 | 1.4 | 0.0022 | | | T | - 1 |
| 9/25/2008 XX | X LFUD2X30E | 224 | 7.1 | 17.7 | | 1 | | 216 | 6 | 95 | 0.6 | 0.0011 | | | · | |
| 10/29/2008 XX | X LFUD2X2J8 | 231 | 8.1 | 13.6 | | 1 | ľ | 386 | 6 | 105 | 1 | 0.0022 | | | T | |
| 11/17/2008 XX | X LFUD2X310 | 253 | 8 | 12.3 | | T | | 372 | 6 | 120 | 1 | 0.0022 | | · | T | |
| 12/23/2008 XX | X LFUD2X318 | 234 | 7.8 | 8.7 | | | ! | 168 | 6 | 100 | 0.2 | 0.0045 | I | | T | |
| 1/14/2009 XX | X LFUD2X33H | 215 | 8 | 7.9 | | 1 | | 303 | 5 | 75 | 1 1 | 0.0045 A6 | 1· · · · · · · · · · · · · · · · · · · | | 1 | - |
| 2/2/2009 XX | X LFUD2X344 | 276 | 7.4 | 12.6 | | f | <u></u> | 388 | 5 | : 85 | 1.2 | 0.0022 | 1 | | | |
| 3/11/2009 XX | X LFUD2X34C | 233 | 6.8 | 10.2 | | İ | | 308 | 5 | : 95 | 1.1 | 0.0022 | 1 | | | |
| 4/15/2009 XX | X LFUD2X32G | 288 | 7.7 | 14.2 | | | T | 446 | 5 | 90 | 0.8 | 0.0045 | İ | | T-::: | |
| 5/28/2009 XX | X LFUD2X350 | 331 | 7.4 | 18.3 | _ | T | <u> </u> | 238 | 6 | 140 | 4.8 | 0.0022 | | | T | |
| 6/23/2009 XX | | H2 | H2 | H2 | | [| | H2 | H2 | H2 | H2 | Н6 | Ī | | T | |
| 7/8/2009: XX | X LFUD2X970 | H2 | H2 | H2 | | [| | H2 | H2 | H2 | H2 | н6 | 1 | | | |
| 8/4/2009 XX | X LFUD2X382 | 432 | 6.9 | 20.2 | | | | 335 | 5 | 220 | 06 | 0.0022 | | | | |
| 9/1/2009 XX | X LFUD2X38B | H2 | H2 | H2 | | Γ | | H2 | H2 | H2 | H2 | Н6 | 1 | | \top | |
| 10/27/2009 XX | X LFUD2X3EF | H2 | H2 | H2 | | | † | H2 | H2 | H2 | H2 | Н6 | <u> </u> | l | T | |
| 11/11/2009 XX | X LFUD2X3FI | 457 | 7.4 | 18.7 | | Ė | ļ | 375 | 6 | 120 | 0.5 | 0.0033 | ļ | T | †-· | |
| 12/8/2009 XX | | 320 | 8.2 | 12.6 | | | | 221 | 6 | 130 | 0.4 | 0.0045 | T | l | † | |

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| | | · | | | | | | Lielo | Data Part 1 | OT 1 | | - 1 | | | | CHARD ROAD RLAND CENTE | R, ME 04021 |
|------------|----------|-----------|-------------------------|----------------|-----------------|----------------------|--------------------------|-------------|--------------|---------------------|-------------------------------|-------------------|-----------|--------------|--|---------------------------|-------------|
| (LF-UD-2 | 2) | | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Bh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | · · · - · - |
| Date | Туре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cfs | | | | |
| 1/21/2010 | XX | LFUD2X3H0 | 335 | 7.1 | 11.2 | | 7 | | 264 | 6 | 110 | 8.2 | 0.0056 | | [| | <u> </u> |
| 2/23/2010 | | LFUD2X3HC | 309 | 8.2 | 15.1 | | | | 201 | 6 | 155 | 0.2 | 0.0056 | | | | 1 |
| 3/17/2010 | хх | LFUD2X3I1 | 296 | 6.7 | 17.6 | | | | 358 | 5 | 145 | 5.2 | 0.0078 | | | | |
| 4/27/2010 | хх | LFUD2X3JE | 250 | 8 | 12.9 | · · | | | 248 | 6 | 140 | 0.5 | 0.0045 | | | | |
| 5/18/2010 | XX | LFUD2X40H | 286 | 7.8 | 19.1 | | | | 315 | 4 | 100 - | 1.1 | 0.0056 | | • | | |
| 6/22/2010 | ХХ | LFUD2X416 | 309 | 7.8 | 21.1 | | | | 305 | 6 | 130 | 0.4 | 0.0045 | | : | | |
| 7/20/2010 | XX | LFUD2X42I | 352 | 8 | . 22.1 | | | <u> </u> | 343 | 5 | 245 | 2.4 | 0.0223 | | | | |
| 8/30/2010 | XX | LFUD2X44A | 455 | 7.6 | 24.2 | | | | 303 | 5 | 220 | 8.5 | 0.0011 | | | | |
| 9/28/2010 | XX | LFUD2X442 | 499 | 7.2 | 20.3 | | | i i | 340 | 6 | 175 | O | 0.0022 | | | <u>.</u> | |
| 10/19/2010 | XX | LFUD2X462 | 709 | 6.8 | 11.7 | | | 1 | 438 | 5 | 160 | 0 | 0.0006 | 1 | İ | | |
| 11/11/2010 | XX | LFUD2X474 | 323 | 8,2 | 13.1 | | | ł | 245 | 4 | 135 | 0.5 | 0.0033 | | | 1 | 1 |
| 12/16/2010 | XX | LFUD2X480 | H2 | H2 | H2 | | | : | H2 | H2 | H2 | H2 | H2 | | | | |
| 1/24/2011 | ΧХ | LFUD2X47C | 286 | 8 | 12 | | | 1 | 251 | 6 | 350 | 0 | 0.0011 | | | | |
| 2/24/2011 | XX | LFUD2X48H | 328 | 7.6 | 16.1 | | | ; | 321 | 6 | 260 | 0 | 0.0033 | | | | |
| 3/25/2011 | ΧХ | LFUD2X4C7 | H2 | H2 | H2 | | | | | H2 | H2 | H2 | H2 | | | | |
| 4/26/2011 | ХX | LFUD2X4A3 | 273 | 7.7 | 17.2 | | | <u> </u> | 325 | 5 | 35 | 0.8 | 0.0056 | | | | |
| 5/25/2011 | | LFUD2X4F6 | H2 | H2 | H2 | | | I | H2 | H2 | H2 | H2 | H2 | <u></u> | | | |
| 6/20/2011 | ХX | LFUD2X4FH | H2 | H2 | H2 | | | Ï | H2 | H2 | H2 | H2 | H2 | | | | |
| 7/19/2011 | ХX | LFUD2X4E1 | 277 | 7.4 | 23.2 | | T | ĺ | 269 | 5 | 100 | O | 0.0045 | | i | | |
| 8/3/2011 | XX | LFUD2X4J7 | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | H2 | | <u>i</u> | | |
| 10/8/2011 | | LFUD2X4IF | 291 | 7,4 | 24.5 | L | · · | | 364 | 6 | 100 | 0.1 | 0.0022 | | <u> </u> | | |
| 10/25/2011 | XX | LFUD2X4HG | 302 | 6.4 | 18.3 | | | ! | 329 | 6 | 120 | 2.7 | 0.0045 | | : | 1 |] |
| 11/30/2011 | | LFUD2X5QA | 288 | 8 | 19.2 | | | <u>:</u> | 345 | | 100 | 0.27 | 0.0022 | L | <u>; </u> | |] . |
| 12/29/2011 | | LFQD2X4JI | 288 | 8,2 | 16.3 | | | <u>:</u> | 318 | 9 | 110 | 0.2 | 0.0022 | | <u>.</u> | 1 | |
| 1/26/2012 | | LFUD2X58A | 297 | 8 | 16.8 | <u></u> | | ! | 357 | 8 | 115 | 0.37 | 0.0011 | ļ | | <u></u> | |
| 2/24/2012 | | LFUD2X592 | 310 | 7.3 | 16.8 | | | <u>:</u> | 273 | 4 | 130 | 0.82 | 0.0011 | | <u>:</u> | | |
| 3/23/2012 | | LFUD2X59D | 302 | 7.25 | 17.9 | | | : | 393 | 5 | 125 | 0.26 | 0.0011 | <u> </u> | · <u>·</u> | 1 | ļ |
| 4/16/2012 | | LFUD2X5A4 | 311 | 7 | 20.9 | | | <u> </u> | 391 | 6 | 130 | 0.18 | 0.0011 | | | | |
| 4/24/2012 | | LFUD2X528 | H2 | . H2 | H2 | | | <u>:</u> | H2 | H2 | H2 | H2 | H2 | | · | | |
| 5/3/2012 | , | LFUD2X5AF | 318 | 6.9 | 18.5 | | | <u>;</u> | 458 | 6 | 115 | 0.1 | 0.0011 | | | | |
| 6/29/2012 | <u> </u> | LFUD2X5B6 | 305 | 6.8 | 22.8 | | | | 444 | . 6 | 100 | 0.21 | 0.0011 | <u> </u> | <u> </u> | | |
| 7/24/2012 | XX | LFUO2X575 | 316 | 6.8 | 22.6 | | | | 495 | 5 | 225 | 1.5 | 0.0056 | | ! | <u> </u> | |
| 7/31/2012 | | LFUD2X5BH | 345 | 7.1 | 28.4 | | | <u> </u> | 364 | - 8 | 120 | 0.01 | 0.0011 | | , | | |
| 8/31/2012 | | LFUD2X5EI | 368 | 6.8 | 22.6 | | | · | 349 | 6 | 125 | 0 | 0.0011 | | | | |
| 9/27/2012 | | LFUC2X5F9 | 321 | 8.1 | 21.3 | | | • | 360 | 6 | 150 | 0.01 | 0.0006 | ļ | | <u> </u> | 1 |
| 10/23/2012 | 7.01 | LFUD2X5DG | 307 | 7.1 | 14.3 | | | | 518 | 5 | 100 | 1.2 | 0.0045 | <u> </u> | <u> </u> | <u> </u> | |
| 11/13/2012 | | LFUD2X5G0 | 276 | | 17.5 | | _ | | 346 | 6 | 115 | 0.63 | 0.0011 | | <u> </u> | <u> </u> | |
| 12/31/2012 | XX | LFUD2X5GB | 293 | 7,7 | 13.7 | | | | 399 | 6 | 115 | 0.72 | 0.0003 | <u> </u> | <u> </u> | <u> </u> | 1 |
| 1/30/2013 | _ | LFUD2X607 | 186 | 7 | 16.4 | | <u> </u> | ļ | 404 | 6 | 85 | 4.1 | 0.0022 | ļ | <u> </u> | <u> </u> | |
| 2/15/2013 | _ | LFUD2X5JF | 277 | 77 | 14.3 | | | <u>:</u> | 407 | 6 | 135 | 0.04 | 0.0022 | <u> </u> | <u> </u> | | |
| 3/28/2013 | | LFUD2X610 | 284 | 8.2 | 18.2 | | | | 352 | 8 | 140 | 0.35 | 0.0006 | <u>i</u> | <u> </u> | <u> </u> | ļ <u> </u> |
| 4/23/2013 | | LFU02X517 | 304 | 7.4 | 18.3 | | | <u> </u> | 285 | 6 | 90 | 1 | 0.0045 | | <u> </u> | <u> </u> | · |
| 4/24/2013 | - | LFUD2X61C | 229 | 7.1 | 17.8 | | | : | 349 | 8 | 150 | 0.04 | 0.0006 | i i | <u> </u> | . | |
| 5/30/2013 | | LFUD2X624 | 234 | 7.4 | 24.1 | | | | 329 | 8 | 150 | 0.32 | 0.0011 | ļ | | | |
| 6/26/2013 | XX | LFUD2X62G | 298 | 8 | 21.2 | | | : | 366 | 8 | 125 | 0.58 | 0.0011 | - | <u> </u> | | |
| 7/30/2013 | | LFUD2X64C | 320 | 7.1 | 22.9 | | | | 196 | 6 | 105 | 0.5 | D.0056 | <u> </u> | | 1 | |
| 8/20/2013 | | LFUD2X696 | 348 | 7 | 24.8 | | | <u>:</u> | 386 | 6 | 135 | 0.27 | 0.0011 | 1 | | · | |
| 9/26/2013 | | LFUD2X8BE | 338 | 8.2 | 20 | _ | | <u> </u> | 398 | 8 | 120 | 0.63 | 0.0022 | 1 | Į | | <u> </u> |
| 10/29/2013 | 1 | LFUD2X875 | 404 | 7.3 | 17 3 | | | 1 | 260 | 6 | 120 | 0.5 | 0.0022 | i | <u> </u> | | <u> </u> |
| 11/25/2013 | XX | LFUO2X69J | 332 | 8.4 | 13.4 | | 1 | ! | 343 | 8 | 125 | 1.48 | 0.0011 | 1 | : | 1 | 1 |

Page 7 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Field Data Part 1 of 1 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** Specific Water Level (LF-UD-2) рH Temperature Water Level Well Depth Corrected Eh Dissolved Alkalinity Turbidity (field) Flow Rate Conductance Depth Elevation Oxygen (CaCO3) (field) rumhos/em Standard Units Degrees Celcius Feet Feet NTU Feet mΥ mg/L cfs Date Type Sample ID @25°C 12/17/2013 XX LFUD2X6CJ 327 7.4 9.1 366 8 150 0.46 0.00033 LF-UD-3A,B 1/24/2007 XX UFUD3X24C 482 6.2 7.5 372 1.8 0.0045 2/22/2007 XX LFUD3X25A 471 8.3 5 209 5 110 0 0.0022 3/21/2007 XX LFUD3X25H 249 7 9.7 278 135 5 0.4 0.0017 LFUO3X264 4/26/2007 XX 339 14.2 335 125 0 6 0.0045 5/16/2007 XX LFUD3X246 386 В 11.1 373 150 0.3 0.0011 6/21/2007 XX LFUD3X28E 443 6.8 19.8 300 195 2.1 0.0022 7/25/2007 XX LFUD3X288 F6 F6 F6 F6 F6 F6 F6 F6 8/16/2007 XX LFUD3X2B4 F6 F6 F6 F6 F6 F6 F6 F6 LFUD3X2AI F6 9/12/2007 XX F6 F6 F6 F6 F6 F6 F6 LFUD3X2BA 10/24/2007 XX F6 F6 F6 F6 F6 F6 F6 F6 XX LFUD3X2BG 11/27/2007 329 7.7 11.7 247 90 0.5 0.0033 12/18/2007 XX LFUD3X2C2 219 7.8 6.8 356 6 85 1 0.0022 1/9/2008 XX LFUD3X2C8 126 6.5 9.3 249 6 90 0.6 0.0067 2/25/2008 XX LFUD3X2F0 294 7.9 7.7 302 105 0.8 0.0045 3/13/200B XX ILFUD3X2F6 236 8.2 7.7 311 90 Q 0.0056 4/17/2008 XX LFU03X2FC 311 7.2 14.9 315 6 190 0.0022 0.9 5/20/2008 XX LFUD3X2EE 314 8 13.3 337 6 160 1.8 0.0045 6/9/2008 XX LFUD3X212 269 7.4 15.8 288 150 6 0.0033XX LFUD3X2HG 7/28/2008 D D 0 0 D D D D XX LFUD3X30C 8/28/2008 0 D D O D D D D XX LFUD3X30I 9/25/2008 D D D D D D D D XX LFUD3X308 10/29/2008 F6 F6 F6 F6 F6 F6 F6 Fβ 11/17/2008 XX LFUD3X314 F6 F6 F6 F6 F6 F6 F6 FB 12/23/2008 XX LFUD3X31A D D D D D Đ Ð D 1/14/2009 XX LFUD3X341 F6 F6 F6 F6 F6 F6 F6 F6 LFUD3X348 2/2/2009 XX F6 F6 F6 F6 F6 F6 F6 F6 LFXXXX34G 3/11/2009 XX F6 F6 F6 F6 F6 F6 F6 F6 4/15/2009 LFXXXX33F XX 411 8.1 14.8 447 5 200 0.5 0.0033 ХX LFXXXXX354 5/28/2009 7.7 16.7 505 94 6 185 0.0003 5 6/23/2009 XX LFXXXXX35C H2 H2 H2 H2 H2 H2 H2 H6 7/8/2009 XX LFXXXX371 H2 H2 H2 H2 H2 H2 H2 H6 XX LFXXXX388 401 8/4/2009 6.9 19.7 274 6 275 1.8 0.0006 9/1/2009 XX LFXXXX38F H2 H2 H2 H2 H2 H2 H2 H¢ 10/27/2009 LFXXXX3FC XX H2 H2 H2 H2 H2 H2 H2 H6 11/11/2009 XX LFXXXX3G2 F6 F6 F6 F6 F6 F6 F6 F6 XX LFUD3A3GC 12/8/2009 439 10.3 8.4 215 5 170 0.5 0.0056 XX LFUD3A3H4 1/21/2010 405 7.5 9.4 248 6 185 1.2 0.0033 LFUD3A3HG 2/23/2010 XX 402 8.2 13.6 215 5 190 0.0045 0.1 LFUD3A3I5 3/17/2010 XX 490 6.6 18.3 340 5 205 1.9 0.0067 4/27/2010 XX LFXXXX40C 408 7.9 14.3 270 6 160 0.4 0.0045 XX LFUD3A411 5/18/2010 400 79 19.1 315 5 160 0.5 0.0022 6/22/2010 XX |LFUD3A419 **F**6 F6 F6 F6 F6 F6 F6 F6 7/20/2010 XX LFXXXX43G F6 F6 F6 F6 F6 F6 F6 F6 8/30/2010 XX (LFUD3A44D F6 F6 F6 F6 F6 F6 F6 F6 9/28/2010 XX [LFUD3A445 **F**6 F6 F6 F6 F6 F6 F6 F6 10/19/2010 XX LFXXXX46J F6 F6 F6 F6 F6 F6 F6 F6 11/11/2010 XX LFUD3A477 565 82 14.7 201 5 200 0.6 0.0022

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SEVEE & MAHER ENGINEERS, INC.

| Property | | | FOR: Juniper Ric | dge Landfill | | | | | Field | Data Part 1 | of 1 | • | | | | 4 BLAN | CHARD ROAD RLAND CENTE | |
|--|------------|------|------------------|-------------------------|----------|--------------|--------------|---------------------------------------|--------------|-------------|--|-----------------|--------------|-----------------|--|--|--|----------------|
| 1015000 XX | • | | Sample ID | Conductance µmhos/cm | • | • | Depth | Elevation | • | | Oxygen | (CaCO3) (field) | | | | | · | |
| Targard XX Manuscope 383 | Date | ype | Sample ID | 9 | | | | | | | | | | | | | | |
| 26440070 XX Minhords 469 73 178 298 6 860 0 0.0022 | 12/15/2010 | XX | LFUD3A483 | H2 | H2 | H2 | | 1 | | H2 | H2 | H2 | H2 | H2 | | | T | |
| STANDON M. M. MONOMEN M. M. M. M. M. M. M. M. M. M. M. M. M. | 1/24/2011 | XX | LFUO3A47F | 385 | B.1 | 14.2 | | | | 255 | 8 | 475 | 0 | 0.0011 | | | l | |
| ## ## ## ## ## ## ## # | 2/24/2011 | XX | LFUD3A4C0 | 453 | 7.3 | 17.8 | | | | 326 | 6 | 360 | Ū | 0.0022 | | | | |
| 50/3007 XX MODIMON FIC 3/25/2011 | XX | LFUD3A4CA | H2 | H2 | H2 | | | | | H2 | H2 | H2 | H2 | | L | | _ |
| FACURATION FAC | 4/26/2011 | XX | LFXXXX4B1 | 370 | 7.9 | 17.4 | | | | 309 | | 265 | | | | | | ļ |
| 1992 1 | 5/25/2011 | XX | LFUD3A4F9 | H2 | H2 | H2 | | | | H2 | | H2 | H2 | | | | J | |
| 0.02501 XX VUDMAN Fiz Hz Hz Hz Hz Hz Hz Hz | 6/20/2011 | | | | | | | | | | 1 | _ | | ·· | | <u> </u> | <u> </u> | |
| 10822911 XX 5700006 F6 F6 F6 F6 F6 F6 F6 | 7/19/2011 | XX | LFXXXX4EJ | H2 | H2 | | | | | | | | | | | | <u> </u> | |
| 10025001 XX 1000000 | 8/3/2011 | | | | | | | | ļ | | | | | | | | | |
| 1592091 XX F-PAMOSO | | | | | | | | | | | | | 4 | | | | | |
| 1/22/2017 XX 1/20/2016 M9 H9 H9 H9 H9 H9 H9 H9 | | | | | - | | | | | | A CONTRACTOR OF THE CONTRACTOR | | | | | <u> </u> | | |
| 1992/2017 XX 1990/0860 H8 | | | | | | | | | | | | | | | | ļ | | |
| 202-2010 XX UPROCOMB 188 189 180 1 | | | | | | | | ļ | | - | | | | H8 | | | | |
| 1923/2012 XX \$7000089 | | 1 | | | | | | | | | | | | | . | | ļ | |
| M142012 X X DXXXXXXX F6 F6 F6 F6 F6 F6 | | | | | | | | | | | | | | | <u> </u> | | <u> </u> | |
| H2 H2 H2 H2 H2 H2 H2 H2 | | | | | | | | | | | | | | | <u> </u> | | <u> </u> | |
| S. S. S. S. S. S. S. S. | | + / | | | | | | | | + | | | | | I | | | 4 |
| SCH-2012 XX \$P-000589 H8 H8 H8 H8 H8 H8 H8 | | 1.00 | | | | | | <u> </u> | ļ | | | | | | ļ <u> </u> | | | |
| 1724/2012 XX | | | | | | | <u></u> | | ļ | | | | | | ļ | | <u> </u> | . + |
| 1731/2012 XX | | | | | | | | .] | | | | | | | | | + · | - |
| B3172071 XX | | | | | | | | ļ | | | | | | | | | | |
| SEZTROTO XX | | | | <u> </u> | | | | - | 1 | | | _ | | | | | | |
| 10/23/012 XX | | | | | | | | | 1 | | | | | | | | | |
| 1/13/2012 XX | | | | | | | | | | | | | | | | | | |
| 12312012 XX | | | | | | | | | | | | | | | | | - | - |
| 130/2015 XX | | | | | | | | | <u> </u> | | | | | | <u> </u> | | | |
| 2/15/2013 XX | | | | | . | | <u> </u> | | | | | | | | | | - | |
| 3/28/2013 XX | | | | | + | | | | | | | | | | | | | |
| 4/23/2013 XX | | | | | ł | | | <u> </u> | | | | | | | | | 1 | |
| 4/24/2013 XX | | | | | | | <u> </u> | + | | | | | | | | | † | + |
| 5/30/2013 XX | | _ | | | | + | | | | | | _ | | ··· | | | - | + |
| Fig. | | | | | 1 | 4 | ŀ —- | | l | | | _ | | | | | ╁── | + |
| 7/30/2013 XX LFXXXX664 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 | | | | | | | | | | | | | | | | - | + | + |
| 8/20/2013 XX | | + | | | 1 | | | + | | | — · | | | | | | | |
| 9/26/2013 XX LFXXXX68H HB HB HB HB HB HB HB HB HB HB HB HB HB | | | | L | 4 | | | | - | | | | | | | | 1 | -+ |
| 10/29/2013 XX LFXXXX67J F6 | | F I | | | 4 | | - | + | | | | | | | | | + | + |
| 11/25/2013 XX | | | | | 4 | | | + | | | | | | | | | 1 | |
| 12/17/2013 XX | | | | l | .4 | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | · | |
| LF-UD-4 S/11/2008 XX LFXXXX34 F6 F6 F6 F6 F6 F6 F6 F | | | | | + | | | · · · | | | | | | ļ - · · · · | <u> </u> | | | - |
| 4/15/2009 XX LFXXXX34A 366 7 2 13 491 6 120 0.8 0.0033 | | | | L110 | J . ''' | | <u> </u> | | <u> </u> | 110 | 1 ,14 | 11.00 | 1,72 | i | 1 | 1 | . 1 | |
| 4/15/2009 XX LFXXXX34A 366 7 2 13 491 6 120 0.8 0.0033 5/28/2009 XX LFXXXX35B F6 F6 F6 F6 F6 F6 F6 6/23/2009 XX LFXXXX35E H2 H2 H2 H2 H2 H2 H2 H6 7/8/2009 XX LFXXXX38B H2 H2 H2 H2 H2 H2 H6 8/4/2009 XX LFXXXX38B F6 F6 F6 F6 F6 F6 9/1/2009 XX LFXXXX38H H2 H2 H2 H2 H2 H2 H6 | 3/11/2009 | XX | LFXXXX341 | F6 | F6 | F6 | Ι | T | I | F6 | F6 | F 6 | F6 | F6 | | Ī | T | T |
| 5/28/2009 XX LFXXXX358 F6 | | 1 | | \$·- | | | | T | | | 6 | | 0.8 | 0.0033 | | Ţ | | I |
| 6/23/2009 XX LFXXXX38E | | | | | | | † | † | † | | | | | <u> </u> | T | 1 | | |
| 7/8/2009 XX LFXXXX388 H2 H2 H2 H2 H2 H2 H6 H6 8/4/2009 XX LFXXXX388 F6 F6 F6 F6 F6 F6 F6 9/1/2009 XX LFXXXX38H H2 H2 H2 H2 H2 H2 H2 H6 | | 4 -, | LFXXXX35E | 4 | | | | 1 | | | H2 | H2 | | H6 | | | | |
| 8/4/2009 XX LFXXXX38H | | | LFXXXX380 | ···· | | | | | | | | | | • | | | | |
| 9/1/2009 XX LFXXXX38H H2 H2 H2 H2 H2 H6 | | | LFXXXX368 | 1 ——— | | | | 1 | | | | | | F6 | | T | | |
| <u> </u> | | - 1 | LFXXXX38H | H2 | | | | † | T | H2 | 4 | · · · | | H6 | | T | | |
| | | 1 1 | LFXXXX3FE | H2 | H2 | H2 | T | T | T | H2 | H2 | H2 | н2 | Hr6 | | T | 7 | |

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

| | | -2 | | | | | Field | Data Part 1 | of 1 | | | | | | CHARD ROAD RLAND CENT | |
|---------------|-------------|-------------------------|----------------|-----------------|----------------------|--------------------------|--|--------------|---------------------|-------------------------------|-------------------|------------|--|-------------|--|-------------|
| (LF-UD-4) | | Specific Conductance | ρН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected En | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | <u> </u> |
| Date Type | e Sampie ID | μπιλο≤/cm @25°C | Standard Units | Degrees Colcius | Feet | Feet | Feet | mV . | mg/L | τη y /L | NTU | cfs | | | | |
| 11/11/2009 XX | LFXXXX3G4 | 562 | 7.2 | 20 | | | | 418 | 6 | 110 | 1.1 | 0.0045 | T | | Τ | |
| 12/8/2009 XX | LFU04X3GE | 470 | 8,3 | 12.1 | | | | 218 | 5 | 115 | 0 | 0.0022 | | | <u> </u> | |
| 1/21/2010 XX | LFUD4X3H6 | 473 | 7.4 | 11.1 | | | | 263 | 6 | 125 | 0 | 0.0056 | | | " | |
| 2/23/2010 XX | | 406 | 7.8 | 14.1 | | | | 212 | 5 | 170 | 0 | 0.0078 | | | T | |
| 3/17/2010 XX | | 427 | 6.9 | 17.1 | , | | | 322 | 5 | 145 | 2.6 | 0.0067 | | | | ·· · |
| 4/27/2010 XX | | F6 | F6 | F6 | | - | | F6 | F6 | F6 | F6 | F6 | <u> </u> | | + | |
| 5/18/2010 XX | | 371 | 7.1 | 18.8 | | | | 325 | 4 | 125 | 1.1 | Н6 | + | | | |
| 6/22/2010 XX | | 373 | 7 | 21,3 | | | | 321 | 5 | 165 | 0 | H6 | | | | |
| 7/20/2010 XX | | F6 . | F6 | F6 | | | | F6 | F6 | F6 | F6 | F6 | 1 1 | | | |
| B/30/2010 XX | LFUD4X44F | 464 | 7.4 | 23.8 | | | | 303 | 6 | 215 | 9.1 | 0.0011 | i ·· | | | |
| 9/28/2010 XX | LFUD4X447 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | F6 | 1 | | + | |
| | | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | F6 | | | + | |
| 0/19/2010 XX | | | | | | <u> </u> | | + | | | | | | | + | _ |
| 1/11/2010 XX | | 459 | 7.3 | 14.7 | | - | | 233 | 4 | 125 | 0.2 | H6 | | | + | - |
| 2/16/2010 XX | | H2 | H2 | H2 | | | 1 | H2 | H2 | H2 | H2 | H2 | | | | |
| 1/24/2011 XX | | H6 | H6 | H6 . | | <u> </u> | | H6 | H6 | H6 | H6 | H6 | | | | |
| 2/24/2011 XX | | H8 | H8 | H8 | | <u> </u> | | HB | HB | H8 | HB | H8 | | | | |
| 3/25/2011 XX | LFUD4X4CC | H2 | H2 | H2 | | <u> </u> | ļ | H2 | H2 | H2 | H2 | H2 | <u> </u> | | | |
| 4/26/2011 XX | LFXXXX4B3 | F12 | F12 | F12 | | J | <u> </u> | F12 | F12 | F12 | F12 | F12 | ļ ļ | | | |
| 5/25/2011 XX | | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | H2 | <u> </u> | | <u> </u> | |
| 6/20/2011 XX | | H2 | H2 | H2 | | <u> </u> | | H2 | H2 | H2 | H2 | H2 | | | | |
| 7/19/2011 XX | LFXXXXHG2 | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | H2 | | | <u> </u> | |
| 8/3/2011 XX | LFUD4X4JC | H2 | H2 | H2 | | | i | H2 | H2 | H2 | H2 | H2 | 1 | | <u> </u> | |
| 10/8/2011 XX | LFUO4X4JD | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | H2 | | | L | |
| 10/25/2011 XX | LFXXXX4GA | . F6 | F6 | F6 | | | 1 | F6 | F6 | F6 | F6 | F6 | | | ļ | |
| 11/30/2011 XX | LFUD4X50F | H2 | H2 | H2 | | | 1 | H2 | H2 | H2 | H2 | H2 | | | F | |
| 12/29/2011 XX | LFU/D4X503 | H2 | H2 | H2 | | | 1 | H2 | H2 | H2 | H2 | H2 | | | | |
| 1/26/2012 XX | LFU/D4X58F | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | H 2 | | | 1 | |
| 2/24/2012 XX | LFUD4X596 | H8 | H8 | H8 | | | | Н8 | H8 | He | нв | HB | | | | |
| 3/23/2012 XX | | 444 | 7.3 | 17.3 | | | j | 395 | 5 | 200 | 0.29 | 0.0006 | | | + · | |
| 4/16/2012 XX | LFUD4X5A8 | 437 | 7.2 | 20.7 | | | | 390 | 8 | 200 | 0.32 | 0.0011 | | | | |
| 4/24/2012 XX | | H2 | H2 | H2 | | | 1 | H2 | H2 | H2 | H2 | H2 | | | | |
| 5/3/2012 XX | | H2 | H2 | H2 | | · ! | | H2 | H2 | H2 | H2 | H2 | | | | |
| 6/29/2012 XX | | H8 | H8 | H8 | | + | | H8 | H8 | H8 | HB | H8 | | | · | } |
| 7/24/2012 XX | LFXXXX582 | 434 | 6.9 | 23.2 | | + | | 488 | 6 | 300 | 1.2 | 0.0045 | + | | · | -+- · |
| | | | | | <u> </u> | 1 | | | | | | | - | | · · | |
| 7/31/2012 XX | | 457 | 7.3 | 30.7 | | - | | 403 | 8 | 140 | 0.19 | 0.0006 | 1 1 | | <u> </u> | |
| 8/31/2012 XX | | 485 | 6.9 | 22.6 | - | 1 | | 375 | 5 | 200 | 0.11 | 0.0006 | 1 | | | |
| 9/27/2012 XX | LFUD4X5FD | 447 | 7.9 | 21 | | | | 375 | - 6 | 170 | 0.03 | 0.0006 | | | <u> </u> | |
| 0/23/2012 XX | LFXXXX5CA | 362 | | 16.2 | | · | ļ | 571 | 5 | 150 | 1.6 | 0.0022 | | | | |
| 1/13/2012 XX | | 387 | 7.8 | 17 3 | | | ļ | 365 | 6 | 200 | 0.85 | 0.0003 | | | _ | |
| 2/31/2012 XX | LFUD4X5GF | 416 | 7.8 | 12 1 | | | L | 358 | 6 | 165 | 0.49 | 0.0003 | | | <u> </u> | |
| 1/30/2013 XX | LFUD4X60B | 402 | 7.3 | 13.8 | | <u> </u> | | 437 | <u> </u> | 175 | 0.43 | 0.0003 | | | : | |
| 2/15/2013 XX | | H2 | H2 | H2 | ! | | | H2 | H2 | H2 | H2 | H2 | | | <u>.</u> | |
| 3/28/2013 XX | | H2 | H2 | H2 | | 1 | L | H2 | H2 | H2 | H2 | H2 | <u></u> | | L | |
| 4/23/2013 XX | | 352 | 7.3 | 15.8 | | | | 272 | 5 | 92 | 1.1 | 0.0022 | \Box | | | |
| 4/24/2013 XX | LFUD4X61G | 327 | 7.3 | 15.5 | | | | 346 | 6 | 205 | 0.44 | 0.0006 | | | | |
| 5/30/2013 XX | LFUD4X628 | H2 | H2 | H2 | | | | Hi2 | H2 | H2 | H2 | H2 | | | | |
| 6/26/2013 XX | LFUD4X630 | H2 | H2 | H2 | | 1 | | H2 | H2 | H2 | H2 | H2 | | | ľ | |
| 7/30/2013 XX | | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | F6 | †··· | | † | |
| 8/20/2013 XX | | H2 | H2 | H2 | | †··· | | H2 | H2 | H2 | H2 | H2 | 1 | | | |
| 9/26/2013 XX | | 480 | a a | 17.8 | | | | 406 | 8 | 215 | 0.41 | 0.0011 | ţ | | † | |
| 3/20/2010 1 | T | | <u> </u> | J | l | <u> </u> | <u> </u> | | <u>-</u> | | I 9.71 1 | 0.0011 | <u> 1 </u> | <u></u> | <u> </u> | I |

Page 10 of 37 SUMMARY REPORT REPORT PREPARED: 2/11/2014 11:49 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Field Data Part 1 of 1 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** Specific pΗ Temperature Water Level Water Level Well Depth Corrected Eh Dissolved Alkalinity Turbidity (field) Flow Rate (LF-UD-4) (CaCO3) (field) Conductance Depth Elevation Oxygen umhos/cm Standard Units Degrees Celcius Feet Feet Feet mVmg/L NŢŲ @25°C Type Sample ID Date 10/29/2013 XX LFXXXX880 110 0.3 0.0022 424 17.8 322 185 0.64 0.0006 11/25/2013 XX LFUD4X6A3 380 8 440 8.2 8.1 12/17/2013 XX LFUD4X6D3 424 7.5 8.4 413 210 1.67 0.00017 LF-UD-5 12/8/2009 XX LFUD5X3G1 4.2 125 0.1 0.0067 395 B.3 1/21/2010 XX LFUD5X3HA 5 120 0 0.0033 350 7.6 6.1 309 135 0.4 0.0078 2/23/2010 XX LFUD5X3HJ 337 7.9 7 220 6 3/17/2010 XX LFUD5X3I8 324 6 130 0.9 0.0056 337 7.3 9.5 4/27/2010 XX LFXXXX40F 345 7.4 10.1 285 5 130 0.4 0.0045 285 5 105 0.2 5/18/2010 XX LFU05X414 349 7.6 12.3 0.0067 LF-UD-5and6 6/22/2010 XX LFU05X41C 355 7.7 18.9 328 6 140 6.5 0.0022 7/20/2010 XX LFXXXX433 6 200 1.5 0.0002 7 213 407 19.1 8/30/2010 XX LFUD5X44G 245 0.0008 7.8 23.3 324 6 8.1 470 9/28/2010 XX LFUD5X448 332 6 160 Ō 0.0033 428 7 18.2 150 4.2 0.000610/19/2010 XX LFXXXX472 652 6.9 10.9 434 5 11/11/2010 XX LFUD5X47A 440 8.1 10.7 238 150 9 0.0022 165 0 0.0022 12/16/2010 XX LFUD5X486 Ģ 472 6.7 8.9 307 435 0.0045 1/24/2011 XX LFUD5X471 13.4 275 6 0 414 XX LFUD5X4C3 354 5 375 1.2 0.0022 515 16.1 2/24/2011 7.3 150 0.0022 8 1.5 3/25/2011 XX LFUD5X4CD 440 7.6 13.7 281 5 415 1.5 0.0033 XX LFXXXX4B4 450 6,9 16.8 4/26/2011 8 G7 113 G7 18 G7 XX LFUD5X4FC 367 G7 5/25/2011 510 G7 7.4 G7 20.7 G7 XX LFUD5X4G3 382 8 125 15.3 6/20/2011 469 7,2 22.6 XX LFXXXX4F2 440 403 5 175 O 0.0022 7.3 21.9 7/19/2011 XX LFU05X4JD 458 7.8 21.2 348 8 150 4.3 8/3/2011 XX LFUD5X4J1 11.6 10/8/2011 447 7.7 20.3 358 8 150 0.0028 250 5 240 5.5 XX LFXXXX4G7 476 7.3 17.8 10/25/2011 XX LFUDSX50G 443 7.6 15.7 347 150 614 11/30/2011 XX LFUD5X504 333 118 2.9 12/29/2011 477 7.9 15.7 8 359 150 14.95 LFXXXX58G 473 8.3 11.9 1/26/2012 XX LFXXXX597 460 8.1 348 5 175 3.16 2/24/2012 XX 15.2 XX LFXXXX59I 486 7.8 16.6 382 6 190 1.58 3/23/2012 4/16/2012 XX LFXXXX5A9 357 6 200 6.06 467 8 22.8 4/24/2012 XX LFXXXX537 389 427 6 95 46 7.4 18.8 XX LFXXXX5B0 370 491 ₽ 17.4 8 160 1.16 5/3/2012 416 175 0.55 6/29/2012 XX LFXXXX5B8 473 7.2 23 1 6 XX ILFXXXX584 482 22 4 417 6 260 3 7,3 7/24/2012 355 6 200 0.13 7/31/2012 XX LFXXXX5C2 500 7.5 236 XX LFXXXX5F3 200 7.3 317 6 0.12 8/31/2012 514 21.5 XX LFXXXX5FE 170 30.88 18 354 6 9/27/2012 407 7.9 10/23/2012 XX LFXXXX5C7 423 4 160 6.7 498 7.3 14.5 390 175 0.2 11/13/2012 XX LFXXX5G5 378 7.3 16.6 303 125 1.48 0.0003 12/31/2012 XX LFXXX5GG 368 8.3 10.7 8 75 9.79 1/30/2013] XX LFXXXX60C 447 10 177 7.5 7.1 2/15/2013 XX LFXXXX600 F 3/28/2013 XX LFXXXX615 356 8.2 10.3 311 8 170 0.66 0.0002 4/23/2013 XX LFXXXX5J7 145 2.6 0.0011 353 78 237 6 10.9

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| | | FOR: Juniper Ric | dge Landfill | | | | | Field | Data Part 1 | of 1 | | | | | 4 BLANCHARD I | R ENGINEERS, INC. ROAD CENTER, ME 04021 |
|------------|-------------|------------------|-------------------------|----------------|-----------------|---|--|--------------|--------------|---------------------|-------------------------------|------|---------------------------------------|--|---------------------------------------|---|
| (LP-CO | MP) | | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | | Flow Rate | | | |
| Date | Туре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cfs | | | |
| 6/13/2006 | XX | LPCOMX1/B | 260 | 7.3 | 16.2 | 1 | T | | 371 | 5 | 175 | 1.2 | : | 1 | | |
| 8/16/2006 | XX | LPXXXX212 | 334 | 7.3 | 20.7 | | | | 289 | 4 | 110 | 0 | | | | |
| 12/5/2006 | XX | LPXXXX21J | 405 | 8.4 | 6.6 | | | | 191 | 4 | 135 | 1.2 | | | | |
| 1/24/2007 | XX | LPXXXX24D | 415 | 6.7 | 10.3 | Ī | | | 433 | 5 | 85 | 0.6 | | | | |
| 2/22/2007 | XX | LPXXXX25B | 419 | 6.9 | 7.7 | Ī | | | 306 | 5 | 120 | 4 | | | | |
| 8/1/2011 | XX | LPCMPX4JQ | 315 | 7.1 | 21.4 | | | | 346 | 6 | 83 | 0.1 | | | | |
| 10/8/2011 | I XX | LPCMPX4J5 | 296 | 7.2 | 18.2 | | | | 377 | 5 | 95 | 1.2 | | | | |
| 11/30/2011 | XX | LPCMPX50J | 296 | 7.2 | 10.3 | 1 | | | 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 | 2 XX | LPCMPX5A1 | 320 | 7.6 | 15.3 | | | | 360 | 6 | 125 | 0.39 | | L | | |
| 4/16/2012 | XX | LPCMPX5AC | 331 | 7.3 | 13.2 | <u> </u> | | | 377 | 6 | 150 | 0 48 | | | | |
| 5/3/2012 | XX | LPCMPX5B3 | 324 | 7.4 | 14.3 | l . | | | 395 | 10 | 120 | 0 42 | | | | |
| 7/31/2012 | XX | LPCMPX5C5 | 355 | 7 | 22 | : | | | 363 | 8 | 125 | 0.79 | | | | |
| LP-LD | | | | | | | | | | | | | | | | |
| 7/28/2004 | 1 XX | LPLD1X051 | 835 | 7.5 | 12.4 | 1 | 1 | | 277 | 6 | 300 | 1.9 | | | | |
| 8/30/2004 | 1 XX | LPLD1X082 | 316 | 6.9 | 17.2 | 1 |] | | 301 | 6 | 165 | 12.5 | | | | |
| 9/27/2004 | XX | LPLD1X088 | 630 | 7.4 | 19.7 | | | | 277 | 5 | 325 | 1.1 | | | | |
| 10/27/2004 | XX | LPLD1X07A | 467 | 7.9 | 12.4 | I | 1 | | 326 | 5 | 200 | 34 | | | | |
| 11/23/2004 | XX | LPLD1X103 | 497 | 7.9 | 9.7 | <u> </u> | 1 | | 269 | 6 | 175 | 4.9 | | | | |
| 12/22/2004 | XX | LPLD1X109 | 487 | 7 | 7.5 | 1 | T | | 195 | 8 | 250 | 15.4 | | 1 | | |
| 1/26/2009 | | LPLD1X11B | 0 | D | D | 1 | <u> </u> | T | D | D | D | a | | | | |
| 2/24/2005 | XX | LPLD1X11I | 168 | 7.5 | 4,3 | 1 | | | 265 | 5 | 85 | 0 | | | | |
| 3/29/2009 | XX | LPLD1X14J | 56 | 6.4 | 3.2 | 1 | | i | 360 | 5 | 35 | 0 | | | | |
| 4/28/2009 | | LPLD1X154 | 610 | 7.3 | 5.9 | | | | 398 | 6 | 25 | 25 | | | | |
| 5/11/2009 | i xx | LPLD1X13B | 71 | 7.2 | 109 | | | | 320 | 6 | 60 | 14 | | | | |
| 6/22/2009 | xx | LPLD1X17C | 120 | 7.7 | 12.8 | | | | 406 | 6 | 60 | 14.5 | T | | T | |
| 7/27/2005 | | LPLD1X16J | 304 | 7 | 20.2 | | | | 343 | 6 | 70 | 0.8 | | | T | |
| 8/29/2005 | | LPLD1X1B2 | 539 | 6.7 | 15.9 | | T | ļ | 281 | 4 | 160 | 6.7 | | · | | |
| 9/21/2005 | · | LPLD1X19H | 944 | 7 | 16.4 | | | | 305 | 6 | 425 | 4.5 | | †· · · · · · † | | |
| 10/21/2005 | | LPLD1X1B7 | 105 | 8.3 | 9.3 | | | | 227 | 4 | 45 | 2.3 | | <u> </u> | | |
| 11/21/2008 | | LPLD1X1BE | 124 | 7.6 | 11.6 | | T | | 238 | 5 | 60 | 1.8 | 1 | <u> </u> | | |
| 12/27/200 | | EPLD1X1C0 | 639 | 7.3 | 4 1 | | | 1 | 302 | 6 " | / 150 | 2.6 | 1 – | T | | |
| 1/23/2006 | | LPLD1X1C5 | 670 | 7.5 | 55 | | | | 398 | - 6 | 225 | 1.1 | | † · · · · · · · · · · · · · · · · · · · | | |
| 2/23/2000 | | LPLD1X1CA | 727 | 7.1 | 6.5 | | | | 330 | 6 | 290 | 2.3 | | <u> </u> | | |
| 3/15/2000 | 1 | LPLD1X1CH | 402 | 6.8 | 3.8 | † · · · - · - · - · - · - · - · · · · · | <u> </u> | i | 431 | 6 | 90 | 1.7 | | | | |
| 4/27/2000 | | LPLD1X1FI | 691 | 7.2 | 7.3 | T | | | 353 | 6 | 200 | 3.6 | | | | |
| 5/24/2000 | | LPLD1X1EC | 207 | 7.5 | 11.6 | | İ | | 367 | 6 | 75 | 1.2 | Ì | | | |
| 6/13/2009 | | LPLD1X117 | 103 | 7 | 13 | | † | | 460 | 5 | 50 | 3.1 | İ | | | |
| 7/25/2000 | | LPLD1X1H9 | 555 | 6.5 | 19.6 | | | T | 397 | 5 | 280 | 1.2 | | | | |
| 8/16/200 | 4.0 | LPLD1X20J | 693 | 7.5 | 19 | | 1 | 1 | 349 | 4 | 195 | 0 | | T | ·· ·· · · · · · · · · · · · · · · · · | |
| 9/11/2000 | | LPL01X202 | 805 | 71 | 14,9 | | | † - | 286 | 6 | 135 | 1.3 | · · · · · · · · · · · · · · · · · · · | 1 1- | | |
| 10/19/2000 | + : | LPL01X215 | 301 | 7.2 | 13.2 | † | † | | 236 | 6 | 130 | 1.8 | | †··· | | |
| 11/21/200 | _ | LPLD1X21B | 240 | 76 | 10 | | | | 16B | 6 | 90 | 1.2 | | | | |
| 12/5/200 | | LPL01X21G | 399 | 7.8 | 4 | | 1 | | 330 | 5 | 50 | 5.5 | | | j | |
| 1/24/200 | _ | LPLD1X249 | 357 | 6.5 | 9.2 | | 1 | | 419 | 4 | 50 | 3.5 | | | | |
| 2/22/200 | | LPLD1X257 | 517 | + | 3.7 | | 1 | | 227 | 6 | 130 | 0 | · ··· | † - | | |
| 3/21/200 | | LPLD1X25E | L 217 | + | + ~: | | + | | | | 1 1 | | | | | |
| 3/2 1/200 | .1 ~~. | II | _L <u>*</u> | I | | <u>-</u> | <u> </u> | -1 | <u>.</u> | L | : <u></u> | .1 | ι. | 1 - l. | L | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Field Data Part 1 of 1

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

| Company Comp | | CHY. Qualiper Isl | ago zanam | | | | | Field | Data Part 1 | of 1 | | | | | | CHARD ROA! RLAND CEN | D TER, ME 04021 |
|---|---------------|-------------------|-------------------------------------|----------------|-----------------|---------------------------------------|--|--|-------------|--------------|-----------------|-----|-------------|-----------|--|--|--------------------|
| Date Type Sample D | (LP-LD-1) | | Conductance | • | | Depth | Elevation | - | | Oxygen | (CaCO3) (field) | | | | | · | |
| \$100,000 \$1,000,000 \$2,000 \$3,000 \$4,000 \$1,0 | Date Type | Sample ID | | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cfs | | | | |
| | 4/26/2007 XX | LPLD1X261 | 212 | 7.2 | 7.2 | | ļ | T | 342 | 5 | 80 | 5.1 | | | | | |
| 7655000 X PERINTE 788 72 188 222 3 355 29 | 5/16/2007 XX | LPLD1X239 | 500 | 6.6 | 10.1 | | | 1 | 270 | 5 | 200 | 2.5 | | | | | |
| Ref 2007 X Part X Part X Part X Part X Part Pa | 6/21/2007 XX | LPLD1X28B | 453 | 6.4 | 10.8 | · · · · · · · · · · · · · · · · · · · | 1 | | 314 | 6 | 210 | 2.2 | | | | | |
| Prize Priz | 7/25/2007 XX | LPLD1X27D | 788 | 7.2 | 18.6 | | <u> </u> | | 232 | 3 | 325 | 2.9 | | | | | |
| 109AGOOF X Pickows 774 | 8/16/2007 XX | LPLD1X2B1 | 781 | 7.2 | 14.9 | | T | | 244 | 6 | 355 | 2.8 | | | | | |
| 11/12/13/13/13/13/13/13/13/13/13/13/13/13/13/ | 9/12/2007 XX | LPLD1X2A3 | 695 | 7.7 | 15.9 | | | | 115 | 4 | 370 | 2.6 | | | ļ | | |
| 12/18/2007 XX DATINGS 546 58 51 31 322 6 50 11 12 12 12 12 12 12 1 | 10/24/2007 XX | LPLD1X2B7 | 774 | 8.1 | 12.8 | | | | 176 | 6 | 60 | 1.2 | | | | | |
| 100,000 XX DATACES 329 69 7.4 288 6 299 0.8 | 11/27/2007 XX | LPLD1X2B0 | 187 | 7.7 | 7.3 | | | | 252 | 6 | 55 | 2.2 | | | 1 | | |
| 22560000 XX DiDONI 0.00 7.8 5.2 388 6 110 0.6 | 12/18/2007 XX | LPLD1X2BJ | 545 | 5.8 | 3.1 | | | <u> </u> | 322 | 6 | 50 | 1.1 | | | | | |
| 9-13/2009 XX PUDUSPS 102 8-3 12 8-3 12 9-5 8-6 17 9-7 2 9-7 2 9-7 8-6 0 17 9-7 12 9-7 2 9-7 8-7 9-7 12 9-7 2 9-7 9-7 9-7 9-7 9-7 9-7 9-7 9-7 9-7 9-7 | 1/9/2008 XX | LPLD1X2C5 | 329 | 6.9 | 7.4 | | | | 258 | - 6 | 250 | 0.8 | | | | | |
| March Marc | 2/25/2008 XX | LPLD1X2EH | 303 | 7.8 | 5.2 | | | | 336 | 6 | 110 | 0.6 | | | | | |
| SOURCE 129 81 88 379 8 70 22 8 8 8 8 8 8 8 8 | 3/13/2008 XX | LPLD1X2F3 | 192 | 8.3 | 1.2 | | | | 321 | 5 | 60 | 1.7 | | | | | |
| FURCACON XX PURISH 140 70 123 397 8 45 16 | 4/17/2008 XX | LPLD1X2F9 | 121 | 7.9 | 7.2 | | | | 293 | 6 | 60 | 2.7 | | | | | |
| FURNISHING TABLE | | LPLD1X2DH | 129 | 8.1 | 8.8 | | | | 379 | 6 | 70 | 2.2 | | | | | |
| 7/28/000 XX PADVAPH \$25 6.9 22.6 391 4 115 0 | | LPLD1X2HJ | 140 | 7.9 | 12.3 | | | | 307 | 6 | 45 | 1.6 | | | | | |
| SPRINGON XX PRIDIAN 450 7.9 15.6 288 3 126 15 17 18 18 19 19 19 18 18 19 19 | | LPLD1X2H1 | 252 | 6.9 | 22.6 | | | - | 391 | 4 | 115 | 0 | | | | | " |
| 9959000 XX PADUSIF 254 71 14.9 226 3 115 0.7 | | LPLD1X309 | | 7.8 | 15.8 | | | · · · · · | 293 | 3 | 125 | 1.8 | | | | | |
| 10292000 XX PLDINSID 290 7.6 9.4 9.5 355 115 1.2 9.4 9.5 117 1.2 9.5 9.5 1.5 1.2 9.5 9. | | LPLD1X30F | | | | | <u> </u> | | | | | 0.7 | | | | | |
| 111172009 XX P.DINGI | | | | + | | | | | | | | | | | | | |
| 1222000 XX PLDINST 291 77 6.9 210 6. 95 1.1 | | | | | | | | | | | | | | | | | |
| Trigogo XX | | | · • · · · · · · · · · · · · · · · · | + | | | | | | | | | | | | | |
| 2022009 XX | | 1 | · | | | | | ! | | - | | | | | | | |
| STITUTION STATE PLICATION STATE STAT | | £ | | | | | - | - - | | | | | | -· · -··· | | | |
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| S28/2009 XX FPDINSH 386 7 146 283 6 120 2.3 | | | | | | | | · | | | | | | | | - | |
| 623/2009 XX | | | | | | | + | | | | | | | | | · | |
| 7/8/2008 XX VPLDYX373 145 7.6 17.1 246 4 35 0.3 | | | 1 | <u> </u> | | | | | <u> </u> | | | | | | + | | |
| BHI/2009 XX PLD1X385 154 6.7 23.5 280 5 55 0.9 | | | | | | / | | + | | | | | · · | | - | . | |
| SP1/2009 XX PLDIXISC 162 7.4 17.6 317 5 70 1.7 | | | | | | | | | | | | | | ·· | | + | |
| 10/27/2009 XX | | d | | | | | | | | | | | | | 1 | + | |
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| 3/17/2010 XX PLD1X312 202 7.4 8.2 313 6 140 2.3 | | L | | | | | | | | + | | | | | <u> </u> | | |
| 4/27/2010 XX | | | | | | · | | | | | | | L. <u>.</u> | · | <u>:</u> | | |
| 7/20/2010 XX LPLD1X431 406 6.6 14.2 408 5 210 2.4 10/19/2010 XX LPLD1X465 536 6.9 9.2 324 4 110 0.3 1 26/20/20/20/20/20/20/20/20/20/20/20/20/20/ | | | | | | | | . | | | | | <u> </u> | - · · · | | | : |
| 10/19/2010 XX LPLD1X465 536 6.9 9.2 324 4 110 0.3 < | | | | | | | | | | | | | | | | | |
| 4/26/2011 XX LPLD1X4A6 173 7.7 8 310 6 150 2.5 7/19/2011 XX LPLD1X4E4 212 7.7 16.4 263 3 75 0 10/25/2011 XX LPLD1X4HJ 336 7.4 13.3 186 5 130 0 4/24/2012 XX LPLD1X528 184 8 7 383 6 65 2 7/24/2012 XX LPLD1X578 206 75 15.4 381 5 110 2.1 10/23/2012 XX LPLD1X50J 123 71 13.2 411 5 100 1.5 4/23/2013 XX LPLD1X5IA 238 7.9 6.9 231 6 85 1.3 LP-UD-1 | | 1 | | | | | | | | | | | | _ | · · · · · · · · · · · · · · · · · · · | | |
| 7/19/2011 XX LPLD1X4E4 212 7.7 16.4 263 3 75 0 | | 1 | | | | | | | | | | | | | <u> -</u> | | |
| 10/25/2011 XX LPLD1X4HJ 336 7.4 13.3 186 5 130 0 4/24/2012 XX LPLD1X529 184 8 7 383 6 65 2 7/24/2012 XX LPLD1X578 206 7.5 15.4 381 5 110 2.1 10/23/2012 XX LPLD1X50J 123 7.1 13.2 411 5 100 1.5 4/23/2013 XX LPLD1X5IA 238 7.9 6.9 231 6 85 1.3 7/30/2013 XX LPLD1X64F 191 7.3 15.4 217 3 65 1.3 LPLD1X64F 191 7.3 LPLD1X64F 191 7.3 15.4 217 3 65 1.3 LPLD1X64F 191 7.3 LPLD1X64F 1 | | 1 | | | | | | | | + | | | ļ | | | | |
| 4/24/2012 XX LPLD1XS28 184 8 7 383 6 65 2 7/24/2012 XX LPLD1XS78 206 7.5 15.4 381 5 110 2.1 10/23/2012 XX LPLD1XS0J 123 7.1 13.2 411 5 100 1.5 4/23/2013 XX LPLD1XSIA 238 7.9 6.9 231 6 85 1.3 7/30/2013 XX LPLD1X84F 191 7.3 15.4 217 3 65 1.3 LP-UD-1 | | 1 | | | | <u></u> | _ | | | | | | | | • | | |
| 7/24/2012 XX LPLD1X578 206 75 15.4 381 5 110 2.1 10/23/2012 XX LPLD1X50J 123 71 13.2 411 5 100 1.5 4/23/2013 XX LPLD1X5IA 238 7.9 6.9 231 6 85 1.3 7/30/2013 XX LPLD1X64F 191 7.3 15.4 217 3 65 1.3 LP-UD-1 | | L | + | | | | | | | | | | <u> </u> | | · | <u> </u> | |
| 10/23/2012 XX LPLD1X50J 123 7 1 13.2 411 5 100 1.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | 4 | ! | -+ | | | | | <u> </u> | - | | |
| 4/23/2013 XX LPLD1X5IA 238 7.9 6.9 231 6 85 1.3 7/30/2013 XX LPLD1X64F 191 7.3 15.4 217 3 65 1.3 LP-UD-1 | | | | | | | ļ | <u> </u> | | | | | <u> </u> | | | - | |
| 7/30/2013 XX LPLD1X84F 191 7.3 15.4 217 3 65 1.3 LP-UD-1 | | | | | | | | - | | | | | L | | | | |
| LP-UD-1 | | | 238 | | | | 1 | 1 | | 1 | | | 1 | ļ | | <u> </u> | |
| | 7/30/2013 XX | LPLD1X84F | 191 | 7.3 | 15.4 | L | l | _1 | 217 | 3 | 65 | 1.3 | Ι | l | <u> </u> | | |
| 7/28/2004 XX LPUD1X05G D D D D D D D D D D | LP-UD-1 | | | | | | | | | | | | | | | _ | |
| | 7/28/2004 XX | LPUD1X05G | D | D | D | [] | L | | D | D | D | . D |] | [| T <u>_</u> | T | |

FOR: Juniper Ridge Landfill

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Field Data Part 1 of 1

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

| | | . Juliper la | | | | | | Field | Data Part 1 | of 1 | | | | | | CHARD ROAD RLAND CENTE | R, ME 04021 |
|------------|------|--------------|-------------------------|----------------|-----------------|---------------------------------------|--|----------------|----------------|---------------------|-------------------------------|---|--|--|-------|--|--|
| (LP-UD-1) |) | | Specific Conductance | pН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | | Flow Rate | | | | · |
| Date T | Гуре | Sample ID | µmhos/em @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet . | mV | mg/L | mg/L | N T U | cfs | | | | |
| 8/30/2004 | xx | LPUD1X083 | D | D | D | | | | D | D | D | D | | | | Γ | |
| 9/27/2004 | XX | LPUD1X089 | ם | D | D | | | | D | D | D | D | | | | | |
| 10/27/2004 | XX | LPUD1X076 | H2 | H2 | H2 | | | | H2 | H2 | H2 | H2 | | | | | |
| 11/23/2004 | XX | LPUD1X104 | D | D | D | | | | D | D | D | Ď | | | | [· · · · · · · · · · · · · · · · · | |
| 12/22/2004 | XX. | LPUD1X1QA | D | D | D | | | | D | D | D · | D | | | | [| |
| 1/26/2005 | XX | LPUD1X11C | D | D | D | | | | D | D | D | D | | | | | |
| 2/24/2005 | XX | LPUD1X11J | D | D | D | | | | D | D | D | D | | | | | |
| 3/29/2005 | XX | LPUD1X150 | 517 | 6.8 | 8.3 | | | | 368 | 5 | 125 | 0 | | | | | |
| 4/28/2005 | xx | LPUD1X155 | D | D | O | | T | | D | D | D | D | | | | | |
| 5/11/2005 | XX | LPUD1X139 | D | D | D | | | | D | D | D | D | | | | <u> </u> | |
| 6/22/2005 | XX | LPUD1X17D | D | D | D | | | | D | D | D | D | | <u>L</u> | | <u> </u> | |
| 7/27/2005 | XX | LPUD1X18H | D | D | D | | | | D | D | D | D | | | | i | |
| 8/29/2005 | XX | LPUD1X183 | D | D | Ð | | | | D | D | D | D | | | | | |
| 9/21/2005 | XX | LPUD1X19F | Б | D | D | | | | D | D | D | D | T | | | i | |
| 11/21/2005 | XX | LPUD1X18F | D | D | D | | | | D | D | D | D | | | | | |
| 12/27/2005 | XX | LPUD1X1C1 | D . | D | D | | 1 | | D | D | D | D | | | | | |
| 1/23/2006 | XX | LPUD1X106 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | | |
| 3/15/2006 | ХX | LPUD1X1CI | D | D | D | | | 1 | D | D | D | D | | | | T | T. |
| 4/27/2006 | | LPUD1X1FJ | D | D | D | | 1 | | D | D | D | D | | | | T | |
| 5/24/2006 | XX | LPUD1X1EA | D | D | D | | | | D | D | D | D | | | | Τ | |
| | | LPUD1X1I8 | H5 | H5 | H5 | | : | | H5 | H5 | H5 | H 5 | | · · · · · · · · · · · · · · · · · · · | | Ţ | 1 |
| | хх | LPUD1X1H7 | F6 | F6 | F6 | | <u> </u> | | F6 | F 6 | F6 | F6 | T | l | | | |
| 8/16/2006 | ХX | LPUD1X210 | H5 | H5 | н5 | | | | H5 | H5 | : H5 | H 5 | 1 - | · | | | |
| | ХX | LPUD1X200 | F6 | F6 | F6 | | | | F6 | F 6 | F6 | F6 | | | | | |
| 10/19/2006 | | LPUD1X216 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | İ | 1 |
| | | PUD1X21C | D | Ð | D | | | | D | D | D | , D | | | | | <u> </u> |
| | | PUD1X21H | Н5 | H5 | H5 | | | | H5 | H5 | H5 | H5 | | | | | |
| | | LPUD1X24A | Н5 | H5 | Н5 | 1 | | | H5 | H5 | H5 | . พร | | | | İ | 1 |
| | | LPUD1X258 | H5 | H5 | H5 | | | | H5 | H5 | H5 | H5 | | | | <u> </u> | -f |
| | _ | LPUD1X25F | F6 | F6 | F6 | | | | F6 | F 6 | F6 | F6 | | | • • • | | T |
| | | LPU01X262 | F6 | F6 | F6 | | | | F 6 | F6 | F6 | F6 | · - | <u> </u> " | | j | |
| | | LPUD1X237 | F6 | F6 | F6 | | ·· ··· | | F6 | F6 | F6 | F6 | - | · · · - | | | -} |
| | | LPUD1X28C | F6 | F6 | F6 | | + | | F6 | F6 | · F6 | F6 | | | | <u> </u> | † |
| | | LPUD1X27B | F6 | F6 | F6 | | <u> </u> | - | | F6 | F6 | F6 | | | | ├ ''- | † |
| | | LPUD1X282 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | | |
| | | LPUD1X2A1 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | | ┪┈── |
| | | LPUD1X288 | F6 | F6 | F6 | | | - | F6 | F6 | F6 | F6 | | | | | |
| | | LPUD1X2BE | F6 | F6 | F6 | ļ | | | F6 | F6 | F6 | F6 | | | | | |
| | | LPUD1X2C0 | F6 | F6 | F6 | · ·-· · · · | + | | F6 | F6 | F6 | F6 | | | | | <u> </u> |
| 1/9/2008 | | LPUD1X2C6 | F6 | F6 | F6 | | - | <u> </u> | F6 | F6 | F6 | F6 | | - | | | |
| | | LPUD1X2EI | F6 | F6 | F6 | | + | | F6 | F6 | F6 | F6 | | - | | | |
| 3/13/2008 | | LPUD1X2F4 | | F6 | F6 | · · · · · · · · · · · · · · · · · · · | + | | F6 | F6 | F6 | F6 | ··· | | | | - |
| 4/17/2008 | | LPUD1X2FA | <u></u> F6 | F6 | F6 | | | ! | F6 | F6 | - F6 | F6 | · · · · · · · · · · · · · · · · · · · | | | †·· | + |
| | | LPUD1X2DF | <u></u> F6 | F6 | F6 | <u> </u> | + | | F6 | | | F6 | ···- | | | | - |
| | | PUD1X2IO | F6 | F6 | F6 | | + | (| F6 | F6 | F6 | F6 | | | | | + |
| | | LPUD1X2GJ | D | D D | 0 | | | i - | <u> </u> | D | | D | | | | | |
| 7/28/2008 | | LPUD1X3GA | | | | | 1 | | D | | | 0 | - | | | | + |
| 8/28/2008 | | | <u>D</u> | D | D | | - | | | D | D | + · · · · · · · · · · · · · · · · · · · | | + | | | |
| | | LPUD1X30G | F6 | F6 | F6 | | - | | <u>F6</u> | . F6 | F6 | F6 | | | | | · |
| 10/29/2008 | | PUD1X2J9 | F6 | F6 | F6 | <u></u> | | | F6 | F6 | F6 | F6 | | <u> </u> | | | |
| 11/17/2008 | XX | LPUD1X312 | F6 | F6 | F6 | l . <u>.</u> . | 1 | J | F6 | F6 | F6 | F6 | L | J 1 | | <u> </u> | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Field Data Part 1 of 1

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

| | | | | | | | 1 1010 | Data Part I | | | 1 | | | CUMBE | RLAND CENT | ER, ME 04021 |
|--------------|---------------------------------------|-------------------------|---------------------|------------------------------|--|----------------------------------|--|--------------|-----------------------------|---------------------------------------|-------------------|--|--|--|-----------------|--------------|
| (LP-UD-1) | | Specific Conductance | pH Seedard Units | Temperature Degrees Celcius | Water Level Depth Feet | Water Level Elevation Feet | Well Depth | Corrected Eh | Dissolved Oxygen mg/L | Alkalinity (CaCO3) (field) mg/L | Turbidity (field) | Flow Rate | | | | |
| Date Ty | pe Samp | μmhos/cm @25°C | Standard Units | Degrees Cooms | res | 1000 | reci | M. A | n.g.z. | <u></u> | | ••• | | | | |
| 12/23/2008 X | CX LPUD1X31 | D | П | l D | | 7 | 1 | Ð | D | D | D | I | | | | |
| | CX LPUD1X33 | | F6 | F6 | <u> </u> | | | F6 | F6 | F6 | F6 | | | | | |
| | CX LPUD1X34 | | F6 | F6 | | | | F6 | F6 | F6 | F6 | | } | I | | |
| | X LPUD1X34 | - | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | L | _i | |
| | XX LPUD1X32 | | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | <u> </u> | <u> </u> | |
| | XX LPUD1X35 | F6 | F6 | F6 | - | | | F6 | F6 | F6 | F6 | | | <u> </u> | | |
| | KX LPUD1X35 | F6 | F6 | F6 | T | | | F6 | F6 | F6 | F6 | | | | | |
| | XX LPUD1X37 | F6 | F6 | F6 | 1 | | | F6 | F6 | F6 | F6 | <u> </u> | | | | |
| | XX LPUD1X38 | F6 | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | | |
| | XX LPUD1X38 | | F6 | F6 | 1 | | | F6 | F6 | F6 | F6 | | <u></u> | <u> </u> | _ | |
| | XX LPUD1X3E | | F6 | F6 | | | 1 | F6 | F6 | F6 | F6 | | | l | <u> </u> | |
| | XX LPUD1X3G | | F6 | F6 | | • | | F6 | F6 | F6 | F6 | | | | | |
| | XX LPUD1X3G | | F6 | F6 | 1 | ~ | | F6 | F6 | F6 | F6 | | | 1 | | |
| | XX LPUD1X3H | | F6 | F6 | | - | | F6 | F6 | F6 | F 6 | | | | | |
| | XX LPUD1X3H | E | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | ., | |
| | XX LPUD1X3K | | F6 | F6 | - | | | F6 | F6 | F6 | F6 | | | , | | |
| 4/27/2010 | | | F6 | F6 | ·· | | <u> </u> | F6 | F6 | F6 | F6 | <u> </u> | | | | |
| 5/18/2010 | | | F6 | F6 | ·} | | | F6 | F6 | F6 | F6 | | | | T | |
| | XX LPUD1X41 | | - F6 | F6 | 1 | | †· | F6 | F6 | F6 | F6 | · · · · · - | | <u> </u> | | |
| 7/20/2010 | · · · · · · · · · · · · · · · · · · · | | F6 | F6 | 1 | | 1 | F6 | F6 | F6 | F6 | | | T | T | |
| | XX LPUD1X44 | | F6 | F6 - | | | - | F6 | F6 | F6 | F6 | | | | | |
| | XX LPUD1X44 | | | F6 | | | 1 | F6 | F6 | F6 | F6 | | | | T | |
| | XX LPUD1X46 | | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | | | |
| | XX LPUD1X47 | | F6 | F6 | - | | | F6 | F6 | F6 | FB | | | | + | |
| | | | F6 | F8 | | | | F6 | F6 | F6 | F6 | | | · | † | + $-$ |
| | | | F6 | F6 | | - | | F6 | F6 | F6 | F6 | | · · | T | T | - |
| | | | F6 | · F6 | | + | | F6 | F6 | F6 | F6 | | | | + | |
| | | | F6 | F6 | | | | F6 | F6 | F6 | F6 | | | + | + | _ |
| | | | _ | F6 | + | + | | F6 | F6 | F6 | F6 | | : · · · | | + | - |
| | | | F6 | F6 | + | ··} | | F6 | F6 | F6 | F6 | ! | : | | | |
| | | | F6 | | + | | 1 | F6 | F6 | F6 | F6 | | | | | —·· |
| | XX LPUD1X4F | | F6 | F6 | - | | 1 | F6 | F6 | F6 | F6 | ! | | | | |
| | XX LPUD1X4E | | F6 | F6 | | - | | H9 | H9 | H9 | H9 | · | | | + | |
| - | XX LPUD1X4J | | H9 | H9 | | | | <u>H9</u> | H9 | - H9 | H9 | | + | | | |
| | XX LPUD1X41 | | н9 | H9 | <u> </u> | | | F6 | F6 | F6 | F6 | | | + | | |
| | XX LPUO1X41 | | F6. | F6 | ļ | | | | | | H9 | 1 | + | | + | |
| | XX LPU01X50 | | H9 | H9 | <u> </u> | · ——— | + | H9 | H9 | H9 | H9 | | + | 1 | + | - : |
| | XX LPUD1X4J | | H9 | H9 | - | . | + | H9 | | | H9 H9 | 1 | + | ļ ··—— | + | -i |
| | XX LPUD1X56 | | 149 | H9 | 1 | | + | H9 | H9 | H9 | H9 H9 | | + | ·· · | + | - |
| | XX LPUD1X50 | | H9 | H9 | _ | | + | H9 | H9 | H9 | | | | | + | + · |
| | XX LPUD1X59 | 1 | H9 | H9 | _ | | | H9 | H9 | H9 | H9 | | + | ļ | | |
| | XX LPUD1X5 | | .H5 | H5 | 4 | . | 1 | H5 | H5 | H5 | H5 | | | 1 | | |
| | XX LPUD1X52 | | F6 | | | | | F6 | F6 | F6 | F6 | | + | ļ | + | |
| | XX LPUD1X5/ | | H9 | H9 | | 1 | | H9 - | | H9 | H9 | | | + | + | |
| | XX LPUD1X56 | | F5 | F6 | <u> </u> | 4 | 1 | F6 | F6 | F6 | F6 | | | + | + | |
| 7/24/2012 | XX LPUD1X57 | | F6 | F6 | | | 1 | F6 | F6 | F6 | F6 | 1 | | + | -1 - | |
| 7/31/2012 | | | H.9 | H9 | | | 1 | H9 | H9 | H9 | H9 | | | + | | |
| | XX LPUD1X56 | | F6 | F6 | 1 | | | F6 | F6 | F6 | . F6 | | | | _+ | <u> </u> |
| 9/27/2012 | XX LPUD1X56 | | F6 | F6 | | | | F6 | F6 | F 6 | F6 | - | | | | ļ |
| 10/23/2012 | XX LPUD1X50 | | F6 | F6 | | | | F6 | F6 | F6 | F6 | ļ | _ | ļ | <u> </u> | |
| 11/13/2012 | XX LPUD1X50 | 1 F6 | F6 | F6 | | | <u> </u> | F6 | F6 | F6 | _L. F6 | <u></u> | _L | I | <u></u> | _ |

Page 17 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Field Data Part 1 of 1 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 Well Depth Corrected Eh Dissolved Alkalinity Turbidity (field) Flow Rate Specific Temperature Water Level Water Level (LP-UD-1) Conductance Depth Elevation Oxygen (CaCO3) (field) umhos/cm Standard Units Degrees Celcius μV mg/L mg/LNTU Feet Feet Feet @25°C Type Sample ID 12/31/2012 XX UPUD1X5GC F6 F6 F6 F6 F6 F6 F6 1/30/2013 XX LPUD1X608 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X5JG F6 F6 F6 F6 F6 F6 F6 2/15/2013 3/28/2013 XX LPUD1X611 F6 F6 F6 F6 F6 F6 F6 4/23/2013 XX LPUD1X58 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/24/2013 XX LPUD1X61D F6 F6 XX LPUD1X625 F6 F6 F6 F6 F6 F6 Fβ 5/30/2013 XX LPUD1X62H F6 F6 F6 F6 6/26/2013 F6 F6 F6 XX LPUD1X64D F6 F6 F6 F6 F6 7/30/2013 F6 F6 8/20/2013 XX LPUD1X697 F6 F6 F6 F6 F6 F6 F6 9/26/2013 XX LPUD1X68F F6 F6 Ė6 F6 F6 F6 F6 F6 F6 F6 F6 F6 10/29/2013 XX LPUD1X676 F6 F6 F6 F6 F6 F6 11/25/2013 XX LPUD1X6AD F6 F6 F6 12/17/2013 XX LPUD1X6D0 F6 F6 F6 F6 F6 F6 F6 LP-UD-2 7/28/2004 XX LPUD2X05H 480 6.6 12 332 6 180 0 LPUD2X084 326 175 1.6 6 8/30/2004 XX 519 6.1 16 9/27/2004 XX LPUD2X08A 522 6.9 19.9 322 3 265 0 o 10/27/2004 XX LPUD2X079 656 6.8 12.6 311 290 XX LPUD2X105 311 185 11/23/2004 574 7.6 9.8 4.1 12/22/2004 XX LPUD2X10B 834 7.2 7.6 243 8 250 3.7 XX LPUD2X11D 580 7.2 6.2 262 5 165 0 1/26/2005 2/24/2005 XX LPUD2X120 498 6.6 6.1 260 6 190 0.4 LPUD2X151 8.3 368 5 125 0 517 6.8 3/29/2005 XX 4/28/2005 XX LPUD2X156 414 6.9 6.4 335 6 205 5.1 5/11/2005 XX LPUD2X13A 377 6.7 10.2 339 8 200 0 377 LPUD2X17E 7.6 13.3 6 155 4.1 6/22/2005 XX 411 7/27/2005 XX LPUD2X16I 375 6.9 16.2 302 4 0.9 XX LPUD2X1B4 253 4 125 60 6.7 15.6 8/29/2005 396 XX LPU02X19G 374 7.1 15.3 245 6 190 0 9/21/2005 LPUD2X1BG 353 11.8 234 5 155 2.1 11/21/2005 XX 74 150 2.5 12/27/2005 XX LPUD2X1C2 430 7.1 4.7 273 6 XX LPUD2X1C7 405 7.2 7.2 273 6 180 16 1/23/2006 100 3/15/2006 XX LPUD2X1CJ 373 6.8 7.9 324 5 19 LPUD2X1G0 329 6 130 4.6 4/27/2006 XX 332 7.4 7.2 5/24/2006 XX LPUD2X1EB 249 175 1.5 5 349 7.5 12.8 6/13/2006 XX LPUD2X1I9 H5 H5 H5 H5 Н5 H5 H5 LPUO2X1H8 20.8 231 Ŕ 165 7/25/2006 XX 342 6.4 H5 LPUD2X211 Н5 H5 H5 H5 H5 8/16/2006 XX H5 9/11/2006 XX LPUD2X201 372 6.7 14.9 283 6 110 1.3 130 246 2.2 10/19/2006 XX LPUD2X217 352 7.1 13 LPUD2X21D 125 0.8 11/21/2006 XX 289 10.6 224 6.9 12/5/2006 XX LPUD2X211 H5 H5 **H**5 H5 H5 H5 H5

H5

H5

357

263

423

330

H5

H5

5

5

5

6

H5

H5

90

135

170

165

H5

H5

O

12

0.3

2.8

0.0006

XX LPUD2X24B

XX LPUD2X25G

XX LPUD2X263

XX LPUD2X238

2/22/2007 XX LPUD2X259

6/21/2007 XX LPUD2X28D

1/24/2007

3/21/2007

4/26/2007

5/16/2007

H5

H5

6.9

6.6

5.9

H5

H5

210

352

350

289

H5

H5

8.3

114

8.9

12.6

FOR: Juniper Ridge ! andfill

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SEVEE & MAHER ENGINEERS, INC.

| | F | OR: Juniper Ric | ige Landfill | | | | | Field | Data Part 1 | of 1 | | | | 4 BLANCHAF CUMBERLAN | RD ROAD ND CENTER, ME 04021 |
|--------------------|-------|------------------|--|----------------------|-----------------------------|------------------------------|--|--|--------------|-----------------------------|---------------------------------------|-------------------|--------------|--|--------------------------------|
| (LP-UD-2) Date Ty | me | Sample ID | Specific Conductance µmhos/cm @25°C | pH Standard Units | Temperature Degrees Celcius | Water Level Depth Feet | Water Level Elevation Feet | Well Depth Feet | Corrected Eh | Dissolved Oxygen mg/L | Alkalinity (CaCO3) (field) mg/L | Turbidity (field) | Flow Rate | | |
| Date 1 | | | | | | | | | | | | | | T | |
| | | PUD2X27C | 250 | 7.4 | 16 | | <u> </u> | ļ | 359 | 6 | 165 | 3.4 | 0.0006 | ·-·· | |
| | | PUD2X2B3 | 334 | 6.7 | 16 | | ļ | | 321 | 6 | 125 | 1.8 | 0.0006 | | |
| 9/12/2007 | | PUD2X2AZ | 350 | 6.8 | 16.1 | | ļ | ļ | 414 | 6 | 140 | 0.8 | 0.0006 | | |
| 10/24/2007 | | PUD2X2B9 | 464 | . 7 | 12.1 | | | <u> </u> | 273 | 6 | 125 | 0.8 | 0.0006 | | |
| 11/27/2007 | XX n | PUD2X2BF | 335 | 7.4 | 9.7 | | 1 | <u> </u> | 259 | 6 | 110 | 0.8 | 0.0006 | | |
| 12/18/2007 | XX U | PUD2X2C1 | 322 | 7.6 | 6.6 | | | 1 | 323 | 6 | 115 | 1.3 | 0.0006 | | |
| 1/9/2008 | XX LI | PUD2X2C7 | 226 | 6.8 | 8.6 | | | | 244 | | 135 | 1.2 | 0.0033 | | |
| 2/25/2008 | XX LI | PUID2X2EJ | 333 | 69 | 6.7 | | | | 368 | 6 | . 115 | 1.5 | H6 | | |
| 3/13/2008 2 | XX L | PUD2X2F5 | 309 | 7.5 | 2.9 | | ļ | | - 356 | 5 | 70 | 0 | . Н6 | | |
| 4/17/2008 | XX L | PUD2X2FB | 302 | 7.3 | 9.4 | | | L | 311 | 5 | 125 | 0 | H6 | | |
| 5/20/2008 | XX LI | PUD2X2DG | 324 | 7.5 | 10.6 | T | | | 388 | 6 | 145 | 1.8 | 0.0033 | | |
| | | PUD2X2I1 | 308 | 7.1 | 13.6 | | | | 373 | 5 | 100 | 0 | H6 | <u> </u> | |
| | | PUD2X2H0 | 306 | 6.7 | 23.6 | <u> </u> | | | 367 | 4 | 140 | 1 | H6 | | |
| | | PUD2X30B | 521 | 7.3 | 16.5 | i | † ··- | | 325 | 6 | 120 | 0.5 | 0.0006 | | |
| | | PUD2X30H | 273 | 6.9 | 15.4 | | | | 218 | 5 | 110 | 0.3 | H6 | | |
| 10/29/2008 | | PUD2X2JA | 284 | 7.6 | 10.1 | | | | 511 | 6 | 115 | 1.6 | 0.0089 | | |
| | | PUD2X313 | 282 | 7.6 | 9.8 | | | | 342 | 5 | 100 | 1.3 | 0.0033 | | |
| 12/23/2008 | | PUD2X319 | 283 | 7.7 | 6 | | | | 220 | 6 | 80 | 2 | 0.0022 A6 | | |
| | · | PUD2X340 | 277 | 7.2 | 3.1 | | + | i | 318 | 6 | 70 | 8.3 | 0.0022 A6 | | |
| | | PUD2X347 | 327 | 7.4 | 5.4 | | + | 1 | 364 | 6 | 115 | 4.5 | 0.0011 | T | |
| | | PU02X34F | 257 | 6.9 | 4.9 | | - | | 375 | ··· <u>-</u> | 100 | 2.6 | 0.0033 | ł ···· | |
| | , | PUD2X32I | | | 10.7 | | + | | 520 | 6 | 85 | 0.8 | 0.0045 | | |
| | | | 311 | 7.1 | + | | ļ ·· | | 307 | 6 | 135 | 4.8 | 0.0022 | | |
| | | PUD2X353 | 380 | | 11.6 | | i | | 277 | 5 | 115 | 0.6 | 0.0022 | } | |
| | - | PUD2X358 | 296 | 7.2 | 13.1 | | | | | | | 0.0 | 0,0045 | | |
| | | PUD2X372 | 313 | 7.4 | 14.1 | | | | 158 | 5 | 125 225 | 0.9 | 0.0022 | | |
| | | PUD2X385 | 311 | 6.6 | 18.3 | | | | 371 | 6 | | | 0.0056 | <u> </u> | |
| | | PUD2X38E | 279 | 6.6 | 18.8 | <u> </u> | | | 319 | 6 | 135 | 0.8 | 0.0036 | | |
| 10/27/2009 | | Р ЏD2ХЗЕН | 353 | | 10 | <u></u> | l - | | 179 | 6 | 50 | 1.5 | | | · |
| | ,,, | PUD2X3G1 | 439 | 7.3 | 13.6 | | | | 377 | 5 | 100 | 0.5 | 0.0045 | | · |
| 12/8/2009 | | PUD2X3GB | 363 | 7.8 | 77 | | | | 230 | 4 | 115 | 0.5 | 0.0045 | | |
| 1/21/2010 | XX L | PUD2X3H3 | 370 | 7.5 | 6.6 | l | <u> </u> | | 301 | 5 | 120 | ⊥ <u>□</u> | 0.0045 | k | |
| 2/23/2010 | XX 1 | PUD2X3HF | 353 | 7.5 | 7.4 | | L | | 210 | 5 | 150 | 0.2 | 0.0033 | <u> </u> | |
| 3/17/2010 | XX L | PUD2X314 | 324 | 7.3 | 9.5 | | | 1 | 291 | 6 | 110 | 0.9 | 0.0056 | <u> </u> | |
| 4/27/2010 | XX L | PUD2X3JG | 324 | 6.7 | 8.8 | | |] | 274 | 6 | 110 | 0 | 0.0045 | <u> </u> | |
| 5/18/2010 | XX | PUD2X410 | 318 | 7.3 | 12 | | } | 1 | 336 | 5 | 80 | 0.2 | 0.0022 | <u> </u> | |
| 6/22/2010 | XX L | PUD2X418 | 379 | 7.1 | 14.9 | T | | T | 358 | 5 | 110 | 0 | 0.0045 | | |
| | | PUD2X430 | 315 | 7.2 | 19.5 | | 1 | | 385 | 6 | 160 | 5.9 | 0.0022 | <u> </u> | |
| | | PUD2X44C | 355 | 7.2 | 18.5 | | 1 | T: | 271 | 5 | 165 | 0.2 | 0.0006 | <u> </u> | |
| | | PUD2X444 | 312 | 6.9 | 17.7 | | | <u> </u> | 295 | 6 | 155 | 0 | 0.0022 | | |
| | | PUD2X464 | 480 | 7 | 10.1 | <u> </u> | + ·- ·· | | 407 | 6 | 110 | 0.1 | 0.0067 | | |
| | | PUD2X476 | 317 | 7.7 | 8.9 | | | | 231 | 4 | 125 | 0 | 0.0045 | | <u></u> |
| | | PUD2X482 | 331 | 6.9 | 7.7 | | + - | | 307 | 5 | 115 | 0 | 0.0045 | <u> </u> | |
| | | PUD2X47E | 302 | 8 | 10 | | · | - | 273 | 10 | 350 | 0 | 0.0056 | | T |
| | _ | PUD2X4BJ | 341 | 7.3 | 8.4 | + · · · · · - | | | 358 | 6 | 260 | 0 | 0.0056 | | |
| | | PUD2X4C9 | 300 | 7.3 | 7.5 | | + | | 500 | 8 | 115 | 0.2 | 0.0056 | | |
| | _ | | 325 | | 9.6 | | 1 | 1 | 337 | 6 | 250 | 12 | | | |
| | | PUID2X4A5 | | 6.9 | | + | + | 1 | 361 | 8 | 72.5 | 0.03 | | | |
| | | PUD2X4F8 | 333 | | 13 | 1 | + | | | Į | | 0.6 | ļ | | |
| | , , , | PUD2X4FJ | 304 | 7 | 16,1 | ļ | · - | | 382 | 8 | 100 | + | 0 0033 | | |
| | | PUD2X4E3 | 250 | 6.7 | 18.3 | . | | | 294 | 5 | 100 | 0 | | | |
| 8/1/2011 | XX L | PUD2X4J9 | F12 | F12 | F12 | L | J | .L | F12 | F12 | F12 | F12 | F12 | IIIIII | |

Page 19 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Field Data Part 1 of 1 CUMBERLAND CENTER, ME 04021 Alkalinity Turbidity (field) Flow Rate Dissolved Water Level Water Level Well Depth Corrected Eh (LP-UD-2) Specific Temperature Conductance Depth Elevation Oxygen (CaCO3) (field) mg/L NTU cfş μmhos/cm Feet πV mg/L Standard Units Degrees Celcius Feet Feet @25°C Type Sample ID Date H5 H5 XX LPUD2X4fR H5 H5 H5 Н5 H5 H5 10/8/2011 XX LPUD2X4HI 319 7.3 14.9 284 6 140 0 0.0045 10/25/2011 Н5 H5 H5 H5 Н5 11/30/2011 XX LPUD2X50C H5 H5 H5 XX LPUD2X500 H5 H5 Н5 H5 H5 H5 H5 H5 12/29/2011 XX LPUD2X58C H5 H5 H5 **H5** H5 Н5 H5 H5 1/26/2012 Н5 H5 XX LPUD2X594 H5 H5 2/24/2012 H5 H5 H5 H5 3/23/2012 XX LPU02X59F H\$ H5 H5 H5 H5 H5 Н5 Н5 F6 F6 F6 F6 4/16/2012: XX LPU02X5A8 F6 F6 F6 F6 4/24/2012 XX LPUD2X528 10.3 6 100 2.5 200 6.9 409 XX LPUD2X5AH 373 8 130 0.27 5/3/2012 322 7.6 16.6 XX LPU02X5B8 287 7 17.21 422 6 100 1.23 0.0006 6/29/2012 XX LPU02X577 468 185 3 0.0033 7/24/2012 110 6.7 18.9 6 XX LPUD2X5BJ 130 0.0011 338 20.3 360 6 0.14 7/31/2012 XX LPUDZX5F0 125 0.0003 342 19 298 0.23 8/31/2012 6.6 6 0.39 0.0003 9/27/2012 XX LPUDZX5F8 196 6.8 17.6 368 115 105 1.3 0.0033 XX LPUDZX5DI 272 14.1 453 4 6.8 10/23/2012 125 0.0003 XX LPUDZX5G2 7.2 125 364 6 0.36 11/13/2012 272 XX LPUD2X5GD 350 110 0.64 0.000612/31/2012 7.6 8 286 7.4 125 0.35 0.0003 463 1/30/2013 XX LPUD2X609 289 7,7 8.7 10 XX LPUD2X5JH 272 393 6 130 0.04 0.0003 7.6 9.6 2/15/2013 XX LPUD2X612 0.47 0.0003 300 10 110 270 7.9 8.5 3/28/2013 0.0033 XX LPUD2X5I9 299 7.1 7.9 238 6 85 4/23/2013 XX LPUD2X61E 231 7.6 11.1 343 10 137 0.02 0.0006 4/24/2013 5/30/2013 XX LPUD2X626 324 115 0.19 0.005 7.2 10 216 18.6 XX LPUD2X62I 302 409 8 150 0.32 0.0045 7.1 13.5 6/26/2013 XX LPUD2X64E 304 6.8 18.1 261 6 105 1.1 0.0033 7/30/2013 125 0.41 0.0045 8/20/2013 XX LPUD2X698 335 6.9 21.3 372 6 XX LPUD2XB8G 337 7.2 377 8 110 1.09 0.0011 15.9 9/26/2013 XX LPUD2XB77 0.6 0.0022 366 125 10/29/2013 361 7 10.8 6 XX LPUD2XBA1 381 125 0.62 0.0022 11/25/2013 315 7.4 10.9 8 LPUD2XBD1 357 10 0.44 288 7.6 9.2 12/17/2013 XX MW04-102 1/18/2005 XX GW102X10C 5.45 164.77 241 110 1.2 240 8.1 6 3/21/2005 XX GW102X144 202 7.3 7.8 4.9 165.32 292 100 1.4 7/25/2005 XX GW102X17I 4 125 1.2 248 77 16.4 6.7 163.52 307 9/20/2005 XX GW102X1A9 273 105 0.4 205 7.1 13.7 5.52 164.7 18.02 5/23/2006; XX GW102X1F4 219 7.8 11.9 4.8 165.42 366 170 Û GW102X1ID 7.7 20.1 343 165 8.0 7/25/2006; XX 215 5.13 165.09 9/12/2006: XX GW102X20D 164.68 351 75 Ô 204 7.9 18.3 5.54 18.04 GW102X240 236 7.7 9.8 5.67 164.55 341 40 1.5 5/15/2007 XX Û 7/24/2007 XX GW102X284 217 8.1 19.4 6.3 163.92 371 90 XX GW102X2AE 0.5 7.9 12.9 7.42 162.8 271 9/11/2007 215 18 5/20/2008 XX GW102X2€8 223 7.3 164.17 287 130 0.1 11 6.05 GW102X2HC 193 283 3 95 0.6 7/29/200B XX 7.9 15.7 5.81 164.41 10/27/2008 XX GW102X302 3 115 0 198 7.8 13.7 5.5 164.72 18 151 75 4/14/2009 XX GW102X339 234 7.7 9 5.47 164.75 353 4 0 75 0 GW102X37D 5 165.22 310 7/7/2009 XX 234 8.1 11.8 GW102X3F8 236 354 70 0 10/27/2009 XX 8.2 10.8 5.27 164.95 17.84 4 4/27/2010 XX GW102X407 234 7.8 7.3 5.97 164.25 380 60 0.8

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Field Data Part 1 of 1

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

| | | TOTAL SUBIRECTION | -- | | | | | Field | Data Part 1 | 6 10 | | | | | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | | |
|------------|------|-------------------|-------------------------|----------------|-----------------|----------------------|--------------------------|------------|--------------|---------------------|-------------------------------|-------------------|-----------|--|---|----------|----------|--|
| (MW04-1 | 102) | | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | | |
| Date | Туре | Sample-ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV . | mg/L | mg/L | UTN | cís | | | | | |
| 7/21/2010 | хх | GW102X43B | 245 | 7.6 | 18.1 | 7.58 | 162.64 | | 180 | 2 | 135 | 2 | Ī | | T | | | |
| 10/19/2010 | XX | GW102X46F | 232 | .7.9 | 12.8 | 5.85 | 164.37 | 17.97 | 231 | 3 | 75 | 0 | | | | | | |
| 4/25/2011 | XX | GW102X#AG | 249 | 7.9 | 11.2 | 5.02 | 165.2 | | 335 | 4 | 80 | 0.2 | | | 1 | | | |
| 7/19/2011 | ХX | GW102X4EE | 239 | 8.1 | 17.4 | 6.65 | 163.57 | | 294 | 2 | 85 | 0.8 | | | | | | |
| 0/25/2011 | XX | GW102X4I9 | 209 | 8.2 | 13.1 | 6.5 | 163.72 | 17.85 | 305 | 5 | 95 | 3.8 | | | | | | |
| 4/24/2012 | XX | GW102X52J | 227 | 8.1 | 9.8 | 6 | 164.22 | | -8 | 3 | 120 | 3.2 | | | 1 | | | |
| 7/24/2012 | XX | GW102X57I | 230 | 7.9 | 15.8 | 8 | 162.22 | | 38 | 3 | 100 | 1.4 | | | | | | |
| 0/22/2012 | XX | GW102X5E9 | 221 | 7,7 | 14.1 | 5.78 | 164.44 | 17.98 | 178 | 3 | 45 | 1.5 | | | | | | |
| 4/23/2013 | хх | GW102X5JD | 220 | 8 4 | 7 | 5.8 | 164.42 | | 396 | 3 | 85 | 0.9 | | | | | | |
| 7/31/2013 | XX | GW102X655 | 227 | 7.8 | 16.1 | 6.5 | 163.72 | | 334 | 3 | 100 | 0.8 | | | | | | |
| 10/28/2013 | XX | GW102X67F | 207 | 8.3 | 12.7 | 7.1 | 163.12 | 18.05 | 306 | 1 | 100 | 1.2 | | | | | | |
| MW04- | 105 | | - | | | | | | | | | | | | | | | |
| 1/17/2005 | XX | GW105X10F | 435 | 7.6 | 7.4 | 7.31 | 158.28 | | 170 | 4 | 125 | 0 | | | T | | | |
| 3/21/2005 | XX | GW105X147 | 703 | 6.4 | 6.7 | 6.85 | 158.74 | | 404 | 2 | 145 | 0 | | | 1 | | | |
| 7/25/2005 | | GW105X181 | 531 | 7.3 | 16.1 | 8.08 | 157.51 | | 223 | 2 | 230 | 1.3 | | | | I | | |
| 9/20/2005 | | GW105X1AC | 531 | 6.9 | 14.4 | 7.69 | 157.9 | 22.83 | 293 | 1 | 145 | 1.7 | | | | T | | |
| 5/23/2006 | xx | GW105X1F7 | 361 | 6.5 | 13.8 | 7.08 | 158.51 | | 299 | 1 | 220 | 0 | | | 1 | 7 | | |
| 7/25/2006 | | GW105X1H | 370 | 6.4 | 23.8 | 7.05 | 158.54 | | 333 | 2 | 205 | 0.9 | : | | 1 | 7 | | |
| 9/12/2006 | | GW105X20E | 447 | 6.1 | 12.2 | 6.85 | 158.74 | 22.85 | 344 | 1 | 150 | 1.5 | | | 1 | | | |
| 5/14/2007 | | GW105X241 | 343 | 7 | 13.3 | 7.8 | 157.79 | | 365 | 3 | 175 | 0 | - | | | | | |
| 7/24/2007 | XX | GW105X285 | 483 | 7.2 | 17.3 | 8.02 | 157.57 | | 404 | 1 | 135 | 0 | | | | | | |
| 9/10/2007 | XX | GW105X2AF | 472 | 6.8 | 12.1 | 8.48 | 157.11 | 22.76 | 213 | 0.6 | 240 | 0 | | | | | | |
| 5/19/2008 | XX | GW105X2E9 | 447 | 6.8 | 9.1 | 8.13 | 157.46 | | 256 | 4 | 210 | 0.1 | | | | | | |
| 7/29/2008 | XX | GW105X2HD | 429 | 6.6 | 14.6 | 7.32 | 158.27 | | 322 | 1 | 185 | 1.2 | | | | | | |
| 10/27/2008 | XX | GW105X303 | 338 | 7 | 12.1 | 7 | 158.59 | 22.78 | 289 | 0.8 | 175 | 0.5 | , | | | | | |
| 4/15/2009 | XX | GW105X33A | 274 | 6.6 | 7.7 | 7.67 | 157.92 | | 295 | 2 | 85 | 0.9 | | | l | | | |
| 7/7/2009 | XX | GW105X37E | 345 | 7.3 | 10.4 | 5.91 | 159.68 | | 313 | 0.6 | 185 | 0.2 | | | l | | | |
| 10/26/2009 | XX | GW105X3F9 | 528 | 6.8 | 10.6 | 5.8 | 159.79 | 22.75 | 412 | 3 | 100 | 0.6 | | | .L | | | |
| 4/27/2010 | XX | GW105X408 | 304 | 6.7 | 7.7 | 7.32 | 158.27 | T | 322 | 0.8 | 70 | 0.7 | | | Ш <u>.</u> | <u> </u> | | |
| 7/19/2010 | XX | GW105X43C | 348 | 6.5 | 15.6 | 7.5 | 158.09 | | 302 | 0.8 | 150 | 0.3 | | | | | | |
| 10/18/2010 | XX | GW105X46G | 306 | 7.2 | 11.5 | 6.9 | 158.69 | 22.75 | 270 | 0.6 | 105 | 0 | | | | | | |
| 4/26/2011 | XX | GW105X4AH | 312 | 7.1 | 9.6 | 6.46 | 159 13 | | 322 | 1 | 75 | 0 | | | | | | |
| 7/18/2011 | ХX | GW105X4EF | 325 | 6.7 | 16.7 | 7.1 | 158.49 | | 275 | 0.8 | 100 | 0.3 | | | | | | |
| 0/25/2011 | XX | GW105X4IA | 217 | 7.7 | 119 | 6.9 | 158 69 | 22.75 | 339 | 0.8 | 85 | 1.8 | | | | | | |
| 4/23/2012 | XX | GW105X530 | 240 | 7.4 | 8.7 | 7.6 | 157 99 | 1 | 325 | 3 | 160 | 1.7 | | | | | | |
| 7/24/2012 | XX | GW105X57J | 299 | 7.1 | 13.6 | 8.6 | 156 99 | 1 | -7 | 0.4 | 160 | 1.1 | | | Γ΄ | <u> </u> | | |
| 10/22/2012 | XX | GW105X5EA | 252 | 7.2 | 11.9 | 6.6 | 158.99 | 22.75 | 281 | 0.4 | 70 | 1.3 | | | | | | |
| 4/24/2013 | XX | GW105X5J1 | 249 | 6.8 | 7.1 | 7.55 | 158.04 | T | 381 | 1 | 90 | 3 | | | | | <u> </u> | |
| 10/29/2013 | XX | GW105X68B | 286 | 6.7 | 11.2 | 8.43 | 157.16 | 22.83 | 324 | 0.6 | 125 | 1.2 | | | | <u> </u> | | |
| MW04- | 109 | | | | | | | | | | | | | | | | | |
| 1/19/2005 | XX | GW109X10I | 572 | 7.8 | 4.7 | 10.95 | 153.64 | T | 323 | 2 | 260 | 0 | | | | | | |
| 3/23/2005 | ХX | GW109X14A | 662 | 7.1 | 7.8 | 10.8 | 153,79 | ľ | 343 | 2 | 200 | 0 | | | | | | |
| 7/26/2005 | ХX | GW109X184 | 416 | 5.5 | 11.3 | 11.65 | 152.94 | L | 273 | 0.8 | 225 | 0 | | | | | | |
| 9/20/2005 | XX | GW109X1AF | 454 | 7.2 | 16.2 | 11.72 | 152.87 | 22.9 | 168 | 1 | 165 | 0 | | | | | | |
| 5/23/2006 | XX | GW109X1FA | 349 | 7.1 | 9.5 | 10.17 | 154.42 | | 300 | 1 | 138 | 0 | | | | | | |
| 7/25/2008 | XX | GW109X1I2 | 370 | 7.1 | 13.6 | 10.15 | 154.44 | | 297 | 1 | 150 | 0 | | | | <u> </u> | | |
| 9/12/2006 | XX | GW109X20F | 357 | 6.2 | 15.9 | 10.53 | 154.06 | 22 92 | 200 | 1 | 150 | 0 | | | | | | |
| 5/15/2007 | XX | GW109X242 | 385 | 7.1 | 6.9 | 98 | 154 79 | | 207 | 1 | 125 | 0 | | | 1 | | | |

Page 21 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Field Data Part 1 of 1 CUMBERLAND CENTER, ME 04021 Alkalinity Turbidity (field) Flow Rate Well Depth Corrected Eh Dissolved Water Level Water Level Specific pН Temperature (MW04-109) (CaCO3) (field) Depth Elevation Oxygen Conductance NTU cfs mg/L mg/L Feet Feet Feet mΥ µmhos/cm Standard Units Degrees Celcius Date Type Sample ID 375 0.4 125 GW109X286 314 6.9 15 10.45 154,14 7/24/2007 XX 88 12.2 153.12 22.85 200 0.3 0 XX GW109X2AG 283 11.47 9/10/2007 6.8 7.1 9.52 155.07 7 0.3 190 0 GW109X2EA 645 5/19/2008 XX 72 0.3 285 a XX GW109X2HE 613 6.8 14.6 9.61 154.98 7/29/2008 0.2 GW109X304 494 7.2 12.8 9.9 154.69 22.9 229 2 260 10/28/200B XX 262 0.6 240 0.7 GW109X33B 551 7.2 6.8 10 154.59 4/15/2009 XX Đ€ DΕ DΕ DÉ GW109X37F DΕ DE ÐΕ DE 7/7/2009 XX MW04-109R 269 210 12/8/2009 XX GW109X3GF 550 7.9 7.9 6.15 153.98 22.98 Ω 153.78 286 0.6 125 O XX GW109X409 6.7 6.35 4/27/2010 402 9.2 155 0.5 XX GW109X43D 17.2 7.49 152,64 220 0.4 450 6.5 7/20/2010 209 0.6 155 0 XX GW109X46H 489 12.1 153.53 22.92 6.6 10/19/2010 281 0.6 105 Ď XX GW109X4AI 446 6.6 10.9 6.25 153,88 4/26/2011 130 0.2 6.5 21.1 7.25 152.88 259 0.3 XX GW109X4EG 423 7/19/2011 360 0.3 145 1.4 XX GW109X4IB 6.62 153.51 22.95 416 7 12.2 10/25/2011 478 0.4 240 2.9 GW109X531 382 6.6 10.4 6.36 153,77 XX 4/24/2012 140 152.86 -155 0.3 1 XX GW109X580 7/24/2012 40B 6.5 19.1 7.27 XX GW109X5EB 160 1.1 404 6.6 9.3 6.4 153.73 22.92 241 0.8 10/23/2012 341 165 0.3 XX GW109X5J2 6.68 153.45 390 6.8 10.2 4/23/2013 278 180 0.2 XX GW109X657 06 7/30/2013 414 6.6 19 6.92 153.21 10/29/2013 XX GW109X67G 22.97 327 0.6 220 0.2 397 6.3 5.9 7.41 152.72 MW09-901 10.1 90 12/8/2009 XX GW901X3GH 22.6 260 300 8.2 5,3 7.95 157.15 328 3 60 2.1 4/27/2010 XX GW901X3J7 241 7.6 10.6 8.86 156,24 321 0.8 105 2.7 17.5 154.3 GW901X42B 275 7.4 10.8 7/20/2010 XX 80 0.3 22.75 235 0.6 10/19/2010 XX GW901X45F 300 7.5 12.8 9.25 155.85 355 2 50 1.6 XX GW901X49G 254 8 9.7 8.6 156 5 4/26/2011 75 0.3 XX GW901X4DE 7.9 19.2 154.6 329 2 219 10.5 7/19/2019 70 3,1 GW901 X4H9 192 8.2 11,7 9.35 155.75 22.75 206 10/25/2011 XX 183 3 100 3.3 XX GW9D1X51J 11.9 8.6 156.5 189 8.4 4/24/2012 120 XX GW901 X58I 154.5 20 2 1 7/24/2012 194 7.9 17.2 10.6 215 100 1.4 GW901X509 197 7.6 12.2 8.8 156.3 22.73 2 10/23/2012 XX 0.1 382 4 65 9.8 155.68 4/23/2013 XX GW901X5ID 178 8.4 9 42 352 80 0.4 7/30/2013 XX GW901X645 7.7 197 14.3 9.94 155,16 1.4 2 85 10/29/2013 XX GW901X66I 195 7.3 8.9 10.63 154.47 22.8 312 MW11-207R 337 35 16 7/20/2011 XX GW207X4CH 87 7.9 118 12 203.13 30 17 GW207X4GC 44.2 360 83 8 11.7 11.5 203,63 10/24/2011 XX 313 40 3 4/23/2012 XX GW207X512 103 8.1 8.1 11.7 GW207X561 85 12.7 12.1 203.03 314 40 2.5 7.7 7/23/2012 XX 139 6 25 1.7 XX GW207X5CC 88 7.7 12.2 6.57 208.56 44.2 10/22/2012 212 6 40 0.5 XX GW207X5H3 83 8 8.4 8.2 206.93 4/22/2013 45 0.2 XX GW207X638 88 7.9 12.8 444 8 11.97 203.16 7/29/2013 278 40 1.6 XX | GW207X8B1 44 11 10/28/2013 82 8.2 9.9 14.54 200.59 MW-204 1.3 1/29/2004 XX GW204X03A 66 4.2 9.45 155.3 1.6 8.92 155.83 5/4/2004 XX GW204X008 206 62 8.2

FOR: Juniper Ridge Landfill

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Field Data Part 1 of 1

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

| | | FOR: Juniper Ric | ige Landfill | | | | | Field | Data Part 1 | of 1 | | | | 4 BLA | NCHARD ROAD ERLAND CENTI | | |
|------------|---------------------------------------|------------------|-------------------------|----------------|---------------------------------------|----------------------|--------------------------|--|--------------|--|-------------------------------|-------------------|---------------------------------------|--|-----------------------------|--------------|------------------|
| (MW-204) | } | | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | |
| Date 7 | Гуре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feel | Feet | mV | mg/L | mg/L | NTŲ | cfs | | | | |
| 7/27/2004 | XX. | GW204X03G | 211 | 6.4 | 12.3 | 9.49 | 155.26 | | 280 | 1 | 140 | 1.4 | ~.•··· . =. - | I | | | |
| 10/25/2004 | | GW204X07D | 263 | 6.3 | 10.9 | 9.14 | 155.61 | 24.43 | 345 | 1 | 125 | 0.4 | | | | | |
| 5/9/2005 | | GW204X13E | 160 | 6.8 | 9.3 | 8.35 | 156.4 | | 273 | 2 | 100 | 0 | | | 1 | | |
| 8/1/2005 | | GW204X172 | 211 | 6.7 | 14.2 | 9.23 | 155.52 | | 302 | 1 | 95 | 0 | | | | | |
| 9/20/2005 | | GW204X1A0 | 325 | 6.9 | 16.4 | 9.68 | 155.07 | 24.41 | 268 | 3 | 75 | 1.5 | | | | İ | |
| 5/23/2006 | | GW204X1EF | 235 | 7 | 8 | 9.05 | 155.7 | | 334 | 1 | 135 | 0.4 | | | | | |
| 7/24/2006 | | GW204X1HC | 205 | 6.7 | 16.7 | 8.92 | 155.83 | | 245 | 1 | 120 | 0 | | | | | |
| 9/11/2006 | | GW204X205 | 199 | 5.7 | 13.5 | 9.2 | 155.55 | 24.4 | 223 | 1 | 100 | 0 | · · · · · · · · · · · · · · · · · · · | | | | |
| 5/14/2007 | | GW204X23C | 214 | 7.1 | 12.4 | 9.5 | 155.25 | | 479 | 2 | 100 | 0.4 | | | | | T |
| 7/23/2007 | | GW204X27G | 254 | 6.3 | 16 | 9.71 | 155.04 | | 390 | 2 | 85 | 6.7 | | | | | |
| 9/10/2007 | | GW204X2A5 | 301 | 64 | 14.2 | 10.65 | 154.1 | 24.45 | 300 | 1 | 125 | 0.4 | | | | | |
| 5/21/2008 | | GW204X2E0 | 340 | 6.5 | 9.2 | 9.72 | 155.03 | 1 | 309 | 1 | 120 | 0 | | | | | |
| 7/30/2008 | | GW204X2H4 | 220 | 69 | 15.2 | 9.52 | 155.23 | | 358 | 2 | 85 | 0.1 | | | | | |
| 10/28/2008 | _: | GW204X2JE | 188 | 7.4 | 12.5 | 9.12 | 155.63 | 24.45 | 437 | 1 | 100 | 4.3 | | | | | |
| 4/13/2009 | | GW204X332 | 214 | 6.3 | 8.6 | 91 | 155.65 | | 442 | 3 | 95 | 0.9 | | l. – – | | | |
| 7/6/2009 | | GW204X376 | 223 | 7.1 | 13.6 | 84 | 158.35 | | 334 | 1 | 95 | 1 | | | | | |
| 10/26/2009 | XX - | GW204X3F1 | 309 | 6.6 | 10.8 | 87 | 156.05 | 24 42 | 491 | 5 | 70 | 08 | | - | | | |
| 4/28/2010 | | GW204X400 | 216 | 6.6 | 7 | 9.22 | 155.53 | | 357 | 0.6 | 60 | 1.6 | | | | | |
| 7/19/2010 | | GW204X434 | 175 | 6.6 | 18 | 9.82 | 154.93 | - | 379 | 2 | 110 | 2 | | l | | | 1 |
| 10/19/2010 | - | GW204X468 | 200 | 7.5 | 12.1 | 9.32 | 155.43 | 24 45 | 306 | 0.6 | 70 | 1 0 | | i | 1 | | |
| 4/26/2011 | | GW204X4A9 | 193 | 7.3 | 9.4 | 8.74 | 156.01 | 27.73 | 328 | 0.8 | 50 | 0.4 | | | · · · | - | 1 |
| 7/19/2011 | / | GW204X4E7 | 176 | 69 | 15 1 | 9.43 | 155.32 | | 355 | 1 | 100 | | | ł· · | | | 1 |
| 10/26/2011 | | GW204X4I2 | 180 | 7 | 106 | 9.1 | 155.65 | 24.45 | 328 | 0.8 | 55 | 2.6 | | | | | - |
| 4/24/2012 | | GW204X52C | 192 | 65 | 9.4 | 9 | 155.75 | 24.40 | 255 | 1 | 100 | 2.7 | : | | | | |
| 7/23/2012 | | GW204X57B | 189 | 7.2 | 16 | 10.15 | 154.6 | | 258 | 06 | 80 | 1.3 | : i | <u> </u> | - | _ | |
| 10/24/2012 | | GW204X5E2 | 193 | 7 | 10.9 | 9.05 | 155.7 | 24.45 | 228 | 0.4 | 100 | 4.6 | i | | | + | |
| 4/24/2013 | | GW204X5ID | 185 | 6.7 | 7.2 | 9.22 | 155.53 | 24.40 | 339 | 1 | 60 | 5.5 | | | | + | |
| | | GW204X68A | | 6 | 10.8 | 9.95 | 154.8 | 24.43 | 210 | 0.6 | 80 | 1.7 | | | | | |
| 10/30/2013 | | GVIZDIAOOA | 185 | J | 1 10.0 | 9.55 | 134.6 | 24.43 | 1 210 | 0.0 | | 1.1 | | L | | | |
| MW-20 | 7 | | | | | | | | | | | | | | | | |
| 5/5/2004 | XX | GW207X011 | 125 | 6.8 | 16.8 | 3.69 | 214.27 | | 297 | 0.6 | 60 | 3.5 | |] | | | |
| 7/28/2004 | XX | GW207X048 | 139 | 7.2 | 11 | 7,48 | 210.48 | | 319 | 2 | 100 | 07 | | | | | |
| 10/25/2004 | XX | GW207X063 | 173 | 7.3 | 10.6 | 8 | 209.96 | 32.58 | 208 | 1 | 90 | 5.1 | | | i | | |
| 1/25/2005 | | GW207X115 | 143 | 6.3 | 4.4 | 4.92 | 213.04 | | 307 | 1 | | 9.2 | T | T | | | |
| 5/12/2005 | | GW207X124 | 149 | 7.4 | 7.7 | 3.7 | 214.26 | | 191 | 1 | 110 | 0.7 | T | T | T | | |
| 8/1/2005 | | GW207X15C | 157 | 7.5 | 15.2 | 4.6 | 213.36 | | 226 | 1 | 75 | 0 | | | 1 | 1 | |
| 9/19/2005 | | GVV207X18A | 164 | 7.9 | 18.8 | 4.35 | 213.61 | 32.83 | 269 | 5 | 120 | 0 | T | T | T | | |
| 5/22/2006 | · · · · · · · · · · · · · · · · · · · | GW207X1D5 | 141 | 7.5 | 12.8 | 3.91 | 214.05 | | 211 | 3 | 100 | 0 | T | T | | | |
| 7/25/2006 | | GW207X1G2 | 176 | 7.7 | 15.1 | 4 | 213.96 | 1 | 176 | 1 | 65 | 0.8 | | T | | | · · · · · |
| 9/11/2006 | , | GW207X1#F | 160 | 6.6 | 16 | 6.59 | 211.37 | 32.82 | 240 | 1 | 95 | 0.6 | | | | | |
| 5/14/2007 | | GW207X222 | 183 | 7.1 | 13 | 6.15 | 211.81 | | 386 | † - | 85 | 0.8 | | | | | ··· · |
| 7/25/2007 | | GW207X266 | 238 | 7.5 | 16.8 | 8.85 | 209.11 | | 237 | | 95 | 0 | 1 | | | | |
| 9/10/2007 | , | GWZ07X28G | 273 | 6.7 | 13.6 | 13.11 | 204.85 | 32.6 | 178 | 2 | 115 | 0 | <u> </u> | | | · | |
| 5/19/2008 | XX | GW207X2CA | 232 | 7.4 | 10.7 | 5.6 | 212.36 | 1 | 352 | <u> </u> | 130 | 2 | †· ··· | †· · · ·- | · † | -1 | |
| 7/29/2008 | - | GW207X2FE | 231 | 6.8 | 19.4 | 6.7 | 211.26 | 1 | -23 | 1 | 140 | 0.6 | | | 1 | | |
| 10/28/2008 | - | GW207X2H | 288 | 6.3 | 12.4 | 6.25 | 211.71 | 32.55 | 174 | 0.8 | 160 | 0.4 | : | : | | | |
| 4/13/2009 | | GW207X31C | 508 | 7 1 | 8.1 | 5.25 | 212.71 | + | 87 | 0.4 | 155 | 1 | | : | | - +/ | |
| 7/6/2009 | | GW207X35G | 601 | 67 | 18.2 | 4.82 | 213.14 | - | 72 | †· | 310 | 12 | | : | | | + |
| | | GW207X3DB | 151 | 6.3 | 9.2 | 8.27 | 209.69 | 20.1 | 304 | | 130 | 1.2 | | i | | | |
| 10/26/2009 | | GW207X3DB | · — · · · · | | · · · · · · · · · · · · · · · · · · · | | | | | | | | ···· | · -· -· ·· | · · · · · · · · | | . |
| 4/26/2010 | XX | GAASOLY 214 | 490 | 63 | 15.3 | 5.75 | 212.21 | | 172 | <u> 1</u> | 205 | 7.9 | J <u></u> - | J | | | |

FOR: Junioer Ridge Landfill

SUMMARY REPORT

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SEVEE & MAHER ENGINEERS, INC.

| | | FOR: Juniper Ri | dge Landfill | | | | | Field | Data Part 1 | of 1 | | | | | 4 BLANG | CHARD ROAD RLAND CENTE | |
|------------|--------------|-----------------|-------------------------------------|----------------------|------------------------------|------------------------------|----------------------------------|--------------------|-----------------|-----------------------------|---------------------------------------|-------------------|--|---------|--------------|---------------------------|--------------|
| (MW-20) | 7) | | Specific Conductance µmhos/cm | pH Standard Units | Temperature Degrees Celcius | Water Level Depth Feet | Water Level Elevation Feet | Well Depth Feet | Corrected Eh | Dissolved Oxygen mg/L | Alkalinity (CaCO3) (field) mg/L | Turbidity (field) | Flow Rate | | | | |
| Date | Туре | Sample ID | @25°C | | Ū | | | | | - | | | | | | | |
| 7/19/2010 | xx | GW207X41E | 522 | 6.3 | 16.8 | 14.1 | 203.86 | | -15 | 0.6 | 275 | 2.5 | [· · · · · · · · · · · · · · · · · · · | | | 1 | |
| 10/18/2010 | - | GW207X44I | 53B | 6.7 | 9.3 | 12.87 | 205.09 | 32.8 | 44 | 0.3 | 175 | 0.3 | | | | | |
| 4/25/2011 | | GW207X48J | 453 | 6.6 | 12.7 | 5.5 | 212.46 | | 223 | 0.6 | 170 | 3.6 | | <u></u> | | | <u> </u> |
| MW-20 |)6 | | _ | | -W14 | | | | | | | | | | | | |
| 5/6/2004 | | GW206X010 | 132 | 7.8 | 7.8 | 3.08 | 201.59 | T | 298 | 8 | 70 | 6.9 | l | | | | |
| 7/28/2004 | | GW206X047 | 139 | 6.7 | 10.8 | 6.48 | 198.19 | | 312 | 8 | 75 | 0.B | l · · | | | | |
| 10/26/2004 | _ | GW206X052 | 160 | 7.8 | 9.6 | 7.09 | 197.58 | 23.05 | 301 | 8. | 85 | 11.2 | | | | · · | |
| 5/11/2005 | _ | GW206X123 | 129 | 7.8 | 14.7 | 4.13 | 200.54 | | 332 | 6 | 100 | 0 | | | | T | 1 |
| 7/28/2005 | h | GW206X15B | 89 | 8.6 | 13.6 | 5.06 | 199.61 | 1 | 290 | 5 | 85 | 0.1 | | | | 1 | 1 |
| 9/19/2005 | | GW206X189 | 120 | 7.1 | 14 | 5.8 | 198.87 | 23.02 | 208 | 6 | 70 | 0 | } | | | | |
| 5/24/2006 | - · · | GW206X1D4 | 140 | 6.4 | 11.8 | 4.43 | 200.24 | 1 | 400 | 6 | 60 | 0 | | | | | |
| 7/25/2006 | | GW206X1G1 | 134 | 7.2 | 17.5 | 4.3 | 200.37 | | 329 | 6 | 100 | 0.9 | | | | | |
| 9/12/2006 | - | GW206X1IE | 146 | 7.4 | 14,9 | 6.92 | 197.75 | 23.13 | 320 | 6 | 85 | 0 | i | | | | |
| 5/14/2007 | _ | GW206X221 | 150 | 7.5 | 12.2 | 5.45 | 199.22 | | 366 | 6 | 90 | 0 | | | | | |
| 7/25/2007 | _ | GW206X265 | 156 | 8 | 14.7 | 9.77. | 194.9 | 1 | 335 | 6 | 50 | 0 | | | | | |
| 9/11/2007 | 7 XX | GW206X28F | 137 | 8.3 | 11.7 | 13.5 | 191.17 | 23.12 | 263 | 6 | 70 | 0 | | | | | |
| 5/20/2006 | + | GW206X2C9 | 134 | 8.4 | 10.7 | 5 83 | 198.84 | | 293 | 5 | 90 | 0.5 | | | | | |
| 7/29/2008 | _ | GW206X2FD | 129 | 8.3 | 15.8 | 5.84 | 198.83 | - | 212 | 5 | 85 | 0 | | | | | |
| 10/27/2008 | xx | GW206X2I3 | 129 | 8 | 11.6 | 4.8 | 199.87 | 23.08 | 262 | 5 | 85 | 0 | | | L | | |
| 4/13/2009 | XX | GW206X31B | 151 | 8.1 | 7.3 | 5.11 | 199.56 | | 371 | 6 | 70 | 0.4 | | | | | |
| 7/6/2009 | XX | GW206X35F | 158 | 8.4 | 13.4 | 5.49 | 199.18 | | 308 | 5 | 60 | 0.5 | Ī | | | | |
| 10/28/2009 | XX | GW206X3DA | 141 | 8.3 | 8.5 | 6.05 | 198.62 | 23.08 | 342 | 5 | 30 | 80 | | | | <u> </u> | |
| 4/26/2010 | XX | GW208X3I9 | 135 | 7.4 | 11.2 | 5.3 | 199.37 | | 302 | 5 | 60 | 03 | | | | 1 | <u> </u> |
| 7/19/2010 | XX | GW208X41D | 160 | 7.4 | 14 | 10.4 | 194.27 | | 227 | 4 | 70 | | | | | | -İ. |
| 10/18/2010 | XX | GW208X44H | 187 | 7.7 | 9.9 | 6.85 | 197.82 | 23.08 | 20 | 3 | 70 | 1.9 | l i | | | <u> </u> | |
| 4/25/2011 | 1 XX | GW206X48t | 179 | 7.8 | 10.7 | 4.56 | 200.11 | | 350 | 3 | 60 | 1.4 | | | | <u> </u> | |
| 7/18/2011 | i XX | GW206X4CG | 169 | 7.8 | 16.1 | 8 | 196.67 | | 105 | 2 | 125 | 2.9 | | | | <u> </u> | |
| 10/24/2011 | 1 XX | GW206X4GB | 148 | 74 | 12.7 | 4.67 | 200 | 23.1 | 208 | 4 | 105 | 2.7 | | | | | |
| 4/23/2013 | Z XX | GW206X511 | 153 | 7 | 8.6 | 4.41 | 200.26 | | -334 | 4 | 100 | 2.7 | | | | | _ |
| 7/23/2012 | 2 XX | GW206X560 | 155 | 7.9 | 15.7 | 8.35 | 196.32 | | 329 | 6 | 80 | 1.3 | | | | | |
| 10/22/2012 | 2 XX | GW206X5CB | 157 | 8.4 | 11 2 | 4.55 | 200.12 | 23.09 | 312 | 6 | 60 | 1.8 | L | | | 1 | |
| 4/22/2013 | 3 XX | GW206X5H2 | 141 | 8.1 | 8.6 | 48 | 199.87 | i | 317 | 6 | 65 | 0.9 | <u> </u> | | <u> </u> | | |
| 7/29/2013 | 3 XX | GW206X637 | 146 | 7.7 | 12.3 | 6.78 | 197 89 | | 464 | 8 | 65 | 0.9 | <u> </u> | | L | | |
| 10/28/2013 | 3 XX | GW206X660 | 135 | 7.9 | 10.3 | 8.05 | 196.62 | 23.15 | 164 | 6 | | 1.5 | | | | _L | |
| P-206A | | | | | | | | | | | | | | | | | |
| 7/31/2013 | | GW206A64I | 120 | 7.6 | 14.9 | 21.7 | 182.81 | [· | 352 | 4 | 50 | 8.1 | 1 | | | | - į ——— |
| 10/28/2013 | | GW206A67B | 126 | 7.3 | 9.4 | 22.9 | 181.61 | 93.5 | 63 | 3 | 50 | 9.3 | | | - | | ┥┄─┈ |
| | | | 1120 | 7.5 | | | 101.01 | | J ⁴² | .1 | | | 1 | | .! | _ | |
| MW-21 | | | γ | | | ··· | | | | | | | 1 | | т | : | ¬ · |
| 5/5/2004 | | GW212X00B | 46 | 6.6 | ļ 1 <u>1</u> | 17.01 | 203.07 | <u> </u> | 373 | 8 | 25 | 3.7 | | | | + | - |
| 7/27/2004 | 4 XX | GW212X03J | l D | <u> </u> | <u>.l. •</u> | D | | - | <u> </u> | ! D | D - | . D | | | | | |
| 10/27/2004 | 4 XX | GW212X07F | D | D | <u> </u> | 0 | | 20 06 | D | <u>D</u> | D | ļ <u>2</u> | | | | + · | + |
| | | GW212X13G | 81 | 7,4 | 6.4 | 12.17 | 207 31 | | 428 | 5 | 65 | 2.7 | + 1 | | | + | + |
| | | GW212X174 | 81 | 6.4 | 14.2 | 18.25 | 201 83 | <u></u> | 253 | 6 | 20 | 0 | + | | | + | + |
| | | GW212X1A2 | | | 1 1 | 19.78 | 200.3 | 20.1 | 1 | | 1 | 1 25 | 1 | | _ | | 1 |
| | | GW212X1EH | 48 | 6.5 | 8.9 | 16.4 | 203.68 | . | 241 | 6 | 25 | 2.5 | | | | -+ | |
| | | GW212X1HE | 41 | 7.7 | 15.9 | 17 21 | 202.87 | . | 309 | 6 | 30 | 2.6 | · · · · · · · · · · · · · · · · · · · · | — | | _Ļ · · | |
| 9/11/200 | 5 XX | GW212X207 | <u> </u> | | | ļ | 1 | 20 1 | 407 | I | | | + | · · | | | + |
| 5/14/200 | 7 XX | GW212X23E | 61 | 7.4 | 1D.3 | 17.2 | 202.88 | .1 | 467 | 6 | 25 | 1.5 | .1 | | · | <u> </u> | J |

Page 24 of 37 REPORT PREPARED: 2/11/2014 11:49 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Field Data Part 1 of 1 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** Turbidity (field) Flow Rate Specific ρH Тетрегатите Water Level Water Level Well Depth Corrected Eh Dissolved Alkalinity (MW-212) (CaCO3) (field) Conductance Depth Elevation Oxygen umhos/cm Standard Units Degrees Celeius Feet Feet Feet mΨ mg/Lmg/L NTU cfs Type Sample ID @25°C Date D D D GW212X27I D Đ D D D 7/24/2007 XX D D D D 20.1 D 9/10/2007 XX GW212X2A8 D D GW212X2E2 7.4 17.2 202.88 334 5 40 1.6 XX 84 11.2 5/19/2008 GW212X2H8 D D D D 7/29/2008 XX D Ð Ð D D D D GW212X2JG D D D D D 10/28/2008 XX 205 5.9 6.7 15.5 204.58 560 4 40 0.7 GW212X334 4/13/2009 XX 50 7.1 XX GW212X378 196 6,3 14.2 16.3 203.78 112 5 7/6/2009 D D D GW212X3F3 D D D Ð XX D 10/26/2009 347 25 1.9 XX GW212X402 289 6.3 10.2 17.8 202.28 4 4/26/2010 XX GW212X436 D D D D D D Đ 7/19/2010 D D Ď GW212X48A D 10/18/2010 XX D D D D GW212X4AB 10.2 15.2 204.88 308 50 264 7.3 4/25/2011 XX GW212X4E9 D D D D D D D D 7/18/2011 XX 10/24/2011 XX GW212X4M Ð D D n Đ D D D D D D Ó D D D D GW212X52E 4/23/2012 XX D D D 7/23/2012 XX GW212X57D D ø Ð D D XX GW212X5E4 Þ D D D Ð D 20.07 D D 10/22/2012 D XX GW212X5IF D D D 4/22/2013 D D D D MW-216B 5/6/2004 XX GW2168013 6.2 7.2 5.7 154.61 352 0.4 101 55 346 0.1 7/26/2004 XX GW2168049 90 5.B 11.6 6.37 153.94 3 5.7 21 95 273 50 0 10/26/2004 XX GW2188084 91 9.3 5.9 154.41 5.8 285 2 40 0.4 GW218B125 13.7 5.38 154.93 5/10/2005 XX 55 277 75 7/27/2005 XX GW216B15D 128 5.8 15.1 6.96 153.35 Q 285 70 ō 9/22/2005 XX GW216B18B 85 5.3 13.5 6.93 153,38 21.9 0.8 247 205 n 5/23/2006 XX GW216B1D6 265 5.8 10.9 5.68 154.63 1 187 140 0.2 7/25/2006 XX GW216B1G3 158 5.5 15.7 5.6 154.71 174 55 ດ 9/12/2006 XX GWZ18B1IG 132 4.7 15.5 6.2 154.11 22.1 5.5 5.38 154.93 299 2 45 0.3 GW216B223 147 7.8 5/15/2007 XX GW216B267 143 5.8 13.9 6 154.31 363 3 35 7/24/2007 ХX 50 GW216B28H 6.1 11,1 7 15 153.16 21.95 203 0.3 0.4 9/10/2007 XX 131 155.31 264 60 2 5/20/2008 XX GW216B2CB 190 6 10.9 5 XX GW216B2FF 6 14.4 5.04 155,27 207 0.4 90 6 7/28/2009 378 197 0.6 65 0.6 GW216B2I5 155.11 22 10/28/2008 XX 166 5.4 11.2 5.2 387 40 1.8 4/14/2009 XX GW216B31D 146 5.4 8.2 5.2 155.11 7/7/2009 XX GW216B35H DÉ DE DE DE DE DE DE ΟE MW-216BR 12/8/2009 XX GW216B3GG 342 8 5.2 154.4 22.5 206 0.6 90 0 70 0 254 0.4 XX GW216B3IB 288 6.6 10.3 5.22 154 18 4/27/2010 290 0.4 110 0.2 7/20/2010 XX GW216841F 281 65 17.1 6.47 152.93 GW216B44J 6.9 11.5 5.51 153,89 22.46 178 0.4 70 0 XX 278 10/19/2010 237 0.4 115 0.9 4/26/2011 XX GW2168490 365 6.4 11.1 5.13 154.27 7/19/2011 XX GW21684CI 370 6.3 21 6.15 153,25 195 0.3 135 0.1 1.2 GW216B4GD 22.48 267 0.4 135 10/25/2011 XX 400 6.5 12.3 5 48 153,92 200 2.6 25 0.4 4/24/2012 XX GW216B513 391 6.2 12 5.22 154.18 7/24/2012 XX GW216B562 5.9 18.8 153,19 -126 0.6 160 415 6.21 249 0.4 120 GW216B5CD 0.7 10/23/2012 XX 334 6.3 10.9 5.2 154.2 22.45 4/23/2013 XX GW216B5H4 312 6.3 10.6 5.5 153.9 287 0.4 135 0.3

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Field Data Part 1 of 1

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| | | rok. Juniper to | oge Lanoini | _ | | | Field Data Part 1 of 1 | | | | | | | | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 0402 | | | |
|------------|-------------|-----------------|-------------------------|----------------|-----------------|----------------------|--------------------------|--|--------------|--|-------------------------------|-----|-----------|--|--|----------------|-------------|--|
| (MW-216 | - BR) | | Specific Conductance | рH | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | | Flow Rate | | | | | |
| Date | Type | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Fect | Feet | mV | mg/L | mg/L | NTU | cfs | | | | | |
| 7/30/2013 | xx | GW216B639 | 329 | 6.2 | 19.7 | 5.79 | 153.61 | | 273 | 0.6 | 145 | 0.1 | | | Ţ | <u> </u> | | |
| MW-22 | | | • | • | | | | | | | | | | | | | | |
| | | GW223A014 | 151 | 7.2 | 9.6 | 0.98 | 175.56 | 1 | 318 | 3 | 95 | 1.4 | | T | | | 1 | |
| 7/28/2004 | | GW223A04A | 187 | 7.8 | 10.7 | 1.95 | 174.59 | 1 | 330 | 4 | 110 | 0 | | | + | + | | |
| 10/25/2004 | | GW223A065 | 175 | 7.8 | 9.6 | 1.44 | 175.1 | 35.46 | 263 | 3 | 95 | 0 | | | † | + ··· | | |
| 5/10/2005 | | GW223A128 | 132 | 7.7 | 13.8 | 0.6 | 175.94 | | 254 | 3 | 90 | 0 | | | 1 | <u>+</u> | | |
| 7/26/2005 | 1 | GW223A15E | 167 | 7.7 | 11.9 | 2.04 | 174.5 | | 258 | 4 | 65 | 0 | | | | i | | |
| 9/21/2005 | | GW223A18C | 79 | 7.5 | 13.2 | 1.59 | 174.95 | 35.55 | 405 | 2 | 75 | 0 | | | T | T | | |
| 5/24/2006 | | GW223A1D7 | 200 | 7.4 | 9.5 | 1.1 | 175.44 | | 300 | 3 | 180 | O | | | | | | |
| 7/26/2006 | | GW223A1G4 | 174 | 7.7 | 13.7 | 1.25 | 175.29 | | 367 | 3 | 150 | 0 | | | | <u>1</u> | | |
| 9/13/2006 | | GW223A1IH | 191 | 6.9 | 12 | 1.6 | 174.94 | 35.65 | 356 | 3 | 85 | D | | | | | | |
| 5/15/2007 | _ | GW223A224 | 208 | 7.6 | 6.9 | 1.57 | 174,97 | 1 | 369 | 2 | 80 | 0 | | | | | | |
| 7/24/2007 | _ | GW223A268 | 197 | 7.1 | 16.2 | 2.05 | 174,49 | .] | 445 | 3 | 75 | : 0 | | | | <u> </u> | | |
| 9/11/2007 | | GW223A28I | 190 | 7.8 | 10.6 | 3.5 | 173.04 | 35,45 | 286 | 2 | 80 | 1 0 | | | <u> </u> | | | |
| 5/20/2000 | XX | GW223A2CC | 193 | 7.7 | 8.5 | 1.85 | 174.69 | | 121 | 2 | 100 | 0.1 | | | | | | |
| 7/30/2008 | XX | GW223A2FG | 198 | 7.3 | 14.9 | 1.87 | 174.67 | | 388 | 3 | 110 | D | | <u> </u> | <u> </u> | | | |
| 10/28/2008 | | GW223A216 | 189 | 7.5 | 13.7 | 1.35 | 175.19 | 35.57 | 165 | 2 | 85 | 0 | | | <u> </u> | | | |
| 4/14/2009 | XX | GW223A31E | 355 | 7 | 5.6 | 0.9 | 175.64 | | 298 | 1 | 130 | 0.5 | | | <u> </u> | | | |
| 7/7/2009 | XX | GW223A35I | 260 | 6.7 | 12 | 0.71 | 175.83 | <u> </u> | 319 | 1 | 85 | 0.1 | | | | | | |
| 10/27/2009 | XX | GW223A3DD | 271 | 7.3 | 8.6 | 1.35 | 175 19 | 35.44 | 360 | 1 | 85 | 0 | | <u> </u> | | | | |
| 4/27/2010 | XX | GW223A3IC | 297 | 7.4 | 7 | 1.35 | 175.19 | | 332 | 1 | 70 | 0.9 | | | | | | |
| 7/20/2010 | XX | GW223A41G | 309 | 7.1 | 14.8 | 3.9 | 172.64 | | 350 | 1 | 125 | 0.2 | | | ↓ | | | |
| 10/19/2010 | XX | GW223A450 | 324 | 7.5 | 9 | 2.2 | 174.34 | 35.42 | 253 | 2 | 100 | 0 | | ļ | | ∔ | - | |
| 4/26/2011 | XX | GW223A491 | 361 | 7.4 | B.8 | 0.75 | 175.79 | | 309 | 2 | 115 | 0.4 | | | | - | | |
| 7/19/201 | | GW223A4CJ | 375 | 7.5 | 14.2 | 2 25 | 174.29 | | 422 | | 110 | 0.2 | | | | + | + | |
| 10/25/2011 | | GW223A4GE | 367 | 7.5 | 10.8 | 0.7 | 175.84 | 35.56 | 271 | <u> </u> | 95 | 1.7 | | | | | - | |
| 4/24/2012 | - | GW223A514 | 378 | 78 | . 8 | 0.4 | 176.14 | | -345 | <u> </u> | 200 | 2.2 | | | | + | + | |
| 7/24/2012 | | GW223A563 | 400 | 7 3 | 13.4 | 2.1 | 174.44 | | 323 | <u>: 1</u> | 160 | 0.6 | | . · · · · | | + | + | |
| 10/23/2012 | | GW223A5CE | 390 | 7.5 | 8.5 | 0.5 | 176.04 | 35.48 | 207 | 1 | 125 180 | 0.8 | | | + | | - | |
| 4/23/2013 | | GW223A5H5 | 439 | 7.6 | 4.8 | 0.31 | 176 23 | | j 255 322 | 1 | 180 | 0.3 | | | | | | |
| 7/30/201 | · I · | GW223A63A | 454 | 7.6 | 13.4 | 1.09 | 175 45 | 05.50 | _4 | 0.8 | 180 | 0.1 | | | | + | | |
| 10/29/2013 | | GW223A663 | 420 | 7.6 | 9.3 | 1.95 | 174.59 | 35 56 | 237 | JU.8 | 180 | i | | | ا | | | |
| MW-22 | 23B | | | | | | | | | | | | | | | | | |
| 5/5/200 | 4 XX | GW223800A | 170 | 6.8 | 6.6 | 1.98 | 173.95 | | 352 | 1 | 95 | 1.1 | | | | <u> </u> | | |
| 7/27/200 | | GW223B034 | 211 | 7.1 | 10.7 | 3.26 | 172.67 | | 312 | 2 | 125 | 0.9 | | <u> </u> | <u> </u> | <u> </u> | | |
| 10/25/200 | | GW223B07E | 191 | 7.6 | 10.6 | 2.71 | 173.22 | 19.95 | 260 | 2 | 105 | 0.6 | | | | | | |
| 5/10/200 | 5 XX | GW223B13F | 158 | 7.6 | 13.3 | 2 | 173.93 | | 280 | 2 | 130 | 0.8 | | <u> </u> | ļ | | | |
| 7/26/200 | | GW223B173 | 186 | 7.7 | 15.4 | 4.03 | 171.9 | l | 265 | 2 | 60 | 0.6 | ļ | | | | | |
| 9/21/200 | | GW223B1A1 | 187 | 7.4 | 13 7 | 2.85 | 173.08 | 20.1 | 388 | 2 | 105 | 0 | <u> </u> | <u> </u> | | | | |
| 5/24/200 | | GW223B1EG | 196 | 7.4 | 9.2 | 2.41 | 173.52 | | 378 | 2 | 120 | 0.2 | ļ | | <u> </u> | | | |
| 7/26/200 | | GW223B1HD | 189 | 7.8 | 17.7 | 2.52 | 173.41 | ļ | 372 | 2 | 140 | , 0 | <u> </u> | | | | | |
| 9/13/200 | | GW223B206 | 196 | 73 | 17.5 | 2.92 | 173.01 | 20.1 | 373 | 2 | 60 | 0 | <u> </u> | | | + | | |
| 5/15/200 | | GW223B23D | 240 | 7.4 | 6.8 | 2.8 | 173.13 | | 391 | <u> </u> | 70 | 0.4 | | 1 | 1 | | | |
| 7/24/200 | _ | GW223B27H | 224 | 7.3 | 14 | 3.28 | 172.65 | | 435 | <u> </u> | 60 | 0 | <u></u> | 1 | + | | | |
| 9/11/200 | 10. | GW223B2A7 | 217 | 7.3 | 11.8 | 4.46 | 171.47 | 19 93 | 273 | | 100 | 0.4 | | 1 | | <u></u> | | |
| 5/20/200 | | GW22382E1 | 245 | 7.4 | 7.9 | 3.2 | 172.73 | 1 | . 247 | . 1 | 115 | 0 | | | | _ | | |
| 7/30/200 | | GW223B2H5 | 251 | 7.2 | 15.3 | 3,17 | 172.76 | ļ <u></u> | 381 | 0.8 | 125 | 1 | ļ · | .+ | + | - | | |
| 10/28/200 | e xx | GW223B2JF | 242 | 7 2 | 13.8 | 2.6 | 173.33 | 20.1 | 235 | | 115 | 0.6 | L | · | _1 | l | | |

Page 26 of 37 SUMMARY REPORT REPORT PREPARED: 2/11/2014 11:49 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Field Data Part 1 of 1 CUMBERLAND CENTER, ME 04021 Turbidity (field) Water Level Well Depth Corrected Eh Dissolved Alkalinity Flow Rate Specific pΗ Temperature Water Level (MW-223B) (CaCO3) (field) Depth Elevation Oxygen Conductance Feet Feet Feet mVmg/L NŢŲ cfs umhos/cm Standard Units Degrees Celcius @25°C Date Type Sample ID 2.5 173.43 271 90 0.4 4/14/2009 XX GW223B333 234 7 353 1 105 GW223B377 281 6.8 10.8 2 173.93 7/7/2009 XX 387 90 0 7.5 9.7 2.65 173.28 19.95 10/27/2009 XX GW223B3F2 331 80 1.8 7.1 6.8 2.67 173.26 393 1 4/27/2010 XX GW2238401 306 120 0.8 XX GW223B435 -113 7 13 1 4.92 171.01 343 7/20/2010 108 0.8 70 0 7.4 3.45 172.48 10/19/2010 XX GW223B469 316 10 70 XX GW2Z3B4AA 2.2 173,73 328 0.2 7.2 8.5 320 4/26/2011 8.0 75 0.6 357 13.7 3.7 172.23 7/19/2011 XX GW223B4E8 336 7.4 0.4 80 2.5 XX GW223B4l3 2.2 173.73 19.93 144 327 7.5 11.3 10/25/2011 6.7 1.95 173.98 -402 0.8 160 3.6 4/24/2012 XX GW223B52D 316 7.1 140 1.2 7/24/2012 XX GW223B67C 338 6.9 12.9 3.8 172.13 173 238 90 0.9 10.3 2.1 173.83 20.05 GW22385E3 333 7.5 10/23/2012 XX 244 1 95 0.2 173.75 4/23/2013 XX GW223B5IE 344 7.3 5.5 2.18 0.4 7.8 13.8 2.77 173.16 318 2 125 363 7/30/2013 XX GW223B64J 172.63 267 0.8 140 0.1 10/29/2013 XX GW223B67C 20.07 336 7.5 10.8 3,3 MW-227 349 95 2.8 7.7 3.96 160.27 1 5/5/2004 XX GW227X015 6.4 2 120 0.9 7/26/2004 XX GW227X048 339 149 8.2 11.4 5.73 158.5 9.7 4.4 159.83 22.21 266 105 O 10/26/2004 XX GW227X066 201 6.2 263 100 0 GW227X127 8.2 6.9 3.9 160.33 5/9/2005 XX 122 298 95 0.3 157.09 GW227X15F 7.B 15.4 7.14 7/27/2005! XX 162 75 1.9 8.7 12.3 4.34 159.89 22.34 239 9/21/2005 XX GW227X18D 160 150 0 354 08 GW227X1D8 163 8.3 9.4 4.25 159.98 5/24/2006 XX 125 0.3 GW227X1G5 8.1 16.8 4.33 159.9 347 7/26/2006 XX 161 7.7 13.9 4.9 159.33 22 35 341 75 0 GW227X1II 9/13/2006 XX 185 60 0.2 7.4 4.21 334 GW227X225 200 6.4 160.02 5/15/2007 XX 60 0 7.7 12.6 4.6 159.63 366 0.8 7/24/2007 XX GW227X269 182 70 0.2 8.4 6.04 158.19 22.33 262 8.0 GW227X28J 11.6 9/11/2007 XX 181 175 2 90 0.3 7.4 4.38 159.85 5/20/2008 XX GW227X2CD 179 8.3 75 310 Ō GW227X2FH 8.2 15.9 4.36 159.87 7/30/2008 XX 187 2 100 Ô 7.5 11.8 4 160.23 22.33 205 10/27/2008 ХΧ GW227X217 174 2 60 0.6 GW227X31F 186 7.9 6.2 4.12 160.11 252 4/14/2009 XX 329 70 0.2 GW227X35J 8.3 3.85 160.38 XX 185 11,1 7/7/2009 55 2.3 411 2 GW227X3DE 182 **B**. 1 9.7 4.1 160.13 22.2 10/27/2009 XX 364 50 3.5 GW227X3ID 7.8 6.3 4.23 160 4/27/2010 XX 163 6.65 157.58 180 0.6 70 2.6 7.7 7/20/2010 XX GW227X41H 165 13.8 50 0.7 10.4 4.42 159.81 22.3 191 0.8 XX GW227X451 7.9 10/19/2010 189 339 2 70 1.6 GW227X492 9.8 4.1 160.13 4/26/2011 ХX 194 8.1 356 60 0.2 7/19/2011 XX GW227X4D0 199 85 15.6 5.75 158.48 65 3.3 11.3 4.05 160.18 22.28 346 0.6 GW227X4GF 10/25/2011 ХX 188 83 455 2 120 3 4/24/2012 XX GW227X515 186 8.5 6.8 3.64 160.59 80 6.45 157.78 43 1.3 XX GW227X584 191 7.8 13.9 7/24/2012 0.3 100 1.3 4.23 160 223 213 GW227X5CF 7.B 11 10/23/2012 XX 201 0.2 281 85 4/23/2013 XX GW227X5H8 189 8.5 5.8 4.33 159.9 7/30/2013 XX GW227X63B 227 0.8 85 0.3 15 4.39 159.84 8.9 192 0.7 80 4.65 159.58 22.28 305 10/29/2013 XX GW227X664 177 10.5 MW-301

5/5/2004 XX GW301X016

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GW302X1HB

GW302X204

GW302X23B

GW302X27F

GW302X2A5

GW302X2DJ

GW302X2H3

GW302X2JD

GW302X331

GW302X375

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1.9

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Field Data Part 1 of 1

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

| | FOR: Juniper Ri | dge Landfili | | | | | Field | Data Part 1 | of 1 | | | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | |
|---------------|-----------------|-------------------------------------|----------------------|------------------------------|------------------------------|----------------------------------|--|--------------|-----------------------------|---------------------------------------|-------------------|---|----------|
| (MW-302R) | | Specific Conductance µmhos/cm | pH Standard Units | Temperature Degrees Coloius | Water Level Depth Feet | Water Lovel Elevation Feet | Well Depth | Corrected Eh | Dissolved Oxygen mg/L | Alkalinity (CaCO3) (field) mg/L | Turbidity (field) | Flow Rate | |
| Date Ty | pe Sample ID | @25°C | Similar Cities | Digital Call | | | | | | | | | |
| 10/27/2009 XX | < GW302X3F0 | 470 | 6.1 | 9.8 | 8.46 | 198.4 | 32.25 | 360 | 1 | 115 | 0 | | |
| 4/26/2010 X | | 167 | 6.4 | 8.8 | 7.53 | 199.33 | | 349 | 4 | 135 | 1.2 | | |
| 7/19/2010 X | (GW302X433 | 475 | 6 | 13.6 | 15.91 | 190.95 | | 291 | 2 | 165 | 0.4 | <u> </u> | |
| 10/18/2010 X | GVV302X487 | 502 | 6.5 | 11,1 | 8.05 | 198.81 | 32.22 | 347 | 1 | 130 | 0 | <u>i</u> | |
| 4/25/2011 X | C GW302X4AB | 301 | 6.4 | 7.8 | 5.3 | 201.56 | | 291 | 1 | 130 | 0 | | |
| 7/18/2011 X | (GW302X4E8 | 382 | 6.7 | 13,3 | 11.2 | 195 66 | | 304 | 2 | 345 | 0.2 | | |
| 10/24/2011 X | GW302X4 1 | 400 | 6.9 | 11.4 | 6.6 | 200.26 | 32.2 | 362 | 2 | 270 | 1.5 | | |
| 4/23/2012 X | GW302X52B | 249 | 6.7 | 7.2 | 9.02 | 197.84 | | 315 | 3 | 220 | 1.9 | | |
| 7/23/2012 X | GW302X57A | 355 | 6.6 | 12.2 | 11.25 | 195.61 | | 241 | 3 | 60 | 1.7 | | |
| 10/22/2012 X | GW302X5E1 | 463 | 6.8 | 12.3 | 4.12 | 202.74 | 32.2 | 319 | 3 | 70 | 1.9 | | |
| 4/22/2013 X | GW302X5IC | 205 | 67 | 7.7 | 7.15 | 199.71 | j | 299 | 4 | 180 | 25 | <u> </u> | |
| 7/29/2013 X | GW302XB4H | 350 | 6.5 | 11.8 | 8.39 | 198,47 | | 546 | 5 | 80 | 0.4 | <u> </u> | |
| 10/28/2013 X | GW302XB7A | 341 | 6.5 | 10.9 | 14.15 | 192.71 | 32.22 | 374 | 2 | 180 | 1.3 | | |
| MW-303 | | | | | | | | | | | | | |
| 5/6/2004 X | < GW303X00C | 62 | 6.4 | 7.5 | 23.31 | 184.56 | | 296 | 8 | 25 | 0.3 | | |
| 7/28/2004 X | | 60 | 6.3 | 8.7 | 25.3 | 182.57 | | 239 | 6 | 30 | 0.4 | | |
| 10/26/2004 X | | 63 | 7.2 | 8.3 | 27.93 | 179.94 | 46.83 | 309 | 6 | 30 | 0 | | |
| 5/11/2005 X | | 38 | 7.2 | 13 | 19.75 | 188.12 | | 290 | 4 | 25 | 0 | | |
| 8/1/2005 X | | 33 | 7.1 | 17.5 | 23.2 | 184.67 | | 287 | 5 | 25 | 0 | | |
| 9/19/2005 X | | 56 | 7.2 | 15.2 | 25.3 | 182.57 | 46.93 | 280 | 6 | 35 | 0 | 1 | |
| 5/23/2006 X | | 48 | 7 | 9,4 | 22.5 | 185.37 | | 426 | 5 | 45 | 0 | | |
| 7/24/2006 X | | 53 | 6.6 | 12.2 | 22.45 | 185.42 | ļ | 239 | 4 | 40 | 0 | | |
| 9/12/2006 X | X G₩303X208 | 60 | 7 | 16.4 | 23.36 | 184.51 | 46.9 | 302 | j 6 | 30 | 0 | | |
| 5/14/2007 X | € GW303X23F | 59 | 7 1 | 11.3 | 21.48 | 186.39 | | 300 | 5 | 40 | 0 | | |
| 7/25/2007 X | | 67 | 7 | 16.6 | 25.9 | 181.97 | | 497 | 5 | 25 | 0 | | |
| 9/11/2007 X | | 63 | 69 | 10.5 | 28.7 | 179.17 | 46.85 | 452 | 5 | 20 | 0 | | |
| 5/19/2008 X | X GW303X2E3 | 91 | 67 | 9 | 21.18 | 186.69 | | 381 | 4 | 40 | 0 | 1 | |
| 7/29/2008 X | X GVV303X2H7 | 97 | 6.4 | 13.9 | 24.82 | 183 05 | T | 329 | 4 | 70 | 0.2 | | |
| 10/27/2008 X | | 104 | 6.6 | 10.5 | 26.2 | 181.67 | 46.9 | 303 | 2 | 45 | 0.3 | T | |
| 4/13/2009 X | | 158 | 6.3 | 7.5 | 21 | 186.87 | | 330 | 3 | 60 | 0.2 | | |
| 7/6/2009 X | _ | 163 | 6.1 | 12 | 21.6 | 186.27 | | 305 | 1 1 | 65 | 0.3 | | |
| 10/28/2009 X | | 161 | 6.6 | 7.8 | 26.45 | 181.42 | 46.8 | 314 | 2 | 40 | · 0 | | |
| 4/26/2010 X | X GW303X403 | 196 | 6.3 | 13.3 | 216 | 186.27 | i | 340 | 2 | 55 | 0.8 | | |
| | X GW303X437 | 201 | 5.8 | 14.8 | 26.8 | 181.07 | | 245 | 0.8 | 75 | 0.5 | | |
| 10/18/2010; X | | 175 | 6.7 | 10.7 | 30.9 | 176.97 | 46.76 | 334 | 2 | 50 | 1.5 | | |
| 4/25/2011 X | | 223 | 6 | 10.9 | 21.1 | 186.77 | T | 218 | 1 | 70 | 1 | | |
| 7/18/2011 X | | 223 | 6.2 | 13.3 | 24.35 | 183.52 | 1 | 133 | 0.4 | 200 | 1 | | |
| 10/24/2011 X | | 222 | 6.6 | 10.9 | 26.4 | 181.47 | 46.82 | 1 | 0.6 | 190 | 3.4 | | |
| 4/23/2012 X | <u>^</u> | 243 | 6.1 | 7.1 | 24.95 | 182.92 | | 294 | 0.8 | 180 | 5.6 | | |
| 7/24/2012 X | | ! | ··· ! | · · · · · | ! | | | | 1 | | 1 | | |
| MW12-30 | 3R | | | | | | | | | | | | <u> </u> |
| 10/23/2012 X | X GW303X5EG | 189 | 7 | 10.6 | 27.47 | Τ | 43.32 | 236 | 2 | 80 | 9.3 | | |
| 4/22/2013 X | | 254 | 67 | 9.4 | 25.63 | 183.37 | T | 311 | 2 | 110 | 2 | | |
| 7/29/2013 X | | 253 | 66 | 12.4 | 25.98 | 1 | | 418 | 1 | 105 | 0.9 | | |
| 10/28/2013 X | | 223 | 6.5 | 10.2 | 27 43 | | 43 38 | 353 | 1 | 140 | 24 | | |
| MW-304/ | | | | • | • | | | | | | | | |
| 7/29/2004 X | X GW304AHD0 | 207 | 7.5 | 8.5 | 28.55 | 188 77 | T | 131 | 2 | 95 | 5.5 | 7 7 | |
| 10/27/2004 X | . | 195 | 7.5 | 7,9 | 30.2 | 187 12 | 42.28 | 332 | 7 2 | 100 | 0.5 | | |
| | <u> </u> | <u> </u> | _1 | | 1 <u></u> | | 1 | 1 | 1 | | 1 | | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

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SEVEE 8 MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021

| | | FOR: Juniper Ri | dge Landfill | | | | | Field | Data Part 1 | of 1 | | | | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | | | |
|------------------------|-------------|------------------------|-------------------------|----------------|-----------------|----------------------|--------------------------|--|--------------|---------------------|-------------------------------|-------------------|--------------|--|--------------|------------------------------|--------------|--|
| (MW-304 | 4A) | ··· | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | | |
| Date | Туре | Sample ID | µmhos/em @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NIO | CIS | | | | | |
| 5/11/2005 | xx i | GW304A13C | 58 | 7.3 | 14.2 | 23 | 194.32 | | 297 | 4 | 70 | 0 | | Ĭ. | | | | |
| 7/28/2005 | xx s | GW304A170 | 76 | 7 2 | 13.8 | 26.95 | 190.37 | T | 193 | 4 | 40 | 0 | | | | | | |
| 9/19/2005 | xx i | GW304A19I | 80 | 7 | 8.7 | 26.45 | 190.67 | 42.45 | 403 | 4 | 45 | Ó | | | <u> </u> | | | |
| 5/24/2006 | xx | GW304A1ED | 100 | 7.8 | 8.2 | 27.1 | 190.21 | | 427 | 4 | 80 | 0 | | <u> </u> | <u> </u> | | | |
| 7/25/2006 | xx | GW304A1HA | 104 | 6.8 | 11 | 26.95 | 190.36 | | 311 | 5 | 70 | 2 | | | | | | |
| 9/12/2006 | XX | GW304A203 | 111 | 6.9 | 11.9 | 27.7 | 189.61 | 42.4 | 370 | 5 | 60 | 0 | | | | | | |
| 5/15/2007 | 7 XX | GW304A23A | 110 | 7.1 | 7.9 | 25.8 | 191.51 | | 324 | . 5 | 20 | 1.3 | <u> </u> | | | | | |
| 7/24/2007 | 7 XX | GW304A27E | 129 | 6.8 | 14.9 | 29.25 | 188.06 | | 512 | 5 | 45 | 0.6 | <u> </u> | <u> </u> | | | | |
| 9/11/2007 | 7 XX | GW304A2A4 | 118 | 7 | 8.5 | 30.74 | 186 57 | 42.4 | 468 | 4 | 55 | 8.0 | ļ | | | <u> </u> | | |
| 5/20/2008 | XX. | GW304A2DI | 90 | 6.9 | 8 | 25.3 | 192 01 | <u>.</u> | 286 | 5 | 70 | 0.5 | | | -l | | | |
| 7/29/2008 | XX E | GW304A2H2 | 116 | 6.5 | 10.6 | 28.76 | 188.55 | | 259 | 4 | 45 | 0.6 | <u> </u> | | | | | |
| 10/27/2006 | XX | GW304A2JC | 131 | 6.9 | 9.2 | 29.2 | 188.11 | 42.26 | 314 | 4 | 40 | 0.4 | <u> </u> | | | | | |
| 4/13/2009 | XX | GW304A330 | 122 | 6.9 | 8.3 | 25.62 | 191.69 | | 359 | 4 | 50 | 0.7 | <u> </u> | | | | | |
| 7/6/2009 | XX | GW304A374 | 107 | 6.3 | 9.9 | 26.42 | 190.89 | | 301 | 5 | 40 | 1 | | | | | | |
| 10/27/2009 | e xx | GW304A3EJ | 122 | 7.7 | 8.9 | 30.08 | 187.23 | 42.25 | 331 | 3 | 30 | 0 | | | | | | |
| 4/26/2 010 | XX | GW304A3JI | 97 | 6.5 | 9.9 | 26.1 | 191.21 | | 324 | 4 | 40 | 0.4 | | | | | | |
| 7/19/2010 | XX | GW304A432 | 122 | 6.4 | 11.6 | 29.9 | 187.41 | | 190 | 4 | 50 | 0.4 | | | | | | |
| 10/18/2010 | XX | GW304A466 | 116 | 7.4 | 9 | 32.81 | 184.5 | 42.23 | 250 | 5 | 50 | 9.2 | | | | | | |
| 4/25/2011 | | GW304A4A7 | . 100 | 7 | 9 | 24.65 | 192.66 | | 326 | 4 | 45 | 0.5 | | | | | | |
| 7/18/2011 | | GW304A4E5 | 106 | 7.1 | 11.1 | 28 | 189.31 | | 329 | 6 | 75 | 0.4 | | ļ— | | <u> </u> | | |
| 10/24/2011 | - : | GW304A410 | 125 | 7.4 | 9.4 | 29.65 | 187.66 | 42.28 | 365 | 4 | 75 | 1.3 | | . | | | | |
| 4/23/2013 | | GW304A52A | 122 | 7 | 7.8 | 29.3 | 188.01 | | 200 | 4 | 60 | 1.6 | <u> </u> | | | . — | | |
| 7/23/2012 | _ | GW304A579 | 141 | 7 | 11.6 | 28.85 | 188.46 | - i | 331 | 4 | 60 | 1 | <u> </u> | | | | | |
| 10/22/2012 | | GW304A5E0 | 114 | 7.3 | 9.2 | 29.75 | 187.56 | 42 28 | 260 | 5 | 45 | 12 | + | | <u> </u> | _ | | |
| 4/22/2013 | | GW304A5IB | 131 | 7 | B.1 | 29.65 | 187.66 | | 307 | 4 | 50 | 02 | <u> </u> | - | <u> </u> | _ | | |
| 7/29/2013 | | GW304A64G | 138 | 6.9 | 10.7 | 29.46 | 167.85 | | 505 | 5 | 55 | 0.3 | ļ <u>—</u> | | | | | |
| | | GW304A679 | 123 | 7 | 8.4 | 30.15 | 187.16 | 42.45 | 357 | 4 | 50 | 1.9 | J | | ـــــ | | - | |
| MW-40 | | | | | | | | · T | | | | | | 7 | | | | |
| | | GW401A059 | 116 | 7.9 | 9.4 | 5.95 | 150.88 | | 287 | - 6 | 75 | 1.1 | | ļ | | . + | | |
| 10/27/2004 | | GW401A071 | 132 | 8.2 | 9.5 | 5.28 | 151.55 | 111.98 | 258 | 6 | 80 | 0 | _ | <u></u> | | —⊦ —— | | |
| 5/10/2009 | _ | GW401A132 | 98 | 8.3 | 13.3 | 0.87 | 155.96 | | 305 | 5 | 75 | 0 | | <u> </u> | | | | |
| 7/28/200 | _ | GW401A16A | 108 | 8.4 | 11.6 | 5.85 | 150.98 | ļ | 375 | 4 | 55 | 0 | | | | | | |
| 9/21/2008 | | | 93 | 8.5 | 10.3 | 5,84 | 150.99 | 111.92 | 256 | 6- | 85 | 0 . | | | | | | |
| 5/23/2006 | _ | GW401A1E3 | 109 | 8.5 | 7.7 | 1.95 | 154.88 | . . | 243 | 4 - | 70 | 1.5 | | | . | - | | |
| 7/25/2006 | | GW401A1H0 | 109 | 8.2 | | 3.15 | 153.68 | 1 | 329 | 3 | 80 | | | | | | | |
| 9/12/2006 | | GW401A1JD | 128 | 8.2 | 9.1 | 5.16 | 151.67 | 112.05 | 229 | 4 | 45 | 0 | | | | 1 | | |
| 5/14/2007 | | GW401A230 | 118 | 8.2 | 7.3 | 3.57 | 153.26 | | 341 | | 90 | 0 | | | | 1 | | |
| 7/24/2007 | | GVV401A274 | 129 | 7.9 | 8.9 | 6.71 | 150.12 | | 338 | 5 | 75 | 1.2 | + | | · | . . — — – | | |
| 9/11/200 | | GVV401A29E | 130 | 8.1 | 9.8 | 8.23 | 148.6 | 111.99 | 245 | 5 | 70 80 | 0 | | | +- · ··- | | | |
| 5/20/2008 | | GW401A2D8 | 123 | 8.3 | 7.8 | 4.15 | 152.68 | | 243 | 6 | - 60 | 0 | <u>+</u> | | + | | | |
| 7/28/2000 | | | 123 | 7.7 | 11.1 | 5.7 | 151.13 | | 321 | 5 | 80 | 0 | - | | | · | | |
| 10/27/2004 | | GW401A2J2 | 112 | 7.6 | 9.1 | 4.75 | 152.08 | 112 02 | 233 470 | 3 | | | 1 . | | + | | | |
| 4/13/2009 | | .GW401A32A | 73 | 7,9 | 7.3 | 1.3 | 155.53 | | 356 | 6 | | . 0 | | · ··· · | | | — —— | |
| 7/7/2009 | | GW401A36E | 121 | 7.7 | 9.3 | 1,55 | 155 28 | 111.98 | 516 | 6 | 100 | | | | | | | |
| 10/28/2009 | | GW401A3E9 GW401A3J8 | 165 | 8.1 | 8.1 | 4.45 | 152.71 152.38 | 111.98 | 456 | 6 | 45 |) | + | 1 | | | | |
| 4/27/2011 | | GW401A336 | 122 | 8.3 | | 7.78 | | | 375 | 4 | 70 | | + | <u>: </u> | | | | |
| 7/20/2010 | | | 125 | 7 9 | 10.3 | | 149 05 | | | 5 | - · · 50 | 0 | | i | | · · · · - — · · | | |
| 10/20/2010 4/25/201 | | GW401A45G | 191 | 7.8 | 8.1 | 5 52 | 151 31 | 112 1 | 462 | | + | 0 | | .+ | + - | } | | |
| | - · · · · · | GW401A49H | 132 | 7.6 | 8.6 | 1.6 | 155.23 | 1 | 320 | 3 | 115 | 1 0 | 1 | 1 | 1 | 1 | 1 | |

Page 30 of 37 SUMMARY REPORT REPORT PREPARED: 2/11/2014 11:49 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Field Data Part 1 of 1 CUMBERLAND CENTER, ME 04021 Turbidity (field) Flow Rate Water Level Well Depth Corrected Eh Dissolved Alkalinity Specific Temperature Water Level (MW-401A) (CaCO3) (field) Elevation Oxygen Conductance Depth Feet Feet mV mg/L mg/L NTU cfs µmhos/cm Standard Units Degrees Celcius Feet @25°C Date Type Sample ID 6.15 150 68 403 5 140 7/18/2011 XX GW401A4DF 7,5 11,5 0 112.02 309 6 50 GW401A4HA 128 8.2 10.2 3.62 153.21 10/24/2011 XX 422 50 2.4 8.3 4.42 152.41 5 GW401A520 123 8.6 4/23/2012 XX 100 4.9 7.8 12.7 6.03 150.8 394 6 7/23/2012 XX GW401A56J 126 0.7 7.1 112.02 452 5 75 9.9 0.93 155.9 GW401A5DA 119 10/22/2012 XX 233 5 45 1.4 7.9 153.93 4/22/2013 XX GW401A5I1 123 7.8 2.9 1.6 151.23 330 6 45 7/29/2013 XX GW401A646 7.2 12.3 5.6 124 45 0.2 150.73 209 5 6.1 112.04 10/28/2013 XX GW401A66J 6.8 9.3 MW-401B 149.51 06 220 2.2 7.81 7/29/2004 XX GW401B05A 496 6.9 9 335 0.4 122 0.6 6.7 9 7.5 149.82 23.03 10/27/2004 XX GW401B072 641 72 2 310 2 GW4018133 470 7.1 11.5 6.94 150.38 5/10/2005 XX 1 320 7/27/2005 XX 6.9 10.8 8.85 148.47 GW401B16B 533 0.9 23.1 408 0.8 235 9/21/2005 XX GW401B199 699 6.7 16.1 7.55 149.77 75 235 2.2 GW401B1E4 489 67 6.2 6.67 150.65 5/23/2006 XX 1.8 200 150.94 34 11.8 6.38 7/25/2006 XX GW401B1H 444 6.4 85 Ó 9.7 6.82 150.5 23.12 42 GW401B1JE 539 6.6 9/12/2006 XX 4.5 122 210 GW401B231 350 6.8 7.8 6.83 150.49 5/14/2007 XX 7.14 150.18 100 0.3 180 1.7 7/24/2007 XX GW401B275 451 5.9 8.9 125 180 ø XX GW401B29F 485 6,3 10.4 7.73 149.59 23.12 9/11/2007 1.4 -33 160 GW40182D9 7.4 6.8 150.52 5/20/200B XX 340 135 2.3 6.2 11.2 6.68 150.64 80 04 7/28/2008 ХX GW401B2GD 384 120 0 23.1 97 GW401B2J3 366 6.6 10.2 6.5 150.82 10/27/2008 XX 3.5 6.7 6.7 6.4 150.92 355 80 4/13/2009 XX GW401932B 160 0.5 XX GW401836F 150.97 130 1 140 6.6 8.9 6.35 7/7/2009 290 10/28/2009 XX GW40183EA 85 0 239 1 6.4 9.2 6.6 150.72 520 100 ٥ 7.3 7.4 6.7 150.62 266 0.8 4/27/2010 XX GW401B3J9 237 180 2.2 7.55 149.77 141 0.6 XX GW401B42D 339 6.6 11 7/20/2010 241 0.3 100 0 150.5 23 1 XX GW401B45H 514 6 9.4 6.62 10/20/2010 239 225 3.4 4/25/2011 XX GW401B49I 6.5 7.8 6.56 150.76 248 0 183 275 11.1 7.33 149.99 7/18/2011 XX GW4D1B4DG 313 6.3 115 Ô 10/24/2011 XX GW40164HB 319 6.6 11,1 6.63 150.69 23.12 152 7.5 338 5 60 2.2 6.63 150.69 GW401B521 235 7.5 4/23/2012 XX 28 181 140 7/23/2012 XX GW401B570 6.9 11.9 7.4 149.92 03 276 0,4 110 12 6.7 11.1 6.35 150.97 23.13 227 GW40185DB 310 10/22/2012 XX 234 0.8 90 1.1 4/22/2013 XX GW4018512 262 8.6 6.9 6.7 150.62 1.4 7.1 12.2 6.94 150.38 158 0.4 95 GW401B647 238 7/29/2013 XX 172 0.6 100 0.3 23.11 GW4018670 376 6.5 10 7.2 150.12 10/28/2013 XX MW-402A XX GW402A05B 13 F1 115 8.7 7/29/2004 215 4 70 0 108.21 XX GW402A073 149 7.4 7 0.05 152.15 10/27/2004 0.2 XX GW402A134 50 7.5 10.7 0 152.2 283 5/11/2005 113 50 XX |GW402A16C 231 01 7.6 12.1 ₽1 8/1/2005 104 40 0 9/21/2005; XX GW402A19A 108.19 219 110 7.4 112 F١ 55 Đ 5/23/2006 XX GW402A1E5 8.7 9.6 F1 291 106 451 4 70 07 7/26/2006 XX GW402A1H2 121 8.3 14.4 F1 75 0 9/12/2006 XX GW402A1JF б 12.1 F1 108.35 412 130 8.1 F1 106 5 35 0 5/15/2007 XX GW402A232 9.5 8.8 132

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XX

XX

10/24/2012

4/22/2013

GW402850D

GW402B514

76

92

8.2

8.9

7.3

11.6

141

152

147

2.9

3

3.92

149.84

149.74

148.82

323

242

76

0.4

0.3

03

25.2

50

60

40

32

0.9

0.4

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SEVEE & MAHER ENGINEERS, INC.

| | | FOR: Juniper Ri | dge Landfill | | | | | Field | Data Part 1 | of 1 . | | | | 4 BLA | NCHARD | ROAD | IEERS, INC. , ME 04021 |
|----------------------|-----------|------------------------|-------------------------------------|----------------------|------------------------------|------------------------------|----------------------------------|--------------------|-----------------|-----------------------------|---------------------------------------|-------------------|-----------|--|--------------|-------------------|---------------------------|
| (MW-40 | 2B) | | Specific Conductance µmbos/cm | pH Standard Units | Temperature Degrees Celcius | Water Level Depth Feet | Water Level Elevation Feet | Well Depth Feet | Corrected Eh | Dissolved Oxygen mg/L | Alkalinity (CaCO3) (field) mg/L | Turbidity (field) | Flow Rate | | | | |
| Date | Туре | Sample ID | @25°C | Standard States | Degrees Castas | | 100 | 100 | | mg D | ing 2 | NIO . | CIS | | | | |
| 10/30/201 | 3 XX | GW4028672 | 174 | 8.7 | 9 | 3.8 | 148.94 | 25.18 | 195 | 0.3 | 35 | 0.3 | | | | | |
| P-04-02 | 2 | | | | | | | | | | | | | | | | |
| 2/5/200 | 4 XX | GWXXXX03E | 414 | 8.5 | 4.8 | 23.42 | 145.32 | | | 6 | - [| 80.6 | | | | _ · [| |
| 2/11/200 | 4 XX | GWXXXX03C | 247 | 7.7 | 4.6 | 27.17 | 141.57 | | | 3 | | 5.3 | | | | | |
| 5/5/200 | | GWXXXXI0E | 305 | 6.2 | 9,6 | 8.23 | 160.51 | | 350 | 2 | 110 | 1.3 | | | 1 | | |
| 7/26/200 | | GWXXXX042 | 202 | B.3 | 13.1 | 8.78 | 159.96 | | 215 | 2 | 100 | Ö | | | | | |
| 10/25/200 | | GWXXXX07I | 288 | 7.9 | 6.6 | 8.9 | 159.84 | 37.14 | 230 | t | 135 | 0.5 | | | | | |
| 5/9/200 | | GWXXXX13J | 243 | 7.1 | 9.2 | 7.02 | 161.72 | | 273 | 1 | 135 | 0.5 | | | <u> </u> | | |
| 7/27/200 | | GWXXXX177 | 166 | 7.4 | 17.1 | 9.11 | 159.63 | | 295 | 1 | 105 | 0.9 | | i · ——— | | | |
| 9/22/200 | | GWXXXX1A5 GWXXXX1F0 | 250 | 7 | 11.8 | 9.16 7.8 | 159.58 | 27.9 | 270 | 1 | 110 | 0 | | <u> </u> | | \longrightarrow | |
| 5/22/200 7/24/200 | | GWXXXX1FU GWXXXX1HH | 205 208 | 7.4 7.3 | 12.2 | 8,55 | 160.94 160.19 | 1 | 181 270 | 2 | 135 125 | 0.5 | | | | | |
| 9/11/200 | | GWXXXX20A | 237 | 7.5 | 15.8 | 8.38 | 160.19 | 37.18 | 230 | 3 | 75 | 1.4 | | | · | | |
| 5/14/200 | | GWXXXX23H | 233 | 7.4 | 11.9 | 8 | 160.74 | 37.10 | 367 | 2 | 95 | 1.4 | | | | | |
| 7/23/200 | , , , , , | GWXXXX281 | 183 | 7.6 | 16.1 | 9.25 | 159.49 | | 247 | 2 | 105 | 8 | | <u> </u> | | | |
| 9/10/200 | | GWXXXX2AB | 222 | 7.8 | 13.8 | 9.8 | 158.94 | 37.2 | 270 | 1 | 95 | 0.7 | | : | | | |
| 5/21/200 | | GWXXXX2E5 | 215 | 7.7 | 10.8 | 7.98 | 160.76 | | 301 | 3 | 110 | 0.05 | | | | - | |
| 7/30/200 | | GWXXXX2H9 | 213 | 7.6 | 15.3 | 9.63 | 159.11 | | 166 | 3 | 80 | 0 | | | <u> </u> | | |
| 10/29/200 | | GWXXXX311 | 197 | 8 | 9.3 | 8.73 | 160.01 | 37.2 | 50 | 1 | 75 | 0 | | | - | | |
| 4/13/200 | | GWXXXX337 | 198 | 8 | 8.9 | 8.25 | 160.49 | | 461 | 5 | 105 | 0 | | | | | |
| 7/6/200 | 9 XX | GWXXXX37B | 215 | 7.1 | 16.4 | 7.95 | 160.79 | | 279 | 4 | 115 | 0 | | | | | |
| 10/27/200 | 9 XX | GWXXXX3F6 | 242 | 7.9 | 10.9 | 7.55 | 161.19 | 37.2 | 393 | 1 | 60 | 0 | | | 1 | | |
| 4/26/201 | | GWXXXX405 | 222 | 7.1 | 12.9 | 7.81 | 160.93 | | 303 | 4 | 50 | 0.6 | | | | | |
| 7/21/201 | | GWXXXX439 | 213 | 7.4 | 16.2 | 8.25 | 160.49 | | 322 | 3 | 115 | 2.5 | | | | | |
| 10/20/201 | | GWXXXX46D | 214 | 7.9 | 10.3 | 8.5 | 160.24 | 37.15 | 282 | 1 | 55 | 0 | | | | | |
| 4/27/201 | + | GWXXXX4AE | 227 | 7.8 | 10,8 | 7.28 | 161.46 | ļ | 483 | 5 | 175 | 0.4 | | | | | |
| 7/20/201 | | GWXXXX4EC | 201 | 7,4 | 18.6 | 7.81 | 160.93 | | 381 | 3 | 75 | 0 | | | | | |
| 10/26/201 | | GWXXXX417 | ! | ! | | ! | | ! | ! | ! | ! | ! | | <u> </u> | | | |
| 4/25/201 | _ | GWXXXX52H | 193 | 6.3 | 10.7 | 10.55 | 158.19 | <u> </u> | 263 | 1 1 | 100 | 64.4 | | | | | |
| 7/25/201 | | GWXXXX57G GWXXXXSE7 | 283 | 7.3 | 4.9 | 11.56 | 157.18 | | 346 | 1 | 85 | 19.1 | | | | | |
| 10/24/201 | | GWXXXX5II | 245 | 6.8 | 13.3 | 6.65 | 162.09 | 39.98 | 340 | 1 | 60 | 16.2 | | | | | |
| 4/22/201 | | GVVXXXXIII | L | .]! | 1 ' | ! | | l | .i 1 | 1! | | 1'. | | | | | |
| P-04-04 | | | | | | | | | | | | | | | | | |
| 2/5/200 | | GWXXXX03F | 405 | 8 | 52 | 23.52 | 145.83 | | | 5 | | 162 | | | | | |
| 2/11/200 | | GWXXXX03D | 237 | 8 | 3 4 | 29.17 | 140.18 | | | - 6 | | 4.2 | | | _ | | |
| 5/6/200 | | GWXXXX00F | 287 | 6.2 | 11.3 | 8.86 | 160.49 | | 347 | 3 | 115 | 2 | | | _Ļ _ | | |
| 7/26/200 | | GWXXXX043 | 190 | 7.9 | 13.2 | 9.38 | 159.97 | ļ | 356 | 2 | 105 | 0.3 | | | | | |
| 10/25/200 | | GWXXXX07J | 249 | 7.6 | 10.5 | 9.35 | 160 | 32.23 | 280 | 11 | 105 | 0 | | <u> </u> | | | |
| 5/9/200 | _ | GWXXXX140 | 179 | 7.3 | 9.2 | 7.5 | 161.85 | ļ | 283 | 3 | 110 | Ļ ⁰ | | | | | |
| 7/27/200 | | GWXXXX178 | 174 | 8.2 | 17.7 | 9.71 | 159.64 | ļ <u></u> | 291 | 3 | 115 | 1.1 | | | <u> </u> | | |
| 9/22/200 | | GWXXXX1A6 GWXXXX1F1 | 174 | 7 | 12.6 | 96 | 159.75 | 32.32 | 290 | 1 1 | 50 | 0 : | | | | | |
| 5/22/200 | | GWXXXX1F1 GWXXXX1HI | 161 | 7,4 | 13.9 | 8.28 8.88 | 161 07 160,47 | | 189 | 3 | 120 | 15 | | | . | | |
| 7/24/200 9/11/200 | | GWXXXX20B | 201 | 7.2 | 16.5 | 8.85 | 160.5 | 32 35 | 202 151 | 2 | 130 60 | 16 | | | | \longrightarrow | |
| 5/14/200 | | GWXXXX231 | 182 | 7.9 | 12.1 | 8.47 | 160.88 | 32 33 | 415 | 4 | 65 | 06 | | | - | \rightarrow | |
| 7/23/200 | | GWXXXX282 | 148 | 7.9 | 16.4 | 9.52 | 159.83 | | 250 | 5 | 100 | 7.6 | | | | \longrightarrow | |
| 9/10/200 | | GWXXXX2AC | 178 | 78 | 14,1 | 10 03 | 159.32 | 32.33 | 275 | 6 | 75 | 02 | | ; | | | |
| 5/21/200 | | GWXXXX2E6 | 173 | 7.5 | 98 | 8 41 | 160.94 | | 274 | 44 | 105 | 1 | | ; | . | + | |
| U-Z 11400 | -T | | | .1 | | | 1 100.00 | | | ⊥ <u>.</u> | 1 | L Y | | | !_ | 1- | |

SUMMARY REPORT

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SEVEE & MAHER ENGINEERS, INC.

| Process Proc | | FOR: Juniper Ri | dge Landfill | | | | | Field | Data Part 1 | of 1 | | | | | 4 BLANCHARD RO CUMBERLAND CI | OAD | AE 04021 |
|--|---------------|-----------------|--------------------|----------------|--|-------------|---------------|--------------|-------------|--------------|-----------------|-------------|--|--------------------|---------------------------------|--------------------|----------|
| Detail Type Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Sample Detail Detai | (P-04-04) | | Conductance | • | · | Depth | Elevation | | | Oxygen | (CaCO3) (field) | • | | | | | |
| 100000000 160 | Date Type | Sample ID | μπιhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mv | mg/L | mg/L | NJU | Ç1 5 | | | | |
| Total State | 7/30/2008 XX | GWXXXX2HA | 162 | 7.9 | 15 | 9.34 | 160.01 | ! | | | | | | _ + | | ., | |
| Page XP Page XP Page XP Page R. Page P | | | 159 | 8 | 9.7 | 9.1 | 160.25 | 32.3 | | 2 | 50 | | l | | | -+ | |
| DEFFICION ACCOUNTY 175 6 174 798 101.39 32.21 378 2 45 0 0 0 0 0 0 0 0 0 | | | 178 | 7.9 | 9 | 8.8 | 160.55 | | | | | | | | | -+ | |
| MADESTAND XX MANOSCARE 177 179 122 8.45 150.9 9.55 4 60 0.8 | 7/6/2009 XX | GWXXXXX37C | 175 | 7.6 | 19.5 | 8.4 | 160.95 | ļ., | | | | | l | | | - | |
| Trigonomy Trig | 10/27/2009 XX | GWXXXXXF7 | 175 | | | | | 32.21 | _ | | | + | l -—— | — - | | -+ | |
| 107020715 XX 10800000000 190 | 4/26/2010 XX | GWXXXXX408 | | | | | | 1 | | | | | | | | | |
| | 7/21/2010 XX | | | | | | | 1 | | | | | | | | | |
| | 10/20/2010 XX | - | | | | | | 32.25 | | | | | | | | + | |
| March Marc | 4/27/2011, XX | | : | | | | | | | | | | | | | —— | |
| | | | | | .+ | | | | | + | | | | + | | | |
| Control Cont | | | | | - No. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | · | | 32.3 | . 1 | | | | | | | + | |
| 1000000000000000000000000000000000000 | | | | | | | | 1 | | | | | · | _ + | +- | | — · - |
| 10024073 XX | | | | | | · | | | | | | | | — ÷ | | -+ | |
| Trigging X | | | | | | | | 32.33 | | | _ | | | | | | |
| Mail | | | | | | | | | | | | | | | | | |
| March Marc | | | | | | | | 1 32 26 | | | | | · · · · · · · | | | | |
| ACCOUNT ACCO | | GWXXXX67E | 1 194 | 1 | 11 | 10.01 | 109.24 | | 1 040 | <u> </u> | | | | | | | |
| 192 | PWS10-1 | | | | | | | | | | | | | | | | · |
| 17/19/2010 XX 0/PP/951467 438 6.5 6.8 5.8 5.2 5 1.0 2.7 1.0 | 4/26/2010 XX | GWPW\$13IJ | 223 | 6.1 | 11.7 | | |] | | | | | | | | | |
| A | 7/19/2010 XX | GWPW\$1423 | 314 | 6.1 | 19.9 | I | | | | + | | | | | | | |
| 1716/2011 XX 3049-9451406 26.5 5.9 19.7 19 | 10/18/2010 XX | | | | | | | | | | | | <u> </u> | | | | ·· · — |
| 10024/2011 XX SMPWS14H1 150 5.8 11.4 106 1 70 2.5 1 1 1 1 1 1 1 1 1 | | | | | ·· ·· · | | ↓. | | | | | | ł | · | | | |
| | 7/18/2011 XX | L | 265 | | . 19.7 | | | <u> </u> | | | | | | | | | |
| Trigology Trig | | 4 | | | | ļ | | <u> </u> | | | | | ł | | | | |
| 107227017 XX 0VVPVS1501 138 5.8 11.6 228 0.3 3.5 3.7 228 1 5.0 3.2 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 228 1 5.0 228 | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | - | | | | + | | | l | + | | | |
| T292001 XX GWPWS189H 207 5.5 17.6 3.8 1 75 12.6 | | | | | | | | | | + | | | | _ · _ + | | · · - | |
| 1026/2013 XX GWPWS188A 119 6.3 7.1 101 4 25 5.7 | | | | | | | | + | | + | | | t · | | | | |
| PWS10-2 4/26/2010 XX GWPW62330 62 6 9.3 102 4 20 2.3 107/19/2010 XX GWPW623424 110 5.6 21.1 5.5 1 45 3.4 107/19/2010 XX GWPW62424 110 5.6 | | | | | | | -+ | | | 1 | | | · · · | | | | |
| ### ### ############################## | | GWPWS166A | 1119 | _ [6.3 | 1 7.1 | ⊥ | | l | 101 | · - | | 1 | · | ' | | | |
| 7/19/2010 XX GWPWS2488 | PWS10-2 | | | | | | | | | | | | | | | | _ |
| 10/18/2010 XX GWPWS2458 150 66 8.7 302 1 20 5.5 | 4/26/2010 XX | GWPW923J0 | 82 | 6 | 9.3 | | _] | <u>.</u> | | | | | <u> </u> | | | | |
| 10 10 10 10 10 10 10 10 | | | 110 | 5.6 | | | | 1 | | | | | | | | + | |
| 7/18/2011 XX GWPWS2407 157 5.8 24.6 248 1 135 4.4 30 2.5 30 30 4/23/2012 XX GWPWS2412 105 5.6 10.6 14.5 4 30 2.5 30 30 4/23/2012 XX GWPWS2510 73 5.7 6.4 10.4 1 35 3.2 30 30 3.1 30 30 30 30 30 30 30 30 30 30 30 30 30 | | | 150 | | | | <u> </u> | | | 4 | | | <u> </u> | | \longrightarrow | — | |
| 10/24/2011 XX GWPWS24-12 105 5.6 10.6 145 4 30 2.5 | 4/25/2011 XX | | | | | | - | | | - | | | | — · -} | | - | |
| A/23/2012 XX SWPWS251C 73 5.7 6.4 104 1 35 3.2 | | | | | | <u> </u> | - | | | | | | | | | | |
| 7/23/2012 XX GWPWS256B 86 6.3 26.7 293 6 50 6.5 15 1.6 10/22/2012 XX GWPWS2502 74 6 12.3 278 5 15 1.6 16 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 12.2 12.1 3 15 2.5 1.6 1.6 1.2 1.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | ļ— | . | . | | + | | | | | · — — | - | |
| 10/21/2012 XX GWPWS25D2 74 6 12.3 278 5 15 1.6 | | | | 4 | | <u> </u> | | ļ | | | | | | | | | |
| 10/2/2013 XX GWPWS25HD 100 5.5 7.8 221 3 15 2.5 | | | | | | .4 | 1 | | | | | | + | | | | |
| ### ### ############################## | | | | | | | | - | | | | | | · | | 1 | |
| 10/28/2013 XX GWPWS266B 107 6.7 9.6 133 5 15 6.2 | | | _1 | + | | | | + | | -+ | | | ! | | | 1 | |
| PWS10-3 4/26/2010 XX GWPW933JI 175 7 11.8 39 2 80 6.3 7/19/2010 XX GWPW93425 211 5.5 17.9 79 2 105 7.1 10/18/2010 XX GWPW33459 131 6.2 78 400 4 20 41 | 7/29/2013 XX | GVYPVV\$2B31 | | | | | | + | | | | -+ | | | | † | |
| 4/26/2010 XX GWPW333J 175 7 11.8 39 2 80 6.3 7/19/2010 XX GWPW33425 211 5.5 17.9 79 2 105 7.1 10/18/2010 XX GWPW33459 131 6.2 7.8 400 4 20 4.1 | | GVYFVY5266B | 10/ | , b./ | 1 5.6 | 1 | <u> </u> | | _L_ | <u> </u> | | J. J.L | 1 | | | | |
| 7/19/2010 XX GWPWS3425 211 5.5 17.9 79 2 105 7.1 10/18/2010 XX GWPWS3469 131 6.2 7.8 400 4 20 4.1 | PWS10-3 | | | | | | | | | . | | | | | · ··— | · - - - | |
| 7/19/2010 XX GWPWS3425 211 5.5 17.9 79 2 105 7.1 10/18/2010 XX GWPWS3459 131 6.2 7.8 400 4 20 41 | 4/26/2010 XX | GWPW933J1 | 175 | 7 | | | | | | 2 | | | <u> </u> | | , l | _ · · <u>-</u> - | |
| 10/18/2010 XX GWPWS3459 131 6.2 78 400 4 20 41 | 7/19/2010 XX | GWPW93425 | 211 | 5.5 | | 1 | | 1 | | | | | _ | | | +- | |
| 4/25/2011; XX GWPWS349A 222 5.9 9 118 1 145 3.5 | 10/18/2010 XX | GWPWS3459 | | | —+··· | | | | | | | | | · | , | | |
| | 4/25/2011 XX | GWPW5349A | 222 | 5.9 | 9 | | | | 118 | I 1 . | .] 145 | 3.5 | L | <u></u> | | | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT Field Data Part 1 of 1

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| | | FOR: Juniper Kit | oge candilli | | | | | Field | Data Part 1 | of 1 | | | | | 4 BLAN CUMB | NCHARD ROA ERLAND CEN | ND ITER, ME 040 |)21 |
|------------|------|------------------|-------------------------|----------------|-----------------|--|--|--|--------------|---------------------|-------------------------------|------|-------------|----------|----------------|--------------------------|--------------------|-------------|
| (PWS10- | 3) | | Specific Conductance | pН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | | Flow Rate | | | | | |
| Date | Туре | Sample ID | µmhos∕em @25°C | Standard Units | Degrees Celcius | . Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cfs | | | | | |
| 7/18/2011 | XX | GWPWS34D8 | 148 | 5.8 | 23.1 | | | | 203 | 3 | 125 | 18.3 | | | | | | |
| 10/24/2011 | 1 | GWPWS34H3 | 111 | 5.3 | 11.1 | 1 | | | 164 | 1 | 35 | 4.5 | | | | | | |
| 4/23/2012 | XX | GWPWS351D | 63 | 6.5 | 20.7 | | | 1. | 307 | 3 | 50 | 4.2 | | | | <u> </u> |] | — |
| 7/23/2012 | XX | GWPWS356C | 73 | 5.8 | 26.8 | | | | 155 | 4 | 25 | 6.6 | | | | <u> </u> | | _ |
| 10/22/2012 | | 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 | 1 | <u> </u> | | | | |
| 7/29/2013 | XX | GWPWS363J | 180 | 5.5 | 18.9 | | | | -7 | 1 | 90 | 5.9 | | | 1 | | | |
| 10/28/2013 | xx | GWPW\$366C | 80 | 6.6 | 7.8 | | <u> </u> | | 152 | 4 | 20 | 8.1 | | | <u> </u> | | | |
| SW-1 | | | | | | | | | | | | | | | | | | |
| 5/3/2004 | XX | SWXX1X018 | 91 | 6.3 | 18 | [| T | . | 364 | 6 | 30 | 0.7 | T | | | | | |
| 7/27/2004 | XX | SWXX1X04E | 80 | 5.8 | 16.4 | | | 1 . | 261 | 5.7 | 30 | 3.4 | | T | | I | | |
| 10/26/2004 | | SWXX1X069 | 72 | 6 | 8 | ··· | | | 278 | 5 | 30 | 0.9 | | | | | | |
| 5/10/2005 | | SWXX1X12A | 57 | 6.7 | 25 | | | | 442 | 5 | 95 | 1.4 | | | | 1 | | |
| 7/28/2005 | 1 | SWXX1X15I | 62 | 6.1 | 22.9 | | | | 267 | 6 | 80 | 20.1 | | | | | | |
| 9/20/2005 | 4 | SWXX1X18G | 106 | 8 | 16.9 | | | | 267 | 6 | 30 | 9.2 | | | 1 | | | |
| 5/24/2006 | 1 | SWXX1X1DB | 181 | 6.5 | 14.6 | | †* | | 430 | 6 | 70 | 38 | ? | | | | | |
| 7/26/2006 | | SWXX1X1G8 | 120 | 6 | 26.3 | | | 1 | 228 | - 4 " | 30 | 1.8 | i | | T | | | |
| 9/13/2006 | | SWXX1X1J1 | 345 | 6.6 | 17.6 | | † | | 244 | 5 | | 2.4 | 1 | <u> </u> | T ' | | | |
| 5/15/2007 | - | SWXX1X228 | 84 | 5.9 | 10.9 | <u> </u> | 1 | T | 273 | 5 | 35 | 1.6 | | | | | | |
| 7/24/2007 | | SWXX1X26C | 101 | 6.7 | 25.1 | T | | | 366 | 6 | 60 | 3.1 | | | | | | |
| 9/11/2007 | | SWXX1X292 | 101 | 6.7 | 15.9 | | | | 275 | 5 | 30 | 2.9 | | | T | | | |
| 5/21/2008 | | SWXX1X2CG | 96 | 6.9 | 13.7 | | | | 279 | - 6 | 50 | 1.3 | | ! | | | | |
| 7/29/2008 | | SWXX1X2G0 | T / | | 1 | Ţ · · | | | Ţ- · | 1 | 1 | ı | | | | | | |
| 10/28/2006 | _ | \$WXX1X2IA | 68 | 7.7 | 11.2 | | | T | 207 | 5 | 20 | 4.7 | | | | <u> </u> | | |
| 4/14/2009 | | SWXX1X31I | 109 | 7 | 7.7 | 1 | | · T | 475 | 6 | 15 | 3.6 | | | | <u> </u> | | |
| 7/7/2009 | • | \$WXX1X362 | 59 | 6.7 | 16.9 | | | 1 | 383 | 5 | 30 | 8.0 | | | | | | |
| 10/27/2009 | + | \$WXX1X3DH | 86 | 6.5 | 5.6 | 1 | T | Ţ | 336 | 3 | 10 | 1 | | <u> </u> | | | | |
| 4/28/2010 | | SWXX1X3IG | 186 | 6.2 | 7.9 | 1 | | I | 404 | 5 | 15 | 1.7 | ŀ | <u></u> | | | | |
| 7/20/2010 | XX | SWXX1X420 | 293 | 6.3 | 21.3 | Τ΄ | | | 100 | 2 | 135 | 15.5 | 1 | | | | | |
| 10/19/2010 | XX | SWXX1X454 | 142 | 7.3 | 6.2 | T:: | | | 450 | 4 | 20 | 3.2 | 1 | | | | | |
| 4/26/2011 | | SWXX1X495 | 76 | 5.9 | 10.9 | | 1 | | 404 | 5 | 30 | 1.4 | | | <u> </u> | | | |
| 7/19/2011 | ı xx | SWXX1X4D3 | 235 | 6.4 | 21.9 | | | | 273 | 4 | 100 | 0.4 | | | | 1 | | |
| 10/25/2011 | 1 XX | \$WXX1X4GI | 78 | 7.5 | 11.6 | | | | 234 | 6 | . 30 | 0.6 | | - l | | ᆜ | | |
| 4/24/2012 | 2 XX | SWXX1X518 | 78 | 6.7 | 11.6 | | | | 549 | 6 | 35 | 2 | 1 | | <u> </u> | | | |
| 7/24/2012 | 2 XX | SWXX1X567 | 108 | 6.9 | 22.1 | <u></u> | | | 299 | 5 | 60 | 9.6 | | : | | | | |
| 10/23/2012 | 2 XX | SWXX1X5C1 | 98 | 7.2 | 10.1 | II | | į | 475 | 5 | 50 | 1.6 | <u> </u> | · | | | | |
| 4/23/2013 | XX E | SWXX1X5H9 | 80 | 6.6 | 9.6 | | | | 237 | 66 | 15 | 3.6 | | <u> </u> | | | | |
| 7/30/2013 | XX | SWXX1X63E | 83 | 6.5 | 23.2 | | | _1 | 310 | 6 | 25 | 2.3 | | | | | | |
| 10/29/2013 | 3 XX | SWXX1X667 | 99 | 7.2 | 5.6 | | | | 325 | 66 | 20 | 1.5 | .L | . J | · | | İ | |
| SW-2 | | | | | | | | | | | | | | | | | | |
| 5/3/2004 | | SWXX2X019 | 85 | 61 | 16.4 | I | | Ţ <u>.</u> | 366 | 6 | 25 | 1.8 | | | .; | | | |
| 7/27/2004 | | SWXX2X04F | 87 | 5.7 | 20.5 | <u> </u> | | 4 | 311 | . 5 | 25 | 0.8 | | | · | | | |
| 10/26/200 | | SWXX2X06A | 83 | 5.9 | 7.6 | | | | 355 | 5 | 25 | 0.4 | | | + | | | |
| 5/10/2000 | | SWXX2X12B | 66 | 6.4 | 15.7 | | | | 364 | 6 | 30 | 0.9 | 2.82 | - | + | | - | |
| 7/28/2005 | | SWXX2X15J | 49 | 6.3 | 22 1 | | <u> </u> | | 210 | 6 | 25 | 15 | 56 | 1 | + | | | |
| 9/20/2000 | | SWXX2X18H | 64 | 7 | 16.6 | | | | 267 | 5 | 30 | 2.4 | 3.4 | | | + | | |
| 5/24/2006 | S XX | \$WXX2X1DC | 65 | 6.4 | 13 | | | | 284 | | 25 | 2.8 | 2 | | | | | |
| 7/26/2000 | S XX | SWXX2X1G8 | 66 | 6 | 25.3 | L | | | 240 | 3 | 30 | 0.6 | 1.3 | 1 | I | l | | |

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FOR: Juniper Ridge Lendfill Field Data Part 1 of 1

Page 35 of 37 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| | | FOR: Juniper R | idge Landfill | | | | | Field | Data Part 1 | of 1 | | | | | 4 BLANCHA | AHER ENGIN ARD ROAD AND CENTER | |
|------------|-------|----------------|-------------------------|----------------|-----------------|----------------------|--------------------------|------------|--------------|---------------------|-----------------|-------------------|-----------------|--|-------------------|--------------------------------------|-------------|
| (SW-2) | | | Specific Conductance | pH | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | (CaCO3) (field) | Turbidity (field) | Flow Rate | | | | |
| Date | Туре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Fect | Feet | Feet | m V | mg/L | mg/L | NTU | cfs | | | | |
| 9/13/2008 | XX | SWXX2X1J2 | 80 | 6.4 | 16.3 | | T | | 304 | 4 | 25 | 1.8 | 1 | | | <u></u> | |
| 5/15/2007 | xx | SWXX2X229 | 74 | 6.1 | 11.7 | | | 1 | 310 | 4. | 30 | 1.1 | 0.5 | | | | |
| 7/24/2007 | XX | SWXX2X28D | 101 | 6.3 | 26.3 | | 1 | | 260 | 6 | 45 | 3.5 | 2.5 | | | | |
| 9/11/2007 | ' XX | SWXX2X293 | 99 | 6.6 | 16.8 | | II. | | 203 | 5 | 40 | 2.4 | 0.6 | | | | i |
| 5/21/2008 | XX | \$WXX2X2CH | 83 | 6.7 | 13.3 | | | | 282 | 6 | 45 | 2.7 | 3 | | | | |
| 7/29/2008 | XX. | SWXX2X2G1 | 81 | 6.8 | 27.7 | | | 1 | 340 | 4 | 20 | 0.7 | 1 | | | | |
| 10/28/2006 | XX | SWXX2X2IB | 54 | 7.4 | 14.4 | | | | 432 | 6 | 50 | 26 | 3.5 | | | | |
| 4/14/2009 | | SWXX2X31J | 62 | 6.7 | 68 | ļ <u>-</u> | <u> </u> | | 516 | . 3 | 35 | 32 | 1.9 | | | | |
| 7/7/2009 | | SWXX2X363 | 62 | 7.1 | 16.2 | | <u> </u> | | 453 | 5 | 25 | 2.6 | 6.5 | | | | |
| 10/27/2009 | XX | SWXX2X3DI | 122 | 5.8 | 6.9 | | j | | 445 | 5 | 15 | 3.6 | 3 | <u> </u> | | | <u></u> |
| 4/28/2010 | | SWXX2X3(H | 78 | 6.2 | 7.6 | | | | 422 | 2 | 20 | 1.1 | 1.8 | | | | _ |
| 7/20/2010 | | SWXX2X421 | 83 | 7.1 | 28.2 | | <u>i</u> | | 288 | В | 25 | 3.7 | 0.5 | | | | ļ |
| 10/19/2010 | | SWXX2X455 | 130 | 7.2 | 9.5 | | i | | 444 | 6 | 20 | 3.2 | 2 | <u> </u> | - | | |
| 4/26/2011 | | SWXX2X496 | 71 | 5.9 | 12.3 | | | | 367 | 5 | 30 | 1.2 | 2.5 | | | -— <u>-</u> | |
| 7/19/201 | | SWXX2X4D4 | 46 | 7.1 | 29.6 | | | | 332 | 6 | 38 | 0 | 0.1 | | | | <u> </u> |
| 10/25/2011 | | SWXX2X4GJ | 72 | 7.6 | 11.7 | <u> </u> | | | 337 | . 5 | 25 | 1.2 | 1.5 | | | / | |
| 4/24/2012 | | SWXX2X519 | 87 | 6.9 | 10.6 | <u> </u> | | | 454 | 5 | 30 | 2.4 | 14 | | | | l |
| 7/24/2012 | | SWXX2X588 | 65 | 6.9 | 25.9 | | | | 449 | 6 | 25 | 3.1 | 1.75 | | | ļ | |
| 10/23/2012 | | SWXX2X5CJ | 54 | 7.2 | 12.2 | | <u> </u> | | 472 | 5 | 15 | 1.7 | 2.75 | | | | |
| 4/23/2013 | | SWXX2X5HA | 77 | 6.4 | 10.6 | _ | | | 236 | 5 | 15 | 4.1 | 1.5 | | | | |
| 7/30/2013 | | SWXX2X63F | 65 | 7 | 26.2 | <u> </u> | <u> </u> | ļ <u>-</u> | 274 | 6 | 20 | 2.2 | 1 | <u> </u> | | | |
| 10/29/2013 | 3 XX | SWXX2X668 | 82 | 88 | 10.1 |] | <u> </u> | L | 469 | 5 | 20 | 1.2 | 0.1 | | t_ | | L |
| SW-3 | | | | | | | | | | | | | | | | | |
| 5/3/2004 | 4 XX | SWXX3X01A | 68 | 5.5 | 16.8 | | | | 360 | 6 | 25 | 3.8 | | Τ | | | |
| 7/27/2004 | 1 XX | SWXX3X04G | 104 | 6.3 | 18.1 | | | | 364 | 3 | 45 | 5.3 | | 71 | | | |
| 10/26/2004 | 4 XX | SWXX3X06B | 73 | 6.5 | 7.9 | | | | 290 | 4 | 35 | 2.1 | | | | | |
| 5/10/2009 | XX | SWXX3X12C | 149 | 6.5 | 14.7 | | | | 363 | 4 | 15 | 1 | 5.42 | T | |] | L |
| 7/28/2009 | XX | SWXX3X160 | 66 | 6.3 | 21.2 | | | | 318 | 4 | 15 | 2.1 | 2.35 | | | | |
| 9/20/200 | XX | SWXX3X18I | 74 | 6.9 | 17.3 | | | <u> </u> | 316 | 5 | 35 | 4 | 5.4 | | _ | | |
| 5/24/2006 | § XX | SWXX3X1DD | 73 | 6.4 | 14 4 | | | | 271 | 6 | 25 | 2 | 6 | | | | L |
| 7/26/2006 | XX je | SWXX3X1GA | 65 | 6.4 | 23.9 | | | | 237 | 6 | 40 | 0.4 | 6 .1 | | | | L |
| 9/13/2000 | 3 XX | SWXX3X1J3 | 88 | 6.8 | 13.9 | | | i i | 354 | 6 | 25 | 1.4 | | | | | |
| 5/15/200 | 7 XX | SWXX3X22A | 68 | 6.4 | 12.2 | | | | 300 | 4 | 25 | 1.8 | 5 76 | | | | l. · · |
| 7/24/200 | 7 XX | SWXX3X26E | 84 | 6.7 | 21.4 | | | i | 259 | 5 | 40 | 2.1 | 5.08 | <u></u> | | | L · |
| 9/11/200 | 7 XX | SWXX3X294 | 98 | 6.9 | 16 | | | | 258 | 5 | 45 | 1.8 | 4.67 | | | | <u></u> |
| 5/21/200 | | SWXX3X2CI | 84 | 6.9 | 12.3 | | | | 346 | 6 | 30 | 2.3 | 5 | <u> </u> | | | <u> </u> |
| 7/29/2000 | | SWXX3X2G2 | 103 | 7 | 27.4 | | | | 260 | 4 | 45 | 3.1 | 5 | · | | | |
| 10/28/2008 | _ | SWXX3X2IC | 63 | 7.3 | 12.9 | ļ | _l _ _ | | 452 | 4 | 20 | 2.6 | 7 | | | ! | <u> </u> |
| 4/14/2009 | | SWXX3X320 | 71 | 6.5 | 3.8 | L | _ | | 495 | 6 | 20 | 1.6 | 12 | | | | |
| 7/7/2009 | | SWXX3X364 | 58 | 6.6 | 16 | | | | 421 | 4 | 30 | 2.6 | 8 | | | | |
| 10/27/2009 | | SWXXXXXDJ | 82 | 6.1 | 4.7 | | | | 461 | .5 | 20 | 1.7 | 10 | _ <u> </u> | | i | |
| 4/28/2010 | | SWXX3X39 | 81 | 6.8 | | | | i | 368 | 2 | 20 | 1.7 | 9 | | | | |
| 7/20/2010 | 1 | SWXX3X422 | 110 | <u>.</u> .7 | 22.3 | ļ | | . <u> </u> | 287 | 4 | 60 | 9.6 | 35 | <u> </u> | | | |
| 10/19/2010 | | SWXX3X456 | 137 | 7.5 | 6.2 | | | | 437 | 6 | 15 | 0.6 | 8 | | \longrightarrow | | |
| 4/26/201 | | SWXX3X497 | 73 | 6.3 | 11.2 | | | | 438 | 6 | 35 | 16 | 8 | | \longrightarrow | | |
| 7/19/201 | - | SWXX3X4D5 | 93 | 6.8 | 23.3 | | | | 338 | 5 | 38 | 0 | 25 | | \longrightarrow | | |
| 10/25/201 | | SWXX3X4H0 | 78 | 6.6 | 10.5 | <u>:</u> | | | 257 | 5 | 25 | 1.2 | 7.5 | <u> </u> | | | |
| 4/24/2013 | 1 | SWXX3X51A | 54 | 7.4 | 9.8 | | | ļ | 449 | 66 | 25 | 2.4 | 19 | | | | ļ |
| 7/24/2013 | 2 XX | SWXX3X569 | 103 | 7.5 | 22.9 | j | _L | 1 | 326 | 4 | 100 | 2.5 | 3.75 | | . | | i |

Page 36 of 37 SUMMARY REPORT REPORT PREPARED: 2/11/2014 11:49 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Field Data Part 1 of 1 CUMBERLAND CENTER, ME 04021 Turbidity (field) How Rate Water Level Water Level Well Depth Corrected Eh Dissolved Alkalinity Specific Temperature (SW-3)(CaCO3) (field) Conductance Depth Elevation Oxygen mg/L NTU cfs Feet mV mg/L µmhos/cm Standard Units Degrees Celcius Feet Feet Type Sample ID @25°C Date 10/23/2012 XX SWXX3X5D0 2.1 5 46 7.4 11.5 422 50 XX SWXX3X5HB 8 71 6.5 9.7 234 6 20 1.5 4/23/2013 6 170 6 25 1.2 7/30/2013 XX SWXXXX63G 81 7.9 23 10/29/2013 XX SWXX3X869 365 4 15 1.2 6.5 108 7.7 6.7 SW-DP1 343 125 2.1 XX SWDP1X01H 358 7.6 18.1 5/3/2004 XX SWDP1X053 8.2 20.5 275 В 175 14 7/27/2004 400 150 8.0 0.8 XX SWDP1X06H 232 8.2 10.4 276 10/26/2004 65 15 XX SWIDP1X12 118 6.9 19 350 5 5/10/2005 262 80 28.1 XX SWDP1X166 7/28/2005 101 6.4 26.9 6 296 5 30 15.2 XX SWDP1X194 147 7.1 9/20/2005 16 402 6 50 3.2 XX SWIDP1X1DJ 206 7 14.9 5/24/2006 7/26/2006 XX SWOP1X1GG 0.6 308 40 196 8.5 31.1 70 2.4 258 6 9/13/2006 XX SWDP1X1J9 177 7 18.7 XX SWDP1X22G 65 3.1 7.3 264 6 190 14.8 5/15/2007 40 1.6 281 XX SWDP1X270 142 8.9 24.3 6 7/24/2007 211 40 0.2 SWDP1X29A 9.1 18.4 6 9/11/2007 XX 112 SWDP1X2D4 277 6 75 1.6 156 15.4 5/21/2008 XX 8.2 30 2.5 XX SWDP1X2G8 111 9.4 26 5 261 5 7/29/2008 XX SWDP1X2II 285 50 3.6 152 7.4 14.4 10/28/2008 70 16.5 XX SWDP1X326 442 4/14/2009 223 8.6 13.7 XX SWDP1X36A 368 6 50 1.7 111 6.7 18.1 7/7/2009 XX SWDP1X3E5 319 25 0.8 6.3 7.8 10/27/2009 186 335 55 3.1 4/28/2010 XX SWDP1X3J4 201 6.6 10.9 5 25 3.9 200 5 7/20/2010 XX SWIDP1X428 106 8.2 26.5 35 0.5 419 6 10/19/2010 XX SWDP1X45C 197 7.3 8.6 374 6 80 3.6 4/26/2011 XX SWIDP1X49D 139 6.6 12.6 328 63 0 XX SWOP1X4D6 7.6 5 27.1 7/19/2011 154 324 35 0 XX SWDP1X4H6 117 7.7 14.2 10/25/2011 6.8 466 6 75 XX SWDP1X51G 107 6.9 12.8 4/24/2012 7.5 395 80 7/24/2012 XX SWDP1X58F 167 7.4 25.6 477 6 25 2.1 SWDP1X5D8 66 7.2 11.7 10/23/2012 XX 3.1 236 20 7.3 6 4/23/2013 XX SWDP1X5HH 195 12.1 6.7 285 6 30 0.7 7/30/2013 XX SWDP1X642 82 26.8 311 6 20 1.6 10/29/2013 XX SWDP1X66F 7.4 7.4 204 SW-DP5 236 20 2.6 XX SWDP5X801 7.6 12.8 4/23/2013 162 50 1.5 241 6 XX SWDP5X65H 150 8 30.7 7/30/2013 10/29/2013 XX SWDP5X686 P D D D D D D SW-DP6 10/27/2009 XX SWDP8X3G6 15 3.7 148 63 7.5 385 5 369 6 50 4.2 7.3 4/28/2010 XX SWIDP6X3U5 271 6.5 280 90 7.9 7/20/2010 XX SWDP6X429 260 7 27 5 35 2.6 10/19/2010 XX SWDP6X45D 396 6 297 7.4 88 365 6 6.8 4/26/2011 XX SWDP6X49E 192 6.3 12.8 7/19/2011 XX SWDP6X4DC 346 6 75 0 427 75 28 4 6 80 0.5 0.0022 10/25/2011 XX SW0P6X4H7 212 307 7.5 12.7 100 2.5 4/24/2012 XX SWDP6X51H 172 6.7 15.1 547 6

| REPORT | | ARED: 2/11/2014 FOR: Juniper Ri | | | | | | | MARY REPO | | | | | Page 37 of 37 SEVEE & MAHER ENGINEERS, INC 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|------------|------|------------------------------------|-------------------------|----------------|-----------------|----------------------|--------------------------|------------|--------------|---------------------|-------------------------------|-------------------|-----------|--|
| (SW-DP6 | 5) | | Specific Conductance | рН | Temperature | Water Level Depth | Water Level Elevation | Well Depth | Corrected Eh | Dissolved Oxygen | Alkalinity (CaCO3) (field) | Turbidity (field) | Flow Rate | |
| Date | Туре | Sample ID | µmhos/cm @25°C | Standard Units | Degrees Celcius | Feet | Feet | Feet | mV | mg/L | mg/L | NTU | cís | |
| 7/24/2012 | XX | SWDP6X56G | 97 | 7.2 | 25.1 | | | | 396 | 5 | 40 | 12 | 0.0045 | |
| 10/23/2012 | XX | SWDP6X5D7 | 65 | 7.5 | 11.7 | | | | 439 | 5 | 15 | 5.1 | | |
| 4/23/2013 | ×× | SWDP6X5HI | 62 | 6.6 | 15.2 | | | | 235 | 6 | 15 | 3.2 | | |
| 7/30/2013 | XX | SWDP6X643 | 87 | 7 | 27.8 | | | | 313 | 6 | 25 | 8.0 | | |
| 10/29/2013 | XX | SWDP6X66G | 113 | 7.3 | 8.3 | | 1 | | 333 | 5 | 25 | 0.6 | | |

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
- A6 Approximate value.
- D The sampling location was dry.
- DE Decommissioned Location
- 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.
- 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
- 1- The sampling location yielded insufficient quantity to collect a sample.
- L Could not locate sampling location.

Page 1 of 26 SUMMARY REPORT REPORT PREPARED: 2/11/2014 12:44 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Inorganics (part 1 of 1) CUMBERLAND CENTER, ME 04021 Total Bromide Organic Carbon Tarmin & Nitrate (N) Phosphate Sulfate Total Dissolved Total Kieldahl **Biochemical** Ammonia (N) Bicarbonate Chloride Chemical (DP-4) Suspended Lignins (Tamic (CaCO3) Phosphorus Solids Oxygen Nitrogen Oxygen Solids Acid) Demand Demand mg/L mg/L mg/L mg/L me/L mg/L mg/L mg/L mg/Lmg/L mg/L mg/L Type Sample ID mg/L mg/L DP-4 8.1 18 575 0.2 U 113 0.1 U 301 72.9 18 1/30/2004 XX GWDP4X039 84 16 0.1 U 60.8 433 6.2 1.1 20.4 0.1 U 269 XX GWXXXXXXX 0.63 5/6/2004 6 0.55 24 253 3.5 XX GWXXXX041 190 7.5 3 U 0.1 U 7/26/2004 0.26 0.1 U 4 U 0.37 5.5 5 J 0.1 U 14.6 248 3.3 GWXXXX07H 0.1 U 182 10/26/2004 XX 0.39 262 2.9 5 0.4 9.7 5 J 0.1 U 0.1 U 203 5.5 5/9/2005 XX GWXXXX13I 0.3 U 2.5 26 0.24 5.7 235 191 6.6 61 0.1 U 8/1/2005 XX GWXXXXX176 0.3 U 0.1 U 7.8 229 2.8 11 0.4 10 0.1 U GWXXXX1A4 0.74 0.1 U 175 5.9 9/20/2005 XX 2.6 258 0.23 7.9 6 J 0.2 J7.3 189 GWXXXX1EJ 0.590.1 U 150 5/22/2006 XX 2.2 192 0.2 U 9 J 0.2 J 6.5 200 145 9.6 GWXXXXX1HG 0.1 U 7/24/2006 XX 1.1 2.5 40 0.2 U 191 4 J 0 1 U 7 0.1 U 140 14.2 9/11/2006 XX GWXXXX209 0.69 391 0.35 210 6.3 14.1 8 J 0.1 J 7 GWXXXX23G 0.69 0.1 U 138 XX 5/14/2007 223 4.1 363 0.2 U 11.5 0.10 138 19.3 17 0.1 U 7/23/2007 XX GWXXXXX280 0.41137 0.2 Ų 3.1 13.1 234 0.1 U 0.1 U 132 21.2 5 J 9/10/2007 XX GWXXXX2AA 0.3 U 2.2 443 0.21 0.1 U 12.7 237 XX GWXXXX2E4 20.6 ЗJ 0.1 U 141 0.92 5/19/2008 157 0.21 3.5 132 229 32,2 7 J 0.2 J7/29/2008 XX GWXXXX2H8 0.5 U 0.1 U 126 300 2.2 394 0.2 U 10/27/2008 XX GWXXXX2JI 94 57 3 U 0.1 U 11.8 0.1 U 0.5111084 0.21 зŪ 0.2 J 12.5 292 0.1 U 109 49.8 4/13/2009 XX GWXXXX36 110 0.21 274 2.7 116 15.9 0.1 J 104 50.7 3 U 0.1 U XX GWXXXXXXX 20 7/6/2009 254 0.2 U 12.3 225 3 16 0.1 U GWXXXXX3F5 0.1 U 118 21 0.47 10/26/2009 ХX 1490 0.2 U 1.8 J 3 Ų 0.1 U 11.6 185 14.9 XX GWXXXXX404 0.31 0.1 U 104 4/26/2010 37 0.2 U 12.1 170 1.3 J 109 14.7 3↓ 0.1 U GWXXXXX43B 0.1 U XX 0.347/19/2010 33 0.2 U 1.3 J 6 J 0.1 U 10.7 165 7.2 0.1 U 105 10/18/2010 XX GWXXXX46C 0.3 U 114 0.2 U 166 0.9 J30 0.1 U 8.5 XX GWXXXX4AD 0.3 U 0.1 U 102 7.6 4/25/2011 46 0.2 U 10.1 172 1.4 J XX GWXXXX4EB 0.1 U 106 8.3 3 U 0.1 U 7/18/201 0.3 U 5 0.2 U 1.4 3 U 01 U 9.7 166 XX GWXXXX4I6 9.9 10/24/2011 0.3 U 0.1 U 104 2 U 21 0.2 U 13 198 XX GWXXXX52G 25.4 10 U 03U 0.3 0.5 U 93 4/25/2012 0.2 U 182 2 U 22 14.4 77 26.9 10 U 0.3 U 0.5 U 7/25/2012 XX GWXXXX57F 0.4 34 0.2 U 196 2 U XX GWXXXX5E6 15.3 0.5 U 78 31.6 10 Ų 0.3 U 0.3110/24/2012 2 Ų 75 0.2 U 195 0.12 80 30.8 10 U 0.3 U 19.3 0.5 U 4/24/2013 XX GWXXXX5iH 0.349LF-COMP 0.7 U 0.2 U 4 U 233 3 U 0.1 J 0.02 J7.2 7/19/2011 XX LFXXXX4F1 0.1 U 175 54 4 U 0.2 U 2 U 10 U 03U 0.04 U 6 195 4/24/2012 XX LFXXXX53B 143 0.5 U LF-UD-1 0.5 U 4 U 0.2 U 0.3 0.02 J 5.8 151 2.7 3 U 7/28/2004 XX LFUD1X05E 0.1 U 118 0.2 U 130 2.2 4 U 10/27/2004 XX LFUD1X076 115 2.5 3 U 0.3 0.02 J4.9 0.1 U 0.2 U 7.7 4 IJ 0.01 J 162 3.9 3 U 0.3 0.1 U 115 5/11/2005 XX LFUD1X137 4 U 0.2 U 154 0.8 J 0.2 J 0.01 U 4.4 7/27/2005 XX LFUD1X16F 0.1 U 113 2.6 3 U 4 U 0.2 U 155 1.1 J 0.1 U 1**1**0 3.3 3 U 0.4 0.01 J 8 9/21/2005 XX LFUD1X19D 4 U 0.2 U 4 J 0.01 J 11 170 3.8 5.3 0.6 5/24/2006 XX LFUD1X1E8 0.1 U 118 4 U 0.2 U 7.6 151 1.6 3.6 4 J 0.4 0.01 J LFUD1X1H5 0.1 U 117 7/25/2006 XX 1 J 0.2 U 0.03 J169 0.1 U 130 3.3 3 J 0.4 9/11/2006 XX LFUD1X1JI 4 U 0.21 2.3 0.1 J 0.01 J 6.7 181 LFUD1X235 0.1 U 148 3.8 3 Ų XX 5/16/2007 190 6.4 4 U 0.2 U 4 J 0.2 J 0.02 J 6 0.1 U 157 3.3 7/25/2007 XX LFUD1X279 XX LFUD1X29J 9/12/2007 18J 4 U 0.2 U 7.6 143 3.7 0.3 0.01 J 178 LFUD1X2DD 0.1 U 3 U 5/20/2008 ХX 1.7 J 4 U 0.2 U0.01 J 7.4 218 164 0.3 XX LFUD1X2GH 2.3 14 7/28/2008 0.1 U 0.2 U 9 202 1.1 J 4 U

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0.3

0.01 J

3 U

0.1 U

155

1.9

10/28/2008 XX LFU01X2J7

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | | | | | | | | • | • | • | | | | | CUMB | RLAND CENTER, ME (| 04021 |
|------------|-----------------|-----------|----------------------------|---------------------------------|--------------|------------------------|----------|------------------------------|-------------|-------------------------|-------------|---------------------------|---------------|----------------|------------------------------|--------------------------------------|-------|
| (LF-UD-1 |) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 4/15/2009 | ×x | LFUD1X32F | | | 0.1 U | 175 | 4 | 9 J | 0.3 | 0.01 ป | 6.4 | 211 | | 1.8 J | 4 U | 0.20 | |
| 7/8/2009 | | LFUD1X38J | h | 1 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 10/27/2009 | | LFUD1X3EE | † <i></i> | | H2 | | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 4/27/2010 | | LFUD1X3JD | 1 | | 0.1 U | 174 | 3.5 | 3 J | 0.3 | 0.02 J | 6.6 | 191 | | 2.3 | 4 U | 0.2 U | |
| 7/20/2010 | | LFUD1X42H | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 10/19/2010 | . — | LFUD1X461 | | ļ | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 4/26/2011 | xx | LFUD1X4A2 | | | 0.1 U | 149 | 7.7 | 3 U | 0.2 J | 0.02 J | 6.9 | 211 | | 1.6 J | 4 U | 0.20 | |
| 7/19/2011 | xx ⁻ | LFUD1X4E0 | | 1 | 0.1 J | 171 | 5.1 | 7.3 | 0.1 J | 0.02 J | 10 | 232 | | 0.7 J | . 8 | 0.2 U | |
| 10/25/2011 | ХX | LFUD1X4HF | † — — — | | 0.1 U | 173 | 3.3 | 3 U | 0.5 | 0.03 J | 8.2 | 205 | | 1 J | 40 | 1 U | |
| 4/24/2012 | ХX | LFUD1X525 | | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | , H2 | | H2 | H2 | H2 | |
| 7/24/2012 | XX | LFUD1X574 | | | 0.5 U | 168 | 3 | 10 U | 0.3 | 0.05 | 4.1 | 208 | | 2.0 | 10 | 0.2 U | |
| 10/23/2012 | XX | LFUD1X50F | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 4/23/2013 | XX | LFUD1X518 | Ţ. — . — . — | | 0.5 U | 164 | 11.5 | 10 U | 0.3 U | 0.04 U | 7.8 | 230 | 0.16 | 2 U | 4 | 0.2 U | |
| 7/30/2013 | XX | LFUD1X64B | 1 | | | 156 | 22.5 | 10 U | 04 | 0.04 U | 9.9 | 232 | 0.14 | 2 U | 4 U | 0.2 U | |
| 10/29/2013 | XX | LFUD1X674 | | i i | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | |
| LF-UD | .2 | | • | | • | | | | | | | | | | | | |
| 7/28/2004 | | LFUD2X05F | | <u> </u> | 0.10 | 113 | 2.7 | 3 U | 0.4 | 0.02 J | 3.5 | 138 | | 0.8 J | 4 U | 0.2 U | |
| 10/27/2004 | | LFUD2X077 | | | 0.1 U | 113 | 2.7 | 3 U | 0.4 | 0.02 J | 3.1 | 133 | | 1.1 J | 4 U | 0.2 U | |
| 5/11/2005 | | LFUD2X138 | | | 0.1 U | 92 | 2.4 | 30 | 0.3 | 0.02 J | 2.3 | 132 | | 2 | 4 U | 0.2 U | |
| 7/27/2005 | | LFUD2X16G | | | 0.1 U | 1 1 6 | 2.4 | 3 U | 0.3 | 0.01 J | 2.8 | 145 | | 0.9 J | 4 U | 0.2 U | |
| 9/21/2005 | | LFUD2X19E | | | 0.1 U | 112 | 2.7 | 3 U | 0.3 | 0.02 J | 4.1 | 143 | | 0.7 J | 4 U | 0.2 U | |
| 5/24/2006 | \div $-$ | LFUD2X1E9 | ļ· | T | 0.1 U | 105 | 2.9 | 3 J | 0.4 | 0.02 J | 3.8 | 145 | | 12 | 4 U | 0.2 U | |
| 7/25/2006 | XX | LFUD2X1H6 | | T | 0.1 U | 107 | 2.1 | 3 U | 0.3 | 0.02 J | 2.7 | 139 | | 1,2 J | 4 U | 0.2 U | |
| 9/11/2006 | XX | LFUD2X1JJ | 1 | | 0.1 U | 155 | 7 | 3 U | 0.3 | 0.02 J | 15.2 | 208 | | 2.4 | 4 U | 0.2 U | |
| 5/16/2007 | XX | LFUD2X236 | 1 | ! | 0.1 U | 123 | 2.1 | 3∪ | 0.1 U | 0.01 J | 22 | 160 | | 1 J | 40 | 0.2 U | |
| 7/25/2007 | XX | LFUD2X27A | 1 | 1 | 0.1 U | 125 | 3.2 | 61 | 0.2 J | 0.02 J | 3 | 158 | | 1.4 J | 4 U | 0.2 U | |
| 9/12/2007 | XX | LFU02X2A0 | | | 0.1 U | 120 | 3.1 | 30 | 0.2 J | 0.01 J | 3.3 | 176 | | 0.6 7 | 4 U | 0.2 U | |
| 5/20/2009 | XX | LFUD2X2DE | | | 0.1 U | 125 | 2.5 | 30 | 0.3 | 0.02 J | 37 | 157 | | 2 | 40 | 0.2 U | |
| 7/28/2005 | XX | LFUD2X2GI | <u> </u> | | 0.1 U | 134 | 2.3 | 7 J | 0.2 J | 0.01 J | 3.8 | . 186 | | 13J | 4.0 | 0.2 U | |
| 10/29/2008 | XX | LFUD2X2JB | | | 0.1 U | 123 | 1.7 | 3 J | 0.3 | 0.01J | 3.5 | 159 | | 0.8 J | 4 U | 0.2 U | — |
| 4/15/2009 | XX | LFUD2X32G | | | 0.1 U | 123 | 6 | 6 J | 02J | 0 01 U | 5.4 | 171 | | 1.7 J | 4 U | 0.2 U | |
| 7/8/2009 | XX | LFUD2X370 | | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 10/27/2009 | XX | LFUD2X3EF | <u> </u> | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 4/27/2010 | XX | LFUD2X3JE | | | 0.1 U | 134 | 3.8 | 4,J | 0.2 1 | 0.02 J | 3.8 | 152 | | 1.9 J | 4 U | 0.2 U | |
| 7/20/2010 | | LFUD2X42I | <u> </u> | <u> </u> | ! 0.1 U | 185 | 2.4 | 4 J | 0.3 | 0.66 | 3.2 | 229 | | 0.7 U | 4 U | 0.2 U | |
| 10/19/2010 | | ĻFUD2X462 | <u> </u> | | 0.1 U | 213 | 3.2 | 3 U | 0.1 J | 0.05 | 17.5 | 290 | | 0.7 U | 39 | 0.2 U - | |
| 4/26/2011 | - | LFUD2X4A3 | | <u> </u> | 0.1 U | 117 | 6.6 | 3 U | 0.1 J | 0.02 J | 3.1 | 172 | | 07U | 40 | 0.2 U | |
| 7/19/2011 | - | LFUD2X4E1 | <u> </u> | | <u>0.1 U</u> | 135 | 5.7 | 3 J | 0.1 J | 0.02 J | 4.4 | 191 | | 070 | 4 U | | |
| 10/25/201 | | LFUD2X4HG | . | <u> </u> | 010 | 133 | 7,1 | 3 U | 0.2 J | 0.02 J | 3.3 | 173 | | 0.7 J | 36 H2 | 0.3 H2 | |
| 4/24/2012 | | LFUD2X526 | | | <u>H2</u> | H2 . | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | 4 U | 0.2 U | |
| 7/24/2010 | | LFUD2X575 | - | | 0.5 U | 135 | 9.5 | 10 U | 0.3 U | 0.04 U | 2 U | 188 | | 2U | 40 | 0.2 U | |
| 10/23/2012 | | LFUD2X5DG | - | | 0.5 U | 133 | 12.6 | 10 U | 0.3.0 | 0.04 U | 5.4 | 211 | 0.40 | + 20 20 | 40 | 0.2 U | |
| 4/23/2013 | | LFUD2X5I7 | <u> </u> | + | 0.5 U | 134 | 18.5 | 10 U | 0.3 U | 0.04 U | 4.6 | 207 | 0.19 | . 20 | 4U | | |
| 7/30/2013 | | LFUD2X64C | | ļ | 1 | 127 | 35.2 | 10 U | 0.4 | 0.04 U 0.04 U | 9.9 | 208 | 0.12 | 2 U | 12 | 0.2 U | |
| | | LFUD2X675 | <u></u> | <u>i</u> | 1 | 162 | 15.3 | 10 U | 0.4 | U.04 U | | 220 | 0.10 | l 20 | 1 12 | 1_ 0.20 | |
| LF-UD | | | | | | ·· | | · ¬ | r 2 | | T | 1 | - | | T | 0.24 | |
| 5/16/200 | | LFUD3X246 | <u> </u> | | 0.1 U | 201 | 2.4 | 3 U | 0,1,1 | 0.01 J | 8.3 F6 | 249 F6 | · · | 4.B | 4 U F6 | | |
| 7/25/200 | 7 XX | LFUD3X288 | L | . J | F6 | F6 | . F6 | . F6 | F6 | , <u>F6</u> | | | L | . ; | IFO | | |

FOR: .luniper Ridge Landfill

SUMMARY REPORT

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SEVEE & MAHER ENGINEERS, INC.

| | | FOR: Juniper Ri | idge Landfill | | | | | Inorga | nics (part 1 | of 1) | • | | | | 4 BLAN | CHARD ROAD ERLAND CENTER | |
|-------------------------|-------|------------------------|--|--|-------------|------------------------|----------|------------------------------|--------------|-------------------------|------------|---------------------------|-----------|----------------|------------------------------|--------------------------------------|--|
| (LF-UD-3 | (A,B) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissorved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | m g/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 9/12/2007 | XX | LFUD3X2AI | | | F8 | F6 | F6 | F6 | F6 | F6 | F6 | F8 | | F6 | ·F6 | F6 | |
| 5/20/2008 | | LFUD3X2EE | | | 0.1 U | 130 | 6.5 | 9.1 | 1.3 | 0.01 J | 16.3 | 163 | | 4.3 | 4 U | 0.2 U | |
| 7/28/2008 | | LFUD3X2HG | | · · · | Ð | D | D | D | D | D | D | a | | D | D | D | |
| 10/29/2008 | - | LFUD3X306 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 · | | F6 | F6 | F6 | |
| 4/15/2009 | ХX | LFXXXX33F | | 1 | 0.1 U | 123 | 10 | 10 | 0.7 | 0.01 U | 13.3 | 263 | | 2.6 | 4 U | 0.2 U | |
| 7/8/2009 | XX | LFXXXXX37I | 1 | T- · · · | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 10/27/2009 | XX | LFXXXX3FC | 1 | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | HIZ" | |
| 4/27/2010 | XX | LFXXXXX40C | | | 0.1 U | 181 | 12.6 | 3 U | 0.3 | 0,01 J | 13.6 | 236 | | 4 | 4 U | 0.2 U | |
| 7/20/2010 | | LFXXXXX43G | | | F6 | F6 | F6 . | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | | |
| 10/19/2010 | XX | LFXXXX46J | <u> </u> | | F6 | F6 | F6 | F6 | F6 | F6 | F 6 | F6 | | F6 | F6 | F6 | |
| 4/26/2011 | | LFXXXX4B1 | | i | 0.1 U | 148 | 7.4 | 3 U | 0.6 | 0.01 J | 13.4 | 229 | <u> </u> | 1.2 J | 40 | 0.2 U | |
| 7/19/2011 | - | LFXXXXAEJ | | <u> </u> | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | <u>H2</u> | H2 | H2 | |
| 10/25/2011 | | LFXXXX4IC | | <u> </u> | F 6 | F6 | F6 | F6 | . F6 | F6 | F6 | F6 | <u> </u> | F6 | F6 | F6 | |
| 4/24/2012 | _ | LFXXXX534 | | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 7/24/2012 | | LFXXXX5B1 | ļ. | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 10/23/2012 | | LFXXXX5EC | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | FB. | F6 F6 | F6 | ! i |
| 4/23/2013 | | LFXXXX5J5 | ļ——— | | F6 | F6 | F6 | F6 | F6 | . F.6 | F6 _ | F6 | <u>F6</u> | - F6 | - <u>F6</u> | F6 | : |
| 7/30/2013 | | LFXXXX85A | | ļ | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 F6 | | <u>F6</u> | F6 | 1 |
| 10/29/2013 | | LFXXXX87J | | | l | F6 | F6 | F6 | F6 | F6 | 1 | | | | 10 | | L |
| LF-UD- | | | | | | | _ | | ., | | | | | , | | | |
| | | LFXXXX34A | | | 0.1 U | 136 | 9 | : 6J | 0.6 | 0.01 U | 14.8 | 206 | | 5.1 | 5 | 0.2 U | · |
| 7/8/2009 | | LFXXXX380 | | ļ | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 | |
| 10/27/2009 | | LFXXXX3FE | <u> </u> | ļ | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | H2 | H2 | H2 F6 | |
| | | LFXXXX40E | | | F6 | F6 | F6 | . F6 | F6 | F6 | F6 | . F6 | | F6 | F6 . | | |
| 7/20/2010 | ,,,, | LFXXXX43I | | | F6 | F6 | F6 | . F6 | F6 | F6 | F6 | . F6 | | F6 | F6. | F6 | |
| 10/19/2010 | 701 | LFXXXXA71 | | | F6 | F6 | F6 | . F6 | F6 | F6 F12 | F6 | F6 F12 | | F12 | F12 | F12 | |
| 4/26/2011 | | LFXXXX4B3 | <u> </u> | | F12 | F12 H2 | F12 | F12 | H2 | H2 | H2 | 12 H2 | | H2 | H2 | H2 | |
| 7/19/2011 | _ | LFXXXXHG2 LFXXXX4GA | <u> </u> | | H2 F6 | F6 | F6 | H2 F6 | F6 | F6 | F6 | | | | F6 | | <u></u> |
| 10/25/2011 4/24/2012 | | LFXXXX536 | | | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | | H2 | H2 | | |
| 7/24/2012 | | LFXXXX582 | | | 0.5 U | 207 | 3.1 | 10 U | 0.3 U | 0.04 U | 20 | 263 | | 2 U | 4 U | 0.2 U | ··· |
| 10/23/2012 | - | LFXXXX5CA | · · · · · · · · · · · · · · · · · · · · | | 0.5 U | 180 | 8.1 | 10 U | 0.3 U | 0.04 U | 7.9 | 252 | | 2 U | 4 U | 0.2 U | |
| 4/23/2012 | | UFXXXX5J8 | · | | 0.5 U | 166 | 11.8 | 10 U | 0.3 U | 0.04 U | 8.8 | 235 | 0.14 | 2 U | 4 Ų | | <u> </u> |
| 7/30/2013 | | LFXXXX65B | | · | 0.00 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | . F6 | F6 | |
| 10/29/2013 | | LFXXXX680 | | | | 168 | 13.2 | 10 U | 0.4 | 0.04 U | 11,1 | 234 | D.1 U | 2 U | 4 U | 0.2 U | |
| LF-UD | • | | | | | | | 111.7 | | | · | · · | | | | · | |
| | | LFXXXX40F | Т | | 0.1 U | 153 | 3.3 | 3 J | 0.7 | 0.01 J | 16.1 | 197 | <u> </u> | 1.4 J | 4 U | 0.2 U | |
| LF-UD | . — | | | <u>+</u> | J | | | | <u> </u> | | • | | | | | | - |
| 7/20/2010 | | LFXXXX43J | Ţ | Τ | 0.10 | 180 | 6.2 | 5 J | 1.1 | 0.03 J | 22 | 272 | | 2.5 | 7 | 0.2 U | |
| 10/19/2010 | | LFXXXX472 | T | | 0.1 U | 184 | 3.6 | 3 J | 0.2 J | 0.06 | 19.6 | 277 | | 1.6 J | 42 | 0.2 U | |
| 4/26/2011 | XX | LFXXXX4B4 | - | | 0.1 U | 224 | 2.7 | 3 U | 0.2 J | 0.01 J | 15.9 | 287 | | 1.5 J | 4 U | 0.2 U | |
| 7/19/2011 | XX | LFXXXX4F2 | T | T | 0.1 U | 238 | 2.5 | 4 J | 0.1 J | 0.02 J | 15.3 | 293 | | 1.9 J | 14 | 0.2 U | |
| 10/25/2011 | XX | LFXXXX4G7 | | | 0.1 U | 224 | 32 | 3 ∪ | 0.2 J | 0.16 | 16.6 | 332 | | 2.5 | 154 | 3.2 | |
| 4/24/2012 | 2 XX | LFXXXX537 | | | 0.5 U | 232 | 3.2 | 10 U | 0.3 U | 0.05 | 14.9 | 272 | | 2 U | 26 | 0.2 U | |
| 7/24/2012 | | LFXXXX584 | | L | 0.5 U | 232 | 2.5 | 10 U | 0.3 U | 0.04 U | 11,9 | 279 | | 2 U | 4 U | 0.2 U | ļ |
| 10/23/2012 | | LFXXXX5C7 | | II. | 0.5 U | 201 | 3.3 |] 10 ນ | 0.3 U | 0.07 | 14,6 | 268 | | 2 U | 128 | 0.2 U | |
| 4/23/2013 | | LFXXXX5J7 | | | 0.5 U | 157 | 3.6 | 10 U | 0.3 U | 0.04 U | 11.5 | 200 | 0.11 | 2 ∪ | 8 | . 0.2 U | <u> </u> |
| 7/30/2013 | 3 XX | LFXXXX65C | | T | | 163 | 3.4 | 10 U | 0.3 U | 0.04 U | 10.8 | 202 | 01 U | 2 U | 4 U | 02U | l |

Page 4 of 26 REPORT PREPARED: 2/11/2014 12:44 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Inorganics (part 1 of 1) **CUMBERLAND CENTER, ME 04021** Total Tannin & Total Dissolved Bromide Organic Carbon Total Kjeldahl Biochemical Ammonia (N) Bicarbonate Chloride Chemical Nitrate (N) Phosphate Sulface (LF-UD-5and6) Suspended Lignins (Tannic Oxygen Solids Oxygen (CaCO3) Phosphorus Nirrogen Solids Acid) Demand mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample ID 0.2 U 0.1 U 2 U 7 10/29/2013 XX LFXXXX661 200 3.3 10 U 0.4 0.04 U 11.8 244 LF-UD-6 7 J 0.02 J 30.8 366 3.6 4 U 0.2 U 4/26/2011 XX LFUD6X4B8 0.1 U 3.6 102 0.2 U 7/19/2011 XX LFU06X4F4 0.1 U 272 2.4 3 U 8.0 0.17 24.6 368 3.5 4 U 8 7 0.4 0.01 J 14.8 344 0.33 XX LFUD6X4G9 0.1 U 307 2.1 10/25/2011 2 U 4 U 0.2 U XX LFUD6X539 27 10 U 0.3 0.04 U 10.6 309 0.5 U 278 4/24/2012 0.2 U 2.8 4 U 326 3.1 10 U 0.3 U 0.04 U 2 Џ 414 7/24/2012 XX LFUD6X586 0.5 U 3.1 4 U 0.2 U 10/23/2012 XX LFUD8X5C9 0.04 U 107 563 0.5 U 359 11.6 10 0.5 0.2 U 2 U 4 U 8.9 10 U 0.6 0.05 84.9 357 0.1 4/23/2013 XX LFUD6X5J9 0.5 U 222 0.2 U 0.04 U 143 554 0.1 U 3.3 4 U 338 18.2 10 U 1 7/30/2013 XX LFUD8X65E 0.2 U 552 3.1 4 U 1.2 0.04 U 116 0.12 343 14.1 14 10/29/2013 XX LFUD6X683 LF-UD-7 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 4/24/2012 XX LFUD7X53A F6 F6 F6 F6 F6 F6 F6 F6 F6 7/24/2012 XX LFXXXX587 F6 F6 F6 F6 F6 F6 F6 F6 10/23/2012 XX LFXXXX5EF F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/23/2013 XX LFUD7X5JA F6 F6 F6 F6 FĠ F6 F6 F6 F6 7/30/2013 XX LFUD7X65F F6 F6 F6 F6 F6 10/29/2013 XX LFUD7X684 F6 F6 F6 F6 F6 F6 F6 LF-UD-8 2 U 4 U 0.2 U 195 0.1 U 152 3.5 10 U 0,9 0.04 U 7.3 4/23/2013 XX LFUDBX5JD 0.5 U 2 U 4 U 0.2 U 1.4 216 0.1 U 7/30/2013 XX LFUDBX65G 172 4 10 U 0.04 U 9.6 8.2 222 0.1 U 2 U 4 U 0.2 U 10 U 0.8 0.04 U 10/29/2013: XX LFUD8X685 160 LP-COMP 5.5 0.2 U 0.02 J 117 459 4 U 10/27/2004 XX LPCOMPHD2 14 0.1 U 225 31.4 2.3 LP-LD-1 0.02 J 98.6 578 34 0.2 U 7/28/2004 XX LPLD1X05 0.1 U 286 39.1 18 7.5 141 0.46 45.8 5.4 20 3,1 0.14 306 10/27/2004 XX LPLD1X07A 0.1 U 182 16.2 4 U 0.59 5/11/2005 XX LPLD1X13B 0.1 U 32 0.7 J 7 J 0.1 U 0.05 0.6 U 73 4 0.01 U 247 2.1 4 U 0.2 U 0.7 10.9 7/27/2005 XX LPLD1X16J 0.1 U 192 3.7 43 13 10.7 9/21/2005 XX LPLD1X19H 29 2.4 0.09 42.2 571 0.3 J316 96.4 0.28 2.1 0.02 J23.2 172 4.7 4 U 5/24/2006 XX LPLD1X1EC 12.2 11 0.1 U 87 0.2 U 4.5 4 U 370 7/25/2006 XX LPLD1X1H9 0.1 U 230 155 11 4 0.01 J 42.4 0.2 U 9/11/2006 XX LPLD1X202 13 5 0.01 J 62.8 492 6.3 4 U 0.1 J303 257 4 U 0.37 0.01 U 28.1 312 5.4 200 13.7 12 1.7 5/16/2007 XX LPLD1X239 0.2 J4 U 0.2 U 6.4 0.1 U 316 24.5 18 1 0.05 52.9 486 7/25/2007 XX LPLD1X270 34.1 9.7 21 0.35 9/12/2007 XX LPL01X2A3 29 0.1 U 0.18 509 0.1 J 373 25.1 0.54 9 J 0.04 2.3 75 5.2 4 U 5/20/2008 XX LPLD1X2DH 0.1 U 54 1.2 0.8 4.8 4 U 0.55 13 0.9 0.05 3 182 7/28/2008 XX LPLD1X2H1 0.1 U 90 1.4 44.7 4 U 0.43 17 196 10/29/2008 XX LPLD1X2JB 2.4 0.9 0.07 5.7 0.1 U 145 0.20 35.4 371 3.8 4 U LPLD1X32J 0.1 U 209 24.2 11 4 0.01 U 4/15/2009 XX 85 2 9 0.2 U 7/8/2009 XX LPLD1X373 0.1 U 32 13.2 4 J Q1J 0.12 6 4 U 0.2 U 10/27/2009 XX LPLD1X3EI 0.03 J 49 97 3.8 0.1 U 43 10.1 4.1 0.4 LP-UD-1 Ď 7/28/2004 XX LPUD1X05G D D D D D H2 H2 H2 Н2 H2 H2 H2 H2 H2 H2LPUD1X078 H2 10/27/2004 XX Đ D D 5/11/2005 XX LPUD1X139 D D D D D D D

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Page 5 of 26 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| FÖR: Juniper | Ridge Landfill | | | i | | Inorga | ınics (part 1 | of 1) | | | | | 4 BLAN CUMBE | CHARD ROAD RLAND CENTER | ME 04021 |
|---|----------------------------|--|-------------------------------------|------------------------|-------------|------------------------------|----------------|-------------------------|-------------|---------------------------|--|----------------|------------------------------|--------------------------------------|----------|
| (LP-UD-1) | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date Type Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 7/27/2005 XX LPUD1X16H | | | n | D | D | 1 0 | D | D | D | D | | D | D | D | |
| 9/21/2005 XX LPUD1X19F | | | -† · · · <u>~</u> | D | D | D | D | D | Ď | D | | D | D | D | |
| 5/24/2006 XX LPUD1X1EA | | | D | D | D | D | D | D | D | D | | D | D | D | |
| 7/26/2006 XX LPUD1X1H7 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 9/11/2006 XX LPU01X200 | | | D | D | D | D | D | D | D | D | | D | D | D | |
| 5/16/2007 XX LPUD1X237 | | <u> </u> | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 7/25/2007 XX LPUD1X278 | | 1 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 9/12/2007 XX LPUD1X2A1 | | 1 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 5/20/2008 XX LPUD1X2DF | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F8 | . <u>F6</u> | |
| 7/28/2008 XX LPUD1X2GJ | | | D | D | D | .D | D | D | . <u>D</u> | D | | D | D | D | ., |
| 10/29/2008 XX LPUD1X2J9 | | | . F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 4/15/2009 XX LPUD1X32H | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 7/8/2009 XX LPUD1X371 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 10/27/2009 XX LPUD1X3EG | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | _ |
| 4/27/2010 XX LPUD1X3JF | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 F6 | _ |
| 7/20/2010 XX LPUD1X42J | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | | |
| 10/19/2010 XX LPUD1X463 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 4/26/2011 XX LPUD1X4A4 | | | F6 | F6 | F6 | F6 | F6 | .F6 | F6 | F6 | | F6 | F6 | | |
| 7/19/2011 XX LPUD1X4E2 | | 1 | F6 | F6 | F6_ | F6 | F6 | F6 | F6 | F6 | | F6 | , F6 | F6 | |
| 10/25/2011 XX LPUD1X4HH | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 | |
| 4/24/2012 XX LPUD1X527 | | | F6 | F 6 | F6 | F6 | F6 | F6 | F6 | F6 | | F6 | F6 | F6 F6 | |
| 7/24/2012 XX LPUD1X576 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | . F6 | F6 | - F6 | |
| 10/23/2012 XX LPUD1X50H | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 - | F6 | <u>F6</u> - | F6 | |
| 4/23/2013 XX LPUD1X518 | | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | F6 . | F6 | |
| 7/30/2013 XX LPUD1X64D | | | ļ | <u> </u> | F6 | F6 | F6 | F6 | F6 | : F6 | F6 | F6 | F6 | F6 | |
| 10/29/2013 XX LPUD1X676 | | | | F6 | F6 | F6 | F6 | F6 | ⊥ F6 | ; F6 | L 📆 – | 1 10 | | 1 10 | 1 |
| LP-UD-2 | | | · · · · · · · · · · · · · · · · · · | | ·T | | | 1 42. 4 | | 200 | | 2.9 | 40 | 0.2 U |] |
| 7/28/2004 XX LPU02X05H | | | 0.10 | 178 | 15.7 | 8 J | 0.7 | 0.01.1 | 58.3 116 | 300 455 | <u> </u> | 6.3 | 40 | 0.2 U | |
| 10/27/2004 XX LPUD2X079 | | | 0.1 U | 228 | 31.1 | 14 | 23 | 0.02 J | 34 3 | 258 | | 3.1 | 40 | 0.2 U | |
| 5/11/2005 XX LPUD2X13A | | | 0 1 U | 155 | 9.9 | 3 J | 0.7 | 0.01 J | 21.4 | 236 | | + 3.1 | 4U | 0.2 U | |
| 7/27/2005 XX LPUD2X16 | | | 0.1 U | 168 | 8.7 | 3 U | 0.4 | 0.01 U | 22.4 | 246 | | 143 | - 4U | 0.2 U | |
| 9/21/2005 XX UPUD2X19G | | | 0.1 U | 172 | 8.3 | 3 U | 0.4 | 0.01 J | 21.4 | 248 212 | | | - 40 | 0.2 0 | |
| 5/24/2006 XX LPUD2X1EB | | | 0.1 U | 147 — | 8.6 | 5.j | 0.7 | 0.01 J 0.01 J | 16.5 | 209 | | 1.8 | 4 U | 0.2 U | · |
| 7/25/2006 XX LPUD2X1H8 | | | 0.1 U | 143 | 6.9 | 3 U | 0.4 | 0.01 J | 2.7 | 153 | | 1.5 | 40 | 0.2 U | |
| 9/11/2006 XX LPUD2X201 | | | 0.10 | 120 | 2.3 | | 0.2 J | 0.02 J | + | 211 | - | 2.4 | 4 | 0.29 | |
| 5/16/2007 XX LPUD2X238 | | | 0.1 U | 151 | 8.1 | 6 J | 0.2 J 0.1 J | 0.01 J | 12.7 | 206 | <u> </u> | 2.5 | 4 U | 0.2 U | † |
| 7/25/2007 XX LPUD2X27C | . | - | 01U | . 142 | | - 7 J | 0.13 | 0.01 U | 14.2 | 210 | : | 1 J | 4 U | 0.2 U | <u> </u> |
| 9/12/2007 XX LPUD2X2A2 | | - | 0.1 U | 139 | 8.4 16.5 | 3 U | 0.4 | 0.01 J | 14.5 | 180 | | 1.6 J | 4 U | 0.2 U | |
| 5/20/2008 XX LPUD2X2DG 7/28/2008 XX LPUD2X2H0 | | | 01U 01U | | 10.5 | 31 | 0.4 | 001J | 13.6 | 215 | | 2 | 40 | 0.2 U | |
| | | + | 01U | 123 | 12.1 | 3 U | 0.4 | 0.01 J | 13.4 | 191 | | 1.3 J | 4 U | 0.2 U | t |
| 10/20/24-4 | | | 010 | 123 | 9.1 | 6 J | 0.3 | 0.01 U | 98 | 187 | | 2.8 | 4 U | 0.2 U | |
| | | + | 0.10 | 132 | 76 | 30 | 0.3 | 0.01 U | 10.4 | 185 | †- | 2 | 4 U | 0.2 U | 1 |
| | | | 0.10 | 90 | 11.1 | 11 | 02J | 0.07 | 7.7 | 151 | 1 - | 1.4 J | 4 ↓ | 02 U | T |
| 10/27/2009 XX LPUD2X3EH 4/27/2010 XX LPUD2X3JG | | + | 0.10 | 129 | 12.5 | 3 J | 0.2 J | 0.01 J | 9.7 | 187 | T | 1.3 J | 4 | 02 U | i |
| 7/20/2010 XX LPU02X430 | | + | 0.10 | 137 | 8.6 | 3 J | 0.2 J | 0.01 J | 9.2 | 206 | <u> </u> | 0.7 U | 4 Ų | 02U | |
| 10/19/2010 XX LPU02X464 | - | 1 | 0.10 | 125 | 7.2 | 30 | 0.1 J | 0.01 J | 8 | 197 | | 0.7 U | 4 U | 0.2 U | |
| 4/26/2011 XX LPUD2X4A5 | - | | 0.1 0 | 133 | 6.7 | - | 0.2 J | 0.01 U | 8.5 | 187 | į . | 0.7 U | 4 U | 0.2 U | · |
| 7/19/2011 XX 1PUD2X4E3 | † | | 0.10 | 135 | 6.3 | 18 | | 0.06 | 86 | 193 | Τ' | 0.8 J | 73 | 0.2 U | 1 |
| MISIZULI AA EI GOZAGES | | J . <u></u> | 1 | | L | | | ! 7 55 | | 1 | | | 1 | | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | | | | | | | | | , | | | | , | CUMBE | ERLAND CENTER | ME 0402 |
|-------------|--------------|--|--|-------------|------------------------|----------|------------------------------|---------------|-------------------------|---------|---------------------------|--------------|----------------|------------------------------|--------------------------------------|---------------|
| LP-UD-2) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date Ty | pe Sample ID | m g/ L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | m g/L | mg/L | mg/L | mg/i, | |
| 0/25/2011 X | CX LPUD2X4HI | _ | | 0.1 U | 135 | 5.3 | 4 J | 0.2 J | 0.11 | 9.7 | 181 | | 0.9 J | 11 | 0.20 | |
| | CX LPUD2X528 | | | 0.5 U | 123 | 5.2 | 10 U | 0.3 U | 0.04 U | 9.9 | 165 | | 2 U | 4 U | 0.2 U | |
| | CX LPUD2X577 | + ·• | | 0.5 U | 143 | 5.1 | 10 U | 0.3 U | 0.04 U | 6.5 | 192 | | 2 U | 4 U | 0.2 U | |
| | (X LPUD2X5D) | - | - | 0.5 U | 128 | 5.6 | 10 U | 0.3 U | 0.04 U | 8.6 | 287 | | 2 U | 4 U | O.2 U | |
| | CX LPUD2X5I9 | | · | 0.5 U | 137 | 6.7 | 10 U | 0.4 | 0.04 U | 12.2 | 185 | 0.11 | 2 U | 4 U | 0.2 U | |
| | (X LPUD2X64E | | | 1 | 136 | 7.2 | 10 U | 0.6 | 0.04 U | 12.1 | 192 | 0.1 U | 2 U | 4 U | 0.2 U | |
| 0/29/2013 X | CX LPUD2X877 | | | | 153 | 6.2 | 10 บ | 0.5 | 0.04 U | 10.4 | 194 | 0.11 | 2 U | 40 | 0.2 U | |
| 1W04-10 | | | • | _, | | | | | | | | | | | | |
| 1/18/2005 X | X GW102X10C | 0.3 U | T 6 U | 0.10 | 103 | 2 | 3 U | 0.1 U | [| 7.6 | 129 | 0.03 Ų | 1.6 | 4 U | | |
| | (X GW102X144 | 0.3 U | 6 U | 0.1 U | 101 | 1.7 | 3∪ | 0.2 J | · | 7.3 | 121 | 0.03 U | 2.3 | 4 U | _ | |
| | (X GW102X17I | 0.44 | 60 | 0.1 U | 109 | 1.9 | 3 U | 0.2 J | T : - | 7.6 | 142 | 0.03 U | 0.7 J | 5 | | |
| | CX GW102X1A9 | 0.3 U | 6 U | 0.1 U | 108 | 2.1 | 3 U | 0.2 J | | 7.8 | 126 | 0.03 U | 0.5 J | 40 | | |
| | (X GW102X1F4 | 0.3 U | 1 | 0.1 U | 100 | 2.9 | 3 U | 0.2 J | | 11.4 | 148 | | 3.1 | 4 U | 0.2 U | |
| | KX GW102X110 | 1.3 | _ | 0.1 U | 100 | 1.5 | 3 ป | 0.2 J | | 8.1 | 123 | | 2.2 | 4 U | 0.2 U | |
| | XX GW102X20D | 0.3 U | | 0.1 U | 102 | 1.6 | 3 ป | 0.1 U | | 7.9 | 125 | | 3.3 | 4 U | 0.2 U | |
| | XX GW102X240 | 0.5 U | | 0.1 U | 100 | 1.7 | 31 | 0.1 U | T | 10 1 | 116 | | 5.3 | 4 | 0 25 | |
| | XX GW102X284 | 0.3 U | | 0.1 U | 95 | 2.5 | 9.1 | 0.1 J | | 10.6 | 136 | | 2.7 | 4 U | 0.2 U | |
| | XX GW102X2AE | 0.5 U | | 0.1 U | 96 | 2.7 | 30 | 0.1 J | | 9.5 | 131 | | 1.4 J | 4 U | 0.2 U | |
| | XX GW102X2E8 | 0.3 U | - · · · · - | 0.1 U | 73 | 1.9 | 3 U | 0.2 J | | 12.5 | 122 | | 1.3 J | 4 U | 0.2 U | |
| 7/29/2008 | XX GW102X2HC | 1.2 | | 0.1 U | 96 | 2.7 | 3.1 | 0.2 J | | 14 | 121 | | 1.2 J | .4 U | 0.2 U | |
| 10/27/2008 | XX GW102X302 | 0.5 U | | 0.1 U | 98 | 1.3 | 3 U | 0.1 J | <u> </u> | 10.8 | 120 | | 2.1 | 4 Ų | 0.2 U | |
| 4/14/2009 > | XX GW102X339 | 0.5 U | - | 0.1 U | 95 | 3.5 | 3 U | 0.1 J | | 9.1 | 147 | | 0.9 J | 4U | 0.2 U | |
| 7/7/2009 | XX GW102X37D | 0.5 U | | 0.1 U | 101 | 1.7 | 5 J | 0.1 J | | 9.4 | 131 | | 0.7 ป | 4 U | 0.2 U | |
| 10/27/2009 | XX GW102X3F8 | 0.3 U | | 0.1 U | 100 | 2.4 | 6 J | 0.1 U | | 8.5 | 136 | | <u>0.7 U</u> | 4 U | 0.2 U | |
| 4/27/2010 | XX GW102X407 | 0.3 U | | 0.1 U | 104 | 2.7 | 3 U | 0.1 U | <u> </u> | 10 2 | 141 | | 1.2 J | 4 U | 0.2 U | |
| 7/21/2010 | XX GW102X43B | 0.3 U | | 0.1 U | 100 | 1.3 | 4.) | 0.3 | _ _ | 8.5 | 134 | | 07 U | 40 | 0.2 U | |
| 10/19/2010 | XX GW102X46F | 030 | | 0.1 U | 102 | 1 | 3 U | 0.2 J | | 8.1 | 139 | <u></u> | 0.7 U | 40 | 0.2 U | |
| 4/25/2011 | XX GW102X4AG | 030 | | 0.10 | 102 | 1.1 | 3 U | 0.1 U | <u> </u> | 8.5 | 136 | | 0.7 U | 4 U | 0.2 U | |
| 7/19/2011 | XX GW102X4EE | 030 | | 0.1 U | 101 | . 1 | 3 U | 0.1,U | | 9.1 | 137 | | 0.7 U | 4 U | 0.2 U | |
| 10/25/2011 | XX GW102X4I9 | 0.3 U | | 0.1 U | 105 | 2 | 3 U | 01J | | 8.8 | 126 | | 0.7 U | 40 | 0.2 U | |
| 4/24/2012 | XX GW102X52J | 0.35 | <u> </u> | 0.5 U | 102 | 2 | 10 U | 0.3 U | | 11,4 | 119 | | 2 U | 4 U | 020 | |
| 7/24/2012 | XX GW102X57 | 3.8 | | 0.5 U | 101 | 1 U | 10 U | 0.3 U | . | 11.4 | 122 | | 2 U | 4 U | 0.2 U | |
| 10/22/2012 | XX GW102X5E9 | 0.98 | <u> </u> | 0.5 U | 107 | 1.1 | 10 υ | 0.3 U | <u> </u> | 6.7 | 141 | | 2U | 4 U | 0.2 U | |
| 4/23/2013 | XX GW102X5J0 | 0.3 U | | 0.5 U | 100 | 2.4 | 10 U | 0.3 U | | 13.2 | 143 | 0.10 | <u>2 U</u> | 4 U 4 U | 0.2 U | |
| 7/31/2013 | XX GW102X655 | 0.646 | | | 102 | 1.2 | 10 U | 0.3 U | | 9.1 | 134 | D.1 U | 2 U | 4 U | 0.2 U | ⊢ — |
| 10/28/2013 | XX GW102X67F | 05U | l | <u> </u> | 101 | 2.5 | 10 U | 0.3 U | <u>!</u> | 9.1 | 137 | 0.1 U | 2 U | 40 | 0.20 | L |
| MW04-10 | 05 | | | | | | | | | | | | , | | | ·— ·· |
| 1/17/2005 | XX GW105X10F | 0.46 | 6 U | 0 1 U | 163 | 16.9 | 11 | 0.1 U | | 97.4 | 379 | 0.03 U | 5.2 | <u> 4 U</u> | | <u> </u> |
| 3/21/2005 | XX GW105X147 | 0 34 | 60 | 0.1 U | 180 | 30.9 | 12 | 02J | | 115 | 432 | 0.05 J | 7.5 | +- 4 <u>V</u> | | <u> </u> |
| | XX GW105X181 | 0.31 | 6U | 0.10 | 175 | 20.4 | LB | 010 | | 94.5 | 407 | 0.03 U | 5 | 4 <u>U</u> | <u> </u> | |
| 9/20/2005 | XX GW105X1AC | 0 32 | 60 | D.1 U | 191 | 15.1 | 5 J | 0.1 ป | | 83.5 | 396 | 0.03 U | 4.5 | 4 U | | <u> </u> |
| 5/23/2006 | XX GW105X1F7 | 0.34 | | 0.1 J | 138 | 8.7 | 11 | 0.1 U | | 42.1 | 241 | | 27 | - <u>4U</u> | | |
| 7/25/2006 | XX GW105X111 | 0.92 | | 0.1 U | 193 | 9.4 | 6 J | 010 | | 44.1 | 318 | <u> </u> | 3 4 | 40 | 0.2 U | ļ. . — |
| 7/25/2006 | XD GWDP3X1GI | 0.43 | | 0.1 U | 140 | 6.4 | 3.1 | 0.1 U | | 30.2 | 231 | | 29 | 4 U | 0.2 U | ļ.—— |
| 9/12/2006 | XX GW105X20E | 0.3 U | | 0.1 U | 200 | 7.1 | 4 J | 0.1 U | | 32.3 | 272 | ļ | 3.5 | 4 U | 0.2 U | - |
| 5/14/2007 | XX GW105X241 | 05U | .L | 0.1 U | 152 | 14.4 | 5 J | 0.1 U | | 12.6 | 234 | | | 4 U | 0.22 | |
| 5/14/2007 | XD GWDP3X221 | 05U | | 0.1 U | 152 | 13.7 | 3 J | 0. <u>1 U</u> | | 12.7 | 220 | | 3.4 | 4 U | 0.2 U | ļ. — |
| 7/24/2007 | XX GW105X285 | 0.3 U | | 0.1 U | 179 | 14.7 | 7.5 | 0.1 U | .] | 17 | 257 | j |]. 4 | <u>. 4U</u> | 0.2 U | <u></u> . |

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FOR: Juniper Ridge Landfill

Inorganics (part 1 of 1)

(MW04-105)

Total Kjeldahl Biochemical Ammonia (N) Bicarbonate Chloride Chemical Nitrate (N) Phosphate Sulfate Total Department of the Chemical Nitrate (N) Phosphate Sulfate Total Department of the Chemical Nitrate (N) Phosphate Sulfate Sulfate Sulfate Total Department of the Chemical Nitrate (N) Phosphate Sulfate S

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

| | FOR: Juniper Ri | age Lanoriii | | | | | Inorga | ınics (part 1 | of 1) | | <u> </u> | | | | CHARD ROAD RLAND CENTER | ME 0402 |
|--|---|----------------------------|--|-------------|------------------------|----------|------------------------------|---------------|-------------------------|---------|---------------------------|----------|----------------|------------------------------|--------------------------------------|------------|
| MW04-105) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date Type | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ang/L | mg/L | mg/L | mg/L | mg/L | |
| 7/24/2007 XD | GWOP3X272 | 0.3 U | T | 0.1 J | 207 | 15.4 | 10 | 0.1 U | | 18.4 | 294 | | 5 | 4 U | 0.2 U | |
| 9/10/2007 XX | GW105X2AF | 0.3 U | | 0.1 U | 225 | 14,9 | 10 | 0.1 U | | 17.7 | 292 | | 2.5 | <u>4</u> U | 0.2 U | |
| 5/19/2008 XX | GW105X2E9 | 0.5 ป | | 0.1 U | 206 | 12.1 | 3 U | 0.1 U | | 13.7 | 263 | | 2.5 | 4U | 0.2 U | |
| 5/19/2008 XD | GWD₽3X2 D6 | 0.5 U | | 0.1 U | 201 | 11.8 | 3 U | 0.1 U | | 13.3 | 256 | | 2.2 | <u>4 U</u> | 0.2 U | |
| 7/29/2008 XX | GW105X2HD | 0.5 U | | 0.1 U | 210 | 8.6 | 7 J | 0.2 J | | 13.4 | 251 | | 2.5 | 4 U | 0.2 U | |
| 7/29/2008 XD | GWDP3X2GA | 0.5 U | | 0.1 U | 205 | 8.7 | 8 J | 0.2 J | | 12.9 | 250 | | 2.6 | 4 U | 0.2 U | |
| 0/27/2008 XX | GW105X303 | 0.5 U | | 0.1 U | 177 | 7 | 3 () | 0.1 U | | 11.2 | 216 | | 2.9 | 4 U | 0.2 U | |
| 0/27/2008 XD | GWDP1X305 | 0.5 U | | 0.1 U | 177 | 7.1 | 3 U | 0.1 U | | 10.8 | 218 | | 2.3 | 4 U | 0.20 | |
| 4/15/2009 XD | GWDP9X328 | 0.5 U | | 0.1 U | 117 | 7.5 | 8 J | 0.1 J |] | 6.2 | 167 | | 2.8 | 4 U | 0.2 U | |
| 4/15/2009 XX | GW105X33A | 0.5 U | | 0.1 U | 117 | 7.3 | 7 J | 0.1 J | | 6.2 | 168 | | 2.3 | 4 U | 02 U | |
| 7/7/2009 XX | GW105X37E | 0.5 U | - | 0.1 U | 155 | 10.1 | 3 U | 0.1 Ų | | 8.7 | 195 | | 2.8 | 4.U | 0.2 U | |
| 7/7/2009 XD | GWDP1X361 | 0.5 U | <u> </u> | 0.1 U | 151 | 9.3 | 3 U | 0.1 U | | 8.8 | 199 | | 1.8 J | 4 Ü | 0.2 U | |
| 0/26/2009 XD | GWDP1X3DG | 0.3 U | | 0.1 U | 143 | 9.6 | 3 U | 0.1 U | | 7.8 | 196 | | 1.6 J | 4 U | 0.2 U | |
| 0/26/2009 XX | GW105X3F9 | 0.3 U | <u> </u> | 0.1 U | 147 | 10.5 | 3 Ų | 0.1 U | | 8.3 | 201 | | 1.3 J | 4 U | 0.2 U | |
| 4/27/2010 XD | GWDP3X3JB | 0.3 U | | 0.1 U | 139 | 8.2 | 4 J | 0.1 U | | 7.5 | 156 | | 1.3 J | 4 U | 0.2 U | |
| 4/27/2010 XX | GW105X408 | 0.3 U | | 0.1 U | 138 | 8.4 | 3 J | 0.1 U | | 7 | . 185 | | 3 | 5 | 0.2 U | |
| 7/19/2010 XX | GW105X43C | 0.3 U | | Q.1 U | 148 | 7 | 3 U | 0.1 U | | 6.4 | 170 | | 0.8 J | 4 U | 0.2 U | |
| 0/18/2010 XD | GWDP3X45€ | 0.3 U | | 0.1 U | 133 | 8.9 | 4 J | 0.1 U | | \$.5 | 179 | | 0.8 J | 4 U | 0.2 U | |
| 0/18/2010 XX | GW105X46G | 0.3 U | | 01 U | 126 | 9.6 | 3.J | j 0.1 U | T | 5.2 | 177 | | 0.9 J | 4 U | 0.2 U | |
| 4/26/2011 XX | GW105X4AH | 0.3 U | | 0.1 U | 125 | 8.3 | 3 U | 0.1 U | † · · · · · · · · | 5.2 | 178 | | 0,8 J | 4 U | 0.2 U | |
| 4/26/2011 XD | GWDP3X49F | 0.3 U | | 0.6 | 124 | 8.3 | 3.∪ | 0 1 U | | 5.2 | 175 | | 0.7 J | 4 U | 0.2 U | L |
| 7/18/2011 XX | GW105X4EF | 0.3 U | 1 | 0.1 U | 144 | 7.1 | 3 U | 0.1 U | | 5.9 | 184 | | 1.1 J | 4 U | 0.2 U | <u>L</u> |
| 0/25/2011 XD | GWDP1X4GH | 0.3 U | | 0.1 U | 102 | 5.8 | 3 U | 0.1 U | | 5.1 | 148 | | 1.1 J | 4 U | 0.2 U | L |
| 0/25/2011 XX | GW105X4IA | 0.3 U | | 0.1 U | 100 | 5 | 3 U | 0.1 U | | 4.5 | 141 | | 1.2 J | 4 U | 0.2 U | ļ. <u></u> |
| 4/23/2012 XD | GWDP3X51I | 0.3 U | | 0.5 U | 102 | 57 | 10 U | 0.3 U | | 6.4 | 154 | | 2 U | 4 U | 0.2 U | l |
| 4/23/2012 XX | GW105X530 | 0.3 U | | 0.5 U | 105 | 5.6 | 10 U | 0.3 U | | 6.4 | 164 | | 2 U | 40 | 0.2 U | l |
| 7/24/2012 XX | GW105X57J | 1 | | 0.5 U | 125 | 2.9 | 10 U | 0.3 U | | 7.7 | 156 | | 20 | 4 Ų | 0.2 U | ĺ |
| 0/22/2012 XD | GWDP1X5CH | 0.71 | | 0.5 U | 108 | 3.3 | 10 U | 0.3 U | | 4.6 | 150 | | 20 | 4↓ | 0.2 U | |
| 0/22/2012 XX | GW105X5EA | 1 1 | | 0.5 U | 117 | 3 | 10 U | 0.3 U | | 4.2 | 160 | | 2 U | 4 U | 0.2 U | |
| 4/24/2013 XD | GWDP3X5HJ | 0.3 U | | 0.5 U | 110 | 7.3 | 10 U | 0.3 U | | 5.6 | 154 | 0.1 U | 2 Ų | 4 U | 0.2 U | T' |
| 4/24/2013 XX | GW105X5J1 | 1 03 U | 1 | 0.5 U | 111 | 7.7 | 10 U | 0.3 U | | 5.5 | 162 | 0.1 U | 20 | 4 U | 0.2 U | Γ΄ _ |
| 472472015 <u>~~</u> 4W04-109 |]*,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | J · | | | 1 | *** | | | 1 | | | | | <u> </u> | - | |
| | GWDP1X110 | 0.35 | 6 U | 0.1 U | 276 | 11.1 | 15 | 0.1 U | <u> </u> | T 50 1 | 409 | 0.03 U | 6.8 | 4 U | T | I |
| 1/19/2005 XX | | 0.37 | 6 U | 0.1 U | 276 | 11.2 | 15 | 0.1 U | | 49.6 | 408 | 0.03 U | 8.2 | 4 U | | l |
| 3/23/2005 XX | | 0.36 | | 0.1 U | 240 | 9.9 | 15 | 0.1 U | | 54.6 | 372 | 0.04 J | 5.3 | 4 U | | |
| 7/26/2005 XX | GW109X184 | D.3 | 6 U | 0.1 U | 222 | 51 | 7 J | 0.1 U | | 22.4 | 298 | 0.03 U | 3.5 | 4 U | | |
| 7/26/2005 XD | GVVDP5X186 | 0.32 | 6 U | 0.1 U | 218 | 5 | 4 J | 0.10 | | 22.4 | 302 | 0.03 U | 3.5 | 4 U | | i |
| 9/20/2005: XX | GW109X1AF | 0.36 | 6 U | 0.1 U | 264 | 3.3 | 81 | 0.1 U | | 13.7 | 316 | 0.03 U | 4.1 | 4 U | | Ī |
| 9/20/2005 XD | GWDP5X1AH | 0.44 | 6 U | 0.1 U | 266 | 3.2 | 3 U | 0.1 U | 1 | 13 | 316 | 0.03 U | 4.3 | 4 U | - | Τ |
| 5/23/2006 XX | GW109X1FA | 0.32 | + " | 0.1 U | 220 | 7.4 | | 0.1 U | + | 8.9 | 279 | | 4 4 | 4 U | 0.2 U | |
| 5/23/2006 XD | GWDP3X1E1 | 0.75 | - | 0.1 U | 226 | 7.5 | - 6j- | 0.1 U | | 8.8 | 286 | | 5 1 | 4 U | 0.2 U | |
| 7/25/2006 XX | GW109X1IZ | 0.73 | <u> </u> | 0.1 U | 193 | 41 | 3 7 | 0.1 U | | 7.3 | 242 | | 3.5 | 4 U | 0.2 U | l |
| 9/12/2006 XD | GWDP1X1J0 | 0.37 | + | 0.1 U | 195 | 4 | 3 U | 0.1 U | -1 | 7.4 | 234 | | 4.3 | 4 U | 0.2 U | 1 |
| 9/12/2006 XX | | 0.32 | + | 0.1 U | 200 | i 4.1 | - 7 J | 0.1 U | | 7.3 | 227 | <u> </u> | 6.3 | 4 U | 0.2 U | |
| 5/15/2007 XX | | 0.5 U | | 0.1 U | 178 | 4.4 | 4 J | 0.1 🏻 | | 5.5 | 215 | | 4.3 | 4 Ų | 0.35 | |
| 7/24/2007 XX | GW109X286 | 1 0.3 U | | 0.1 U | 140 | 5.3 | 10 | 0.1 U | į | 6.6 | 194 | · · · · | 4.3 | 4 U | 02 U | |
| | GWDP5X2AH | 0.3 U | | 0.10 | 145 | 61 | 13 | 010 | 1 | 5.4 | 189 | - | 4.8 | 40 | 020 | |
| 9/10/2007 XD 9/10/2007 XX | GW109X2AG | <u>0.3 U</u> | | 0.1 U | 147 | 58 | 8 J | 010 | + | 5.7 | 196 | i | 3.6 | 4 U | 0.2 U | 1 |
| SECTION AND LANGE AND LANG | GANTOSVENO | U.31) | 1 | 1 0.10 | : 147 | 0.0 | 1 | J | | 3.6 | 412 | | 3.5 | 4 U | 0.2 U | 1 |

Page 8 of 26 REPORT PREPARED: 2/11/2014 12:44 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Inorganics (part 1 of 1) CUMBERLAND CENTER, ME 04021 Tannin & Total Organic Carbon Chemical Nitrate (N) Phosphate Sulfate Total Dissolved Bromide Total Kjeldahl Biochemical Ammonia (N) Bicarbonate Chloride (MW04-109) Solids Suspended Lignins (Tannic Oxygen Phosphorus Nitrogen Oxygen (CaCO3) Solids Acid) Demand Demand mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample 1D m_2/L 4 U 0.32 371 4.6 61.9 11 0.2 J 4.3 7/29/2008 XX GW109X2HE 0.5 U 0.1 U 240 330 3.8 4 U 0.2 U 10/28/2008 XX GW109X304 3.4 0.1 U 236 36.8 7 J 0.1 U 0.5 U 4.4 4 U 0.2 U 2.2 305 246 12 0.1 J 4/15/2009 XX GW109X33B 19.3 0.5 U 0.1 U DE DE DΕ DE DE 7/7/2009 XX GW109X37F DE DE DΕ DE DE DE MW04-109R 310 2.9 4 U 0.2 U 15.9 3 U 0.1 U 15.2 12/8/2009 XX GW109X3GF 0.3 U 0.1 U 220 258 2.2 4 U 0.2 U4/27/2010 XX GW109X409 0.3 U 0.1 U 185 12.3 4 J 0.1 U 12 0.2 U 4 U ЗJ 0.1 U 7.9 262 1.3 J 224 6.6 GW109X43D 0.3 U 0.1 U 7/20/2010 XX 0.2 U 7.1 303 1.3 J 4 U 6.3 3 U 0.1 U GW109X46H 0.3 U 0.1 U 233 10/19/2010 XX 0.2 U 1.2 J 4 Ų 4.6 3 J 0.1 U 5.3 267 220 4/26/20111 XX GW109X4AI 0.3 U 0.1 U 258 1.4 J 4 U 0.2 U 195 8.5 3 J 0.1 U 5.8 0.1 U 7/19/2011 XX GW109X4EG 0.3 U 4 U 0.2 U 1.8 J 253 202 7.7 5 J 0.1 U 6.2 GW109X4IB 0.3 U 0.1 J10/25/2011 XX 230 2 U 4 U 0.2 U 10 U 0.3 U 6.9 186 5.7 XX GW109X531 0.3 U 0.5 U 4/24/2012 227 2 U 4 U 0.2 U 10 U 0.3 U 6.4 0.59 0.5 U 184 2.3 7/24/2012 XX GW109X580 0.2 U 10 U 0.3 U 2.6 271 2 U 4 U 0.5 U 203 5.8 10/23/2012 XX GW109X5EB 0.32 245 0.17 2 U 4 U 0.2 U 6.5 10 U 0.3 U 8.7 190 XX GW109X5J2 0.3 U 0.5 U 4/23/2013 0.2 U 4 U 8.6 242 0.14 2 U 195 7.7 10 U 0.3 U 7/30/2013 XX GW109X657 0.444 0.2 U 7.7 259 0.16 2 U 4 U 10/29/2013 XX GW109X67G 10 U 206 6.3 0.3 U 0.5 U MW09-901 0.2 U 1.8 J 15.4 165 4 3 U 0.1 U XX GW901X3GH 0.3 U 0.1 U 108 5.1 12/8/2009 124 1.9 J 4 Ų 0.2 U 4.2 3 J 0.1 U 132 101 GW801X3J7 0.3 U 0.111 XX 4/27/2010 0.9 J 0.2 U 0.1 U 13,7 154 104 2.6 3 U 7/20/2010 XX GW901X42B 0.3 U 0.1 U 0.2 U 0.7 U 4 Ų 27.4 193 GW901X45F 0.3 U 0.1 U 110 2.7 4 J 0.1 U XX 10/19/2010 4 U 0.2 U 126 0.7 U 90 1.3 3 U 0.1 U 8.4 XX GW901X49G 0.3 U 0.1 U 4/26/2011 0.2 U 4 Ų 8.3 125 0.7 U 3 U XX GW901X4DE 0.3 U 0.1 U 86 1.3 0.1 U 7/19/2011 0.2 U 1.2 J 4 Ų 87 1.2 3 J 0.1 U 109 GW9D1X4H9 0.1 U 10/25/2011 XX 0.3 U 2 U 4 U 0.2 U 103 75 2.2 10 U 0.3 U 83 4/24/2012 XX GW90tX51J 0.3 U 0.5 U 0.2 U 4 Ų 108 2 U 0.5 U 77 1 U 10 U 0.3 U 95 GW901X58I 0.3 U 7/24/2012 XX 4 Ū 0.2 U 2 U 82 2.5 12 0.3 U 9 118 GW901X5D9 0.3 U 0.5 U 10/23/2012 XX 116 010 2 U 4 U 0.2 U 10 U 0.3 U 10.8 GW901X590 0.3 U 0.5 U 81 2.5 XX 4/23/2013 0.2 U 2 U 4 U 0.3 U 10.7 110 0.1 U 80 2 10 U 7/30/2013 XX GW901X645 0.52 4 U 0.2 U 0.1 U 2 U 0.3 U 9.2 116 2.7 GW901X66I 0.5 U 85 10 U 10/29/2013 XX MW11-207R 0.2 U 4 U 0.7 U XX GW207X4CH 0.2 J13J 70 37 3 U 0.48 0.1 U 7/20/2011 0.7 U 4 Ų 0.2 U 61 2.1 3 U 0.2 J1 J XX GW207X4GC 36 10/24/2011 03U 0.1 U 0.2 U 4 U 69 2 U 2.1 10 U 0.3 U 2 U XX GW207X512 0.3 U 0.5 U 40 4/23/2012 2 U 72 2 U 4 U 0.2 U XX GW207X561 0.5 U 42 1.3 10 U 0.3 U 0.3 U 7/23/2012 4 Ų 0.2 U 2 U 2 U 69 2 10 U 0.3 U XX GW207X5CC 0.93 0.5 U 39 10/22/2012 70 2U4 Ų 0.2 U XX GW207X5H3 2.8 10 U 0.3 U 2.1 010 39 0.3 U 0.5 U 4/22/2013 2U4 U 0.2 U 2 U 69 0.1 U 10 U 0.3 U 40 2.6 7/29/2013 XX GW207X638 0.551 4 Ü 0.2 U 2 U 2 U 75 0.1 U 39 3.8 10 U 0.3 U XX GW207X881 0.5 U 10/28/2013 MW-204 1.3 J 4 U 0.1 4 5.2 151 110 4.4 3 U 1/29/2004 XX GW204X03A 0.1 U 138 0.03 U 1 J 4 U 9.9 XX GW204X008 3 U 0.1 J 0.15 U 6 U 0.1 U 98 5.1 5/4/2004 148 1.2 J 4 U 24 3 U 02J $0.03\,\mathrm{U}$ XX GW204X03G 6 U 0.1 U 95 D 29 7/27/2004 4 U 0.2 U 175 9.3 XX GW204X07D 97 4 J 0.1 J 28.7 10/25/2004 0.53 010 4.3

03U

0.1 J

3 U

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0.1 U

5.1

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18,4

141

0.2 U

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | | - | - | | | | | morge | mics (part i | 01 1) | | ļ | | | CUMBE | RLAND CENTER | ł, ME 04021 |
|---------------------------------------|--------------|----------------------|----------------------------|--|--------------|------------------------|----------|------------------------------|---------------|--|---------|---------------------------|---------|----------------|------------------------------|--------------------------------------|---------------|
| (MW-204) |) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date 1 | Type S | Sample ID | mg/L | mg/L | m g/L | mg/L | mg/L | mg/L | m g/ L | mg/L | теЛ | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 8/1/2005 | XX GW | /204X172 | 0.3 U | T | 0,1 U | 93 | 6.2 | 3 U | 0.1 U | | 23.9 | 170 | | 1.3 J | 4 U | 0.2 U | |
| 9/20/2005 | | /204X1A0 | 0.3 U | †· | 010 | 105 | 7.7 | 3 U | 0.1 J | | 42.5 | 210 | | 2 | 4 Ų | 0.2 U | |
| 5/23/2006 | | /204X1EF | 0.33 | | 0.1 U | 81 | 4.3 | 3 U | 0.2 J | | 18.7 | 147 | | 3.3 | 4 U | 0.2 บ | |
| 7/24/2006 | | /204X1HC | 0.82 | | 0.1 U | 81 | 3 | 311 | 0.1 U | | 16.3 | 143 | | 1.7 | 4 U | 0.2 U | |
| 9/11/2006 | | /204X205 | 0.3 U | | 0.1 U | 85 | 3.6 | 3 U | 0.1 U | | 15.7 | 138 | | 2.4 | 40 | 0.2 U | |
| 5/14/2007 | | /2D4X23C | 0.5 U | ·†· · ——— | 0.1 U | 83 | 3.7 | 3 U | 0.1 U | | 8.7 | 142 | | 1.7 | 4 Ų | 0.2 U | |
| 7/23/2007 | | /204X27G | 0.3 U | | 0.1 U | 84 | 5.8 | 6 J | 0.1 U | | 12.8 | 140 | | 1.9 | 4 U | 0.2 U | |
| 9/10/2007 | + . | /204X2A8 | 0.3 U | | 0.1 U | 97 | 7.2 | 91 | 0.1 U | | 14.3 | 161 | | 3.7 | 40 | 0.2 U | T |
| 5/21/2008 | | /204X2E0 | 0.3 U | | 0.1 U | 94 | 8.8 | 3 Ų | 0.3 | | 7.8 | 134 | | 3 | 4 U | 0.2 U | |
| 7/30/2008 | , , , | /204X2H4 | 0.5 U | | 0.1 U | 96 | 5 | 4.1 | 0.2 J | 1 | 9.8 | 147 | | 0.8 J | 4 U | 0.2 U | |
| 10/28/2008 | | V204X2JE | 0.5 U | | 0.1 U | 94 | 3.8 | 3J | 0.2 J | - | 10.5 | 144 | | 0.7 J | 4 U | 0.2 U | |
| 4/13/2009 | | V204X332 | 0.54 | | 0,1 U | 84 | 4.7 | 30 | 0.3 | | 7.7 | 148 | | 4.7 | 4 U | 0.2 U | |
| 7/6/2009 | 7 | V204X376 | 2 U | | 0.1 U | 90 | 4.1 | 30 | 0.1 J | | 7.9 | 134 | | 1.2 J | 4 U | 0.2 U | |
| 10/26/2009 | L | V204X3F1 | 0.3 U | | 0.1 U | 98 | 4.5 | 3 U | 0.1 U | | 7.2 | 133 | | 0.9 J | 4 U | 0.2 U | |
| 4/28/2010 | | V204X400 | 0.34 | | 0.1 U | 83 | 4.9 | 4 J | 0.1 U | | 5.9 | 119 | | 3.7 | 4 U | 0.2 U | |
| | | V204X434 | 0.3 U | | 0.1 U | 81 | 5.1 | 3 U | 0.1 U | | 5.5 | 113 | | 0.7 U | 4 U | 0.2 U | 1 |
| 7/19/2010 | | V204X458 | 0.3 U | - | 0.1 U | 76 | 4.8 | 3 U | 010 | | 5.5 | . 138 | | 0.9 J | 4 U | 0.2 U | 1 |
| 10/19/2010 | | V204X4A9 | | | 0.1 U | 73 | 5.1 | - 3U | 010 | | 4.5 | 130 | | 0.7 U | 4 U | 0.2 U | <u> </u> |
| 4/26/2011 | | V204X4E7 | 0.3 U | | 0.10 | BO | 4.7 | 30 | 01 U | - | 47 | 121 | | 0.7 U | 4 U | 0.2 U | †···· |
| 7/19/2011 | | V204X4E/ | 0.3 U | | 0.10 | 78 | 4.2 | 3 U | | | 6.4 | 124 | | 0.8 1 | 40 | 0.2 U | |
| 10/26/2011 | L / V · | V204X52C | 0.3 U | | | 72 | 3.8 | 100 | 0.3 U | <u> </u> | 7.7 | 112 | | 2 U | 4 U | 0.2 U | |
| 4/24/2012 | | V204X52C | 0.3 U | | 0.5 U | <u>'.:</u> | 3.1 | 10 U | 0.3 U | | 8.1 | 130 | | 2 U | 4 U | 0.2 U | |
| 7/23/2012 | L ' | | 0.3 U | | 0.5 U | 82 | 4.8 | 10 U | 0.3 U | | 7.5 | 136 | | - 2U | 4 U | 0.2 U | + |
| 10/24/2012 | | V204X5E2 | 0.3 | - | | 77 | 5.5 | 10 U | 0.3 U | | 6.2 | 134 | 0.1 U | 2U | 5 | 0.2 U | + |
| 4/24/2013 | 1 1 | V204X5ID | 0.381 | .l <u></u> | 050 | 1 | L | 1 | 1 0.3 0 | <u> </u> | U.2 | 104 | 4.10 | | L. — | | · |
| MW-20 | 7 | | | | | | | | | | | | | · | | | |
| 5/5/2004 | XX GW | V207X011 | 0.15 U | Ĩ | 0.1 U | 69 | 1.6 | 3 ∪ | 0.1 U | | 1.7 | 80 | | 1.2 J | _ 4 U | 0.25 | . |
| 7/28/2004 | XX GW | V207X048 | 0.15 U | 1 | 0.1 U | 71 | 1.9 | 3 U | 0.1 U | | 2.4 | 97 | | 1.9 | 4 U | 0.2 U | . |
| 10/25/2004 | XX GW | V207X063 | 0.42 | 1 | 0.1 U | 75 | 1.8 | 3 U | 0.1 U | | 2.1 | 107 | | 4.1 | 16 | 0.32 | |
| 5/12/2005 | - | V207X124 | 0.59 | | 0.1 U | 68 | 1.9 | 3 U | 0.1 U | | 0.6 U | 104 | | 2 | 6 | 0.51 | |
| 8/1/2005 | XX GV | V207X15C | 0.6 | | 0.1 U | 78 | 2.1 | 3 U | 0.1 U | ! | 0.6 U | 101 | | 1 J | 5 _ | 0.3 | |
| 9/19/2005 | | VDP1X18F | 0.31 | | 0.1 U | 62 | 2.3 | 3 U | 0,1 U | | 1 2 J | 90 | | 1.1 J | 4 U | 0.24 | |
| 9/19/2005 | | V207X18A | 0.3 | - | 0.1 U | 73 | 1,7 | 3.0 | 0.1 U | | 1.2 J | 93 | | 31 | 4 U | 0.25 | <u> </u> |
| 5/22/2006 | | V207X1D5 | 0.42 | | 0.1 U | 72 | 3.6 | 7 J | 0.1 U | 1 | 5.8 | 114 | | 4.6 | 4 U | 0.29 | ⊥ |
| 7/25/2008 | | V207X1G2 | 0.58 | | 0.1 U | 73 | 1.8 | 4.3 | 0.1 U | 1 | 2.1 | 117 | | 4.8 | 4 U | 0.2 U | |
| 9/11/2006 | + | V207X1IF | 0.55 | - | 0.1 U | 71 | 2.3 | 11 | 0.1 U | T | 1.6 J | 105 | | 4.7 | 4 U | 02U | |
| 5/14/2007 | L | V207X222 | 0.5 U | | 0.1 U | 80 | 3.6 | 8 J | 0.1 U | | 4 | 130 | | 2.5 | 10 | 0.28 | . |
| 7/25/2007 | | V207X266 | 0.3 | | 0.1 U | 89 | 5.5 | 17 | 0.1 U | | 7.8 | 136 | | 4.5 | 4 | 0.2 U | <u> </u> |
| 9/10/2007 | | V207X28G | 0.39 | | 0.1 U | 90 | 4.9 | 12 | D.1 J | | 6.8 | 143 | ! | 6.8 | 4 U | 0.2 U | |
| 5/19/2008 | | V207X2CA | 0.54 | | 0.1 U | 100 | 2.2 | 9 J | 0.1U | 1 | 7.6 | 144 | | 3.7 | 4 U | 0.2 U | |
| 7/29/2008 | | V207X2FE | 0.5 U | | 0.10 | 115 | 2.6 | 11 | 0.1 J | \top | B.7 | 162 | | 5.2 | 4 U | 0.27 | |
| 10/28/2008 | | V207X2I4 | 0.58 | | 0.1 U | 142 | 2 | 20 | 0.1 U | <u> </u> | 7.7 | 210 | | 6.4 | 8 | 0.36 | |
| 4/13/2009 | L | N207X31C | 25 | + | 15.7 | 230 | 4.8 | 44 | 0.3 | 1 | 0.8 J | 195 | | 17.1 | 20 | 1.8 | <u> </u> |
| 7/6/2009 | | V207X35G | 22 | + | 20.7 | 284 | 4.9 | 55 | 0.1 U | | 0.7 J | 213 | | 22.3 | 38 | 2.1 | |
| 10/26/2009 | 1 | W207X3DB | 12 | · | 9 | 195 | 5.9 | 35 | 2.9 | † | 9.4 | 265 | | 9.2 | 17 | 1 | |
| | 1.0. | W207X3IA | 38 | + | 2.2 | 238 | 5.2 | 14 | 0.1 J | <u> </u> | 6.1 | 259 | · | 6.5 | 46 | 0.74 | |
| ************************************* | וייין אא ויי | | 44 | + | 2.5 | 228 | 49 | 18 | 0.6 | | 6.6 | 244 | | 53 | 29 | 0.78 | T |
| 4/26/2010 | YY GU | | | | | | | | | | | | | _ | h | | |
| 4/26/2010 7/19/2010 10/18/2010 | 1 | W207X41E W207X44I | 5.1 | | 4.1 | 213 | 4 | 18 | 0.1 U | | 5.2 | 286 | | 6.2 | 14 | 2.3 | |

Page 10 of 26 REPORT PREPARED: 2/11/2014 12:44 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Inorganics (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 Nitrate (N) Phosphate Sulfate Total Dissolved Bromide Organic Carbon Total Tannin & Chemical Chloride Total Kjeldahl Biochemical Ammonia (N) Bicarbonate (MW-206) Suspended Lignins (Tannic Oxygen Solids (CaCO3) Phosphorus Nitrogen Окудел Solids Acid) Demand Demand mg/L mg/L mg/L mg/L mg/\mathbb{L} mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample ID MW-206 0.2 U 96 0.5 U 8 5/6/2004 XX GW206X010 31 0.1 U 0.2 J 0.15 U 0.1 U 69 1.5 0.2 U 0.5 U 4 U 96 68 1.7 30 0.1 U 1.2 7/28/2004 XX GW206X047 0.15 U 0.1 U 86 07J 4 U 0.2 U XX GW206X062 0.1 U 71 1.6 3 U 0.1 U 1,1 10/26/2004 0.3 U 08J 4 U 0.2 U 0.6 J 97 3 U 0.1 U 0.1 U 69 1.5 5/11/2005 XX GW206X123 0.3 U 1.3 J 4 U 0.2 U 89 0.1 U 67 1.7 3 U 0.1 U 0.9 J 7/28/2005 XX GW206X15B 0.3 U 1.1 J 4 U 0.2 U 0.1 U 73 1.9 3 U 0.1 U 1.1 J 81 GW206X189 0.3 U 9/19/2005 XX 0.2 U 1.8 J 98 1.7 4 U 3 J Q.1 J XX GW206X1D4 0.44 0.1 U 71 1.9 5/24/2006 2.2 4 U 0.2 Ų 3 U 0.1 U 1 J 88 0.1 U 71 1.5 GW206X1G1 1.2 7/25/2006 ХX 4 U 0.2 U U8.0 0.1 U 1.1 J 66 68 0.9 J3 U 9/12/2006 XX GW208X1IE 0.3 U 0.1 U 0.2 U 0.8 J 97 2.7 4 U 0.1 U 68 1.2 30 0.1 U 5/14/2007 XX GW208X221 0.5 U 2.1 4 U 0.2 U 0.1 U 2.5 85 62 2.5 10 GW206X265 0.1 U 7/25/2007 XX 0.3 U 95 2.6 4 Ų 0.2 U GW206X28F 0.1 U 58 2.6 3 U 0.1 U 1.2 J XX $0.5 \, \text{U}$ 9/11/2007 0.2 U 74 1.5 J 4 U 0.1 U 67 1.5 Эυ 0.1 J1.6 J 5/20/2008 GW206X2C9 0.3 U XX 4 Ų 0 2 U 0.2 J 83 1.4 J 1.5 3 J 7/29/2008 XX GW206X2FD 0.5 U 0.1 U 69 1.2 J 4 ∪ 0.2 U 0.5 69 091 3 U 0.1 U 4.1 90 10/27/2008 XX GW206X2I3 0.5 U 97 1.2 J 4 U 0.2 U 0.2 J 1.4 J 4 J 0.1 U 68 16 4/13/2009 XX GW206X31B 0.5 U 0.7 U 0.2 U 1.9 J 86 2 U 0.1 U 68 1.3 3 U 0.1 J GW206X35F 7/6/2009 XX 1.2 J 86 0.8 J4 Ų 0.2 U 71 1.7 3 U 0.1 U 0.1 U 10/28/2009 XX GW206X3DA 0.3 U 0.2 U 1.6 J 69 0.7 J2.7 0.1 U XX GW206X319 0.3 U 0.3 J67 3 U 4/26/2010 0.2 U 1.4 J 4 Ų 70 1.8 8 J 0.1 U 1,7 J 81 0.6 XX GW206X410 2.4 7/19/2010 1.5 J 10 0.2 U 0.6 U 98 1.2 5 J 0.1 U 2 80 10/18/2010 XX GW208X44H 2.4 0.2 U 07 U в 97 0.1 U 65 1.1 3 J 0.1 U 1 J GW205X48I 0.3 U 4/25/2011 XX 0.2 U 1.8 0.1 U 0.8 J 92 2.2 12 73 14 GW208X4CG 0.1 U 7/18/2011 XX 1.2 91 1,1 J 5 0.2 U 1.1 J 0.1 U 69 1.8 6 J 0.1 J 10/24/2011 XX GW208X4GB 0.3 U 0.2 U2 U 4 U 70 1.8 10 U 0.3 U 2.7 91 0.5 U 4/23/2012 XX GW208X511 0.3 U 2 U 4 U $0.2 \, \mathrm{U}$ 2 U 99 69 1.2 10 U 0.3 U 050 7/23/2012 XX GW208X560 0.35 6 0.2 U 2U2.1 86 GWDP4X573 05U 68 1.4 10 U 0.3 U 7/23/2012 XD 0.3 U 0.2 U 0.3 U 2 U 95 2 U 4 1.2 10 U 0.94 0.5 U 70 XX GW206X5CB 10/22/2012 88 2 U 4 U 0.2 U 0.1 U 2.4 10 U 0.3 U 2.8 4/22/2013: XX GW206X5H2 0.311 0.5 U 65 02 U 2 U 4 U 66 10 U 0.3 U 2.2 88 0.1 U 2 GW206X637 0.684 7/29/2013 XX 4 U 0.2 U 2.2 90 0.1 U 2 U GWDP4X64A 0.492 63 1.8 10 U 0.3 U 7/29/2013 XD 2 U 4 U 0.2 U 0.1 U 70 24 10 U 03 U 2.3 95 GW206X650 0.5 U 10/28/2013 XX MW-212 0.03 U 0.5 U 4 U 010 5.5 48 0.15 U 6 U 0 1 U 20 0.7 3 U 5/5/2004 XX GW212X008 D Đ D D Đ D 7/27/2004 XX GW212X03J D D D D O Þ Đ D D D D D D D D GW212X07F 10/27/2004 XX n 2.3 0.2 U 169 101 4 Ų 0.1.1 5/12/2005 XX GW212X13G 0.32 0.1 U 35 1.9 3 U 0.2 U 35 0.6 J 4 Ų 13.B 3 U 0.1 U 19J 0.1 U 1.2 XX GW212X174 0.3 U 8/1/2005 9/20/2005 XX GW212X1A2 0.2 U 56 2.4 4 U 0.1 U GW212X1EH 0.38 0.10 15.2 23 3 J 5.8 XX 5/22/2006 0.2 U 48 2.5 4 U 010 12.5 3 U 0.1 U 1.4 7/25/2006 XX GW212X1HE 3.1 ī ī 9/11/2006 XX GW212X207 0.2 U 0.5 U 20 1.6 3 Ų 0.1 J 4.3 60 GW212X23E 0.5 U 0 1 U XX 5/14/2007 Ð D Ð D D ۵ n D Ð D 7/24/2007 ХX GW212X27I D n Ð D D D GW212X2A8 D D D D D D XX 9/10/2007 0.7 U 4 U 0.2 U 0.5 3.3 64 3 U GW212X2E2 0.1 U 24 1.8 5/19/2008 XX 0.5 U D

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GW212X2HB

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | | POR. Juniper R | idge content | | | | | Inorga | anics (part 1 | of 1) | | | | | | RLAND CENTER | ME 04021 |
|------------|---------------|----------------|-----------------------------------|--|-------------|--------------------------------|------------------|--------------------------------------|----------------|--|-----------------|-----------------------------------|--|------------------------|--------------------------------------|--|--------------|
| (MW-21) | • | Samula ID | Total Kjeldahl Narogen mg/L | Biochemical Oxygen Demand mg/L | Ammonia (N) | Bicarbonate (CaCO3) mg/L | Chloride mg/L | Chemical Oxygen Demand mg/L | Nitrate (N) | Phosphate Phosphorus mg/L | Sulfate mg/L | Total Dissolved Solids mg/L | Bromide mg/L | Organic Carbon mg/L | Total Suspended Solids mg/L | Tannin & Lignins (Tannic Acid) mg/L | |
| Date | гуре | Sample ID | , | | | | | | | | | | | | | | |
| 10/28/2000 | XX | GW212X2JG | D | | Ð | D | D | D | D | <u> </u> | D | D | | D | D | D | • |
| 4/13/2009 | XX | GW212X334 | 0.72 | | 0.1 U | 42 | 27.5 | 3.5 | 0.2 J | | 7 | 132 | | 4.7 | 4 U | 0.2 U | |
| 7/6/2009 | XX | GVV212X378 | 2.6 | | 2.2 | 46 | 19.6 | 17 | 0.1 U | <u> </u> | 5 | 100 | | 6.7 | 4 U | 0.33 | |
| 10/26/2009 | XX e | GW212X3F3 | D | | D | D | L. D | D | D | <u> </u> | D | D | | D | D | D | |
| 4/26/2010 | XX | GW212X402 | 0.36 | 1 | 0.1 U | 30 | 47.2 | 3 U | 0.3 | <u> </u> | 3.4 | 135 | | 1.3 J | 5 | 0.2 U | |
| 7/19/2010 |) XX | GW212X438 | D | | D | D | D | D | D | <u></u> | D | D | | D | D | <u>D</u> | |
| 10/18/2010 | 0 XX | GW212X46A | D | | D | D | D | DD | D | | D | D! | | D | D | <u> </u> | |
| 4/25/201 | | GW212X4AB | 0.3 U | | 0.1 U | 53 | 25.3 | 30 | 0.10 | | 3.2 | 129 | | 0.7 U | 4 U | 0.2 U | |
| 7/18/201 | 1 XX | GW212X4E9 | Ð | | D | D | D | Ď | D | | D | , D | | D | D | <u> </u> | |
| 10/24/201 | 1 XX | GW212X4I4 | D | | Ð | D | D | D | D | | D | . D | | D | | l D | |
| 4/23/201 | 2 XX | GW212X52E | D | | D | D | D | D | D | <u> </u> | D | D | | D | D . | D | |
| 7/23/201 | 2 XX | GW212X57D | D | | D | D | D | D | 0 | | D | _ D | | . P | D | <u>D</u> | |
| 10/22/201 | 2 XX | GW212X5E4 | Ð | 1 | Ð | D | D _ | D | D | | Ð | D | <u> </u> | D | D | D | |
| 4/22/201 | 3 XX | GW212X5IF | D | T | Ð | D | D | D | D | <u> </u> | D | D _ | D | Ď | D | D | |
| MW-2 | 16B | · | | | - | | | | | | | | | | | | |
| 5/6/200 | | GW216B013 | 0.16 | 1 | 0.1 U | 65 | 2.3 | 3 J | 0.3 | 1 | 2.5 | 90 | | 0.6 J | 4 U | 0.2 U | |
| 5/6/200 | | | 0.10 | | 0.1 U | 58 | 2.3 | 3 J | 0.3 | | 2.5 | 94 | | 0.7 J | 4 U | 0.2 U | |
| | + | GW216B049 | 0.21 | | 0.1 U | 48 | 2.1 | 30 | 0.1 U | | 4.4 | 72 | | 3.6 | 4 U | 0.2 U | |
| 7/26/200 | | | 0.3 U | | 0.1 U | 44 | 2 | 30 | 0.2 J | | 4.4 | 84 | | 2.2 | 4 U | 0.2 U | |
| 10/26/200 | | | 0.48 | | 0.1 U | 38 | 2.1 | 3 U | 0.2 J | | 4.5 | 68 | | 1,6 | 4 U | 0.2 U | |
| 5/10/200 | | | 0.3 U | · [| 0.1 U | 29 | 2.7 | 4 J | 0.3 | | 3.4 | 55 | <u> </u> | 1.8 | 40 | 0.2 U | |
| 7/27/200 | | GW216B15D | 0.47 | ! | 0.1 U | 74 | 3 | 3 U | 0.1 U | | 3.7 | 105 | T | 1.8 | 4 U | 0.2 U | |
| 7/27/200 | - | GWDP3X188 | 0.35 | | 0.1 U | 73 | 3 | 3 U | 0.1 U | | 3.5 | 111 | | 1.9 | 4 U | 0.2 U | |
| 9/22/200 | | GW216B18B | 0.3 U | | 0.1 U | 33 | 1.4 | 3 U | 0.1 J | - | 4 | 67 | | 5.8 | 4 U | 0.2 ป | |
| 5/23/200 | | GW216B106 | 0.63 | † | 0.1 U | 70 | 15.8 | 24 | 0.1 U | | 10 | 187 | <u> </u> | 7.4 | 4 U | 6.1 | |
| 7/25/200 | | GWDP1X1G7 | 0.56 | | 0.1 U | 38 | 5.6 | 13 | 0.1 U | | 4.1 | 86 | · | 5.5 | 18 | 0.2 U | |
| 7/25/200 | | GW216B1G3 | 1.2 | | 0.1 U | 40 | 5.7 | 10 | 0.1 U | | 41 | 88 | | 6.5 | 19 | 0.2 U | |
| 9/12/200 | - | | 0.57 | | 0.1 U | 44 | 4.5 | 8 J | 0.1 U | | 43 | 92 | Ţ ··· | 4.9 | 40 | 6.5 | |
| 5/15/200 | - | | 0.5 U | | 0.1 U | 46 | 6.6 | 10 | 0.1 U | + | 4.2 | 81 | | 5.6 | 9 | 0.34 | |
| 7/24/200 | | | 0.3 U | · | 0.1 U | 44 | 6.2 | 81 | 0.1 U | | 10.3 | 106 | I | 5 | 4 U | 0.2 U | |
| 7/24/200 | | | 0.3 U | :- | 0.1 U | 41 | 6 | 7 J | 0.1 U | · | 10.3 | 102 | T | 58 | 4 U | 0.2 U | |
| 9/10/200 | | | 0.3 U | | 010 | 46 | 5 | 7 J | 0.1 J | | 7.9 | 92 | | 4 | 410 | 0,2 U | |
| 5/20/200 | - | | + - 0.3 U | + | 010 | 56 | 29.9 | 5 J | 02J | + | 11.5 | 157 | | 3.2 | 4 U | 02U | |
| 7/28/200 | | | 0.5 U | | 3.6 | 95 | 50.4 | 14 | 0.1 U | | 19.7 | 261 | T | 5.9 | 7 | 0.27 | |
| 7/28/200 | | | 0.5 U | · | 3.4 | 95 | 519 | 10 | 0.1 U | | 20.5 | 276 | Τ | 5.4 | 4 U | 0.33 | |
| 10/28/200 | | - ii · | 0.51 | | 0.1 U | 58 | 13.8 | 11 | 0.1 U | + | 9.1 | 139 | | 6.3 | 4 0 | 0.21 | |
| 4/14/200 | _ | | 0.5 U | | 0.1 U | 60 | 8.7 | 4.1 | 0.1 U | · + - · · · · · | 4.5 | 113 | | 3.4 | 4 U | 0.2 ป | |
| 7/7/200 | | 1 | DE | | DE | DE - | OE . | DE | DE | : | DE | DE | | DE | DE | DE | L |
| MW-2 | | | | · | L | . I = = | | | | | 1. | | | | | | _ · |
| | | | | , | | -T | 15.0 | | 0.1 U | | l 8 | 192 - — | | 1.6 J | 40 | 0.2 U | |
| | | GW216B3GG | 0.3 U | · | 0.1 U | 122 | 15.3 | - 3 <u>u</u> | | -+ | 6.8 | 185 | 1 | 2.5 | 40 | . 0.2 U | |
| 4/27/201 | _ | | 0.3 U | | 0.1 U | 127 | 10.9 | 7 J | 0.1 U | · · | 6.2 | 174 | | 0.8 J | 40 | 020 | |
| 7/20/201 | _ | | 030 | | 0.1 U | 117 | 9.3 | 5 J | 0.1 U 0.1 U | · | 5.2 | 188 | | 0.7 U | ; 4U | 0.20 | 1 |
| 10/19/201 | _ | · | 0.3 U | 1 | 0.1 U | 117 | 8.7 | 3 U | 0.10 | + | 4.6 | 224 | | 0.9 J | 40 | 0.2 U | ł |
| 4/26/201 | | | 0.3 U | - | 0.1 U | 164 | 8.1 | 3 U | | <u> </u> | 4.7 | 229 | | 11J | 40 - | 0.2 U | - |
| 7/19/201 | | | 0.3 U | - | 0.10 | 171 | 9.1 | 3 J | 01U | | 5.6 | 242 | - | 1.9 J | | 0.20 | <u> </u> |
| 10/25/201 | | - | 0.36 | .4 | 0.1 U | 190 | 94 | 4 J | 0.1 U | | 4.6 | 242 245 | | 2 U | | 0.20 | |
| 4/24/201 | | | 0.3 U | <u> </u> | 0.5 U | 182 | 9.3 | 10 U | 0.3 U | | | 238 | | 20 | 4 U | 0.2 U | |
| 7/24/201 | 12 XX | GW216B562 | 0.43 | | 0.5 U | 180 | 5.5 | 10 U | 0.3 U | . l | 2 U | | <u> </u> | l . <u>4.4</u> | | 9.2.0 | J |

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SUMMARY REPORT

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| | | FOR: Juniper R | iuge cardiii | | | | | Inorga | anics (part 1 | of 1) | | | | | | CHARD ROAD FRLAND CENTER, | ME 04021 |
|------------|-------------|----------------|------------------------------------|---|-------------|--------------------------------|------------------|--------------------------------------|---------------|--|-----------------|-----------------------------------|---------------------------------------|----------------|--------------------------------------|--|--|
| (MW-21 | , | Samela ID | Total Kjeldahl Nitrogen mg/L | Biochemical Oxygen Demand mg/L | Ammonia (N) | Bicarbonate (CaCO3) mg/L | Chloride mg/L | Chemical Oxygen Demand mg/L | Nitrate (N) | Phosphate Phosphorus mg/L | Sulfate mg/L | Total Dissolved Solids mg/L | Bromide mg/L | Organic Carbon | Total Suspended Solids mg/L | Tannin & Lignins (Tannic Acid) mg/L | |
| Date | 1 ype | Sample ID | uig/D | 242 | ***&- | | | | | | | | | | | | |
| 10/23/2012 | 2 XX | GW2t6B5CD | 0.3 U | 1 | 0.5 U | 156 | 7.5 | 10 U | 0.3 U | <u> </u> | 2.5 | 231 | | 2 U | 4U | 0.2 U | |
| 4/23/2013 | XX | GW21685H4 | 0.3 U | 1 | 0.5 U | 145 | 7.3 | 10 U | 0.3 U | I | 9.1 | 209 | 0.18 | 20 | 4 U | 0.2 U | |
| 7/30/2013 | XX | GW216B839 | 0.565 | | <u> </u> | 147 | 9.1 | 100 | 0.3 U | J" | 8.7 | 206 | 0.2 | 20 | 4 U | 0.2 U | |
| MW-22 | 23A | | | | | | | | | | | | | | | | |
| 5/5/200 | | GW223A014 | 0.15 U | | 0.1 U | 93 | 1.9 | 3 U | 0.1 J | Τ | 3.4 | 112 | · · · · · · · · · · · · · · · · · · · | 0.5 U | 4 U | 0.2 U | |
| 7/28/200 | | GW223A04A | 0.15 U | | 0.1 U | 89 | 2.4 | 3 U | 0.1 J | T | . 5 | 120 | | 0.5 J | 4 U | 0.2 U | |
| 7/28/200 | | GWDP1X04D | 0.15 U | + | 0.1 U | 87 | 2.4 | 3 U | 0.1 J | · · | 5 | 113 | | 0.5 U | 4 U | 0.2 U | |
| 10/25/200 | | GW223A065 | 0.49 | | 0.1 U | 88 | 2.4 | 3 U | 0.1 J | | 4.5 | 118 | | 1.4 J | 4 U | 0.2 U | |
| 5/10/200 | | GWDP3X130 | 0.3 Ų | | 0.1 U | 90 | 2.2 | 3 U | 0.1 J | | 4.7 | 114 | | 0.5 U | 4 U | 0.2 U | |
| 5/10/200 | | GW223A126 | 0.3 U | <u> </u> | 0.1 U | 87 | 2.2 | зu | 0.1 J | | 4.7 | 112 | | 0.5 J | 4 U | 0.2 U | |
| 7/26/200 | | GW223A15E | | | 0.1 U | 88 | 2.3 | 3 U | 0.1 J | . [| 4.3 | 117 | | 0.5 U | 4 U | 0.2 U | |
| 9/21/200 | | GW223A18C | 0.3 U | - | 0.1 U | , B7 | 2.5 | 3 U | 0.1 J | 1 | 4.B | 123 | | 3.4 | 4 U | 0.2 U | |
| 5/24/200 | | GW223A1D7 | 0.34 | ļ | 0.1 Ü | 91 | j 3 | 3 U | 0.3 | T | 6.4 | 136 | | 1.9 | 4 U | 0.2 U | |
| 5/24/200 | | GWDP1X1DA | 0.59 | | 0.1 บ | 90 | 3 | 3.J | 0.3 | | 7 | 126 | | 1.2 J | 4 U | 0.2 U | |
| 7/26/200 | | GWDP5X1I3 | 0.34 | | 0.1 U | 88 | 2 | 5.1 | 0.2 J | | 4.3 | 133 | | 1.3 J | 4 U | 0.2 U | |
| 7/26/200 | | GW223A1G4 | 0.45 | | 0.1 U | 90 | 1.9 | 6.J | 0.2 J | | 4.4 | 128 | | 2 | 4 U | 0.2 U | |
| 9/13/200 | .4 | GWDP5X20G | 0.36 | | 0.1 U | 91 | 2.2 | 3 U | 0.1 U | | 4.4 | 90 | | 0.6 J | 4 U | 0.2 U | |
| 9/13/200 | | GW223A1IH | 0.3 U | · · - | 0.1 U | 104 | 2.2 | 3 J | 0.1 U | | 4.2 | 99 | | 2.2 | 4 U | 0.2 U | |
| 5/15/200 | | GWDP1X227 | 0.5 U | -+ | i 01U | 91 | 2.8 | 3 U | 0.1 U | | 4 | 117 | | 1.1 J | | 0.31 | |
| 5/15/200 | | GW223A224 | 0.5 U | | 010 | 93 | 2.7 | 3 U | 0.10 | | 4.1 | 110 | | 3.2 | 4 Ü | 0 25 | |
| 7/24/200 | | GWDP5X287 | 03U | | 0.1 J | 76 | 3.2 | 5 J | 0.1 J | · | 4.8 | 127 | | 17 | 40 | 0.2 U | |
| 7/24/200 | | GW223A266 | 030 | | 0.1 U | 86 | 3.2 | 3 U | 0.1 J | | 4.9 | 36 | i | 2.6 | 4 U | 0.2 U | |
| 9/11/200 | | GW223A28I | | | D.1 U | 88 | 3.6 | 30 | 0.2 J | | 4.7 | 128 | | 0.8 J | 4 U | 0.2 U | |
| 5/20/200 | | GWDP1X2CF | 0.3 U | | 0.1 U | 95 | 2.8 | 4 , | 0.2 J | | 5.4 | 121 | | 1.4 J | 4 U | 0.2 U | |
| 5/20/200 | | GW223A2CC | 0.3 U | <u>i</u> | 0.1 0 | 92 | 2.8 | 30 | 0.2 J | | 5.4 | 125 | | 1.3 J | 4 U | 0.2 U | |
| 7/30/200 | | GW223A2FG | 0.5 U | | 0.10 | 99 | 2.9 | 3J | 0.3 | | 6 | 146 | | 0.7 U | 4 U | 0.2 U | |
| 7/30/200 | | GWDP5X2HF | 13 | · | 010 | 95 | 3.2 | šú | 0.3 | | 5.7 | 121 | | 0.7 J | 4 U | 0.21 | |
| | | GW223A2I6 | | · - | 0.1 J | 98 | 2.6 | 30 | 0.2 J | + | 6.4 | 137 | | 0.7 U | 4 U | 0.2 () | |
| 10/28/200 | | GW223A31E | 0.5 U | | 0.10 | 155 | 14 | 3 U | 0.1 U | | 3.7 | 229 | | 1.2 J | 40 | 020 | |
| 4/14/200 | | GWDP1X31H | 0.5 U | | 0.1 U | 165 | 14.1 | 3 U | 0.1 J | | 4.4 | 226 | | 1.2 J | 4 U | 0.2 U | |
| 4/14/200 | | GW223A35I | 0.5 U | + · · · | 0.1 U | 108 | 8.9 | 30 | | : | 4.8 | 162 | · ·· | 0.7 U | 4 U | 0.2 U | |
| 7/7/200 | | GW223A300 | 0.5 U | · | 0.1 U | 112 | 10.6 | 30 | 0.1 J | ` | 4.2 | 165 | | 0.7 U | 4 U | 0.2 U | |
| 10/27/200 | | GWDP4X3ED | 0.3 U | - | 0.1 U | 113 | 11 | 3 U | 0.1 J | + | 4.2 | 171 | | 0.9 J | 4 U | 0.2 U | |
| 10/27/200 | | | 0.3 U | + | | | 14.2 | 30 | 0.1 J | | 4.5 | 189 | | 21 | 4 U | 0.2 U | |
| 4/27/201 | | GW223A3IC | 0.3 U | - | 0.10 | 124 | | · | 0.2 J | | 4.5 | 169 | | 1.4 J | 4 U | 0.2 U | |
| 4/27/201 | | GWDP1X3IF | 0.3 U | . | 0.1 U | 121 | 14.2 | 3 J | + | | 4.2 | 176 | | 0.7 U | 4 U | 0.2 U | |
| 7/20/201 | | GW223A41G | 0.56 | - | 0.1 U | 127 | 12.7 | 3 U | 0.2 J | + | 3.9 | 229 | <u> </u> | 0.7 U | 4U | 0.20 | |
| 10/19/201 | | GW223A450 | 0.3 U | -4 | 0.1 U | . 120 | 16.5 | 3 U | 0.1 J | | 3.7 | 214 | | 0.7 U | 40 | 0.2 U | |
| 10/19/201 | | GWDP1X453 | 0.35 | - | 0.1 U | 125 | 14.9 | - 1 3 U | 0.1 J | + | 3.7 | 214 | | 0.7 U | 4 U | | |
| 4/26/201 | | GW223A491 | 0.3 U | _ | 0.1 J | 137 | 20.3 | 3 U | 0.2 J | + | 3.8 | 230 | | 0.7 U | 40 | 0.2 0 | |
| 4/26/201 | | GWDF1X494 | 0.3 U | | 0.1 U | 135 | 19.5 | 3 U | 0.2 J | | 4.7 | 241 | | 0.7 U | 40 | 0.2 U | · |
| 7/19/201 | | GW223A4CJ | 0.3 U | | 0.1 J | 138 | 21.3 | 3 U | 0.1 J | | h ———— | | ļ· | 0.7 U | 4 U | 0.2 0 | |
| 10/25/201 | | GWDP3X4H8 | 0.3 U | ļ | D.1 U | 139 | 22.8 | 3 U | 0.4 | | 6.6 | 235 | ļ. ·· | 0.7 U | 4 U | 0.2 U | - " |
| 10/25/201 | | GW223A4GE | 030 | | 0.10 | 143 | 21.8 | 3 U | 0.4 | + | 6.3 | 231 | | 2 U | 4 U | 0.2 U | <u> </u> |
| 4/24/201 | | GW223A514 | 030 | 1 | 0.5 U | 149 | 24.1 | 10 U | 0.3 U | | 7.4 | 244 | | | 40 | 0.2 U | |
| 4/24/201 | | GWDP1X517 | 0.3 U | | 0.5 U | 147 | 24.1 | 10 U | 0.3 U | | 7.5 | 231 | : | 2 U | 40 | 0.2 U | <u> </u> |
| 7/24/201 | | GW223A563 | 0.31 | | 0.5 U | 144 | 23.9 | 10 U | 0.3 U | | 7.8 | 229 | · : | 2 0 | 40 | 0.2 U | <u> </u> |
| 10/23/201 | | GWDP3X5D8 | 0.3 U | | 0.5 U | 149 | 24 4 | 10 U | 0.3 U | | 7 | 266 | i | 2 U | - 4U | | <u> </u> |
| 10/23/201 | | GW223A5CE | 0.31 | l | 05U | 153 | 25.4 | . 10 U | 0.3 U | | 4 | 262 | | 2 U | | | |
| 4/23/201 | 3 XX | GW223A5H5 | 0.323 | l | 0.5 U | 168 | 34.9 | 10 U | 0.3 U | | 9 | 275 | 0.2 | 20 | 4.0 | 0.2 U | J |

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| | | | | | | | | Mics (part i | , | | | | | CUMBE | RLAND CENTER, M | AE 04021 |
|------------------|------------------------------|----------------------------|---|----------------|------------------------|----------|------------------------------|--------------|--|---------|---------------------------|----------|----------------|------------------------------|--------------------------------------|----------|
| MW-223A) | • | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date Ty | pe Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 4/23/2013 X | (D GWDP1X5H8 | T 0.3 U | Τ | 0.5 U | 168 | 35.2 | 10 U | 0.3 U | | 9.8 | 275 | 0.18 | 20 | 4 U | 0.2 U | |
| | X GW223A53A | D.556 | · · · · · · · · · · · · · · · · · · · | | 168 | 45.2 | 10 U | 0.5 | | 9.3 | 266 | 0.15 | 2 Ų | 4U _ | 0.2 U | |
| 0/29/2013 X | | 0.5 U | - | | 170 | 36,6 | 10 U | 0.5 | T | 8.6 | 278 | 0.22 | 2 U | _ 4U | 0.2 U | |
| 0/29/2013 X | | 0.5 U | | †—— | 176 | 36.8 | 10 U | 0.4 | Ţ <u></u> | 8.6 | 278 | 0.22 | 2 U | 4 U | 0.2 U | |
| | | 1 0.50 | <u> </u> | | 1 | | | | | • | | | | | | |
| 1W-223E | | | T | 1 · · · 2 - 77 | | | | 1 00 | | 7 | 109 | L 90.0 | 0.5 J | 4 U | ſ | |
| | (X GW223B00A | 0.15 U | 6 U | 0.10 | 101 | 2.7 | 3 U | 0.3 | | 2.8 | 114 | 0.03 J | 0.5 U | 4 U | + | |
| | CX GW223803I | 0.24 | 6 U | 0.1 U | 92 | 2.4 | 3 U | 0.2 J | | 4 | 127 | 0.03 3 | 3.3 | 4 U | 0.2 U | |
| | | 0.3 U | ļ <u></u> | 0.1 U | 92 | 2.9 | 3 U | 0.3 | | 3.7 | | | 5.7 | 4U | 0.20 | |
| 5/10/2005 X | (X GW223B13F | 0.3 U | | 0.1 U | 98 | 3.1 | 3 U | 0.2 J | | 3.5 | 120 | | 0.5 U | 4U | 0.20 | |
| 7/26/2005 X | (X GW223B173 | 0.3 U | | 0.1 U | 95 | 3 | 3.0 | 0.2 J | ļ | 3.7 | 127 | | - | | 0.20 | |
| 9/21/2005 X | CX GW223B1A1 | 0.3 U | <u> </u> | 0.1 U | 96 | 3.2 | 310 | 0.2 J | | 3.6 | 129 | | 1.3 J | 4 U | | |
| 5/24/2006 X | CX GW223B1EG | 0.34 | | 0.1 U | 100 | 3.8 | 3 🗓 | 0.4 | <u> </u> | 5.2 | 137 | | 1.6 | 4 U | 0.2 U | |
| 7/26/2006 X | CX GW223B1HD | 0.53 | | 0.1 () | 99 | 2.1 | 6 J | 0.3 | | 3.5 | 142 | | 1.7 | 4 U | 0.2 U | |
| | CX GW223B206 | 0.33 | | 0.1 U | 104 | 2.7 | 3 U | 0.1 U | 1 | 4.2 | 93 | | 2.2 | 4 U | 0.2 U | |
| | (X GW223B23D | 0.5 U | | 0.1 U | 103 | 3.6 | 3 U | 0.1 U | | 3.2 | 117 | | 3.3 | 4 U | 0.37 | |
| | X GW223B27H | 0.3 U | | 0.1 U | 98 | 4.3 | 3 J | 02J | | 56 | 147 | | 2.7 | 4 U | 0.2 U | |
| | X GW223B2A7 | 2.5 U | 1 | 0.1 U | 100 | 5.7 | 3 U | 0.2 J | | 38 | 141 | | 0.5 J | 4 U | 0.20 | |
| | KX GW223B2E1 | 0.3 U | | 0.1 U | 111 | 54 | 3 U | 021 | | 44 | 150 | | 2.2 | 4 U | 0.2 U | |
| | CX GW22382H5 | 0.5 U | - | 0.1 U | 124 | 58 | 4.5 | 0.3 | | 4.9 | 158 | | 0.7 U | 4 U | 0.2 U | |
| | CX GW223B2JF | 0.5 U | | 0.1 U | 120 | 5.5 | 3 J | 0.2 J | | 5.6 | 163 | | 0.8 J | 4 U | 0.2 U | |
| | XX GW223B333 | 0.5 U | | 0.1 U | 103 | 6.8 | 3 U | 0.1 U | | 3 | 145 | | 3.4 | 4 U | 0.2 U | |
| 17 1 12 12 12 12 | CD GWDP4X36I | 0.5 U | | 0.1 U | 128 | 8.7 | 30 | 0.1 U | | 3.9 | 171 | | 0.7 U | 4 U | 0.2 U | |
| | XX GW223B377 | 0.5 U | | 0.1 U | 129 | 9.6 | 3 U | 0.1 U | | 4 | 176 | | 0.7 U | 4 U | 0.2 U | |
| | XX GW22383F2 | 0.3 U | + | 0.1 U | 128 | 10.9 | 3 J | 0.2 J | T | 3.5 | 166 | | U.8.0 | 4 U | 0.2 Ų | |
| · · | XX GW223B401 | 0.3 U | | 0.1 U | 133 | 12.6 | - | 0.1 J | | 3.6 | 185 | | 0.8 J | 4 U | 0.2 U | |
| | | 1.5 | | 1.3 | 140 | 11.8 | | 0.1 U | - | 2.2 | 173 | | 2.6 | 4 U | 0.2 U | |
| | | 1.7 | - | 1.1 | 136 | 12 | - - 5, | 0.1 U | ··· | 2.3 | 173 | | 2.7 | 4 U | 0.2 U | |
| | ·- | | | 0.3 J | 1 128 | 12 | 3u | 0.1 U | - | 3.1 | 195 | | 0.8 J | 4 U | 0.2 U | |
| | XX GW223B469 | 0.33 | | 0.3 J | | 15.6 | +3u | 0.10 | | 2.5 | 185 | | 0.7 U | 4 U | 0.2 Ų | |
| | XX GW223B4AA | 0.3 U | | | 124 | 4 — — | 4 1 | 0.1 J | | 2.6 | 189 | | 1.9 J | 4 U | 0.31 | |
| | XD GWDP3X4DD | 1.2 | | 0.3 J | 127 | i 18 | | 0.1 J | | 3.6 | 198 | | · 1.9 J | 4 U | 0.2 U | |
| | XX GW223B4E8 | 1.1 | | 03J | 122 | 18.1 | 3 1 | _ | | 3.3 | 199 | . —— | 1.8 J | : 4 | 0.27 | |
| | XX GW223B413 | 1 | <u> </u> | 0.6 | 128 | 17.9 | 9.1 | 0.1 U | ļ | 51 | 190 | L— | 2 U | 1 40 | 0.2 U | |
| | XX GW223B52D | 0.57 | | 0.5 U | 118 | 22.3 | | 0.3 U | | | 191 | <u> </u> | 2U - | 40 | 0.2 U | - |
| | XD GWDP3X58H | 0.45 | · | 0.5 U | 117 | 23.7 | 10 U | 0.3 U | ļ | 4.6 | 205 | | 2 U | 40 | 0.2 U | |
| | XX GW223B57C | 0.79 | | 0.5 U | 115 | 24.4 | 10 U | 0.3 U | | | | <u> </u> | 4- — | - 4U | - 0.2 U | |
| 10/23/2012 | XX GW223B5E3 | 0.3 U | | 0.5 U | 121 | 24.1 | 10 U | 0.3 U | <u>-</u> i - · -·· | 5 | 216 | 0.40 | <u>2U</u> | | 0.2 U | |
| 4/23/2013 | XX GW223B5IE | 0 597 | | 0.5 U | 124 | 32.6 | 10 U | 0.3 U | _ | 5.6 | | 0.16 | 2 U | 4 U - | 0.2 U | <u> </u> |
| 7/30/2013 | XX GW223B64J | 0.493 | .] | | 119 | 42.9 | 10 U | 0.5 | | 5.7 | 185 | 0.16 | 2 <u>U</u> | 4 U | | |
| 10/29/2013 | XX GW223B67C | 0.5 U | | | 125 | 34.3 | 10 U | 0.4 | ⊥ . | 5.5 | 202 | 02 | 2.0 | 4 U | 0.20 | |
| 4W-227 | | _ | | | | | | | | | | | | | | |
| 5/5/2004 | XX GW227X015 | 0.15 U | T | 0.1 Ų | 69 | 1.1 | 3 U | 0.1 U | Τ΄΄ | 9.2 | 98 | | 0.5 U | 4 U | 0.2 U | |
| | XX GVV227X04B | 0.15 | | 0.1 U | 78 | 1.6 | 3 ∪ | 0.1 U | | 105 | 95 | | 0.5 U | 4 U | 0.2 U | |
| - : | XX GW227X066 | 0.3 U | | 0.1 U | 81 | 1.7 | 3 Ų | 0.1 U | | 9.6 | 100 | | 2.4 | 4 U | 0.2 U | |
| | XX GW227X127 | 0.3 U | | 0.1 U | 81 | 1.5 | 3 U | 0.1 U | . | 10.5 | 113 | | 0.5 J | 4 U | 0.2 U | |
| | XX GW227X15F | 0.3 U | 1 | 0.1 U | 79 | 1.7 | 3 U | 010 | † | 83 | 113 | .,, | 0.7 J | 4 U | 0.2 U | |
| 7127112UUUL 1 | | | - | 0.1 U | 79 | 1.8 | 3 U | 0.1 U | 1 | 9.3 | 108 | | 1.3 J | 40 | 0.2 U | |
| | VV GM7277180 | | | | | | | | | | | | | | | |
| 9/21/2005 | XX GW227X18D XX GW227X1D8 | 0.3 U | | 0.10 | B1 | 2 | 30 | 0.1 J | | 12.8 | 116 | | 2.2 | 4 U | 0.2 U | |

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| | | FOR: Juniper R | idg e Landfill | | | | | Inorga | nics (part 1 | of 1) | | | | | 4 BLAN CUMBE | CHARD ROAD RLAND CENTER | ME 04021 |
|------------|-------------|----------------|----------------------------|---------------------------------|-------------|------------------------|----------|------------------------------|---------------|-------------------------|------------|---------------------------|----------------|----------------|------------------------------|--------------------------------------|--------------|
| (MW-22) | 7) | | Total Kjeldahi Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lìgnins (Tannic Acid) | |
| Date | Type | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg∕L | mg/L | mg/l. | |
| 9/13/2006 | Гхх | GW227X18 | 0.55 | | 0.1 U | 84 | 1.4 | 3 J | 0.1 U | | 9.2 | 74 | | 0.5 J | 4 U | 0.2 U | |
| 5/15/2007 | | GW227X225 | 0.5 U | | 0.1 U | 79 | 1.7 | 3 U | 0.1 U | | 8.8 | 95 | | 2.2 | 4 U | 0.45 | |
| 7/24/2007 | - | GW227X269 | 0.3 U | | 0.1 U | 75 | 2.4 | 61 | 0.10 | | 9.9 | 120 | | 3.7 | 4.0 | 0.2 U | |
| 9/11/2007 | 4 — | GW227X28J | 0.5 U | | 0.1 ป | 77 | 2.6 | 5.1 | 0.1 U | | 10.5 | 112 | | 1.1 J | 40 | 0.2 U | |
| 5/20/2008 | XX | GW227X2CD | 0.3 U | | 0.1 U | 80 | 1.5 | 3 U | 0.1 J | | 11 | 104 | | 2.9 | 4 | 0.2 U | |
| 7/30/2009 | XX | GW227X2FH | 0.5 U | | 0.1 U | 82 | 1.5 | 3J | 0.2 J | | 11.3 | 116 | | 1.2 J | 4 U | 0.2 U | |
| 10/27/2008 | XX | GW227X217 | 0.5 U | L | 0.1 U | 75 | 1.3 | 3.0 | 0.10 | | 14.4 | 98 | | 1.6 J | 4U | 0.2 U | |
| 4/14/2009 | XX | GW227X31F | 0.5 U | | 0.1 U | 80 | 3 | 3 U | 0.1 U | | 8.9 | 122 | · | 2.8 | 4 U | 0.2 U | |
| 7/7/2009 | XX | GW227X35J | 0.5 U | : | 0.1 U | 75 | 2 | 3 U | 0.1 U | | 10.4 | _ 111 | | 0.7 U | 4 U | 0.2 U | |
| 10/27/2009 | XX | GW227X3DE | 0.3 U | | 0.1 U | 80 | 2.3 | 3 U | 0.1 U | | 9.2 | 105 | | 1.7 J | 40 | 0.2 U | |
| 4/27/2010 | XX | GW227X3ID | 0.3 U | | 0.1 U | <u>B1</u> | 22.9 | 3 U | 0.1 J | | 1.6 J | 99 | | 6.9 | 4 U | 0.2 U | |
| 7/20/2010 | XX | GW227X41H | 0.3 U | | 0.1 J | 79 | 1.1 | 3∪ | 0.1 U | | 8.6 | 100 | | 0.7 U | 4 U | 0.2 U | |
| 10/19/2010 | XX | GW227X451 | 0.3 U | .] | 0.1 U | 77 | 17 | 3 U | 0.1 U | | <u>8.1</u> | 115 | | 0.7 U | 4 U | 0.2 U | |
| 4/26/2011 | XX | GW227X492 | 0.3 U | | 0.1 U | 76 | 1.1 | 30 | 0.1 U | | 7,5 | 114 | | 0.7 ป | 4 U | 0.2 U | |
| 7/19/201: | XX | GW227X4D0 | 0.3 U | | 0.1 U | 80 | 1 | 3 U | 0,1 U | 1 | 9.7 | 115 | | 0.7 U | 40 | 0.2 U | |
| 10/25/2011 | XX | GW227X4GF | 0.3 U | <u> </u> | 0.1 U | 78 | 2.2 | 3 U | 0.1 U | | 11.2 | 107 | <u> </u> | 0.7 U | 4 U | 0.2 U | |
| 4/24/2012 | XX | GW227X515 | 0.3 U | L | 0.5 U | 79 | 1.6 | 10 ป | 030 | <u> </u> | 12 | 108 | <u>-</u> | 2.0 | 4 U | 0.2 U | |
| 7/24/2012 | XX | GW227X564 | 0.3 U | 1 | 0.5 U | 75 | 1 ป | 10 U | 031) | <u> </u> | 13.4 | 109 | | 20 | 4 U | 0.2 U | |
| 10/23/2012 | XX | GW227X5CF | 0.31 | 1. | 0.5 U | 78 | 2.6 | 10 U | 030 | | 11.2 | 222 | | 21/ | 4 U _ | 0.2 U | |
| 4/23/2013 | | GW227X5H8 | 0.3 U | | 0.5 U | 81 | 2.4 | 10 U | 0.3 U | | 14.4 | 118 | 0.1 U | 20 | 40_ | 0.2 U | |
| 7/30/2013 | | GW227X83B | 0.635 | | | 77 | 2 | 10 U | 0.3 U | | 11.5 | 103 | 0.1 U | 20 | 4 U | 0.2 U | |
| 7/30/2013 | 4 | GWDP3X644 | 0.59 | | <u> </u> | 77 | 2.1 | 10 U | 0.3 U | | 12.9 | 104 | 0.1 U | 2 U | 40 | 0.2 U | |
| 10/29/2013 | XX | GW227X664 | 0.5 U | <u> </u> | . L | 79 | 2.5 | 10 U | 0.3 U | <u>i</u> | 11 | 114 | 0.1 U | 20 | 40 | 0.20 | L |
| MW-30 |)1 | | | | | | | | | | | | | | | | |
| 5/5/2004 | 1 XD | GWDP3X01J | 0.15 U | 1 | 0.1 U | 79 | 1.4 | 3 U | 0.1 U | | 0.1 U | 96 | | 053 | 4 U | 0.2 U | |
| 5/5/2004 | | GW301X016 | 0.31 U | † | 0.1 U | 87 | 1.3 | 3 U | 0.1 U | | 9 | 100 | | 0.5 J | 4 U | 0.2 U | |
| 7/26/200 | + | GW301X04C | 0.15 U | | 0.1 U | 76 | 1.8 | 3 U | 0.1 U | | 11.7 | 101 | | 0.5 U | 4 U | 0.2 U | |
| 10/25/200 | | GW301X067 | 0.3 U | | 0.1 U | 76 | 1.8 | 3 U | 0.1 U | <u> </u> | 11 | 117 | | 2.1 | 40 | 0.2 U | |
| 5/9/200 | | GW3D1X128 | 0.3 U | · | 0.1 U | 75 | 1.8 | 3 Ų | 0.1 U | | 12.2 | 113 | | 4.2 | 4 U | 0.2 U | |
| 8/1/200 | | GW301X15G | 0.34 | | 0.1 U | 76 | 1.9 | 3 U | 0.1 U | | 8 | 108 | l | 0.5 U | 4 U | 0.2 U | |
| 9/22/200 | | GW3D1X18E | 0.3 U | | 0.1 1 | 75 | 2 | 3 U | 0.10 | | 10 9 | 115 | L | 1.4 J | 4 U | 0.2 U | |
| 5/22/2000 | | GW301X1D9 | 0 39 | | 0.1 U | 78 | 3.4 | 3 U | 0.1 U | | 14 3 | 122 | | 1.9 | 5 | 020 | |
| 7/24/200 | _ | GW301X1G6 | 0.6 | | 0.1 U | 76 | 15 | 3 U | 0.1 U | | 11.5 | 1.09 | 1 | 13J | 4 U | 02U | |
| 9/11/200 | _ | GW301X1IJ | 0.37 | | 0.1 U | 77 | 1 5 | 3 U | 0.1 U | | 11.5 | 104 | | 2.1 | 6 | 0.2 U | |
| 5/14/200 | _ | GW301X226 | 0.5 U | | 0.1 U | 73 | 1.7 | 3 Ų | 0.1 U | | 9.8 | 124 | | 1.3 J | 4 | 0.2 U | |
| 7/23/200 | - · | GW301X26A | 0.3 Ų | | 0.1 U | 72 | 2 | 91 | 0.1 ป | | 11.8 | 110 | | 1.7 | 18 | 0.2 U | L |
| 9/10/200 | | GW301X290 | 0.3 U | | 0.1 U | 74 | 1.8 | 3 J | 0.1 U | | 14.1 | 144 | | 0.9 J | 4 U | 0.2 U | |
| 5/19/200 | | GW301X2CE | 0.5 U | i | 0.1 U | 75 | 1.2 | 3 U | 0.1 U | <u> </u> | 14.4 | 114 | ↓ — | 2 | 4 !! | 0.2 U | |
| 7/30/200 | 3 XX | GW301X2FI | 0.5 U | | 0.1 U | 75 | 1.7 | 3 J | 0.1 J | <u> </u> | 14.8 | 121 | ļ | 1.3 J | 5 | 0.2 U | <u> </u> |
| 10/28/200 | XX B | GW301X2I8 | 0.5 U | | 0.1 U | 75 | 1.1 | 3 J | 0.1 ป | | 14.8 | 125 | <u> </u> | 0.7 U | 4 U | 0.21 | : |
| 4/15/200 | XX | GW301X31G | 0.5 Ų | | 0.1 U | 91 | 6 | 12 | 0.7 | | 14.4 | 160 | ļ | 5.7 | 4 U | 0.2 U | |
| 7/7/200 | XX E | GW301X360 | 0.5 U | | 0.1 U | 76 | 1.9 | 4 J | 0.1 U | | 13.6 | 11B | | 1.2 J | <u> </u> | 0.2 U | |
| 10/26/200 | 9 XX | GW301X3DF | 0.3 IJ | | 0.1 U | 82 | 1.9 | 3 U | 0.1 U | | 12.5 | 123 | - | 0.7 U | 7 | <u>0.2 U</u> | |
| 4/26/201 | O XX | GW301X3IE | 0.3 U | | 0.1 U | 72 | 2.6 | 3 U | 0 .1 U | | 12.4 | 117 | | 1.9 J | 21 | 0.2 U | - |
| 7/19/201 | 0 XX | GW301X41L | 0.3 U | | 0.1 U | 73 | 14 | 3 U | 9.1 U | | 11.7 | 109 | | 0.7 U | 8 | 0.2 U | - |
| 10/19/201 | | GW301X452 | 0.3 U | | 0.1 U | 76 | 1.5 | 3 U | 0.1 U | <u> </u> | 123 | 133 | 1 | 0.7 U | 4 U | 0.2 U | |
| 4/27/201 | | GW301X493 | 0.34 | | 0.1 U | 76 | 1.3 | 3 🛭 | 0.1 U | · | 10.3 | 126 | 1 | 0.7 U | 4 U | 0.2 U | |
| 7/20/201 | | GW301X4D1 | 0.41 | | 018 | 73 | 1.4 | 3 U | 0.1 U | | 11.7 | 118 | | 0.7 U | 40 | 0.2 U | ļ |
| 10/26/201 | 1 XX | GW301X4GG | 0.3 U | | 01 U | 72 | 1.9 | 3 J | 0.1 U | | 11 3 | 127 | | 0.7 U | .6 | 0.2 U | I |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | | | | | | | | " | | | | | | CUMBE | ERLAND CENTER, | ME 04021 |
|-----------|---------------|---|--|--|------------------------|----------|------------------------------|-------------|--|----------|---------------------------|----------|--|------------------------------|--------------------------------------|---------------|
| (MW-301) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date T | ype Sample ID | mg/L | mg/L | my/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 4/25/2012 | XX GW301X518 | 0.3 U | 1 | 0.5 ป | 76 | 2.3 | 10 U | 0.3 U | | 15 | 123 | | 2 U | 13 | 0.2 U | |
| | XX GW301X585 | 0.3 Ū | 1 | 0.5 U | 74 | 2.3 | 10 U | 0.3 U | | 14.3 | 118 | | 2 U | 4 U | 0.2 U | |
| | XX GW301X5CG | 0.3 U | 1 | 0.5 U | 77 | 2.3 | 10 U | 0.3 U | | 15.1 | 130 | | 2 U | 20 | 0.2 U | |
| | XD GWDP4X50E | 0.31 | 1 | 0.5 U | 75 | 2.3 | 10 U | 0.3 U | | 15.2 | 118 | | 2 U | 15 | 0.2 U | |
| | XX GW301X5H7 | 0.31 | | "." · · · · | l | 1 | 100 | 3.5 3 | | 1 | 1 1 | ! | | 1 | 1 | |
| | XX GW301X63C | 0.543 | | | 76 | 2.3 | 10 Ų | 0.3 U | | 14.6 | 136 | 0.1 U | 2 U | 11 | 1 U | |
| | XX GW301X866 | 0.5 U | 1 | | 76 | 3.1 | 10 U | 0.3 U | | 11.9 | 130 | 0.1 U | 2 U | 4 | 0.2 U | |
| | XD GWDP1X866 | 0.5 U | | | 75 | 3.1 | 10 U | 0.3 U | i | 14,5 | 129 | 0.1 U | 2 U | 4 U | 0.2 U | |
| MW-302 | | 0.50 | ـــــــ | <u> </u> | | J | 1 | .1 0.0 0 | | | | | | | , | |
| | XX GW302X009 | 0.22 | 6 U | 0.1 U | 143 | 6.1 | l su | 0.2 J |] | B.7 | 197 | 0.03 J | 0.5 U | 10 | | |
| | XX GW302XHD1 | 0.22 | 6 U | 0.10 | 137 | 5.7 | 3 U | 0.2 5 | | 10.1 | 180 | 0.04 J | 0.8 J | 4 U | + | |
| | XX GW302X07C | 0.52 | " - | 0.10 | 149 | 5.6 | 3 U | 0.5 | †··· | 10.3 | 188 | | 1.5 | 4 U | 0.2 U | |
| | XX GW302X13D | 0.3 U | + | 0.10 | 139 | 14.3 | 30 | 0.4 | | 10.2 | 192 | | 2.7 | 5 | 0.2 U | |
| | XX GW302X171 | 0.3 U | | 0.1 U | 121 | 12.9 | 30 | 0.4 | | 7 | 199 | | 1.3 J | - - - | 0.2 U | |
| | XX GW302X19J | 0.3 U | | 0.10 | 159 | 14.6 | 30 | 0.5 | | 9.4 | 227 | | 2.3 | 60 | 0.2 U | |
| | XX GW302X1EE | 0.85 | | 0.1 U | 112 | 18.4 | 3 J | 0.6 | | 11.7 | 208 | | 3.3 | 18 | 0.2 U | |
| | XX GW302X1HB | 0.37 | | 0.1 U | 110 | 26.6 | 3 U | 0.2 J | | B.5 | 261 | | 1.7 | 21 | 0.2 U | |
| | XX GW302X204 | 0.49 | + | 0.1 U | 115 | 34.4 | 30 | 0.1 J | | 9.5 | 258 | | 1.1 J | 40 | 0.2 U | |
| | XX GW302X23B | 0.5 U | +· | 0.1 U | 100 | 193 | 31 | 0.1 J | | 7.2 | 198 | ···· | 3.4 | 4 U | 0.2 U | |
| | XX IGW302X27F | 0.3 U | | 0.1 U | 100 | 18 | 9.1 | 0.1 U | | 9.5 | 190 | | 1 J | 4 U | 0,2 U | |
| | XX GW302X2A5 | DE | | DE | DE | DE | DE | DE | | DE | DE | | DE | DE | DE | |
| MW-302 | | <u>ــــــــــــــــــــــــــــــــــــ</u> | <u> </u> | 01 | 1 | 1 52 | | | · · | | | | | | | |
| | | | | | , | | | т | .,- | | · | | · · · · · · · · | | | |
| | XX GW302X2DJ | 0.3 U | <u> </u> | 0.1 U | 66 | 26.2 | 3 U | 023 | | <u>7</u> | 148 | | 21 | 4 | 0.2 U | |
| | XX GW302X2H3 | 0.5 U | | 0.1 U | 75 | 22.2 | 3 J | 0.3 | | 9 | 176 | | 1.2 J | 4 U | 0.2 ป | |
| | XX GW302X2JD | 0.5 U | | 0.1 U | 91 | 22.5 | 3 U | 02J | | 10.5 | 201 | | 1.3 J | 4 U | 0.2 U | |
| | XX GW302X331 | 0.5 U | | 0.1 U | 44 | 20.8 | 5 J | 0.3 | . | 5.6 | 145 | | 31 | 4 U | 0.2 U | |
| | XX GW302X375 | 0.5 U | | 0.1 U | 46 | 25.4 | 3 J | 0.1 U | | 8.8 | 144 | | 12J | 4 U | 0.2 U 0.2 U | |
| | XX GW302X3F0 | 0.3 U | | 0.1 U | 118 | 55.9 | 3.J | 0.7 | <u> </u> | 22.9 | 306 | | 15 J | 4 U | 0.20 | |
| | XX GW302X3JJ | 03U | ļ | 0.1 ป | 46 | 12.8 | 3 U | 0.1 J | | 6.9 | 78 | | 1 J | | | |
| | XX GW302X433 | 03U | | 0.1 U | 106 | 56.1 | 30 | 1.4 | 1 | 18 | 318 | | 0.8 J | 4 U _ | 0.20 | |
| | XX GW302X467 | 0.3 U | | 0.1 U | 96 | 60 8 | 3 U | 1.6 | 1 | 21.7 | 327 | | 0.9 J | 4U | 0.20 | |
| | XX GW302X4A8 | 0.3 U | . | 0.1 U | 44 | 51.2 | 3 U | 0.2 J | 1 | 8.9 | 196 | | 0.7 U | 4 U | 0.20 | |
| | XX GW302X4E6 | 0.3 U | | 0.1 U | 58 | 61.5 | 3 U | 0.2 J | i | 13 3 | 239 | | 0.7 J | 4 U | - 0.2 U | |
| | XX GW302X4I1 | 0.3 U | 1 | 0.1 U | 80 | 49.3 | 3 U | 0.4 | <u> </u> | 15.8 | 236 | | 0.7 J | 4 U | 0.2 U | <u> </u> |
| | XX GW302X52B | 0.3 U | . | 0.5 U | 51 | 28.2 | 10 U | 0.3 U | | 10.8 | 150 | | 20 | 4 U | 0.2 U 0.2 U | · · |
| | XX GW302X57A | 0,3 | | 0.5 U | 57 | 52.4 | 10 () | 0.3 U | <u> </u> | 21.1 | 223 | | 20 | <u>4 U</u> | | |
| | XX GW302X5E1 | 0.64 | | 0.5 U | 78 | 66.1 | 10 () | 0.8 | | 28.8 | 287 | | 2 U | 4 U | 0.20 | |
| | XX GW302X5IC | 0.3 U | | 0.5 U | 46 | 24.5 | 10 U | 0.3 U | 1 | 11.7 | 120 | 0.1 U | 2 U | 4 U | 0.20 | |
| | XX GW302X64H | 0.68 | · · · · · · · · · · · · · · · · · · · | | 53 | 77.1 | 10 U | 0.6 | | 17.9 | 234 | 0.1 U | 2 U | 4 U | 0.20 | |
| ·· ·· | XX GW302X67A | 050 | I | <u> </u> | 57 | 55.8 | 10 U | 0.6 | <u> </u> | 16 | 199 | 0.1 U | 2 U | <u>4 U</u> | 0.2 U | l |
| MW-303 | | ., | | | ¬-·- | 1 | | | | | | | 1 | | | - |
| | XX GM303X00C | 0.15 U | 6 U | 0.1 U | 23 | 1.9 | 3 U | 0.10 | ļ | 1 | 62 | 0.03 U | 0.5 U | 4 U | | |
| | XX GW303X040 | 0.15 U | 6 U | ! 0.1 U | 24 | 2 | 3.J | 010 | | 1.9 | 50 | 0 03 U | D.5 U | 4 U | 1 | |
| | XX GW303X07G | 0.62 | | 0.1 U | 23 | 2.1 | 3 U | 010 | | 1.6 | 47 | | - 1.1 J | 5 | 0.20 | |
| | XD GWDP3X08J | 0.3 U | | 01U | 24 | 1.5 | 3 U | 02J | | 1.1 | 60 | | 1.3 J | 8 | 0.2 U | |
| | XX GW303X13H | 0.3 U | | 010 | 25 | 1.6 | 3 U | 0.1 J | | 2.6 | 59 | | 0.8 J | 4 U | 0.2 U | - " |
| | XD GWDP1X15H | 030 | | 01U | 24 | 1.8 | 3 U | 0.1 U | | 1 J | 45 | | 07J | 4U | 0.2 U | |
| 8/1/2005 | χχ GW303X175 | 03U | 1 | 0.1 U | 24 | 1.8 | 3 U | 0.1 U | <u> </u> | 1.4 』 | 40 | <u> </u> | 0.5 U | 4 <u>U</u> | 0.2 U | l |

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| | | rok. Juniperk | | | | | | inorga | anics (part 1 | of 1) | | | | | | CHARD ROAD RLAND CENTER, | ME 04021 |
|------------|---------------|---------------|----------------------------|--|-------------|------------------------|-------------|------------------------------|---------------|--|-----------------|-----------------------------------|--|------------------------|--------------------------------------|--|----------|
| (MW-303 | • | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus mg/L | Sulfate mg/L | Total Dissolved Solids mg/L | Bromide mg/L | Organie Carbon mg/L | Total Suspended Solids mg/L | Tannin & Lignins (Tannic Acid) mg/L | |
| Date | Type | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | III ST. | ußr | 111g/L | mgr | mg/L | mg/ C | 1100 | | |
| 9/19/2005 | ХX | GW303X1A3 | 0.3 U | | 0.1 U | 25 | 2.1 | 30 | 0.1 U | | 1.7 J | 44 | | 1.1 J | 4 U | 0.2 U | |
| 5/23/2006 | | GW303X1EI | 0.3 U | | 0.1 U | 25 | 2.8 | 4.1 | 0.1 3 | | 2 | 68 | | 1.4 J | 4 U | 0.2 U | |
| 7/24/2006 | | GWDP4X1H4 | 0.34 | | 0.1 U | 23 | 1.5 | 3 U | 0.1 J | | 1.6 J | 51 | | 1.5 | 40 | 0.2 U | |
| 7/24/2006 | XX | GW303X1HF | 0.37 | | 0.1 U | 24 | 1.5 | 3 U | 0.1 J | | 1.6 J | 47 | | 1 J | 4 U | 0.2 U | |
| 9/12/2006 | XX | GW303X208 | 0.3 U | | 0.1 U | 24 | 1.6 | 3 U | 0.1 U | | 1.B J | 35 | | 1 J | 4 U | 0.2 U | |
| 5/14/2007 | XX | GW303X23F | 0.66 | | 0.1 U | 26 | 1.6 | 3 U | 0.1 U | l | 1,5 J | 67 | | 1.8 | 4 U | 0.2 U | |
| 7/25/2007 | XD . | GWDP4X278 | 0.3 U | T — | 0.1 Ų | 24 | 2.5 | 13 | 0.1 U | | 1,9 J | 55 | | 0.9 J | 40 | 0.2 U | |
| 7/25/2007 | _ | GW303X27J | 0.3 U | | 0.1 U | 22 | 2.4 | 6J | 0.1 U | | 1.9 J | 49 | | 1.3 J | 4 U | 0.2 U | |
| 9/11/2007 | | GW303X2A9 | 0.5 U | | 0.1 U | 28 | 2.8 | 3 U | 0.1 U | | 1 J | 67 | | 2.2 | 4 U | 0.2 U | |
| 9/11/2007 | | GWDP1X291 | 0.5 U | | 0.1 U | 27 | 2.5 | 13 | 0.1 U | | 1 J | 57 | | 2.2 | 4 U | 0.2 U | |
| 5/19/2008 | | GW303X2E3 | 0.5 U | | 0.1 U | 41 | 1.3 | 3 U | 0.1 U | | 1.7 J | 65 | | 1,1 J | 4 U | 0.2 U | |
| 7/29/2008 | | GWDP4X2GG | 0.5 U | | 0.1 U | 50 | 1.7 | 3 J | 0.2 J | | 2 | 67 | | 1.4 J | 4 U | 0.2 U i | |
| 7/29/2008 | 1 | GW303X2H7 | 0.66 | † | 0.1 U | 49 | 1.7 | 4.1 | 0.1 J | | 2.2 | 65 | | 0.7 J | 40 | 0.2 U | |
| 10/27/2008 | | GWDP3X2J0 | 0.5 U | | 0.1 U | 52 | 1.8 | 3 () | 0.1 U | 1 | 2.5 | 71 | | 1 J | 4 U | 0.2 U | |
| 10/27/2008 | - | GW303X2JH | 0.5 U | | 0.1 U | 54 | 1.6 | 31) | 0.1 U | · · | 1.8 J | 81 | | 1 J | 4 U | 0.2 U | • |
| 4/13/2009 | | GW303X335 | 10 | | 0.10 | 72 | 3.2 | 6.1 | 0.2 J | · · | 2.1 | 120 | | 1.8 J | 4 U | 0.2 U | |
| 7/6/2009 | | GWDP3X36C | 1 U | | 0.1 U | 87 | 4.3 | 3 U | 0.1 U | | 1.8 J | 115 | | 2.1 | 4 U | 0.2 U | |
| 7/6/2009 | | GW303X379 | 2 U | | 0.1 U | 86 | 4.1 | 3 U | 0.1 U | | 1.8 J | 115 | | 1.9 J | 4 U | 020 | |
| 10/28/2009 | | GW303X3F4 | 0.3 U | <u> </u> | 0.1 U | 77 | 3.7 | 3 U | 0.1 U | | 1.3 J | 103 | | 1.1 J | 4 U | 0.2 U | |
| 4/26/2010 | | GW303X403 | 0.3 U | · · · · · · · · · · · · · · · · · · · | 0.1 J | 89 | 8.3 | 3 U | 0.1 U | | 1.5 J | 108 | | 1.7 J | 4 U | 0.2 U | |
| 7/19/2010 | | GWDP4X42G | 0.51 | - | 0.1 Ų | 92 | 4.6 | 3 U | 0.1 U | | 1.2 3 | 117 | | 0.7 U | 4 U | 0.2 U | |
| 7/19/2010 | | GW303X437 | 0.3 U | | 0.1 U | 91 | 4.5 | 3.0 | 0.1 U | | 1.2 J | 115 | | 0.7 U | 4 U | 0.2 U | |
| 10/18/2010 | _ | GW303X46B | 0.3 U | | 0.1 U | 82 | 3.5 | 3 U | 0.1 U | | 0.8 J | 111 | <u> </u> | 0.7 U | 6 | 0.2 U | |
| 4/25/2011 | - | GW303X4AC | 0.3 U | | 0.1 U | 96 | 6.8 | 3 U | 0.1 U | | 1.9 J | 139 | | 0.7 U | 4 U | 0.2 U | |
| 7/18/2011 | , ,,,,, | GW303X4EA | 0.34 | | 0.1 U | 101 | 5.8 | 3 U | 0.1 U | | 0.9 J | 135 | | 0.8 J | 4 U | 0.2 U | |
| 7/18/2011 | - | GWDP4X4DJ | 0.36 | | 0.1 U | 101 | 5.3 | 3 U | 0.1 U | T | 0.8 J | 138 | | 0.7 J | 4 U | 0.2 U | |
| 10/24/2011 | | GW303X4I5 | 0.3 U | · ·· | 0.1 U | 105 | 5.9 | 310 | T 0.1 U | | 1.1 3 | 132 | | 0.B J | 40 | 0.2 U | |
| 10/24/2011 | 1.0. | GWDP4X4HE | 0.3 U | - / | 0.1 U | 106 | 5.9 | 3 U | 0,1 U | T | 1.1 3 | 135 | | 0.9 J | 4 U | 0.2 U | |
| 4/23/2012 | | GW303X52F | 0.3 U | | 0.5 U | 113 | 7.5 | 10 ប | 0.3 U | | 2.1 | 162 | | 2 U | 5 | 0.2 U | |
| 7/24/2012 | | GW303X57E | 1 | | 1 | 1 | | 1 | · · | | 1 | <u> </u> | F ' " | į. | _ · · | ! | |
| MW12- | | | | | | | · | | | | | | | | | | |
| 10/23/2012 | | GW303X5EG | 0.3 U | T | 0.5 U | 92 | 4.9 | 10 U | D.3 U | | 4.2 | 143 | I'' | 2 U | 4 U | 0.2 U | |
| 4/22/2013 | - | GW303X5IG | 0.3 U | | 0.5 U | 114 | 6.6 | 10 U | 0.3 U | 1 | 7.6 | 159 | 0.22 | 2 U | 4 U | 0.20 | |
| 7/29/2013 | h | GW303X851 | 0.673 | . | 10.00 | 113 | 8 | 10 U | 0.5 | | 4.2 | 195 | 0.3 | | 4 U | 0.20 | |
| | | GW303X87D | 0.673 | · · · · · · | | 111 | + 84 · | 10 U | 0.5 | | 2.8 | 158 | 0.42 | 2 U | 4 Ų | 0.2 U | |
| MW-30 | | | 1 0.50 | <u>i</u> | | 1111 | <u> </u> | | 0.0 | | 1 2.0 | | L :: <u></u> | | | · | |
| | | GW304AHD0 | 1 04514 | 6 U | 0.1 U | 77 | 2.3 | 4 J | 0.1 U | 0.02 J | 5 | 130 | <u> </u> | 0.5 U | i 4U | 1 1 | |
| 7/29/2004 | | | 0.15 U | | | | 2.3 | 4 J | 0.1 U | 0.02 J | 4.3 | 95 | | 4 | 40 | | |
| 10/27/2004 | + | GW304A07B | 030 | 6 U | 0.1 U | 92 | | 1 3 U | 0.1 U | | 1.5 J | 63 | | 0.5 J | 40 | 0.2 U | |
| 5/11/2005 | | GW304A13C | 0.3 U | + | 0.1 U | - | 1 1 8 | 30 | 0.1 U | + | 2.2 | 61 | | 0.7 J | | 0.2 U | ·· |
| 7/28/2005 | | GW304A170 | 0.3 U | | 0.1 LI | 39 54 | 1.8 | 3 <u>n</u> | 0.1 U | | 4 | 75 | | 0.7 J | - 4U | 0.2 U | |
| 9/19/2005 | + | GW304A191 | 0.32 | | 0.1 U | 54 | 2.1 | - 30 | 0.1 U | · † · · | 4.7 | 92 | | 1.2 J | - 4U | 020 | . — |
| 5/24/2006 | + | GW304A1ED | 0.44 | | | | 13 | 5 J | 0.1 J | 1 | 2.9 | 79 | | 1.2 J | 12 | 0.2 U | |
| 7/25/2006 | | GW304A1HA | 0.41 | - - | 0.1 U | 48 | | 3 U | 0.1 U | | 2.8 | 70 | | 0.9 J | 4 U | 020 | |
| 9/12/2006 | - | GVV304A203 | 0.3 U | ! | 010 | 54 | 1.6 | | | + | 3 | 59 | | 1.5 | - 17 | 0.45 | |
| 5/15/2007 | | GW304A23A | 0.5 U | i | 0.1 U | 48 | 2 | 10 | 011 | | | | _ | 3.3 | - 17 4 U | 0.2 U | |
| 7/24/2007 | | GW304A27E | 0.3 U | <u> </u> | 0.1 U | 55 | 2.5 | 8 J | 0.2 J | | 3.9 | 91 | · | | | 0.2 U | |
| 9/11/2007 | L | GW304A2A4 | 0.5 U | <u> </u> | 0.1 U | 49 | 2.6 | 7 J | 0.1 J | | 3 | 89 | ļ | 0.9 J | 4 U | - 0.2 U | |
| 5/20/2008 | XX. | GW304A2DI | 0.3 U | <u> </u> | 0.10 | 39 | 1.7 | 3.J | 0.2 J | . I <u> </u> | 2.7 | 55 | <u> </u> | 2.3 | 4U | 1 0.2 0 | |

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|------------|-------------|------------------------|----------------------------|--|----------------|------------------------|----------|------------------------------|---------------|--|---------|---------------------------|--|----------------|------------------------------|--------------------------------------|----------|
| (MW-304 | A) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 7/29/2008 | хх | GW304A2H2 | 1 U | | 0.1 U | 53 | 1.7 | 3 J | 0.2 J | [| 4.3 | 75 | | 2 | 4 U | 0.2 U | |
| 10/27/2008 | | GW304A2JC | 0.5 U | | 0.1 U | 60 | 2.5 | 3 🛭 | 0.1 J | | 8.8 | 93 | | 1.1 3 | 4 U | 0.2 U | |
| 4/13/2009 | | GW304A330 | 1 U | | 0.1 U | 43 | 2 | 3 U | 0.2 J | | 3.2 | 83 | | 1.2 J | 4 U | 0.2 U | |
| 7/6/2009 | | GW304A374 | 2 U | | 0.1 U | 49 | 2.1 | 3 U | 0.1 J | | 3.4 | 68 | | 0.7 U | 4 U | 0.2 Ų | |
| 10/27/2009 | | GW304A3EJ | 0.3 U | | 0.1 U | 51 | 3.3 | 3 Ų | 0.1 U | | 27 | 83 | | 1.8 J | 4 U | 0.2 U | |
| 4/26/2010 | | GW304A3ĴI | 0.3 U | | 0.1 U | 41 | 3.5 | 3 U | 0.1 U | | 2.6 | 54 | | 0.7 U | 4 U | 0.2 U | |
| 7/19/2010 | - | GW304A432 | 0.3 U | | 0.1 υ | 49 | 3.2 | 3 U | 0.1 U | | 2.5 | 68 | | 0.7 U | 4 U | 0.2 U | |
| 10/18/2010 | - | GW304A466 | 0.3 U | ! | 0.1 J | 45 | 2.3 | 3 U | 0.1 U | | 2.4 | 70 | | 0.7 U | 259 | 0.2 U | |
| 4/25/2011 | | GW304A4A7 | 0.59 | 1 | 0.1 U | 37 | 2.1 | 3 U | 0.1 U | T-: | 1.6 J | 63 | | 0.7 U | 4 U | 0.2 U | |
| 7/16/2011 | | GW304A4E5 | 0.3 | | 0.1 U | 44 | 3 | 3 U | 0.1 U | T | 2.1 | 72 | | 0.7 U | 4 U | 0.2 U | |
| 10/24/2011 | | GW304A4ID | 0.3 U | | 0.1 U | 46 | 3.3 | 3 U | 0.1 U | | 3,5 | 73 | | 0.7 U | 4 Ų | 0.2 U | |
| 4/23/2012 | | GW304A52A | 0.3 U | | . 0.5 U | 56 | 3 | 10 U | 0.3 U | | 5.7 | 94 | | 2 U | 4 U | 0.2 U | |
| 7/23/2012 | | GW304A579 | 0.3 U | | 0.5 U | 55 | 1.9 | 10 U | 0.3 U | | 2.4 | 95 | | 2 U | 4U | 0.2 U | |
| 10/22/2012 | | GW304A5E0 | 1.2 | | 0.5 U | 43 | 1.8 | 10 U | 0.3 U | | 2 U | 74 | T | 2 U | U | 0.2 U | |
| 4/22/2013 | | GW304A5IB | 0.3 U | | 0.5 U | 52 | 3.1 | 10 U | 0.3 U | 1 | 6.7 | 82 | 0.1 U | 2 U | 4 U | 0.2 U | |
| 7/29/2013 | , | GW304A64G | 0.685 | | | 57 | 2.9 | 10 U | 0.3 U | · | 6.3 | 87 | 0.1 U | 2 U | 4 U | 0.2 U | |
| 10/28/2013 | | GW304A679 | 0.5 U | | 1 | 52 | 3.2 | 10 U | 0.3 U | 1 | 5.4 | 85 | 0.1 U | 20 | 5 | 0.2 U | |
| MW-40 | | L | .1 | 1 | | | 1 | | -1 | | | | | | | | |
| 7/29/2004 | | GW401A058 | 0.3 | 6 U | 0.1 U | 64 | 1.6 | 4 J | 0.1 U | D.04 | ; 3 | 87 | ı <u></u> - | 0.50 | 40 | - | |
| 10/27/2004 | | GWDP4X075 | 0.32 | 6 Ų | 0.1 U | 62 | 1.8 | 3 U | 0.2 J | 0.08 | 2.7 | 68 | | 0.5 J | 4 | | |
| 10/27/2004 | | GW401A071 | 0.53 | 6 U | 0.1 U | 58 | 1.8 | ; 6J | 0.1 U | 0.08 | 2.7 | 68 | | 2 | 4 ∪ | | |
| 5/10/2005 | | GW401A132 | 0.3 U | | Q.1 U | 53 | 1.8 | 3 U | 0.1 U | | 2.5 | 75 | | 05U | 4 U | 0.2 U | |
| 7/28/2005 | | GWDP4X16E | 0.3 U | | 0.1 U | 58 | 1.7 | 30 | 0.1 U | | 2 | 81 | | 050 | 4 U | 0.2 U | |
| 7/28/2005 | | GW401A16A | 0.3 U | | 010 | 59 | 1.8 | 3 U | 0.1 U | | 2.4 | 82 | | 1 J | 40 | 0.2 U | |
| 9/21/2005 | , | GW401A198 | 0.3 U | <u> </u> | 010 | 51 | 1.8 | 30 | 0.1 U | | 2.6 | 80 | | 2.1 | 4 U | 0.2 U | |
| 5/23/2005 | /41 | GW401A1E3 | 0.39 | - | 010 | 60 | 3.2 | 3 U | 0.1 U | | 3,3 | 100 | | 0.8 J | 4 U | 0.2 U | |
| 7/25/2006 | 701 | GW401A1H0 | 0.60 | 1 | 0.1 U | 55 | 1.6 | 3 U | 0.1 U | | 2.6 | 79 | <u> </u> | 1.1 J | 4↓ | 0.2 U | |
| 9/12/2008 | 701 | GW401A1JD | 0.34 | | 0.1 U | 59 | 16 | 3 U | 0.1 U | | 2.6 | 74 | | 63 | 4 Ų | 0.2 U | |
| 5/14/2007 | | GW401A230 | 0.5 U | + | 0.1 U | 57 | 1.5 | 3 U | 0.1 U | 1 | 2.3 | 89 | † | 61 | 4 U | 0.2 U | |
| 7/24/2007 | | GW401A274 | 0.3 U | | 0.1 U | + 55 | 2.4 | 6J | 0.1 U | 1 | 3.3 | 104 | | 23 | 4 U | 0.2 U | |
| 9/11/2007 | | GW401A29E | 0.5 U | + | 0.1 U | 51 | 2.7 | 3 J | 0.10 | | 3.1 | 86 | | 0.5 U | 40 | 0.2 U | |
| 5/20/2008 | | GW401A2D8 | 0.49 | | 0.1 U | 54 | 1.6 | 91 | 0.2 J | + | 3.5 | 116 | | 3.3 | 40 | 0.2 U | |
| | | GW401A2GC | 0.5 U | + | 0.10 | 58 | 1.8 | 3 J | 0.1 J | - | 4.7 | 95 | | 2.1 | 4 U | 0.41 | |
| 7/28/2006 | 1.0 | GW401A2J2 | 0.5 U | ļ | 0.1 U | 56 | 1.5 | i 3U | 0.1 U | - | 3.4 | 88 | | 0.8 J | 4 U | 0.2 U | |
| 10/27/2008 | 100 | GW401A32A | 10 | - | 0.1 U | 52 | 1.6 | 30 | 0.1 J | | 3.2 | 97 | <u> </u> | 3.5 | 4 U | 0.2 U | |
| 4/13/2009 | | GW401A36E | 0.5 U | _ | 0.10 | 57 | 1.7 | 3U | 0.1 U | | 3.5 | 85 | | 1.5 J | 4 U | 0.2 U | |
| 7/7/2009 | | GW401A3E9 | | + | | +- 5° | 1.8 | + 3 <u>0</u> | 0.1 U | | 2.8 | 91 | | 1.1 J | 40 | 0.2 U | |
| 10/28/2009 | | GW401A3E9 GW401A3J8 | - 0.3 U | | 0.1 U | 57 | 2.4 | 30 | 0.1 U | ļ | 3 | 79 | | 2.1 | 40 | 0.2 U | |
| 4/27/2010 | | GW401A3J8 GW401A42C | 0.3 U | + | 0.1 J | 60 | 1 2.4 | 30 | 0.1 U | | 2.6 | : 88 | | 0.7 U | 4 0 | 0.2 U | - |
| 7/20/2010 | | GW401A42C | | + | 0.1 U | 56 | 1.5 | 30 | 0.10 | · ···· | 2.2 | 89 | - | 0.7 U | 40 | 0.2 U | <u> </u> |
| 10/20/2010 | | | 0.3 U | | | 56 | 1.5 | 30 | 0.1 U | · | 2.2 | 83 | - | 0.7 U | 40 | 0.2 U | <u> </u> |
| 4/25/2011 | | GW401A49H | 0.3 U | | 0.1 U 0.1 U | 56 | 1.3 | 30 | 0.1 U | | 2.4 | | <u> </u> | 0.7 U | 40 | 0.2 U | ├ : |
| 7/18/2011 | | GW401A4DF | 0.3 U | | | 58 | 1.3 | 3U | 0.1 0 | + | 2.4 | | <u></u> | 0.7 U | 40 | 0.2 U | |
| 10/24/2011 | <u> </u> | GW401A4HA | 0.3 U | | 0.2 J | 58 | 1,9 | 100 | 0.10 | + | 44 | - 89 | | 20 | 40 | 0.2 U | |
| 4/23/2012 | 7-21 | GW401A520 | 030 | | 050 | _ | | 10 U | 0.3 U | - | 44 | 97 | | 2 U | 40 | 0.2 U | |
| 7/23/2012 | | GW401A5BJ | 0.36 | <u> </u> | 0.5 U | 57 | 1.2 | _1 | | | 2U | | | 2 U | 40 | 0.2 U | |
| 10/22/2012 | | GW401A5DA | 1.1 | | 050 | 55 | 1.2 | 10 U | 0.3 | | | 94 | 0.111 | | 40 | 0.2 U | |
| 4/22/2013 | | GVV401 A511 | 0.3 U | 4 | 05U | | 2.4 | 10 U | 0.3 U | - | 4.9 | 85 | 0.1 U | 2 U | <u> </u> | | |
| 7/29/2013 | | GW401A646 | 0.572 | <u> </u> | | 57 | 22 | 10 U | 0.3 U | | 4.3 | - 86 | 0.1 U | 20 | 40 | 0.2 U | |
| 10/28/2013 | XX | GW401A66J | 0.5 U | | | 57 | 2.8 | 10 U | 0.3 U | . L | 4.3 | | 0.1 U | 2U |]4∪ | 0.2 U | L |

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|------------|---------------|------------------------|----------------------------|--|----------------|------------------------|----------|------------------------------|----------------|-------------------------|--------------|---------------------------|---------|----------------|------------------------------|--------------------------------------|----------|
| (MW-401 | • | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphare Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | m g/L | mg/L | m g /L | mg/L | mg/L | |
| MW-40 | 1 B | | | | | | | | | | | | | | | · | |
| 7/29/2004 | | GWDP4X05D | 0.15 U | 6 U | 0.1 U | 217 | 36.7 | 11 | 0.1 U | 0.01 J | 25.1 | 335 | | 2.8 | 4 U | 1 | |
| 7/29/2004 | | GW401B05A | 0.24 | 6 U | 0.1 U | 217 | 36.4 | 11 | 0.1 U | 0.01 J | 24.7 | 346 | | 3.3 | 4 U | | |
| 10/27/2004 | | GW4018072 | 0.38 | 6 U | 0.1 U | 245 | 38.8 | 17 | 0.1 U | 0.02 J | 52.4 | 409 | | 4.6 | 11 | · | |
| 5/10/2006 | | GW4018133 | 0.3 U | <u> </u> | 0.10 | 211 | 31.9 | 8 J | 0.1 U | | 36.4 | 307 | | 3.2 | 36 | 3.6 | |
| 5/10/2005 | | GWDP4X138 | 0.3 U | 1 | 0.10 | 205 | 32.9 | 8 J | 0.1 U | | 41.5 | 327 | | 3 | 35 | 3.6 | |
| 7/27/2005 | | GW401B16B | 0.3 U | 1 | 0.1 U | 218 | 9.7 | 9.1 | 0.1 U | | 44.7 | 387 | | 3.3 | 12 | 0.65 | • |
| 9/21/2005 | XD | GWDP4X19C | 0.3 U | | 0.1 U | 233 | 38.9 | 61 | 0.1 U | | 70.9 | 471 | | 4.9 | 15 | 0.76 | |
| 9/21/2005 | XX | GW401B199 | 0.36 | 1 | 0.1 U | 229 | 40.5 | 6 J | 0.1 U | | 69.2 | 488 | | 4.6 | 14 | 0.81 | |
| 5/23/2008 | XX | GW401B1E4 | 0.48 | T | 0.1 U | 192 | 20.4 | 8 J | 0.1 U | | 40.5 | 312 | _ | 2.7 | 4 U | 0.2 U | <u> </u> |
| 5/23/2008 | XD | GWDP4X1E7 | 0.4 | | 0.1 Ų | 195 | 18.1 | 5 J | 0.1 U | | 40.1 | 307 | | 4 | 6 | 0.2 U | |
| 7/25/2008 | XX | GW401B1H1 | 0.68 | | 0.1 U | 192 | 18.6 | 3 J | 0.1 U | | 32.6 | 305 | | 3 | 4 U | 0.2 U | |
| 9/12/2006 | XX | GW401B1JE | 0.45 | | 0.1 U | 196 | 19.3 | 4 J | 0.1 U | | 32.3 | 295 | | 4.4 | 4 U | 2 | |
| 9/12/2006 | 1 | GWDP3X1JB | 0.38 | | 0.1 U | 194 | 19.8 | 3 U | 0.1 U | | 32.8 | 292 | | 26 | 4 U | 1.7 | |
| 5/14/2007 | XX | GW401B231 | 0.5 U | | 0.1 U | 152 | 9.4 | 5 J | 0.1 U | | 17.4 | 233 | | 3.4 | 5 | 0.2 | |
| 5/14/2007 | XD | GWDP4X234 | 0.5 U | | 0.1 U | 152 | 9.1 | 4 J | 0.1 U | <u>.</u> | 17.2 | 231 | | 2.2 | - 4 | 0.22 | |
| 7/24/2007 | - | GVV401B275 | 0.3 U | | 0.1 U | 156 | 21.2 | 4.1 | 0.1 U | | 28.3 | 275 | | 43 | 4 U | 0.2 U | |
| 9/11/2007 | | GW401B29F | 0.5 U | | 0.1 U | 177 | 19.9 | 6 J | 0.1 U | | 36.5 | 292 | | 33 | 5 | 0.2 U | |
| 9/11/2007 | | GWDP4X29I | 0.5 U | | 0.1 U | 166 | 19.9 | 3.1 | 0.1 U | | 36.6 | 299 | | 2 | 4 | 0.26 | |
| 5/20/2008 | | GW40182D9 | 0.3 U | | 0.1 U | 130 | 18.4 | 3.0 | 0.1 J | | 15.8 | 197 | | 1.6 J | 4 U | 0.20 | |
| 5/20/2008 | | GWDP4X2DC | 0.3 ป | ļ | 0.1 U | 130 | 19.3 | 1 3 1 | 0.1 J | <u> </u> | 16.1 | 193 | | <u>1.5 J</u> | 4 U | 0.2 U | |
| 7/28/2008 | + | GW401B2GD | 0.5 U | | 0.1 U | 143 | 30 | 4 J | 0.1 U | - | 20 9 | 257 | | 3.8 | 4 U | 0.2 U | |
| 10/27/2008 | | GWDP4X2J6 | 0.5 U | | 0.1 U | 153 | 22.6 | 3 ∪ | 0.1 U | | 22.4 | 250 | | 3.7 | 4 U | 0.20 | |
| 10/27/2000 | | GW401B2J3 GWDP4X32€ | 0.5 U | <u>:</u> <u></u> - | 0.10 | 152 | 22.6 | 3 U | 0.1 U 0.2 J | | 22 2 12 2 | 243 188 | | 4.8 | 4 U | 0.2 0 | |
| 4/13/2008 | _ | GW401B32B | 0.5 U | | 0.10 | 119 | 10.4 | 6 J | 0.2 J | | 113 | 178 | — | 2.2 | 40 | 0.2 U | |
| 4/13/2009 | | GW401B32B | 3.2 0.5 U | | 0.1 U 0.1 U | 118 | 9.2 | 5 J 3 U | 0.1 U | | 129 | 185 | | 3.6 | 4 U | 0.2 U | |
| 7/7/2009 | _ | GW401B36A | 0.34 | | 0.1 U | 145 | 126 | 30 | 0.1 U | | 17 | 220 | | 2.4 | 4 U | 0.2 U | |
| 10/28/2009 | _ | GWDP3X3E7 | 0.3 U | | 0.1 U | 145 | 13 2 | 4 J | 0.1 U | | 17 1 | 222 | | 1.8 J | 4 U | 0.2 U | |
| 4/27/2016 | | GW401B3J9 | 0.3 U | + | 0.1 U | 116 | 8 | 4 J | 0.1 U | | 106 | 142 | | 1.3 J | 4 U | 0.2 U | |
| 4/27/2010 | - | GWDP4X3JC | 0.3 U | + | 0.1 U | 121 | 8.4 | 5 J | 010 | | 11 | 150 | | 2.4 | 4 U | 0.2 U | |
| 7/20/2010 | | GWDP3X42A | 03 U | | 0.1 0 | 136 | 11.5 | 4 J | 0.1 U | ···· | 12.8 | 212 | | 0.B J | . 4U | 0.2 U | |
| 7/20/2010 | - | GW401642D | 0.57 | + | 0.1 U | 137 | 10.8 | 3 0 | 0.1 U | · | 12.5 | 208 | | 0.B J | 4 U | 0.22 | |
| 10/20/2010 | | GW401845H | 0.3 U | | 0.1 U | 132 | 7.2 | 3 U | 0.1 U | · | 13.5 | 204 | | 0.7 j | 4 Ų | 0.47 | |
| 10/20/2010 | | GWDP4X480 | 0.3 U | | 0.1 U | 133 | 7.2 | 3 U | 0.1 U | . | 13.6 | 209 | | 2 0.7 J | 4 U | 0.25 | |
| 4/25/201 | _ | GWDP4X4A1 | 0.3 U | | 0.1 U | 119 | 6.8 | 30 | 0.1 U | | 7.8 | 164 | | 0.7 U | 4 U | 0.2 U | |
| 4/25/201 | | GW401849I | 0.3 U | | 0.1 U | 116 | 7.1 | 3 U | 0.1 U | į | 8 | 165 | | 0.7 U | 4 U | 0.2 U | |
| 7/18/201 | ⊣. —— | GWDP1X4D2 | 0.3 U | 1 | 0.1 U | 122 | 11.3 | 3 U | 0.1 U | | 10.3 | 188 | | 0.7 J | 4 U | 0.2 U | |
| 7/18/201 | | GW401B4DG | 0.45 | + | 0.1 U | 126 | 11.9 | 3 U | 0.1 U | | 106 | 184 | | 0.7 J | 4 U | 0.2 U | |
| 10/24/201 | | GW40184HB | 0.3 U | | 0.1 U | 131 | 10.5 | 3 U | 0.1 U | : | 9.1 | 183 | | 1.1 J | 4 U | 0.4 U | |
| 4/23/2012 | | GWDP4X524 | 0.3 U | | 0.5 U | 116 | 9.8 | 10 U | 0.3 U | <u> </u> | 11 | 177 | | 2 U | 4 U | 0.2 U | |
| 4/23/2012 | → | GW401B521 | 0.3 U | T | 0.5 () | 117 | 9,4 | 10 U | 0.3 U | | 11 | 173 | | 2 U | 4 U | 0.2 U | |
| 7/23/2012 | 2 XD | GWDP1X566 | 0.3 U | 1 | 0.5 U | 116 | 10.7 | 10 U | 0.3 U | | 12.5 | 172 | | 2 U | 4 U | 0.2 U | |
| 7/23/2012 | 2 XX | GW401B570 | 0.3 U | T | 0.5 U | 117 | 12 | 10 U | 0.3 U | | 13.4 | 181 | | 2 U | 4 U | 0.2 U | |
| 10/22/201 | 2 XX | GW401B5 0B | 0.94 | | 0.5 U | 133 | 8.3 | 10 U | 0.3 U | | 9.8 | 201 | | 2 U | 4 U | 0.2 U | |
| 4/22/201 | 3 XX | GW40185I2 | 030 | | 0.5 U | 122 | 12.5 | 10 U | 0.3 U | | 13.2 | 172 | 0.1 | 2 U | 4 U | 0.2 U | |
| 4/22/2013 | 3 XD | GWDP4X5I5 | 0.3 U | I | 0.5 U | 121 | 125 | 10 U | 0.3 U | | 13 | 186 | 0.13 | 2 U | 4 U | 0.2 V | <u></u> |
| 7/29/201 | | GW401B647 | 0.528 | Τ | | 108 | 13 | 10 U | 0.3 U | | 11.4 | 156 | 0.10 | 2 U | 4 U | | |
| 71004004 | 3 XD | GWDP1X63D | 0.512 | T | | 116 | 16.6 | 10 U | 03Ų | 1 | 128 | 175 | 0.1 🔱 | 2 U | . 4U | 02U | 1 |

SUMMARY REPORT REPORT PREPARED: 2/11/2014 12:44 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Inorganics (part 1 of 1) **CUMBERLAND CENTER, ME 04021** Organic Carbon Total Tannin &. Total Dissolved Bromide Chloride Chemical Nitrate (N) Phosphate Sulfate Total Kjeldahl **Biochemical** Ammonia (N) Bicarhonate (MW-401B) Solida Suspended Liguins (Tannic Phosphorus (CaCO3) Oxygen Nitrogen Oxygen Solids Acid) Demand Demand mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID Date 4 U 0.2 U 13 212 0.22 2 U 139 16.3 10 U 0.3 U 10/28/2013 XX GW4016670 0.5 U 4 U 13 206 0.21 2 V 0.2 U 10/28/2013 XD GW0P4X673 10 U 0.3 U 0.5 U 138 15.8 MW-402A 75 0.5 Ų 4 U 0.1 U 0.05 4.3 54 1.6 4 J 7/29/2004 XX GW402A058 0.15 U 6 U 0.1 J 67 0.7 J4 U 0.1 U 0.05 3.7 10/27/2004 XX GW402A073 0.3 U 6 U 0.1 U 53 1.7 4 J 3.5 81 2 4 U 0.2 U 52 1.8 3 U 0.1 U 5/11/2005 XX GW402A134 0.3 0.1 U 78 0.5 U 4 U 0.2 U 8/1/2005 XX GW402A160 0.1 U 3 0.1 U 55 1.8 3 U 0.2 U 2.2 4 Ų 48 1.9 3 U 0.1 U 3.5 78 0.1 U XX GW402A19A 0.3 U 9/21/2005 2.2 4 U 0.2 U 89 3 ป 0.1 U 4.8 5/23/2006 XX GW402A1E5 0.1 U 53 3 0.3 U 4 U 0.2 U 80 1.6 0.1 U 51 14 5 J 0.1 U 4.6 GW402A1H2 0.3 U 7/26/2006 XX 4.3 66 1.6 4 U 0.2 U 3 U 0.1 U 0.1 U 52 1.4 XX GW402A1JP 0.82 9/12/2006 5 4 U 0.24 3 U 0.1 U 4.4 73 GW402A232 0.5 U 0.1 U 52 1.6 5/15/2007 ХX 4 U 7 J 0.1 U 5.8 76 1.3 J 0.2 U 2.4 GW402A276 0.1 U 46 7/25/2007 XX 0.3 U 0.2 U 5.8 90 0.5 U 4 U 2.4 3 J 0.1 U ХX GW402A29G 0.3 U 0.1 U 48 9/12/2007 0.2 U 1.9 J 411 1.6 3 U 0.1 J 6.1 76 GW402A2DA 0.3 U 0.1 J56 5/20/2008 XX 87 1.8 J 4 U 0.2 U 7.4 53 1.5 3 U 0.1 U GW402A2GE 0.1 U 7/28/2008 XX 0.5 U 0.2 U 4 U 6.3 83 1.4 J 0.1 U 47 1.5 3 U 0.1 U XX GW402A2J4 0.5 U 10/27/2008 0.2 U 3 U 5 94 8.1 4 U 3.1 0.1 H 4/14/2009 XX GVV402A32C 0.5 U 0.1 U 54 77 0.7 U 4 U 0.2 U 0.1 U 52 1.7 3 U 0.1 J 7/8/2009 XX GW402A36G 0.5 U 4 U 0.2 U 1.5 J 54 0.1 U 5.3 85 10/28/2009 GW402A3EB 0.1 U 1.7 4 J XX 0.3 U 5.6 58 1,6 J 4 U 0.2 U 53 2.3 3 Ų 0.1 U GW402A3JA 0.1 J 4/27/2010 XX 0.3 U 0.2 U 0.7 U 4 U 4.7 87 0.1 U 54 1.2 30 0.1 U 7/21/2010 XX GVV402A42E 0.34 0.2 U 3 U 4.2 89 0.7 U 4 U 0.1 U ХX GW402A45I 0.3 U 0.1 U 53 1.5 10/20/2010 0.7 U 4 U 0.2 U 78 4.1 0.1 U 52 1.2 3 U 0.1 U 4/27/2011 XX GW402A49J 0.31 0.2 U 4 U 4.2 80 0.7 U 51 1.6 3 U 0.1 U GW402A4DH 0.54 0.1 U 7/20/2011 XX 4.4 0.7 U 4 U 0.2 U Ħ6 54 0.8 J 5 J 0.1 U GW402A4HC 0.3 U 0.1 U 10/26/2011 XX 0.2 U 2 U 4 U 7 70 0.5 U 52 2 10 U 0.3 U 4/24/2012 XX GW402A522 0.3 U 0.2 U 10 U 6.4 80 2 U 4 U 0.5 U 52 1.6 0.3 U GW402A571 0.3 U XX 7/25/2012 4 U 0.2 U 2 U 0.3 U 7.3 83 51 2.3 10 Ų 10/24/2012 XX GW402A5DC 0.31 0.5 U 0.2 U 99 0.1 LI 2 U 4 U 2.5 10 U 0.3 U 9.3 GW402A5I3 0.5 U 51 4/22/2013 XX 0.3 U 7 0.1 🛚 2 U 4 U 0.2 U 81 10 U 0.3 U GW402A648 53 1.3 7/31/2013 XX 0.3 U 4 Ų 0.2 U 2 U 0.3 U 7.2 89 010 GW402A671 0.5 U 51 1.8 10 U 10/30/2013 XX MW-402B 96 0.5 U 4 U 1.8 0.1 U 0.04 8.4 0.1 U 69 4.1 7/29/2004 XX GW402805C 0.21 6 U 2.8 5 6 J 0.05 7.9 82 10/27/2004 XX GW402B074 04 6 U 0 1 U 79 2 0.1 U 0.2 U 0.1 U 3 U 8.6 101 0.9 J 411 68 1.7 0.1 U GW402B135 5/11/2005 ХX 0.4 0.2 U 5.6 88 1 J 4 U GW402B16D 71 1.9 3 U 0.1 U 8/1/2005 ХX 0.3 U 0.1 U 4 U 0.2 U 0.1 U 66 2 3 U 0.1 U 7.8 94 2.2 GWDP3X196 9/21/2005 XD 0.3 U 7.7 95 2.1 4 U 02U 2.1 3 U 0.1 U GW402B19B 0.1 U 66 9/21/2005 XX 0.3 U 0.2 U 8.9 083 4 U 116 GW402B1E6 0.1 U 67 2.9 3 U 0.1 U XX 0.455/23/2006 411 0.2 U 0.1 U 7.5 97 09J 4 J ΧХ GW402B1H3 0.3 U 0.1 U 68 1.4 7/26/2006 0.2 U 7.8 84 05J 4 U 1.5 3 Ų 010 9/12/2006 XX GW402B1JG 0.3 U 0.1 U 4 U 0.26 82 5.2 66 1.5 3 U 0.1 U 7.3 XX GW402B233 0.1 U 5/15/2007 0.5 U 0.2 U 90 1.6 4 U 0.1 U 86 3.1 6 J 7/25/2007 XX GW402B277 0.3 U 0.1 U 63 0.2 U 91 101 0.7 J4 Ų GW402629H 0.1 U 65 2.8 3 U D.1 U 9/12/2007 XX 0.3 U 0.2 U 4 U 01J 9 93 4.4 57 311 GW40282DB 0.3 U 0.1 U 17 5/20/2008 XX 4 U 0.2 U 44.9 0.84 124 XX GW40282GF 0.1 U 34 2.2 3 U 0.1 U 7/28/2008 0.5 U 0.9 J 0.2 U 4 U 10/27/2008 XX GW40282J5 65 1.B 3 Ų 0.1 U 9.2 89 0.5 U 0.5

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Inorganics (part 1 of 1)

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| | | | | | | | ·- | | inics (part 1 | | | | | | CUMBE | RLAND CENTER | , ME 04 |
|------------|------------|------------|----------------------------|---------------------------------|-------------|------------------------|----------|------------------------------|---------------|--|-------------|---------------------------|---------|----------------|------------------------------|--------------------------------------|---------|
| MW-402 | B) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 4/14/2009 | xx | GW402B32D | 0.5 U | | 0.1 U | 66 | 26.5 | 3 U | 0.1 U | | 2.3 | 98 | | 2.5 | 4 U | 0.20 | |
| 7/8/2009 | хх | GW402836H | 0.5 U | | 0.1 U | 65 | 1.7 | 3 U | 0.1 Q | | 8.5 | 89 | | 0.8 J | 4 U | 0.2 U | |
| 10/28/2009 | хх | GW40283EC | 0.3 Ú | | 0.1 U | 70 | 1.8 | 3 U | 0.1 U | | 7.3 | 93 | | 1.7 J | 4 U | 0.20 | |
| 4/27/2010 | XX | GW40283JB | 0.3 U | | 0.10 | 68 | 2.5 | 30 | 0.1 () | 1 | ₿ | 64 | | 3.5 | 4 U | 0.20 | |
| 7/21/2010 | xx | GW402842F | 0.38 | | 0.1 U | 69 | 1 | 3 U | 0.1 U | | 6.9 | 93 | | 0.7 U | 4 U | 0.20 | |
| 0/20/2010 | хх | GW402B45J | 0.3 U | | 0.1 U | 65 | 1.5 | 3 () | 0.1 U | | 6.3 | 102 | | 0.7 U | 4 U | 0.2 U | |
| 4/27/2011 | XX | GW402B4A0 | 0.3 U | | 0.1 U | 68 | 1.1 | 3 U | 0.1 U | | 6.6 | 92 | | 0.7 Џ | 4 U | 0.2 U | |
| 7/20/2011 | - | GW40284DI | 0.61 | | 0.1 U | 65 | 1.2 | 3 U | 0.1 U | | 6.6 | 92 | | 0.7 U | 4↓ | 0.2 U | |
| 10/26/2011 | XX. | GW402B4HD | 0.3 U | | 0.1 U | 69 | 1.1 | 30 | 0.10 | | 6.3 | 100 | " | 0.7 U | 40 | 0.2 U | |
| 4/24/2012 | ХX | GW402B523 | 0.3 U | | 0.5 U | 64 | 2.2 | 10 U | 0.3 U | | 9 | 88 | | 2 U | 4 U | 0.2 U | ! |
| 7/25/2012 | xx | GW402B572 | 0.3 U | | 0.5 U | 68 | 1.9 | 10 U | 0.3 U | | 9.9 | 91 | | 2 U | 4 U | 0.2 U | |
| 0/24/2012 | xx | GW402B5DD | 0.3 U | | 0.5 U | 65 | 2.5 | 10 U | 0.3 Ų | | 9.5 | 97 | | 2 Ų | 4 U | 0.2 U | |
| 4/22/2013 | | GW402B5I4 | 0.3 U | | 0.5 U | 60 | 2.5 | 10 U | 0.3 U | | 9 | 100 | 0.1 Ų | 2 U | 4 U | 0.2 U | |
| 7/31/2013 | | GW4028649 | 0.3 U | | | 68 | 1.4 | 10 U | 0.3 U | | 8.6 | 92 | 0.1 U | 20 | 4 U | 0.2 U | |
| 10/30/2013 | _ | GW4028672 | 0.5 U | | | 67 | 1.9 | 10 Ų | 0.3 U | | 8.4 | 102 | 0.1 U | 2 U | 4 U | 0.2 U | |
| -04-02 | | | • | | | | | | | | • | | | | | | • |
| 2/5/2004 | хх | GWXXXX03E | | | 0.1 () | 178 | 7 | 28 | 0.1 U | T | 16 | 275 | | 10 | 8 | T I | |
| 2/11/2004 | | GWXXXXII3C | | | 0.1 U | 116 | 3 | 30 | 0.3 | | 29 | 166 | | 3 4 | 4 U | T-" | |
| 5/5/2004 | 100 | GWXXXXII0E | 0.22 | | 0.1 U | 121 | 1.8 | 3 U | 0.1 U | † · | 21.2 | 151 | | 0.8 J | 4 U | 0.2 U | |
| 7/26/2004 | + | GWXXXX042 | 0.69 | | 0.1 U | 111 | 2.2 | 3 U | 0.1 U | | 19.5 | 145 | | 0.6 J | 4 U | 0.2 U | |
| 0/25/2004 | | GWXXXXXII | 0.73 | | 0.1 U | 108 | 2 | 3 (1 | 0.10 | | 16 | 144 | | 0.9 J | 21 | 0.2 U | |
| 5/9/2005 | | GWXXXXX13J | 0.3 U | | 0.10 | 108 | 2 | 31) | 0.1 J | | 14.5 | 138 | | 0.8 J | 4 U | 0.20 | |
| 7/27/2005 | | GWXXXX177 | 0.67 | | 0.1 U | 107 | 1.9 | 4 J | 0.1 U | | 11 9 | 145 | | 2 | 4 U | 0.2 Ų | |
| 9/22/2005 | | GWXXXX1A5 | 0.36 | | 0.1 U | 104 | 2.2 | : 3U | ; 0.1 U | | 11.6 | 135 | | 1.9 | 4 U | 0.2 Ų | |
| 5/22/2006 | | GWXXXX1F0 | 0.42 | | 0.1 U | 95 | 3 | 3 U | 0.3 | | 14,5 | 129 | | 4.8 | 4 U | 0.2 U | |
| 7/24/2006 | | GWXXXX1HH | 0.48 | | 0.1 U | 95 | 1.5 | 3.0 | 0.3 | | 11 | 133 | | 1.3 J | 4 U | 0.2 U | |
| 9/11/2006 | | GWXXXX20A | 0.39 | | 0.1 U | 98 | 2 | 3 U | 0.1 U | | 11,2 | 124 | | 1.5 | 4 U | 0.2 U | |
| 5/14/2007 | | GWXXXX23H | 0.5 U | | 0.1 U | 98 | 1.5 | 3 J | 0.1 U | | 9.2 | 138 | | 2.3 | 4 U | 0.2 U | |
| 7/23/2007 | | GWXXXX281 | 0.3 U | | 0.1 U | 91 | 2 | 4 J | 0.1 J | | 11.6 | 124 | | 1.2 J | 4 U | 0.2 U | |
| 9/10/2007 | | GWXXXXXAB | 0.3 U | | 0.1 U | 92 | 1.8 | 3.J | 0.2 1 | | 13.5 | 131 | | 0.5 U | 4 U | 0.2 U | |
| 5/21/2008 | | GWXXXXZE5 | 0.3 U | | 0.1 U | 96 | 2.1 | 30 | 0.3 | | 12.6 | 118 | | 1.8 J | 4 U | 0.2 U | |
| 7/30/2008 | 100 | GWXXXX2H9 | 0.5 U | | 0.1 U | 95 | 1.6 | 7 J | 03 | | 13.8 | 138 | | 1.2 J | 4 U | 0.2 U | |
| 10/29/2008 | 100 | GWXXXXZJJ | 0.5 U | | 0.1 U | 93 | 1.2 | 4 J | 02J | | 13.7 | 124 | | 0.7 J | 4 0 | 0.2 U | _ |
| 4/13/2009 | | GWXXXX337 | 1 U | Ì | 0.10 | 93 | 1.6 | 3 J | 03 | | 11.4 | 134 | | 5.1 | 4 U | 0.2 U | |
| 7/6/2009 | | GWXXXX37B | 0.5 U | | 0.1 U | 93 | 1.6 | 3 U | 0.2 J | | 13 | 128 | | 1.8 J | 4 U | 0.2 U | |
| 0/27/2009 | 1 | GWXXXX3F6 | 0.3 U | | 0.1 U | 93 | 2 | 3 U | 0.1 U | | 11.1 | 114 | | 3.7 | 4 U | 0.2 U | |
| 4/26/2010 | 1 | GWXXXXX405 | 0.3 U | | 0.1 J | 95 | 3.1 | 3 J | 0.1 J | | 11.2 | 113 | | 0.8 J | 4 U | 0.2 U | |
| 7/21/2010 | | GWXXXX439 | 0.3 U | ···- | 0.1 U | 93 | 1 | 3 U | 0.1 J | | 10.5 | 121 | | 0.7 U | 4 U | 0.2 U | |
| 10/20/2010 | 1 + | GWXXXX46D | 0.3 U | ļ ··· | 0.1 U | 90 | 13 | 3 Ų | 0.10 | 1 | 10.0 | 130 | | 0.7 U | 4 U | 0.2 U | |
| 4/27/2011 | L | GWXXXX4AE | 0.3 U | | 0.1 U | 90 | 1.1 | 3.0 | 0.1 U | 1 | 8.9 | 129 | | 0.7 U | 4 U | | |
| 7/20/2011 | I. ' " - + | GWXXXX4EC | 0.38 | } | 0.1 U | 93 | 1.1 | 3U | 0.1 U | <u> </u> | 12.2 | 138 | c | 0.7 U | 4 U | ··· | |
| 10/26/2011 | 1 | GWXXXX417 | | | | †— | 1 | + | | | 1 | 1 1 | | 1 1 | <u> </u> | | |
| 4/25/2012 | | GWXXXX52H | 06 | | 0.5 0 | 63 | 8.8 | 19 | 0.3 U | + | 11,3 | 211 | ··· | 11.9 | 11 | 1.7 | |
| 7/25/2012 | 100 | GWXXXX57G | 0.35 | | 0.5 U | 94 | 7.8 | 10 U | 0.3 U | + | 25,2 | 205 | | 5.2 | 9 | 0.76 | |
| 10/24/2012 | | GWXXXX5E7 | 0.62 | t · | 0.5 U | 85 | 4.9 | 15 | 0.3 U | + | 25.1 | 198 | | 5.7 | 13 | 1 1 U | |
| 4/22/2013 | | | 0.02 | | | | 1.5 | 1 | 1.50 | + | 1 | · | 1 | 1 | 1 1 | 1 | |
| | | | 4 ' | L | . L | 1, | ' | <u> </u> | 1 : | 1 | | | | 1 | <u> </u> | | L |
| 2-04-04 | | | , | , | | ٦٠. | | | | | · | | r— | | T | - 1 | |
| | I VV | GWXXXX03F | 1 | 1 | 010 | 153 | 7.2 | 3 U | 0.1 U | 1 | 18 2 | 287 | I | 1.8 | 21 | | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

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| | | | | | | | | morge | inics (part 1 | | | <u>_</u>] | | | CUMBE | RLAND CENTER | , ME 040 |
|-------------|-------|--------------|----------------------------|--|-------------|------------------------|-------------|------------------------------|---------------|-------------------------|---------|---------------------------|---------|----------------|------------------------------|--------------------------------------|--|
| (P-04-04) | | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) | |
| Date 1 | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | m g/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 2/11/2004 | xx | GWXXXXXXIIID | | Τ | 0.1 U | 91 | 1.5 | 13 | 02J | | 23.6 | 139 | | 0.6 J | 4 U | | |
| 5/6/2004 | ХX | GWXXXX00F | 0.17 | | 0.1 U | 108 | 2 | 3 U | 0.1 U | 1 | 18.1 | 146 | | 0.7 J | 4 U | _0.2 U | |
| 7/26/2004 | xx | GWXXXX043 | 0.57 | | 0.1 U | 101 | 1.9 | 3 U | 0.1 U | | 15.1 | 125 | | 0.7 J | 4 U | 0.2 ป | |
| 0/25/2004 | XX | GWXXXX07J | 0.62 | | 0.1 U | 97 | 2 | 3 U | 0.2 J | | 11 | 124 | | 0.9 J | 4 | 0.2 U | |
| 5/9/2005 | XX | GWXXXX140 | 03U | | 0.1 U | 93 | 1.7 | 3 ប | 0.2 J | | 9.5 | 118 | | 1.7 | 4 U | 0.2 U | |
| 7/27/2005 | | GWXXXX178 | 03U | | 0.1 U | 86 | 1.8 | 3 U | 0.2 J | | 6.2 | 124 | | 0.5 J | 4 U | 0.2 U | |
| 9/22/2005 | | GWXXXX1A8 | 0.56 | | 0.1 U | 84 | 2 | 3 U | 0.4 | | 7.5 | 117 | | 2 | 4 U | 0.2 U | |
| 5/22/2006 | | GWXXXXIF1 | 0.61 | | 0.1 U | 84 | 2.9 | 3 U | 0.4 | | 8.9 | 110 | | 1.9 | 4 | 0.2 U | |
| 7/24/2006 | | GWXXXX1HI | 0.33 | | 0.1 U | 80 | 1.4 | 31 | 0.3 | | 7.2 | 111 | | 1.7 | 4 U | 0.2 U | |
| | | GWXXXX20B | 0.36 | | 0.1 U | 80 | 1.9 | 3 0 | 0.1 J | | 6.7 | 98 | | 05U | 7 | 0.2 U | |
| 9/11/2006 | | GWXXXX231 | | 1 | | | | | 0.1 U | | 5.7 | 116 | | 2.4 | - 4 U | 0.2 U | |
| 5/14/2007 | | | 0.5 U | - | 0.1 U | 79 | 1.6 | 3 U | | | | | | | 40 | 0.2 U | |
| 7/23/2007 | | GWXXXX282 | 0.3 U | · | 0.1 U | 73 | 2 | 5 J | 0.1 J | | 7.1 | 106 | | 0.9 J | | 0.2 U | _ |
| 9/10/2007 | | GWXXXX2AC | 0.3 U | | 0.1 U | 74 | 2.7 | 3 U | 0.1 J | | 7.1 | 111 | | 0.7 J | 4 U | | |
| 5/21/2008 | | GWXXXX2E6 | 0.3 U | | 0.1 U | 80 | 1.7 | 3 U | 0.2 J | | 8.3 | 105 | | 1.5 J | 4 U | 0.2 U | |
| 7/30/2008 | | GWXXXX2HA | 0.5 U | | 0.1 U | 80 | 1.5 | 3.0 | 0.2 J | | 9.4 | 114 | | 0.8 J | 40 | 0.2 U | |
| 0/29/2008 | XX | GWXXXX300 | 0.5 U | | 0.2 J | 78 | 1.1 | 3 U | 0.1 U | | 8.5 | 108 | | 2 | 4 U | 0.2 U | |
| 4/13/2009 | XX | GWXXXXX338 | 0.5 U | | 0.1 U | 77 | 1.6 | [4 ∫ | 0.1 J | L | 7.3 | 118 | | 3.8 | 4 U | 0.2 U | |
| 7/6/2009 | XX | GWXXXX37C | 0.5 U | | 0.1 U | 77 | 1.4 | 3.0 | 0.1 U | | 8.2 | 108 | • | 0.9 J | 4 U | 0.2 U | |
| 0/27/2009 | XX | GWXXXX3F7 | 0.3 U | | 0,1 U | 80 | 1 | i 3U | 2.5 | | 6.7 | 92 | | 1.8 J | 4 U | 0.2 U | |
| 4/26/2010 | XX | GWXXXX406 | 0.3 U | | 0.4 J | 79 | 2.7 | 3 U | 0.1 U | | 7.9 | 95 | - | 1.2 J | 4 U | 0.2 U | |
| 7/21/2010 | _ | GWXXXX43A | 0.3 U | | 0.1 U | 78 | 0.9 J | 3.1 | 0.1 U | | 6.5 | 104 | | 0.7 U | 4 U | 0.2 U | |
| 0/20/2010, | | GWXXXX46E | 0.3 U | | 0.1 U | 72 | 1.4 | 3 U | 0,1 U | † | 5.9 | 119 | | 07U | i U - | 020 | |
| 4/27/2011; | | GWXXXX4AF | 0.3 U | · · · · · · · · · · · · · · · · · · · | 0.1 U | 80 | 1 | 3 U | 0,1 U | | 5.5 | 104 | | 0.7 U | 4 U | 0.2 U | |
| 7/20/2011 | , , | GWXXXX4ED | 0.36 | l | 0.1 U | 76 | 1.1 | 3 U | 01J | | 9 | 112 | | 07U | 4 U | 0.2 U | - / |
| 0/26/2011 | | GWXXXX418 | 0.7 | | 0.1 U | 78 | 1.8 | 3 U | 0.2 J | i | 6.8 | 122 | | 0.8 J | 4 U | 0.2 U | |
| 4/25/2012 | | GWXXXX52I | | | 0.1 U | 75 | 1.8 | 10 U | 0.30 | ļ | 8.5 | 114 | | 2 U | 41) | 0.2 U | |
| | | GWXXXX57H | 0.3 U | | | 76 | 1.8 | 10 U | 0.3 U | | 28.8 | 95 | | + <u>2</u> 0 | 4 U | 0.20 | |
| 7/25/2012 | | | 0.3 U | | 0.5 U | | | | 4 - | | | 111 | | 2 U | 4 U | 0.2 U | |
| 0/24/2012 | | GWXXXX5E8 | 0.3 U | ļ | 0.5 U | 78 | 2 | 10 U | 0.3 U | · | 8.1 | | | | 4 U | 0.2 U | |
| 4/24/2013 | | GWXXXX5IJ | 0.479 | . . ——— | 0.5 U | 80 | 1.3 | 10 U | 0.3 U | | 9.2 | 115 | 0.1 U | 2 U | | | |
| 7/31/2013 | | GWXXXX654 | 0.613 | | ! | 76 | 1.4 | 10 U | 0.3 U | 1 | 7.8 | 100 | 0.1 U | 2 U | 4 U | 0.2 U | ļ |
| | XX | GWXXXX67E | 0.5 U | | _! | 76 | 1.8 | 10 0 | 0.3 U | <u> </u> | 7.7 | 115 | 0.1 U | 2 U | 4 U | 0.2 U | L |
| -206A | c – — | | | | | | | | | 1 | | - | | - 3 | | | |
| | | GW206A64I | <u>I</u> | | 1 | L | | | ļ!_ | | ı | l l | I | | ı ı | <u> </u> | |
| 0/26/2013 | XX | GW206A67B | | L | <u> </u> | L | 4.3 | <u> </u> | 0.3 U | | 2 U | | | | | | L |
| WS10- | -1 | | | | | | | | | | | | | | | | |
| 4/26/2010 | ХX | GWPW813IJ | | T | 1.1 | 74 | 14.6 | 33 | . Q.1 U | 0.14 | 1 J | 148 | | 9.9 | 4 U | 23 | |
| 7/19/2010 | | GWPW\$1423 | | | 1,1 | 125 | 10.1 | 31 | 0.1 U | 0.26 | 2.1 | 154 | | 8.3 | 786 | 14 | |
| 0/18/2010 | | GWPW\$1457 | - | | | 100 | : 10.6 | 29 | 0.1 U | 0.05 | 10 | 176 | | 7.5 | 12 | 1 | |
| 4/25/2011 | 7 | GWPW81498 | | | | 73 | 14.2 | 29 | 0.10 | 0.03 J | 1.3 J | 154 | | 7.5 | 4 U | 14 | |
| | 70. | GWPWS14D8 | | | 0.1 J | 110 | ; 7.3 | 31 | 0.10 | 0.033 | 2.9 | 171 | | 8.4 | 42 | 11 | |
| 7/18/2011 | 7 | | | <u>†</u> | 0.1 U | : | | | | + | | 134 | | 19.7 | 16 | 5 | |
| 0/24/2011 | | GWPWS14H1 | ļ | | 0.2 J | 70 | 10.8 | 40 | 0.1 U | 0.08 | 1.6 J | | | | | 1.2 | |
| 4/23/2012 | 701 | GWPWS1518 | | | 0.5 ∪ | 63 | 8.4 | 26 | 030 | 0 04 U | 6.3 | 132 | | 10.5 | <u>8</u> | | ⊢ |
| 7/23/2012 | 70. | GWPWS156A | | | 0.5 U | 41 | 3.5 | 58 | 0.5 | 0.16 | 2 년 | 104 | | 13.7 | 32 | 3.4 | - |
| 0/22/2012 | | GWPW815D1 | | <u> </u> | 0.5 U | 48 | 8.2 | 38 | 0.3 U | 0.09 | 2.7 | 130 | | 13,3 | 25 | 1.8 | |
| 4/22/2013 | | GWPW\$15HC | 1 | | 0.5 U | 113 | 16.4 | 20 | 0.3 U | 0.06 | 3.1 | 177 | 0.1 | 4.5 | 4 U | 0.75 | |
| 7/29/2013 | XX | GWPWS163H | 1 | | | 82 | 8.9 | 46 | 031 | 0.32 | 2 U | 148 | 0.1 U | 12.6 | 95 | 2.6 | L |
| 0/28/2013 | хх | GWPW\$186A | 1 : | | T | 45 | 7 | 33 | 0.3 U | 0.06 | 2.5 | 90 | 0.1 U | 9.8 | 25 | 5 U | 1 |
| 0/20/20131 | | | | | | | | | | | | | | | | | |

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| | | FOR: Jumper K | roga carom | | | | | Inorga | anics (part 1 | of 1) | | | | | | CHARD ROAD RLAND CENTER | ME 04021 |
|------------|------|---------------|--|---------------------------------|-------------|------------------------|----------|------------------------------|---------------|-------------------------|----------|---------------------------|----------------|----------------|------------------------------|--|--------------|
| (PWS10- | 2) | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) mg/L | |
| Date | Type | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 4/26/2010 | ХX | GWPW523J0 | T | | 0.2 J | 16.3 | 9.5 | 19 | 0.1 U | 0.02 J | 3.1 | 59 | | 8.2 | 7 | 1.4 | |
| 7/19/2010 | | GWPW52424 | <u> </u> | | 0.7 | 35 | 12.6 | 26 | 0.2 J | 0.08 | 4.2 | 81 | | 9.2 | 182 | 2 | |
| 10/18/2010 | ХX | GWPW52458 | 1 | | 0.1 J | 16.4 | 5.7 | 40 | 0.1 U | 0.03 J | 6.9 | 68 | | 14.7 | 4 U | 2.6 | |
| 4/25/2011 | XX | GWPW62499 | | | 0.1 U | 12.1 | 5.8 | 18 | 0.1 U | 0.02 J | 1.7 J | 60 | | 7.3 | 4 U | 10 | |
| 7/18/2011 | XX | GWPWS24D7 | | | 0.1 J | 62 | 4.1 | 25 | 0.1 U | 0.03 J | 1.6 J | 107 | | 9.9 | 40 | 1.2 | |
| 10/24/2011 | | GWPW524H2 | | | 0.1 U | 36 | 3.8 | 27 | 0.1 U | 0.03 J | 2.9 | 76 | | 10.2 | 78 | 1.7 | |
| 4/23/2012 | | GWPWS251C | | | 0.5 U | 10.6 | 8.3 | 33 | 0.3 U | 0.04 U | 7.7 | 79 | | 11.5 | 4 U | 1.9 5.1 | |
| 7/23/2012 | | GWPWS256B | | | 0.5 U | 35 | 3.2 | 40 | 0.4 | 0.05 | 2 U | 90 | | 13 | 40. | 5.1 1 U | |
| 10/22/2012 | | GWPW825D2 | <u></u> | | 0.5 U | 9.3 | 4.4 | 29 | 0.3 U | 0.04 U | 8.4 | 75 | | 6.4 | 5 | 1.1 | |
| 4/22/2013 | L | GWPW825HD | ↓ | ļ | 0.5 U | 30 | 8.4 | 26 | 0.3 U | 0.04 U | 3.8 | 82 | 0.1 U | 11.8 | 62 | 1.8 | |
| 7/29/2013 | _~~- | GWPWS2631 | . | | | 28 | 19.8 | 55 | 0.3 U | 0.05 | 2 U | 111 | 0.1 U | 5.5 | 43 | + 25U | |
| 10/28/2013 | | GWPWS266B | 1 | .1 | | 28 | 5.1 | 29 | 0.3 U | 0.1 | 4.3 | 78 | 0.1 U | | 43 | 290 | |
| PWS10 | | | | | | | | | 1 | | | | ı - | | | 0.45 | · |
| | _ | GWPW\$33J1 | | <u> </u> | 0.1 U | 87 | 2.5 | 11 | 0.1 U | 0.05 | 3.3 | 113 | | 2.1 | 5 36 | 0.45 | |
| 7/19/2010 | | GWPW\$3425 | | | 1.9 | 70 | 1.7 | 251 | 0.1 U | 0.48 | 1.8 J | 124 | | 10.4 | | _ | |
| 10/18/2010 | | GWPW\$3459 | ļ | | 0.1 U | 12.5 | 7.7 | 105 | 0.1 U | 0.22 | 4.6 | 103 | | 19.3 | 34 | 4.6 | |
| 4/25/2011 | | GWPW\$348A | | | 0.1 U | 64 | 23 | 18 | 0.1 U | 0.03 J | 0.6 U | 105 | | 4 | 4 🗓 | 2.3 | <u> </u> |
| 7/18/2011 | ,,, | GWPW\$34D8 | | <u> </u> | 1.2 | 56 | 32_ | 60 | 0.1 U | 0.15 | 1.2 J | 112 | | 14.9 | 101 | 3.7 | |
| 10/24/2011 | _ | GWPWS34H3 | | ⊥ · — | 0.1 U | 37 | 3.4 | 56 | 0.1 U | 0.07 | 0.6 U | 95 | | 13.4 | - <u>10</u> 60 | 1.1 | |
| 4/23/2012 | _ | GWPWS351D | <u> </u> | | 0.5 U | 16.4 | 4.5 | 25 | 0.4 | 0.06 | 8.3 | 66 | | 7.5 | | 31 | |
| 7/23/2012 | _ | GWPWS358C | | | 0.5 U | 26 | 3 | 47 | 0.5 | 0.07 | 2 U | 89 | | 13.8 | 18 15 | 3.1 | |
| 10/22/2012 | | GWPWS35D3 | · · · · | | 0.5 U | 11.8 | 2.6 | 79 | 0.3 U | 0.06 | 2 U | 83 | 0.411 | 19 | 8 | | ļ. —— |
| 4/22/2013 | | GWPW535HE | | ļ | 0.5 U | 21 | 4.1 | 46 | 0.3 U | 0.08 | 2 | 72 | 0.1 U | | 39 | 1.6 5.2 | |
| 7/29/2013 | | GWPW\$363J | . <u>ļ </u> | <u>-</u> i | | 56 | 5.4 | 62 | 0.3 U | 0.5 | 2 U | 141 | 0.1 U | 21.6 | 29 | + 3.2 | } |
| 10/28/2013 | _xx | GWPW\$366C | | | <u>i</u> | 22 | 6.2 | 43 | 0.3 U | 0.08 | 2 U | 73 | 0.1 U | 11.9 | 73 | | 1 |
| SW-1 | | | | | | | | | | | | | , | | | | , |
| 5/3/2004 | XX | SWXX1X018 | - T | 60 | 010 | 31 | 12.5 | 36 | 0.1 U | 0.03 J | 13 | 82 | | 13.1 | 5 | 2.5 | |
| 7/27/2004 | XX | SWXX1X04E | T | 6 U | 0.1 U | 29 | 3.5 | 61 | 0.1 U | 0.07 | 0.2 J | 103 | | 18,4 | 9 | 45 | |
| 10/26/2004 | XX | SWXX1X089 | | 60 | 0.1 U | 20 | 5.4 | 42 | 0.1 U | 0.03 J | 1.2 | 76 | | 14.3 | 4 U | 34 | ļ |
| 5/10/2008 | XX | SWXX1X12A | T | 6 U | 0.1 ป | 13.9 | 7.5 | 26 | 0.1 U | 0.02 J | 0.6 J | 61 | | 10.1 | 4 U | 2.2 | |
| 7/28/2005 | XX | SWXX1X15I | | 12 | 0.1 U | 22 | 4.9 | 229 | 0.1 U | 0.11 | 0.6 U | 67 | | 14.3 | 13 | 3.5 | ļ |
| 9/20/2005 | XX | SWXX1X18G | | 6 Ú | 0.1 U | 41 | 3 1 | 33 | 0.1 U | 0.26 | 6 | 159 | | 9.8 | 55 | 1.1 | <u> </u> |
| 5/24/2006 | XX | SWXX1X1DB | - | 6 U | 0.1 Ų | 86 | 22.7 | 31 | 0.1 U | 0.03 J | 11.3 | 184 | | 10.2 | 22 | 0.94 | |
| 7/26/2006 | XD | SWDP2X1GE | T | 6 U | 0.1 U | 23 | 4.1 | 64 | _0.1 U | 0.07 | 060 | 85 | | 20.4 | 6 | 3 | |
| 7/26/2006 | XX | SWXX1X1GB | | BU | 0.1 U | 23 | 4.4 | 71 | 0.1 U | 0.06 | 0.6 U | 90 | | 20.6 | 17 | 2.5 | <u> </u> |
| 9/13/2006 | XX | SWXX1X1J1 | | 6 U | 0.1 U | 148 | 13.3 | 15 | 010 | 0.06 | 9.3 | 181 | | 11.4 | 28 | 0.31 | _ |
| 5/15/2007 | XX | SWXX1X228 | ! | 6 U | 0.1 U | 29 | 6.5 | 24 | 010 | 0.06 | 0.6 J | 59 | L | 7.9 | 4 U | 2 | |
| 5/15/2007 | XD | SWDP2X22E | í | бŲ | 0.1 U | 25 | 6.5 | 24 | 01U_ | 0.02 J | 0.6 J | 58 | | 8.3 | 4 U | 1,9 | <u> </u> |
| 7/24/2007 | XX | SWXX1X26C | 1 | εU | 01U | 30 | 8.4 | 43 | 01V | 0.04 | 0.6 U | 93 | ļ | 16.6 | 4 U | 24 | |
| 7/24/2007 | XĐ | SWDP2X26I | | 6 U | 0.1 U | 31 | 8.7 | 44 | 0.1 U | 0.05 | 0.6 U | 9B | ļ | 17.3 | 4 U | 2.7 | <u> </u> |
| 9/11/2007 | XX | SWXX1X292 | | 7 | 0.1 U | 33 | 8.4 | 67 | 0.1 J | 0.11 | 0.6 U | 9D | | 15.6 | 11 | 2.2 | |
| 5/21/2008 | XD | SWDP2X2D2 | Time i | 6 U | 0.1 U | 28 | 9.4 | 26 | 0.1 J | 0.07 | 12J | 67 | | 95 | 14 | 2.1 | <u> </u> |
| 5/21/2008 | XX | SWXX1X2CG | T | 6 U | 0.10 | 28 | 9.4 | 26 | 0.1 J | 0.06 | 12J | 71 | 1 | 12.5 | 14 | 2.1 | <u> </u> |
| 7/29/2008 | XX | SWXX1X2G0 | | 1 | | 1 | I | 1 | 1 | ı | <u> </u> | | | 1 | 1 | 1 | <u> </u> |
| 10/28/2006 | XX | SWXX1X2IA | | 5 U | 0.1 U | 23 | 4.8 | 36 | 0.1 U | 0 02 J | 1.2 J | 70 | | 12.5 | 4 U | 2.1 | <u> </u> |
| 4/14/2009 | XX | SWXX1X311 | | 4 U | 0.1 U | 20 | 11.6 | 20 | 010 | 0.01 U | 22 | . 85 | ļ | 9.8 | 4 U | 1.4 | Ļ · |
| 7/7/2009 | | SWXX1X362 | | 5 U | 0.2 U | 17.2 | 4.7 | 45 | 010 | 0.03 J | 0.9 J | 85 | ļ | 15 | 4 U | 3.9 | _ |
| 101071000 | XX | SWXX1X3DH | | 5 υ | 010 | 10.6 | 6.3 | 36 | 010 | 0.02 J | 2.2 | 69 | | 12.5 | 39 | 2.6 | L |

Page 23 of 26 REPORT PREPARED: 2/11/2014 12:44 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Inorganics (part 1 of 1) CUMBERLAND CENTER, ME 04021 Organic Carbon Tannin & Chemical Phosphate Sulfate Total Dissolved Bromide Total Total Kjeldahi **Biochemical** Ammonia (N) Bicarbonate Chloride Nitrate (N) (SW-1) Lignins (Tannic Solids Suspended Oxygen Phosphorus Nitrogen Oxygen (CaCO3) Solids Demand Acid) Demand mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID mg/L Date 9.1 4 U 2.5 29 0.1 U 0.02 J 1.4 3 61 4/28/2010 XX SWXX1X3IG 2 U 0.1 U 23 8.9 7.3 1490 3.5 230 \$WXX1X420 126 8.5 752 0.1 U 0.81 7/20/2010 XX 3 U 0.6 4 U 0.87 0.02 J 101 18.8 7.3 55 0.1 U 4.4 11.6 10/19/2010 XX SWXX1X454 5 U 0.1 U 1.7 70 8 5 16.7 6.8 22 0.1 U 0.02 J 1.6 J SWXX1X495 3 U 0.1 U XX 4/26/2011 157 8.4 144 0.89 0.21 2.6 107 6.9 48 0.1 U 0.1 J 7/19/2011 XX SWXX1X4D3 4 37 0.02 J 2.4 64 13.4 11 3.8 0.1 U SWXX1X4GI 4 U 0.1 U 19 5.8 XX 10/25/2011 10.8 4 U 2.2 33 0.3 U 0.04 U 3.6 65 9.3 SWXX1X518 5 U 0.5 U 13.9 XX 4/24/2012 89 13.8 15 4 2 U 3.6 50 0.3 0.11 7/24/2012 XX SWXX1X567 4 U 0.5 U 40 1.7 104 9.6 13 29 030 0.04 U 5.6 2 U 050 35 6 SWXX1X5C 10/23/2012 ХX 7.4 4 U 23 030 0.04 U 3,1 60 0.1 U 1.4 12.7 SWXX1X5H9 4 U 0.5 U 15.3 4/23/2013 XX 81 0.10 16.8 41 3.2 SWXX1X83E 34 5.1 46 0.3 U 0.05 2U7/30/2013 XX 3 U 4 U 2.5 U 2.2 73 0.1 U 10.1 30 38 0.3 U 0.04 U 6.2 10/29/2013 XX SWXX1X867 1 U SW-2 3.8 73 13 39 0.1 U 0.03 J0.1 U 6 U 0.1 U 22 16.4 5/3/2004 XX SWXX2X019 58 0.1 U 0.04 0.3 J 83 19.4 4 U 5.2 24 4.5 7/27/2004 XD SWDP2X050 6 U 0.1 U 19.2 4 U 5.3 4.4 57 0.1 U 0.05 0.3 J 85 24 XX SWXX2X046 6 U 0.1 U 7/27/2004 87 13.9 4 U 3.4 10.1 40 0.1 U $0.02 \ J$ 0.9 SWXX2X06A 6 U 0.1 U 15.3 10/26/2004 XX 58 12 4 U 2.5 XD SWDP2X12G 0.6 U 6 U 0.1 U 13.B 8.9 32 0.1 U 0.01 J 5/10/2005 4 U 2.6 11.9 8.8 30 0.1 U 0.02 J 0.6 U 62 SWXX2X12B 6 U 0.1 U 11 5/10/2005 XX 4 U 0 02 J 0.6 U 60 15 3.7 SWXX2X15J 18.2 3.4 43 0.1 U 6 U 0.1 U ХX 7/28/2005 77 19 14 5.4 56 0.02 J0.6 U SWXX2X18H 5.2 0.1 U XX 6 U 0.1 U 20 9/20/2005 12.4 4 U 2.4 9.6 36 0.1 U 0.01 J $0.6 \, J$ 80 5/24/2006 XX SWXX2X1DC 6 Ų 0.1 U 15.2 76 12 4 U 2.6 06J SWDP2X1DH 0.1 U 14.3 10.3 37 0.1 U 0.01 J 6 U 5/24/2006 ΧD 89 2.8 94 14.1 3.2 74 0.1 U 0.07 0.6 U 21.6 SWXX2X1G9 6 Ų 0.1 U 7/26/2006 XX 19.8 8 2.9 4.5 46 0.1 U 0.04 0611 58 28 XX SWXX2X1J2 60 0.1 U 9/13/2006 5 2.6 58 4.4 4.5 42 0.1 U 0.03 J 0.6 U 0.1 U 28 9/13/2006 XD SWDP2X1J7 6 Ų 2.3 53 10.3 4 U 17.3 8.8 30 0.1 U 0.03 J 0.6 U ХX SWXX2X229 6 U 0.1 U 5/15/2007 78 17.9 8 28 27 7.9 48 0.1 U 0 03 J 0.6 U 0.1 U SWXX2X26D 6 **U** 7/24/2007 XX 84 15.3 6 2.9 57 Q.1 J 0 02 J 0.6 U SWXX2X293 6 U 0.1 U 31 7.1 9/11/2007 XX 15.5 2.7 0.01 J 0.6 U 86 6 SW0P2X298 30 7.1 50 0.1 J 6 U 0.1 U XD 9/11/2007 139 23 2.3 21 68 9.6 $0.1 \, J$ 0.04 1.1 J 5/21/2008 XX SWXX2X2CH 6 U 0.1 U 18.1 119 16.7 12 3.6 26 8.6 50 0.1 J 0.04 1 J SWXX2X2G1 6 U 0.1 U XX 7/29/2008 13.9 4 U 2.9 1 J 66 4.1 34 0.1 U 0.27 SW0P2X2IG 5 U 15.8 10/28/2008 XD 0.1 U 17 4 U 2.5 0.9 J 70 16.1 32 010 0.02 J 10/28/2008 XX SWXX2X2IB 5 U 0.2 J69 8.2 4 U 8.5 8.7 27 0.1 U 0.02 J 1.4 J SWXX2X31J 4 ↓ 0.1 U 4/14/2009 XX 4 U 47 0.1 U 0.02 J 1.1 J 78 15.8 4.4 7/7/2009 XX SWXX2X363 5 Ų 1.4 3 13 5.1 82 15.2 4 U 4.1 4.9 46 0.1 U 0.02 J1 J 13.5 XD SWDP2X368 5 U 0.2 U 7/7/2009 4 U 69 8.3 31 0.1 U 0.02 J3.2 10/27/2009 XX SWXX2X3DI 6.4 5 U 0.1 U 21 4 U 59 9.7 2.8 SWXX2X3IH 0.1 J 14.6 9.8 33 0.1 U 0.02 J $0.9 \, J$ 2 U 4/28/2010 XX 10.5 4 U 27 9.8 33 0.1 U 0.02 J1.1 J 52 145 ΧĐ SWDP2X3J2 2 U 0.1 U 4/28/2010 72 B6 21.2 9 29 0.1 U 0.05 0.6 U SWXX2X421 4 0.1 U 25 3.8 7/20/2010 XX 88 SWOP2X428 3.7 72 0.1 U 0.04 1.9 J 21.4 0.1 U 23 7/20/2010 XD 4 U 102 19.5 -5 10 8.2 57 0.1 U 0.02 J 4.2 10/19/2010 XD SWQP2X45A 5 U 0.1 U 4 U 4.8 4.8 98 19.3 SWXX2X455 010 10.1 8 58 0.1 U 0.02 J 541 10/19/2010 XX 4 U 1 J 62 8.5 1.7 7.1 21 0.1 U 0.01 J 11.4 XD SWDP2X49B зυ 0 1 U 4/26/2011 57 8.3 411 1.9 091 24 0.1 U 0.01 J SWXX2X496 3 U 0 1 U 11.5 6.7 4/26/2011 ХX 13.3 2 36 0 1 U 0.06 15 J 82 6 4 U 33 2.8 SWDP2X4D9 0.1 J7/19/2011 ΧD 15 83 12.6 21 35 43 0 1 U 0.06 16 J 2.9 7/19/2011 ХX SWXX2X4D4 4 U 0.1 J 76 4 U 5 U 14 12.6 7.4 42 0.1 U 0.01 J 2.6 ХX SWXX2X4GJ 4 Ų 0.1 U 10/25/2011

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| | F | OR: Juniper Ric | dge Landfill | | | | | Inorga | anics (part 1 | of 1) | | | | | | RLAND CENTER | I, ME 04021 |
|------------|---------------|---|--|---------------------------------|--|------------------------|------------|------------------------------|---------------|-------------------------|------------------|---------------------------|--|----------------|--------------------------------------|--|--|
| (SW-2) | | | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphate Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids mg/L | Tannin & Lignins (Tannic Acid) mg/L | |
| Date ` | Туре | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L − | mg/L | | | |
| | ¥5 6 | SWIDP2X4H4 | · · · · · · · · · · · · · · · · · · · | 4 U | 0.1 J | 13 | 6.3 | 43 | 0.1 U | 0.01 J | 2.3 | 75 | | 14.4 | 4 U | 5 U | _ |
| 10/25/2011 | | 5WXX2X519 | | 5 U | 0.5 U | 15.1 | 21.6 | 35 | 0.3 U | 0.04 U | 2.6 | 89 | | 12 | 4 U | 2.3 | <u> </u> |
| 4/24/2012 | | WDP2X51E | | 5 U | 0.5 U | 15.4 | 21.6 | 35 | 0.3 U | 0.04 U | 2.6 | 90 | | 11.7 | 4 U | 2.3 | |
| 4/24/2012 | | WXX2X568 | ├ ·── | 4 U | 0.5 U | 17.6 | 3.3 | 65 | 0.3 | 0.08 | 2 U | 71 | | 18 | 17 | 4 | |
| 7/24/2012 | | WDP2X5D4 | - · | 2 U | 0.5 U | 13.8 | 4 | 31 | 0.3 U | 0.04 U | 3 | 72 | <u> </u> | 10.9 | 40_ | 2.3 | |
| 10/23/2012 | <u> </u> | WXX2X5CJ | | 2 U | 0.5 U | 13 | 4.2 | 32 | 0.3 U | 0.04 U | 3 | 72 | | 10.7 | 4 U - | 1.8 | - |
| 10/23/2012 | <u> </u> | SWDP2X5HF | | 40 | 0.5 U | 12.8 | 14.2 | 28 | 0.3 U | 0.04 U | 2 U | 62 | 0.1 U | 7.8 | 40 | 1.5 | |
| 4/23/2013 | | SWXX2X5HA | | 4 U | 0.5 U | 13 | 13.6 | 29 | 0.3 U | 0.04 U | 2 U | 66 | 0.1 U | 7.6 | 40 | 1.5 | |
| 4/23/2013 | 754 | WXX2X63F | - | 3 0 | 7.7. | 25 | 4.5 | 54 | 0.3 U | 0.04 U | 2 U | . 74 | 0.1 U | 24.1 | 4 | 5 Ū | |
| 7/30/2013 | 741 | SWOP2X86D | l ——— | 10 | | 21 | 6.6 | 39 | 0.3 U | 0.04 | 2 U | 68 | 0.1 U | 11.9 | 6 | 2.5 U | |
| 10/29/2013 | 1 | SWXX2X688 | | 10 | | 22 | 6.6 | 40 | 0.3 U | 0.04 U | 2 U | 65 | 0.1 U | 11.8 | 40_ | 2.5 U | ⊥ |
| 10/29/2013 | | *************************************** | <u> </u> | _1 | | | | | | | | | | | | | |
| SW-3 | | | | | | | | | | | | | | 10.8 | 5 | 2 | |
| 5/3/2004 | XX S | SWXXXXVIA | Τ | 6 U | 0.5 | 22 | 10 | 31 | 0.1 U | 0.03 J | 1.3 | 68 | _ | 10.6 | 5 | 2 | <u> </u> |
| 5/3/2004 | | SWIDP2X01E | | 6 U | D.5 | 20 | 7.9 | 31 | 0.10 | 0.03 J | 13 | - | | 16.4 | 40 | 2.7 | |
| 7/27/2004 | _ | SWXX3X04G | · | 6 U | 0.1 J | 37 | 4.7 | 49 | 0.1 U | 0.04 | 0.4 | 100 | - | 13.5 | 40 | 3.4 | |
| 10/26/2004 | _ | SWDP2X06F | | 60 | 0.1 U | 31 | 3.9 | 39 | 0.1 U | 0.03 J | 0.4 | | ·· | 13.8 | + 4U | 3.2 | |
| 10/26/2004 | - | SWXX3X06B | | 6 U | 0.1 U | 28 | 3.9 | 40 | 0.1 U | 0.03 J | 0.5 | | · | 9.6 | 4 U | 2 | |
| 5/10/2005 | | SWXX3X12C | | 6∪ | 0.1 U | 10 | 5 | 30 | | 0.02 J | 1.1 J | | | 13.3 | + - 4 - | 2.6 | |
| 7/28/2005 | | SWXX3X160 | · · | 6 U | 0.1 U | 25 | 3.5 | 41 | 0.1 U | 0.02 J | 0.6 U | 71 | - | 14.5 | - | 27 | |
| 7/28/2005 | | SWDP2X164 | | 6 U | 0.10 | 25 | 3.5 | . 47 | 0.1 U | 0.03 J | 0.6 U | 74 | | 12.4 | 5 | 2.9 | |
| 9/20/2005 | | SWDP2X192 | T | 6 Ų | 0.1 U | 25 | 4.6 | . 38 | 0.1 U | 0 04 | 1.3 J | 65 | | 14.2 | 10 | 2.9 | †·· ''' |
| 9/20/2005 | +- | SWXX3X18I | T- " | 61 | 0.1 U | 25 | 4.5 | 38 | 0.1 U | 0.03 J | 1.3 J | 70 | | 10.4 | 4 U | 1.7 | -i · |
| 5/24/2006 | XX. | SWXX3X1DD | | 6 U | 0.1 U | 15 | 8.1 | 33 | 010 - | 0.02 1 | 2.3 0.8 J | 74 | | 15.6 | 4 U | 2 | |
| 7/26/2006 | XX | SWXX3X1GA | | 6 U | 0.1 U | 17 | 2.5 | 45 | 0.1 U | 0.02 J | 0.6 J | 36 | - | 13.2 | 4 | 1.3 | |
| 9/13/2006 | XX | \$WXX3X1J3 | | 60 | 0.1 U | 27 | 4.2 | 30 | 0.1 U _ | 0.02 J | - 1 J | - 51 | | 8.5 | 40 | 1.8 | |
| 5/15/200 | XX | \$WXX3X22A | ī . <u> </u> | 5 U | 0.1 U | 21 | 6.4 | 30 | 010 | 0.02 J 0.03 J | 1.8 J | - 83 | + | 13.1 | 4 U | 1.7 | |
| 7/24/200 | 7 XX | ŞWXX3X26E | T | 6U | 0.1 U | . 26 | 5.9 | 43 | 0.1 3 | 0.03 J | 1 1.3 J | 74 | <u> </u> | 12.6 | 4 U | 1.3 | · |
| 9/11/200 | XX | SWXX3X294 | Ť " | 6U | 0.1 U | 31 | 7.5 | 38 | . 0.1 J | | 1.9 J | 66 | | 10.9 | 7 | 1.8 | |
| 5/21/200 | 3 XX | SWXX3X2CI | T | 6 U | 0.1 U | 23 | 8.4 | 29 | 0.1 J | 0.03 J | 2.5 | 121 | | 14.8 | 4 U | 3.1 | |
| 7/29/200 | 3 XX | SWXX3X2G2 | | 6 U | 0.1 U | 26 | 6.4 | 37 | 0.2 J | 0.03 J 0.02 J | 2.9 | 76 | + | 12.9 | - 4 U | 1.9 | T |
| 10/28/200 | BI XX | SWXX3X2IC | | 5 U | 0.1 U | 15.9 | -6.7 | 32 | 0.10 | - 0.02 J | 1.5 J | 63 | | 9.2 | 40 | 16 | |
| 4/14/200 | 9 XX | SWXX3X320 | | 4 U | 0.1 U | 10.5 | 9.8 | 19 | 0.10 | | 1.5 J | 80 | - | 166 | 4 U | 2.9 | |
| 7/7/200 | 9 XX | \$WXX3X384 | | 5 U | 0.2 U | 16.6 | 45 | 42 | 0.1 U | 0.03 J 0.02 J | 2.5 | — 74 | | 11.4 | 4 U | 2.3 | T - |
| 10/27/200 | 9 XX | 5WXX3X3DJ | 1 | 5 U | 0.1 U | 10.7 | 48 | 35 | 0.1 U | 0.02 J 0.03 J | 1.8 J | 1 50 | + | 8.5 | 4 | 2 | |
| 4/28/201 | o xx | SWXX3X3II | <u> </u> | 2 U | 0.1 U | 21 | 81 | 27 | 0.1 U | 0.06 | 1.8 J | | | 8.9 | 16 | 1.2 | T |
| 7/20/201 | o xx | SWXX3X422 | | 3 U | 0.3 J | 40 | 5 | 27 | 0.1 U | | 5.5 | | | 17.2 | 4 U | 4.1 | |
| 10/19/201 | _ | SWXX3X456 | <u> </u> | 5 U | 0.1 U | 12.5 | 6.4 | 49 | 0.1 U | 0.02 J 0.01 J | 1.4 J | | + | 7.3 | 4 U | 1.4 | ļ—— |
| 4/26/201 | + | SWXX3X497 | | 3 U | 0.1 U | 12.3 | 5.8 | 20 | 0.1 U | 0.04 | 0.6 J | | + | 11.8 | 4 U | 1.3 | · i — |
| 7/19/201 | 1 XX | SWXX9X4D5 | | 4 U | <u>0.1 U</u> | 36 | . 5 | 29 | 0.1 U | 0.02 J | 1,9 J | | + | 12.9 | 4 U | 2.5 U | |
| 10/25/201 | 1 XX | SWXX3X4H0 | | | 0.1 U | 18.5 | 5.6 | 35 | <u>0.1 U</u> | 0.02 1 | ——···· | | | | | | I |
| 10/26/201 | | SWXX3XHBB | | 4 Ų | | _ | I | <u> </u> | _ | 0.04 U | 3.5 | | | 11.3 | 4 U | 2.2 | † |
| 4/24/201 | | SWXX3X51A | | 5 U | 0.5 U | 10.9 | 4.6 | 32 | 0.3 U | 0.04 0 | 2U | 76 | | 11 | 4 U | 2.5 U | |
| 7/24/201 | 2 X0 | SWDP2X56D | | 4U | 0.5 U | 33 | 1.9 | 33 | 0.3 U | 0.05 | 2 U | ··· + 79 | | 11.1 | 4 | 2.5 U | _1 |
| 7/24/201 | 2 XX | SWXX3X569 | | 4 U | 0.5 U | 33 | 2 | 31 | 030 | 0.05 0.04 U | 2.3 | 74 | - | 12.1 | 4 U | j 2.5 U | \top |
| 10/23/201 | | SWXX3X5D0 | | 2 U | 0.5 U | 13.6 | 3.8 | 35 | 0.3 U | | 3.1 | 56 | 0.1 U | | 4 U | 1,3 | |
| 4/23/201 | з хх | \$WXX3X5HB | | 4 U | 050 | 14.8 | 9.8 | 27 | 0.3 U | 0.04 U | | 67 | 0.1 0 | | 5 | 1.6 | \top |
| 7/30/201 | _ | SWXX3X63G | | 3 U | | 28 | 5.2 | 39 | 030 | 0 04 U | 2.4 | 6 7 | 0.1 0 | | | 1.8 | |
| 7/30/201 | $\overline{}$ | SWDP2X640 | - † · · · | 30 | | 28 | <u> 51</u> | . 37 | 0.3 U | 0.04 U | 2.3 | + | <u></u> | | 40 | 1.5 | |
| 10/29/201 | | SWXX3X669 | | 1 U | | 29 | 7.7 | 26 | 0.3 U | 0.04 U | 2.7 | | 014 | | 1 3 | | L |

FOR: Juniper Ridge Lendfill

SUMMARY REPORT

Inorganics (part 1 of 1)

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| | FOR: Juniper Ri | dge Landfill | | | | | Inorga | inics (part 1 | of 1) | | | | | CUMBE | CHARD ROAD RLAND CENTER, 1 | ME 04021 |
|----------------|-----------------|----------------------------|--|----------------|---------------------------------------|------------|------------------------------|----------------|-------------------------|----------|--|----------|----------------|--------------------------------------|--|----------|
| (SW-DP1) | .,, | Total Kjeldahl Nitrogén | Biochemical Oxygen Demand | Anumonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphete Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids mg/L | Tannin & Lignins (Tannic Acid) mg/L | |
| Date Type | Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | :::::::::::::::::::::::::::::::::::::: | mg/L | mg/L | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | 75 | | 0.69 | |
| 5/3/2004 XX | SWDP1X01H | T | 1 | 0.1 U | 128 | 12.5 | 21 | 0.1 U | 0.02 J | 13.5 | 200 | · | 7.5 13.3 | 4 U | 1 1 | |
| 7/27/2004 XX | SWDP1X053 | | T- '- | 0.1 U | 170 | 1,5 | 39 | 0.1 U | 0.03 J | 0.2 J | 262 | | 3.5 | 40 | 0.36 | |
| 0/26/2004 XX | SWDP1X08H | | T | 0.1 U | 116 | 4.5 | 10 | 0.1 U | 0,02 J | 4.7 | 155 | | 11.4 | 6 | 2 | |
| 5/10/2005 XX | SWDP1X12I | | | 0.1 U | 42 | 3.4 | 38 | D.1 U | 0.09 | 4.7 | 87 | · | 4.7 | 14 | 0.55 | |
| 7/28/2005 XX | SWDP1X166 | · | | 0.1 U | 47 | 2.1 | 15 | 0.1 U | 0.07 | 3.7 | 172 | | 3.4 | 13 | 1.1 | |
| 9/20/2005 XX | SWDP1X184 | | <u> </u> | 0.1 U | 81 | 5.5 | 9.1 | 0.1 U | 0.15 | 12 | 162 | | 4.5 | 5 - | 0.2 U | |
| 5/24/2006 XX | SWDP1X1DJ | T | | 0.1 U | 91 | 9.7 | 13 | 0.1 U | 0.04 | 30 | 149 | | 12.9 | 115 | 0.48 | |
| 7/26/2006 XX | SWDP1X1GG | 1 | 6 U | 0.1 U | 52 | 8.3 | 45 | 0.1 U | | 9.2 | - 145 1 | | 4.4 | 4 U | 0.2 | |
| 9/13/2006 XX | SWDP1X1J9 | | <u>i. </u> | 0.1 U | 69 | 3.6 | 9 J | - 0.1 U | 0.03 J | 11.4 | 115 | | 4.2 | 4 U | 0.53 | |
| 5/15/2007 XX | SWDP1X22G | | | 0.1 U | 74 | 6.9 | 3.1 | 0.1 U | 0.01 J 0.02 J | 11.9 | + - 90 | | 4.5 | 4 U | 0.2 U | |
| 7/24/2007 XX | SWDP1X270 | | | 0.10 | 42 | 5.2 | 14 | 0.1 U | | 12.8 | 73 | | 3.7 | 4 U | 0.20 | |
| 9/11/2007 XX | SWIDP1X29A | | | 0.1 U | 33 | 51 | 13 | 0.10 | 0.01 U | 8.8 | 102 | <u> </u> | 3.6 | 4 U | 0.2 U | |
| 5/21/2008 XX | SWDP1X2D4 | | <u> </u> | 0.1 U | 30 | 11.3 | 9.1 | 0.1 J | | 6.5 | 94 | | 8.4 | 5 | 0.21 | |
| 7/29/2008 XX | SWDP1X2G8 | T | | 0.1 U | 26 | 8.8 | 9 J | 0.1 J | 0.03 J 0.05 | 12.9 | 139 | | 3 | 13 | 0.2 Ų | |
| D/28/2008 XX | SWDP1X2II | | | 0.1 U | 56 | 6.2 | 11 | 0.1 J | 0.05 | 11.7 | 145 | | 3.6 | 12 | 0.29 | |
| 4/14/2009 XX | SWDP1X326 | | | 0.1 U | 69 | 11.7 | 10 | | 0.03 | 7.5 | 81 | <u> </u> | 4.5 | 40 | 0.26 | |
| 7/7/2009 XX | SWOP1X36A | 1 | | 0.5 U | 39 | 4.1 | 95 | 0.1 J 0.1 U | 0.023 | 11 - | 83 | | 3.5 | 6 | 0.47 | |
| 10/27/2009 XX | SWDP1X3E5 | <u> </u> | | 0.1 U | 37 | 5.5 | 10 | 010 | 0.02 J | 12.1 | 116 | · · · —— | 2.9 | 5 | 0.2 U | |
| 4/28/2010 XX | | | | 0.1 U | 62 | 10.2 | 8 J 15 | 0.1 U | 0.02 J | 6.5 | 68 | | 3.7 | 4 Ų | 0.2 U | |
| 7/20/2010 XX | SWDP1X426 | | | 0.10 | 16 | 4.1 | 6.1 | 0.1 U | 0.02 J | 9.7 | 102 | · | 2.2 | 4 U | 0.3 | |
| 10/19/2010 XX | | . — — | | 0.1 U | 37 | 5.2 | 7 J | 0.10 | 0.03 J | 4 | 85 | | 2.3 | 6 | 0.5 U | |
| 4/26/2011 XX | -1 | | <u> </u> | 0.1 U | 46 | 41- | -/J | 0.1 U | 0.02 J | 4.5 | 92 | i | 4.1 | 4 U | 0.2 U | |
| 7/19/2011 XX | | | | 0.10 | | 2.4 | 5 J | 0.1 U | 0.03 J | 6.1 | 51 | · | 3 | 5 | 0.3 | |
| 10/25/2011 XX | | | <u> </u> | 0.10 | 43 | 3.4 | 10 U | 0.3 U | 0.1 | 11.2 | 90 | | 2.4 | 65 | 1.2 | |
| 4/24/2012 XX | . | <u> </u> | _ | 0.5 U | 28 | 4.1 | 16 | 0.3 U | 0.14 | 8.1 | 97 | | 3.3 | 6 | 0.4 U | |
| 7/24/2012 XX | | | <u> </u> | 0.5 U | 63 | 4.1 3 | 10 U | 0.3 U | 0.08 | 5.5 | 90 | ļ: | 2.2 | 46 | 10 | |
| 10/23/2012 XX | | | ┷ | 0.5 U | 23 | | 10 U | 0.3 U | 0.06 | 27.4 | 118 | 0.13 | 2 U | 12 | 0.4 U | |
| 4/23/2013 XX | -+ | | | 0.5 U_ | 57 | | 10 U | 0.3 U | 0.04 U | 7.2 | | 0.1 U | 2.6 | 4 U | 0.4 U | |
| 7/30/2013 XX | SWDP1X642 | <u> </u> | | | 69 | 5.5 | 13 | 0.3 U | 0.04 | 9.1 | 55 | 0.1 U | 2.8 | 12 | 0.2 U | |
| 10/29/2013 XX | SWDP1X68F | <u> </u> | _ | | 109 | 15.5 | | | 1 0.0 | <u> </u> | | | | | | |
| SW-DP5 | | | | | 37 | 10.7 | 10 U | 0.3 U | 0.06 | 32.1 | 110 | 0.1 U | 2 U | 7 | 0.4 U | |
| 4/23/2013 XX | | | | 0.5 U | 9 | 2.3 | 21 | 0.3 U | 0.05 | 12.3 | 71 | 0.10 | 4.8 | 5 | 0.5 U | L — |
| 7/30/2013 XX | | _ | | | ——: <u>D</u> | 1 2.3 D | + ·· 2 | D | D D | <u> </u> | | D | D | D | D | L |
| 10/29/2013 XX | SWDP5X686 | <u> </u> | <u> </u> | | | | | | _4 | | | | | | | |
| SW-DP6 | | . , — | | | | 5.4 | | 0.1 J | 0.12 | 5.5 | 94 | 1 | 5.3 | 31 | 0.45 | |
| 10/27/2009! XX | - | _ | | 0.10 | | 22 3 | 29 - | 0.1 U | 0.11 | 18.5 | 179 | | 118 | 54 | 0.49 | |
| 4/28/2010 XX | ! | _ | | 010 | <u>66</u> | 22.1 | 36 | | 0.07 | 10.4 | 196 | 1 | 11 9 | 5 | 0.86 | ļ |
| 7/20/2010 XX | | | | 0.1 U | 39 | 10.7 | 17 | 0.10 | 0.03 J | 20.8 | 149 | | 56 | 4 | 0.93 | ļ |
| 10/19/2010 XX | · · | ļ | | 0.1 U 0.1 U | 23 | 17.7 | | 0.1 U | 0.04 | 22.2 | 127 |] | 4.5 | 7 | 0.54 | 1 |
| 4/26/2011 XX | | | | | 75 | 8.7 | 14 | 0.2 U | 0.05 | 155 | 323 | | 4.6 | 5 | 0.31 | ↓ |
| 7/19/2011 XX | | | + | 0.1 U | 59 | 16.3 | 8J | 0.1 U | 0.03 J | 42.2 | 168 | | 3.1 | 4 U | 0.4 | - |
| 10/25/2011 XX | | | - | 0.1 U | 16.8 | 10.3 | 13 | 0.3 U | 0.04 U | 21 3 | 91 | | 4.4 | . 5 | 0.42 | - |
| 4/24/2012 XX | | | - - | 0.5 () | 30 | 1.1 | | 0.3 U | 0.14 | 5.5 | 81 | I | 87 | 16 | 2.5 U | |
| 7/24/2012 XX | | | | 0.5 U | | 3.5 | 14 | 0.3 U | 0.07 | 3.9 | 89 | I | 4.6 | | 0.91 | |
| 10/23/2012 XX | | | - | 0.5 U | 7.8 | | | 0.3 U | 0.07 | 10.7 | 60 | 0.10 | 4.4 | 35 | 0.4 | ļ |
| 4/23/2013 XX | (SWDP6X5HI | 1 | 1 | U.S.U | 13.1 | | | 0.3 U | 0.04 U | 20.4 | 73 | 0.10 | 4,9 | 4 | 050 | 1 |

| REPORT PREPARED: 2/11/201 | | SUMMARY REPORT | | | | | | | | Page 26 of 26 | | | | |
|---------------------------|----------------------------|---------------------------------|-------------|------------------------|----------|------------------------------|---------------|-------------------------|---------|---------------------------|---------|----------------|------------------------------|--|
| FOR: Juniper F | Ridge Landfill | | | | | Inorga | anics (part 1 | of 1) | | | | V | 4 BLAN | 8 MAHER ENGINEERS, INC ICHARD ROAD ERLAND CENTER, ME 04021 |
| (SW-DP6) | Total Kjeldahl Nitrogen | Biochemical Oxygen Demand | Ammonia (N) | Bicarbonate (CaCO3) | Chloride | Chemical Oxygen Demand | Nitrate (N) | Phosphete Phosphorus | Sulfate | Total Dissolved Solids | Bromide | Organic Carbon | Total Suspended Solids | Tannin & Lignins (Tannic Acid) |
| Date Type Sample ID | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | m g/ L | mg/L |
| 10/29/2013 XX SWDP6X86G | | | | 12.6 | 4.9 | 15 | 0.3 U | 0.04 | 23.2 | 71 | 0.1 Ú | 3.8 | 4 U | 0.4 Ú |

Notes:

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

- 1- The sampling location was damaged or destroyed.
- D The sampling location was dry.
- **DE Decommissioned Location**
- F12 Pipe under water, no sample taken.
- F6 No flow. Sample not taken.
- H2 Waterlevel higher than pipes. See LF-COMP for readings
- 1- The sampling location yielded insufficient quantity to collect a sample.
- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

Page 1 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 Copper Nickel Potassium Sodium (DP-4) Arsenic Cadmium Calcium Iron Magnesium Manganese mg/Lmg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID Date -DP-4 1/30/2004 XX GWDP4X039 4.5 0.001 U 40 105 5.1 24 4.5 XX GWXXXXXXX 5/6/2004 3.2 0.004 54 55 1.26 23 3.4 7/26/2004 XX GWXXXXXXX 2.5 0.004 50 32 1.75 9.3 1.27 XX GWXXXXXX07H 10/26/2004 1.8 0.005 74 19 0.73 5.2 0.88 XX GWXXXXXII 5/9/2005 0.01 U 0.003 J 0.006 1.8 50 0.0002 U 26 0.6 8.3 1.04 XX GWXXXX176 0.001 U 8/1/2005 0.004 J1.5 0.001 U 35 0.0002 U 32 0.67 9.2 1.24 9/20/2005 XX GWXXXXX1A4 0.001 J 0.002 U 1.6 0.003 J29 0.0002 J 38 0.5 10.5 1.31 GWXXXX1EJ 5/22/2006 XX 0.003 0.003 J 1.1 0.001 J 7.3 0.0012 26 0.72 5.7 0.77 XX GWXXXX1HG 0.001 U 7/24/2006 0.002 U 0.001 U 0.0002 U 37 1 10.4 0,51 10.5 1.42 9/11/2006 XX GWXXXX209 0.001 U 0.002 J 1.4 0.004 13.4 0.0003 J 42 0.57 10.5 1.44 XX GWXXXX23G 5/14/2007 0.007 0.002 U 2.1 0.004 0.0003 34 8 0.94 9.7 1.67 7/23/2007 XX GWXXXX280 0.001 U 0.003 J 1.5 0.001 U 7.3 $0.0005 \, J$ 37 0.65 10.5 2 XX GWXXXXXAA 9/10/2007 0.002 J1,3 0.005 0.001 U 8.8 0.0006 42 0.86 10.5 1.75 XX GWXXXX2E4 5/19/2008 0.003 U 0.004 J 1,5 0.003 J 7.9 0.001 U 44.9 1.91 12 2.29 GWXXXX2H8 7/29/2008 XX 0.001 U 0.004 J 1.3 0.002 U 7.4 0.0002 ₺ 42.2 0.67 11 2.32 XX GWXXXXX2JI 10/27/2008 0.01 U 0.005 1.3 0.002 U 7.3 0.0002 U 37.4 1.18 9.8 1,98 GWXXXX336 4/13/2009 XX 0 005 0.006 1.5 0.002 J 8 0.0005 J 45.7 2.26 12.4 2.71 GWXXXXX37A 7/6/2009 XX 0.001 J 0.005 14 0.009 9.3 0.0002 J 46.5 1.32 12.4 2.33 GWXXXXXF5 XX 0.003 0.007 17 10/26/2009 0.015 9.4 0.0008 38.6 1 02 9.9 1.96 GWXXXXX404 4/26/2010 ХX 0.001 U 0.002 U 12 0.008 7.9 0.0002 J 28 0.69 7.2 1.79 XX GWXXXX438 7/19/2010 0.001 U 0.002 U 1.3 0.016 8.9 0.0002 U 31.9 0.61 8.7 1.38 GWXXXX46C 10/18/2010 XX 0.001 J 1.5 0.002 J 0.009 9 0.0002 U 30.9 0.34 7.2 1.4 4/25/2011 XX GWXXXX4AD 0.001 U 0.002 U 1.1 8.3 0.012 0.0002 U 26.3 7.2 1.48 0.28 7/18/2011 XX GWXXXX4EB 0.001 U 0.002 U 1.1 0.016 8.8 0.0007 25.5 0.22 7.4 1.38 GWXXXX4I6 10/24/2011 XX 0.001 U 0.002 U 1.3 0.002 U 10.3 0.0002 U 29.2 0.24 8 1.68 GWXXXX52G 4/25/2012 XX 0.003 U 0.005 U 1.1 0.011 10.2 0.0006 U 29.2 0.55 7.7 1.85 7/25/2012 XX GWXXXXX57F 0.003 U 0.005 U 1.3 0.011 10.5 0.0006 U 25.8 0.46 7.6 1.59 10/24/2012 XX GWXXXX5EB 0.003 U 0.005 U 1,2 0.006 11.8 0.0006 U 7.9 25.2 0.52 1.92 4/24/2013 XX GWXXXX5IH 0.003 U 0.005 U 1.3 0.011 10.8 0.0006 U 29.5 0.89 8.2 1.81 LF-COMP 7/19/2011 XX LFXXXX4F1 0.001 U 0.002 U 4.3 0.014 9 0.0002 U 44.3 0.02 U 10 0.02 U 4/24/2012 XX LFXXXX538 0.006 0 005 U 3.4 0.008 6.9 0.0006 U 41.4 92 0.1 0.05 U LF-UD-1 7/28/2004 XX LFUD1X05E 27 0.003 J 5.9 0 02 J 31 8.4 0.02 U 10/27/2004 XX LFUD1X076 21 0.002 J 5.8 0.02 U 25 7.4 0.02 U 5/11/2005 XX LFUD1X137 0 01 J 0.01 19 0.001 J 6.8 0.0002 U 29 0.03 J 8.1 0.02 U 7/27/2005 XX UFUD1X16F 0.001 J 0.002 U 18 0.002 J 6.4 0.0002 U 0.02 J 29 7.9 0.02 J 9/21/2005 XX LFUDTX190 0.003 0.002 U 1.8 0.001 J 7.1 0.0002 U 32 0.02 J 7.9 0.02 U 5/24/2006 XX LFUD1X1E8 0 001 U 0.002 U 2 0.004 7.6 0.0004 J 30 0.02 J 8.5 0.02 U 7/25/2006 XX LFUDIX1H5 0.002 J0.002 U 2.4 0.001 J 8.6 0.0002 U 29 0.02 J 8.5 0.02 U 9/11/2006 XX LFUDIX1JI 0.001 U 0.003 J 2 0 002 J 9.1 0.0006 33 0.3 9.5 0.02 J 5/16/2007: XX LFUD1X235 0.003 0.002 U 0.002 J 9.4 4 0.001 36 0.02 U 10.5 0.02 J7/25/2007 XX LFUD1X279 0.002 0.002 U 2.5 0.001 J 8 0 0002 U 39 0.1 0.02 U 9.9 9/12/2007 XX LFUD1X29J -1 1 5/20/2008 XX ;LFUD1X2DD 0.003 U 0.003 U 2.3 0 005 J 8.3 0.001 U 40.4 0.02 J10.4 0.02 U 7/28/2008 XX LFUD1X2GH 0.001 U 0.002 U 2.2 0 002 U 6.8 0 0002 U 41.8 0.02 J 9.6 0.02 U 10/28/2008 XX LFUD1X2J7 0 01 U 0.002 U 2.4 0 002 U 7.8 0.0002 U 45.1 0.02 U 10.6 0.02 U

REPORT PREPARED: 2/11/2014 12:52 Page 2 of 26 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (LF-UD-1) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium Magnesium Iton Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample ID 4/15/2009 XX LFUD1X32F 0.001 U 0.002 U 2.B 0.002 U 8.2 0.0002 U 53.6 0.02 U 11.3 0.02 U 7/8/2009 XX LFUD1X36J H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 10/27/2009 XX LFUD1X3EE H2 H2 H2 H2 H2 H2 H2 H2 H2 4/27/2010 XX LFUD1X3JD 0.001 U 0.002 U 0.007 3.1 7.6 0.0002 U 47 0.02 J 10.6 0.02 U 7/20/2010 XX LFUD1X42H F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 10/19/2010 XX LFUD1X461 Fб F6 F6 F6 F6 56 F6 F6 F6 F6 LFUD1X4A2 4/26/2011 XX 0.001 U 0 002 U 3.3 0.014 8 0.0004 J 42.B 0.02 U 9.3 0.02 U XX LFUD1X4E0 7/19/2011 0.001 U 0 002 U 4.1 0.014 9.1 0.0002 U 45.2 0.03 J 9.8 0.02 U 10/25/2011 ХX LFUD1X4HF 0.001 U 0.002 U 3.1 0.002 U 8.4 0.0002 U 43.2 0.03 J 11.4 0.02 U 4/24/2012 XX LFUD1X525 H2 H2 H2 H2 H2 **H**2 H2 H2 H2 H2 7/24/2012 XX LFUD1X574 0.004 0.005 U 3.5 0.007 8.7 0.0006 U 44.3 0.13 12.2 0.05 U LFUD1X5DF 10/23/2012 XX F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/23/2013 XX LFUD1X5I6 0.003 U 0.005 U 3.7 0.012 7.9 0.0006 U 44.4 0.05 U 10.5 0.05 U 7/30/2013 XX LFUD1X64B 0.005 U 3.2 0.015 7.1 0.0006 U 49.7 0.05 U 10.8 0.05 U 10/29/2013 XX LFUD1X674 F6 F6 F6 F6 F6 F6 F6 F6 F6 LF-UD-2 7/28/2004 XX LFUD2X05F 2.5 0.003 J 5.4 29 0.04 J ₿ 0.02 U 10/27/2004 XX LFUD2X077 2 0.006 5.2 25 0.02 U 7.2 0.02 JXX LFUD2X138 5/11/2005 0.01 U 0.002 J2 0.002 J 5.7 0 0002 U 20 0.04 J6.1 0.02 U LFUD2X16G 7/27/2005 ХX 0.001 U 0.002 U 2 0.001 J 6.9 0 0002 U 29 0.02 J8.1 0.02 J9/21/2005 XX LFUD2X19E 0.003 0.002 U 1.9 0.002 J 6.1 0 0002 U 30 0.02 J 0 02 U 5/24/2006 XX LFUD2X1E9 0.001 U 0.002 U 2.1 0.004 5.7 0.0005 J 23 $0.05 \, J$ 6.6 0 02 U 7/25/2006 XX LFUD2X1HB 0.001 J 0.002 U 2.4 0.001 J 6 0.0002 J 26 0.02 J7.1 0.02 U 9/11/2006 XX LFUD2X13J 0.001 U 0.002 J 3.2 0.003 J 181 0.0004 J 38 0.18 11 0.02 U 5/16/2007 XX LFUD2X236 0.001 J 0.002 J 3.6 0.004 0.0003 J 6.4 30 0.02 U 8.2 0.02 J7/25/2007 XX LFUD2X27A 0.001 J 0.002 U 2.5 0.001 U 5,9 0.0002 U 30 0.05 J8.1 0.02 U XX LFUD2X2A0 9/12/2007 0.001 U 0.002 U 2.3 0.001 U 5.8 35 0.0002 U 0.02 U 8 0.02 J XX LFUD2X2DE 5/20/2008 0.003 U 0.003 U 2.4 0.003 J 5.5 0.001 U 34.1 0.02 U 8.2 0.02 U XX LFUD2X2GI 7/28/2008 0.001 U 0.002 U 2.3 0.002 U 5.4 0.0002 U 33.5 7.9 0.02 J0.02 U 10/29/2008 ХX LFUD2X2J8 0.01 U 0.002 U 2.3 0.002 U 5.2 0.00D2 U 33.9 0.02 U 7.8 0.02 U XX LFUD2X32G 4/15/2009 0.001 U 0.002 U 2.9 0.004 J 6.1 0.0002 U 38.8 0.02 U 8.8 0.02 U 7/8/2009 XX LFUD2X370 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 10/27/2009 XX LFUD2X3EF H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 4/27/2010 XX LFUD2X3JE 0.001 U 0.002 U 3.3 0.005 6.6 0.0002 U 44.8 0.03 J 9.6 $0.02 \, U$ LFUD2X42I 7/20/2010 XX 0.001 U 0.002 U 3.3 0.013 6.2 0.0002 U 50.5 0.02 U 10.9 0.02 U XX LFUD2X462 10/19/2010 0.001 U 0.002 U 5 0.01 9.9 0.0002 U 643 0.13 12.3 0.02 JLFUD2X4A3 4/26/2011 XX 0.001 U 0.002 U 2.6 0.009 5.2 0.0003 J 30.7 0.02 U 8 0.02 U LFUD2X4E1 XX 7/19/2011 0.001 U 0.002 U 2.6 0.014 6.1 0.0002 U 33.6 0.02 U 8.9 0.02 U 10/25/2011 XX LFUD2X4HG 0.001 J 0.002 U 2.7 0.002 U 5.9 0 0002 U 34.2 0.02 U 8.9 0.02 U XX LFUD2X528 4/24/2012 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 XX LFUD2X575 7/24/2012 0.003 U 0.005 U 3.1 0.005 U 6.7 U 9000 U 39 0.05 U 10.4 0.05 U 10/23/2012 XX LFUD2X5DG 0.003 U 0.005 U 2.7 0.01 6.3 0.0006 U 35.6 0.05 U 0.05 U 9.9 4/23/2013 XX LFUD2X517 0.003 U 0.005 U 0.0006 U 3 0.011 6.8 363 0.05 U 0.05 U 9.6 7/30/2013 XX LFUD2X64C 0 005 U 2.6 0.012 6.2 0.0006 U 40.3 0.05 U 10.3 0.05 U 10/29/2013 XX LFUD2X675 0.005 U 3.4 0.008 7.3 0.0006 U 50.5 0.05 U 10.7 0.05 U LF-UD-3A,B 5/16/2007 XX LFUD3X246 0.002 J 0.002 U 3.3 0.003 J89 0.0004 J 60 0.02 U 11.5 0.02 U 7/25/2007 XX LFUD3X288 F6 F6 F6 F6 F6 F6 **F**6 F6 F6 F6

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|--|---|---|---|---|--|---|--|--|--|--|--|---------------------------------------|---------------------|----------|------------|-------------------------------------|
| | FOR: Juniper R | idge Landfill | | | | | Meta | al (part 1 of | 1) | | | | | 4 B | LANCHARD | R ENGINEERS ROAD CENTER, ME O |
| (LF-UD-3A,B) |) | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | | | | | |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| Date Type | Sample ID | | | | | | | - | - | | | | | | | |
| 9/12/2007 XX | LFU03X2AI | F6 | F6 | F6 | F6 | F6 | F6 | F6 - | F6 | F6 | F6 | | | | | —~~·ı |
| 5/20/2008 XX | LFU03X2EE | 0.003 U | 0.003 U | 2.9 | 0.003 U | 6 | 0.001 U | 48.4 | 0.02 U | 8.2 | 0.12 | | | | | |
| 7/28/2008 XX | LFUD3X2HG | D | D | D ~ | D | D | D | D | D D | - D | D D | | | | | |
| 10/29/2008 XX | LFUD3X306 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| | LFXXXX33F | 0.001 U | 0.002 U | 2 | 0.003 J | 8.4 | 0.0002 U | 69.9 | 0.02 U | 12.5 | 0.02 U | | Ť: | | | |
| | LFXXXX37I | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | | | | |
| | LFXXXX3FC | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | <u> </u> | | | | |
| | LFXXXX40C | 0.001 U | 0.002 U | 1.8 | 0.005 | 9.5 | 0.0002 U | 57.4 | 0.02 U | 10.7 | 0.02 U | | | | | |
| | LFXXXX43G | F6 | F6 | F6 | F6 | F6 | F6 . | F6 | F6 | F6 | F 6 | | | | | |
| | LFXXXX46J | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| | + | 0.001 U | 0.002 U | 1.8 | 0.01 | 7.2 | 0.0004 J | 47.2 | 0.02 U | 8.8 | 0.06 | | | | | |
| | LFXXXX4EJ | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | | | | |
| | LFXXXX534 | F6 | F6 | F6 - | F6 | F6 | F6 | F6 | F6 | . F6 | F6 | | | | | |
| | LFXXXX581 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | : | | | |
| | LFXXXX5EC | F6 F6 | F6 F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| | LFXXXX5J5 | F6 | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| | LFXXXX65A | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| | LFXXXX67J | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | ! | | |
| | E. 1000/012 | ; | <u>F.O</u> | F6 | F6 | F6 | F6 | F6 | F6 . | F6 | F6_ | ١ | | | | |
| LF-UD-4 | | | | | | | | | | | | | | | | |
| | LFXXXX34A | 0.001 U | 0.002 U | 4.9 | 0 002 J | 10.2 | 0.0002 U | 51.9 | 0.02 U | 11.8 | 0.02 U | ·· ·· | | | | 1 |
| | LFXXXX380 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | - † | <u> </u> | . — — | |
| | LFXXXX3FE | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | † — | | | |
| | LFXXXX40E | F6 | F6 | F6 | F6 | F6 | F6 : | F6 | F6 | F 6 | F6 | | | | + | - |
| | LFXXXX43I | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| *** **** | LFXXXX471 | F6 | F6 | F6 | . F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | 1 | | |
| | LFXXXX4B3 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | | | | | |
| | LFXXXXHG2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | | | _ | |
| | LFXXXX4GA | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | ! | | | | |
| | LFXXXX536 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | | | | | |
| | LFXXXX582 LFXXXX5CA | 0.003 U | 0.005 U | 5.8 | 0.007 | 10.6 | 0.0006 U | 63.5 | 0.05 U | 12.1 | 0.05 U | | | _ | | |
| - · · · · · · · · · · · · · · · · · · · | LFXXXX5J6 | 0.003 U | 0 005 U | 3.8 | 0.011 | 8.4 | 0.0006 U | 48.6 | 0.05 U | 11.1 | 0.05 U | | | | | |
| | LFXXXX65B | D.003 U | 0.005 U | 3.7 | 0.012 | B.2 | 0.0006.U | 44.8 | 0.05 U | 10.6 | 0.05 U | | | | | _ |
| 10/29/2013 XX I | | ···— | F6 0.005 U | <u>F6</u> 3.4 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | | | | | |
| LF-UD-5 | | l | 0.005 0 | | 0.009 | 7.4 | 0.0006 U | 49.4 | 0.05 U | 10.9 | 0.05 ∪ | L | l | | | |
| 41 - O.D-3 | | | | 3.9 | 0.004 J | 6 | 0.0002 U | 46 | 0.02 U | 9.6 | 0.02 U | | · T · · · · · · · · | | Г | |
| 4/27/2010 XX [| LFXXXX40F | 0.001 U | 0.002 U | 3.9 | 0.004 1 | | | | | 1 | 5.02 0 | | ! | | | |
| 4/27/2010 XX (| | 0.001 U | 0.002 U] | | 0.0041 | | | | | | | | | | | |
| 4/27/2010 XX [I LF-UD-5and | | 0.001 U | 0.002 U] | 4.9 | 0.007 | | 0.0002 U | 58.1 | 0.05 | 117 | 0.0211 | | [| · | | |
| 4/27/2010 XX LF-UD-5and 7/20/2010 XX | d6 | r ———— | | | | 7.1 | 0.0002 U 0.0002 U | <u>58.1</u> | 0.05 | 11.7 | 0.02 U | · | | | | |
| 4/27/2010 XX LF-UD-5and 7/20/2010 XX 10/19/2010 XX | 16 LFXXXX43J | 0.001 U | 0.002 U | 4.9 | 0.007 | | 0.0002 U | 58.1 | 0.42 | 11.6 | 0.05 | · · · · · · · · · · · · · · · · · · · | | | | |
| 4/27/2010 XX L LF-UD-5and 7/20/2010 XX L 10/19/2010 XX L 4/26/2011 XX L | 16 LFXXXX43J LFXXXX472 | 0.001 U 0.001 U | 0.002 U | 4.9 | 0.007 0.007 | 7.1 | 0.0002 U 0.0004 J | 58.1 64.6 | 0.42 0.02 U | 11.6 | 0.05 0.02 U | · · · · · · · · · · · · · · · · · · · | | | | |
| 4/27/2010 XX L.F-UD-5and | d6 LFXXXX43J LFXXXX472 LFXXXX484 | 0.001 U 0.001 U 0.001 U | 0.002 U 0.002 U 0.002 U | 4.9 4.8 5.7 | 0.007 0.007 0.017 | 7.1 8.1 8.8 | 0.0002 U | 58.1 64.6 59.1 | 0.42 0.02 U 0.15 | 11.6 13.3 13.6 | 0.05 0.02 ป 0.02 U | · · · · · · · · · · · · · · · · · · · | | | | |
| 4/27/2010 XX L.F-UD-5and | 16 LFXXXX49J LFXXXX472 LFXXXX484 LFXXXX484 | 0.001 U 0.001 U 0.001 U 0.001 U | 0.002 U 0.002 U 0.002 U 0.002 U | 4.9 4.8 5.7 5.5 | 0.007 0.007 0.017 0.012 | 7.1 8.1 6.8 10.2 | 0.0002 U 0.0004 J 0.0002 U | 58.1 64.6 59.1 71.3 | 0.42 0.02 U 0 15 11.3 | 11.6 13.3 13.6 15.4 | 0.05 0.02 U 0.02 U 0.25 | · · · · · · · · · · · · · · · · · · · | | | | |
| 4/27/2010 XX L.F-UD-5and 7/20/2010 XX 10/19/2011 XX 10/25/2011 XX 10/25/2011 XX 4/24/2012 XX | 16 LFXXXX49J LFXXXX472 LFXXXX484 LFXXXX484 LFXXXX467 | 0.001 U 0.001 U 0.001 U 0.001 U 0.003 | 0.002 U 0.002 U 0.002 U 0.002 U 0.007 | 4.9 4.8 5.7 5.5 | 0.007 0.007 0.017 0.012 0.008 | 7.1 8.1 8.8 10.2 | 0.0002 U 0.0004 J 0.0002 U 0.0002 U 0.0006 U | 58.1 64.6 59.1 71.3 65.9 | 0.42 0.02 U 0 15 11.3 0.05 | 11.6 13.3 13.6 15.4 12.9 | 0.05 0.02 U 0.02 U 0.25 0.05 U | · · · · · · · · · · · · · · · · · · · | | | | |
| 4/27/2010 | d6 LFXXXX43J LFXXXX472 LFXXXX484 LFXXXX467 LFXXXX637 | 0.001 U 0.001 U 0.001 U 0.001 U 0.003 0.004 | 0.002 U 0.002 U 0.002 U 0.002 U 0.007 0.005 U | 4.9 4.8 5.7 5.5 7 5.3 | 0.007 0.007 0.017 0.012 0.008 | 7.1 8.1 8.8 10.2 10 9.8 9.8 | 0.0002 U 0.0004 J 0.0002 U 0.0002 U 0.0006 U 0.0006 U | 58.1 64.6 59.1 71.3 65.9 68.3 | 0.42 0.02 U 0 15 11.3 0.05 0.05 U | 11.6 13.3 13.6 15.4 12.9 14.1 | 0.05 0.02 U 0.02 U 0.25 0.05 U 0.05 U | | | | | |
| 4/27/2010 | d6 LFXXXX43J LFXXXX472 LFXXXX484 LFXXXX484 LFXXXX467 LFXXXX537 LFXXXX584 | 0.001 U 0.001 U 0.001 U 0.001 U 0.003 0.004 0.003 | 0.002 U 0.002 U 0.002 U 0.002 U 0.007 0.005 U 0.005 U | 4.9 4.8 5.7 5.5 7 5.3 5.5 | 0.007 0.007 0.017 0.012 0.008 0.008 | 7.1 8.1 8.8 10.2 10 9.8 | 0.0002 U 0.0004 J 0.0002 U 0.0002 U 0.0006 U | 58.1 64.6 59.1 71.3 65.9 | 0.42 0.02 U 0 15 11.3 0.05 | 11.6 13.3 13.6 15.4 12.9 | 0.05 0.02 U 0.02 U 0.25 0.05 U | | | | | |

| REPORT PREPARED: 2/11/2014 12:52 FOR: Juniper Ridge Landfill | | | SUMMARY REPORT | | | | | | ÖRT | | | Page 4 of 26 SEVEE & MAHER ENGINEERS, INC. | |
|--|---------------|-----------|----------------|---------|-----------|---------|------------|-------------|---------------------|--------|--------------|--|---|
| . Orc. Jourpal Grade Fallami | | | | | | | | Meta | Metal (part 1 of 1) | | | | 4 BLANCHARD ROAD 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| (LF-UD- | (LF-UD-5and6) | | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | |
| | | | m g/ L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L, | |
| Date _: | Туре | Sample ID | | | | | | | | | | | |
| 10/29/2013 | XX | LFXXXX881 | I | 0.005 U | 3.9 | 0.009 | 7.7 | 0.0006 U | 56.1 | 0.05 U | 11.4 | 0.05 U | |
| LF-UD | -6 | | | | | | | | · | | | | |
| 4/26/2011 | ХХ | LFUD6X486 | 0.001 U | 0.002 U | 5 | 0.02 | 11.3 | 0.0006 | 81,2 | 0.02 U | 16.7 | 0.02 U | |
| 7/19/2011 | _ | LFUD6X4F4 | 0.007 | 0.013 | 5.9 | 0.003 J | 9.6 | 0.0002 U | 83.1 | 6.28 | 17.6 | 0.02 0 | |
| 10/25/2011 | XX | LFUD6X4G9 | 0.002 J | 0.007 | 5.1 | 0.006 | 8.7 | 0.0007 | 94.1 | 0.02 U | 18.6 | 0.02 U | |
| 4/24/2012 | XX | LFUD6X539 | 0.004 | 0.005 U | 4.7 | 0.007 | 7.9 | 0.0006 U | 75.7 | 0.05 U | 15.9 | 0.05 U | |
| 7/24/2012 | XX | UFUD6X586 | 0.003 | 0.005 U | 5.3 | 0.011 | 26.5 | 0.0006 U | 96.4 | 0.05 U | 22.2 | 0.05 IJ | |
| 10/23/2012 | XX | LFUD8X5C9 | 0.003 U | 0.005 U | 5.1 | 0.025 | 64.1 | 0.0006 U | 83.7 | 0.05 U | 23.7 | 0.05 U | |
| 4/23/2013 | XX | LFUD6X5J9 | 0.003 U | 0.005 U | 3.3 | 0.015 | 39.7 | 0.0006 U | 62 | 0.05 U | 14.7 | 0.05 U | |
| 7/30/2013 | 4 | LFUD6X65E | I | 0.005 ↓ | 4.3 | 0.023 | 74.3 | 0.0006 U | 86.3 | 0.05 U | 24.2 | 0.05 U | |
| 10/29/2013 | XX | LFUD8X883 | I | 0.005 U | 4.4 | 0.019 | 73.6 | 0.0006 U | 85.6 | 0.06 | 25.4 | 0.05 U | |
| LF-UD | -7 | | | | | | | | | | | | |
| 4/24/2012 | XX | LFUD7X53A | H2 | H2 | † H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | |
| 7/24/2012 | XX | LFXXXX587 | F6 | F6 | F6 | F6 | F 6 | F6 | F6 | F6 | F6 | F6 | |
| 10/23/2012 | XX | LFXXXX5EF | F6 | F6 | F6 | F6 | F6 | F8 | F6 | F8 | F6 | F6 | |
| 4/23/2013 | _xx_ | LFUD7X5JA | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | |
| 7/30/2013 | | LFUD7X65F | | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | |
| 10/29/2013 | XX | LFUD7X684 | ! | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | |
| LF-UD- | -8 | | | | | | | | • | | | | |
| 4/23/2013 | XX | LFUD8X5JD | 0.003 U | 0.005 U | 3.7 | 0.014 | 6.9 | 0.0006 U | 39.3 | 0.05 U | 9 | 0.05 U | |
| 7/30/2013 | XX | LFUD8X65G | | 0.005 U | 3.7 | 0.013 | 7,1 | U 3000.0 | 50.1 | 0.05 U | 10.7 | 0.05 U | |
| 10/29/2013 | XX | LFUD8X685 | | 0.005 U | 3.7 | 0.009 | 7.3 | 0.0006 U | 49.1 | 0.05 U | 11.1 | 0 05 U | |
| LP-CO | MP | | | | . | | | ' | · | | <u> </u> | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 10/27/2004 | ХX | LPCOMPHD2 |] | | 33 | 0.001 J | 62 | 1 | 60 | 0.02 J | 22 | 0.02 J | |
| LP-LD- | 1 | | | | | | · | | · | | | 1,425 | |
| 7/28/2004 | XX | LPLD1X05I | 1 | | 32 | 0.006 | 51 | | 100 | 0.2 | 21 | 0.02 J | |
| 10/27/2004 | XX | LPLD1X07A | 1 | | 22 | 0.001 J | 37 | 1 | 55 | 0.41 | 9.3 | 0.03 J | |
| 5/11/2005 | хх | LPLD1X13B | 0.01 U | 0.002 U | 4.2 | 0.004 | 2.8 | 0.0002 U | 6.6 | 0.47 | 11 | 0.02 J | |
| 7/27/2005 | XX | LPLD1X16J | 0.002 J | 0.002 J | 6.5 | 0.001 U | 9.7 | 0.0002 U | 65 | 0 03 J | 69 | 0.06 | |
| 9/21/2005 | | LPLD1X19H | 0.004 | 0.005 | 58 | 0.005 | 68 | 0.0002 U | 75 | 0,44 | 28 | 0.28 | |
| 5/24/2006 | _ | LPLD1X1EC | 0.001 J | 0.002 J | 8.7 | 0.001 J | 12 | 0 0002 U | 27 | 0.19 | 4.6 | 0.02 U | |
| 7/25/2006 | XX | LPLD1X1H9 | 0.001 J | 0.002 U | 8.3 | 0.005 | 26 | 0 0002 U | 75 | 0.15 | 12 | 0.02 J | |
| 9/11/2006 | | LPLD1X202 | 0.004 | 0.006 | 11.5 | 0.005 | 45 | 0.0015 | 105 | 0.16 | 16 | 0.02 J | · |
| 5/16/2007 | | LPLD1X239 | 0.003 | 0.0D2 J | 4.5 | D,003 J | 22 | 0.0009 | 80 | 0.18 | 21 | 0.03 J | |
| 7/25/2007 | XX | LPLD1X27D | 0.001 J | 0.002 U | 18 | 0.001 U | 35 | 0.0002 U | 115 | 0.17 | 15 | 0.25 | |
| 9/12/2007 | | LPLD1X2A3 | 0.001 U | 0.005 | 18 | 0.001 U | 42 | 0.0002 J | 140 | 4.7 | 16 | 1.58 | |
| 5/20/2008 | | LPLD1X2DH | 0.003 ∪ | 0.003 U | 9.3 | 0.003 U | 2.7 | 0.001 U | 14.5 | 0.08 | 1.3 | 0.02 U | |
| 7/28/2008 | | LPLD1X2H1 | 0.002 J | 0.002 U | 17.3 | 0.002 U | 5.3 | 0.0002 ป | 19.4 | 0.05 | 1.6 | 0.06 | |
| 10/29/2008 | - | LPLD1X2JB | 0.01 U | 0.002 U | 24.9 | 0.002 U | 7.4 | 0.0002 U | 35.4 | 0.05 | 2.8 | 0.02 U | |
| 4/15/2009 | _ | LPLD1X32J | <u>0.001 U</u> | 0.002 U | 6.2 | 0.002 J | 21.3 | 0.0002 U | 94,6 | 0.02 J | 14.8 | 0.05 | |
| 7/8/2009 | | LPLD1X373 | 0 001 J | 0.002 U | 2.1 | 0.003 J | 81 | 0.0002 U | 14.6 | 0.39 | 2 | 0.04 J | |
| 10/27/2009 | | LPLD1X3EI | 0.001 U | 0.002 J | 7.1 | 0.002 J | 7.7 | 0.0006 | 17.9 | 0.02 U | 1.2 | 0 02 U | |
| LP-UD- | | | | | | | | | | | | | |
| 7/28/2004 | | LPUD1X05G | | | Ð | Ď | D | | D | D | D | σ | |
| 10/27/2004 | | LPUD1X078 | | | H2 | H2 | H2 | | H2 | H2 | H2 | H2 | |
| 5/11/2005 | xx | LPUD1X138 | D | D | D | D | D | 0 | D | D | . <u>D</u> . | - D | |

REPORT PREPARED: 2/11/2014 12:52 Page 5 of 26 SUMMARY REPORT FOR: Juniper Ridge Landfill SEVEE & MAHER ENGINEERS, INC. Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (LP-UD-1) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium fron Magnesium Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID 7/27/2005 XX LPUD1X16H D D D D D Đ D D D D 9/21/2005 XX LPUD1X19F D D D D D D D D D D 5/24/2006 XX LPUDIXIEA D D D D Ď D D D D D 7/26/2006 XX LPUD1X1H7 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 9/11/2006 XX LPUD1X200 D D D D Ð D D Ð D D 5/16/2007 XX LPUD1X237 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 7/25/2007 XX LPU01X278 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 9/12/2007 XX LPUD1X2A1 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X2DF 5/20/2008 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 7/28/2008 XX LPUD1X2GJ D D D Ω D D n D D Ď 10/29/2008 XX LPUD1X2J9 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X32H 4/15/2009 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X371 7/8/2009 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 10/27/2009 XX LPUD1X3EG F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/27/2010 XX LPUD1X3JF F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X42J 7/20/2010 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 10/19/2010 XX LPUD1X463 Fô F6 F6 F6 F6 F6 F6 F6 F6 F6 4/26/2011 LPUD1X4A4 XX F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X4E2 7/19/2011 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUDIXIHH 10/25/2011 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X527 4/24/2012 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 7/24/2012 XX LPUD1X576 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X5DH 10/23/2012 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 LPUD1XSI8 4/23/2013 XX F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 7/30/2013 XX LPUD1X64D F6 F6 F6 F6 F6 F6 F6 F6 F6 10/29/2013 XX LPUD1X676 F6 F6 F6 F6 F6 F6 F6 F6 F6 LP-UD-2 XX LPUD2X05H 7/28/2004 8 0.003 .1 24 60 0.03 J16.5 0.02 J LPUD2X079 10/27/2004 ХX 25 0.003 J58 60 0.02 J 21 0.02 U 5/11/2005 XX LPUD2X13A 0.01 J0.007 8.4 0.002 J 23 0.0002 U 36 0.04 J 12.5 0.02 U 7/27/2005 XX LPUD2X16I 0.001 U 0.002 U 3.7 0.002 J 21 0 0002 U 40 0.04 J 12.5 0.02 J 9/21/2005 XX LPUD2X19G 0.003 0.002 J0.0002 U 5.3 0.002 J 25 42 0.02 J12 0.02 U 5/24/2006 XX LPUD2X1EB 0.003 0.002 U 4.2 0.003 J 17 0.0002 J34 0.13 10.5 0.05 7/25/2006 XX LPU02X1H8 0.001 J 0.002 J 4 0.002 J 17.6 0.0002 U 33 0.04 J 10.5 0.02 U LPUD2X201 9/11/2006 XX 0.001 U 0.002 J 2.3 0.006 0.0016 31 0.02 J 8.1 0.02 U 5/16/2007 XX LPUD2X236 0.002 J 0.002 J 4.3 0.002 J15.9 0.0005 J37 0.07 12.5 $0.02 \, \mathrm{J}$ 7/25/2007 LPUDZX27C ХX 0.001 J0.002 U 4.2 0.001 J 14.5 0.0002 J 34 0.06 10.5 0.02 U 9/12/2007 ХX LPUD2X2A2 0.001 J 0.002 U 2.9 0.001 U 12.6 0 0002 U 38 0.02 U 10.5 0.02 U 5/20/2008 XX LPUD2X2DG 0.003 U 0,003 U 3 0.003 J 12.1 0.001 U 36.9 0.02 U 10.9 0.02 U 7/28/2008 XX LPUD2X2HQ 0.001 U 0.002 U 3.1 0 002 U 10.6 0.0002 U 33.5 0 02 J 9.2 0.02 U LPUD2X2JA 10/29/2008 XX 0.01 U 0.002 U 3.2 0 002 U 9.9 0.0002 U 34.4 0.02 U 9.9 0.02 U 4/15/2009 XX. LPUD2X32I 0.001 U 0.002 U 2.7 0.002 U 92 0.0002 U 36.8 0.02 U 10.2 0.02 U 7/8/2009 XX LPUD2X372 0.001 J 0.002 J3.1 0.005 10.4 0.0003 J 38.1 0.07 10.1 0.02 U LPUD2X3EH 10/27/2009 XX 0.001 J D.003 J 2.8 0.003 J7.6 0.0007 28 8 0.02 U 7.7 0.03 J 4/27/2010 XX LPUD2X3JG 0 001 U 0.002 U 2.3 0.004 J 8.5 0.0002 U 37 8 0.05 10.9 0.02 U LPUD2X430 7/20/2010 XX 0 001 U 0.002 U 2.5 0.011 8.9 0.0002 U 37 0.06 103 0.02 U LPUD2X464 10/19/2010 XX 0.001 U 0 002 U 2.3 0.005 8.7 0.0002 U 34.5 0.02 U 9.5 0.02 U 4/26/2011 LPUD2X4A5 XX 0.001 U 0 002 U 2.4 800.0 8.5 0.0003 J32.6 0.02 U 10.6 0.02 U LPUD2X4E3 7/19/2011 XX 0.008 0.004 J 2.7 0.002 J 9.3 0.0002 U 31.5 2.86 10.2 0.36

| REPORT PREPARED: 2/11/201 | 4 12:52 | | _ | T | | SUMA | MARY REP | 1DT | | } | Page 6 of 26 |
|---------------------------|----------------|---------|-----------|---------|--------|----------|-----------------|----------------|-------------|-----------|--|
| FOR: Juniper 6 | Ridge Landfill | | | | | | | | | | SEVEE & MAHER ENGINEERS, INC. |
| | | | | | | Meta | al (part 1 of | 1) | | | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| (LP-UD-2) | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | 1/2 |
| | mg/L | mg/L | my/L | mg/L | mg/L | mg/L | mg/L | mg/L | πg/L | mg/L | |
| Date Type Sample ID | | | | | | | | | | | |
| 10/25/2011 XX LPUD2X4HI | 0.006 | 0.002 ป | 2.8 | 0.002 U | 9.6 | 0.0002 U | 33.1 | 0.88 | 10.7 | 0.08 | |
| 4/24/2012 XX LPUD2X528 | 0.005 | 0.005 U | 2.9 | 0.006 | 8.5 | 0.0006 U | 29.9 | 0.11 | 9.7 | 0.05 U | |
| 7/24/2012 XX LPUD2X577 | 0.003 | 0.005 U | 3.2 | 0.008 | 9.7 | 0.0006 | 40.5 | 0.05 Ú | 11.7 | 0.05 U | |
| 10/23/2012 XX LPUD2X5DI | 0.003 U | 0.005 U | 2.4 | 0.012 | 9 | 0.0006 U | 29.9 | 0.05 U | 10 | 0.05 U | |
| 4/23/2013 XX LPUD2X5I9 | 0.003 U | 0.005 U | 2.3 | 0.011 | 8 | 0.0006 U | 33.9 | 0.05 U | 10.4 | 0.05 U | |
| 7/30/2013 XX LPUD2X64E | | 0.005 U | 2.5 | 0.011 | 8.1 | 0.0006 U | 37.1 | 0.05 Ü | 10.8 | 0.05 U | |
| 10/29/2013 XX LPUD2X677 | | 0.005 U | 2.2 | 0.01 | 7.9 | 0.0006 U | 36.4 | 0.05 U | 11.4 | 0.05 U | ··· |
| MW04-102 | | | | | | | | | | | |
| 1/18/2005 XX GW102X10G | 0.001 J | 0.003 J | 1.2 | 0.001 U | 9.8 | 0.0002 J | 25 | 0.1 | 6.6 | 0.08 | <u> </u> |
| 3/21/2005 XX GW102X144 | 0.001 ∪ | 0.002 U | 1.5 | 0.001 U | 11 | 0.0008 | 25 | 0.02 J | 6.4 | 0.02 U | """ |
| 7/25/2005 XX GW102X17I | 0.001 U | 0.002 ป | 2.5 | 0.003 J | 9 | 0.0002 J | 29 | 0.1 | 7.4 | 0.09 | |
| 9/20/2005 XX GW102X1A9 | 0.001 J | 0.006 | 1.8 | 0.002 J | 9.2 | 0.0002 U | 27 | 0.03 J | 6.7 | 0.02 U | |
| 5/23/2006; XX GW102X1F4 | 0.001 U | 0.002 U | 2.3 | 0.001 U | 8.7 | 0.0008 | 25 | 0.04 J | 6.7 | 0.02 U | |
| 7/25/2006 XX GW102X110 | 0.002 J | 0.012 | 2.5 | 0.005 | 8.9 | 0.0002 U | 25 | 0.02 U | 7.1 | 0.02 U | <u> </u> |
| 9/12/2006 XX GW102X20D | 0.001 U | 0.002 U | 3.2 | 0.002 J | 10.1 | 0.0002 U | 28 | 0.13 | 7.3 | 0.02 U | |
| 5/15/2007 XX GVV102X240 | 0.004 | 0.003 J | 2.6 | 0.004 | 8.7 | 0.001 | 25 | 0.06 | 7.2 | 0.03 J | |
| 7/24/2007 XX GW102X284 | 0.002 J | 0.002 J | 2.4 | 0.001 U | 8.1 | 0.0002 J | 24 | 0.05 J | . 8 | 0.02 J | |
| 9/11/2007 XX GW102X2AE | 0.001 J | 0.002 U | 1.9 | 0.001 U | 8.2 | 0.0004 J | 27 | 0 04 J | 6.9 | 0.02 J | <u> </u> |
| 5/20/2008 XX GW102X2E8 | U 600.0 | 0.003 U | 1.8 | 0.003 J | 7.5 | 0.001 U | 27 | 0.02 U | 7.2 | 0.02 U | · · · · · · · · · · · · · · · · · · · |
| 7/29/2008 XX GW/102X2HC | 0.001 U | 0.002 U | 1.7 | 0.002 U | 6.8 | 0.0002 U | 25.5 | 0.05 | 6.7 | D.02 U | · - |
| 10/27/2008 XX GW102X302 | 0.01 U | 0.002 ป | 1.6 | 0.002 U | 6.4 | 0.0002 ∪ | 24.1 | 0.04 J | 6.5 | 0.02 U | - h |
| 4/14/2009 XX GW102X339 | 0.001 U | 0.002 U | 1.7 | 0.002 U | 7.3 | 0.0002 U | 28.1 | 0.02 J | 7.5 | 0.02 U | |
| 7/7/2009 XX GW102X37D | 0.003 | 0.002 U | 1,7 | 0.002 U | 7.2 | 0.0005 J | 27.6 | 0.02 J | 69 | 0.02 U | |
| 10/27/2009 XX GW102X3F8 | 0.001 U | 0.002 U | 1.7 | 0.004 J | 6.8 | 0.0002 U | 26.7 | 0.02 U | 7 | 0.02 U | |
| 4/27/2010 XX GW102X407 | 0.001 U | 0.002 U | 1.6 | 0.004 J | 69 | 0.0002 U | 27.1 | 0.02 J | 7 | 0.02 U | |
| 7/21/2010 XX GW102X43B | 0.001 U | 0.002 U | 17 | 0.006 | 66 | 0.0002 U | 26.1 | 0.02 U | 6.8 | 0.02 U | |
| 10/19/2010 XX GW102X48F | 0.001 U | 0.002 U | 18 | 0.003 J | 73 | 0.0002 U | 27.1 | 0.02 Ų | 7 | 0.02 U | |
| 4/25/2011 XX GW102X4AG | 0.001 U | 0.002 U | 17 | 0.005 | 69 | 0.0002 U | 26.3 | 0.02 J | 7.5 | 0.02 U | |
| 7/19/2011 XX GW102X4EE | 0.001 U | 0.002 U | 1.7 | 0.002 Ú | 7.1 | 0.0002 U | 26.B | 0.02 U | 7.2 | 0.02 U | |
| 10/25/2011 XX GW102X419 | 0.001 U | 0.003 J | 2 | 0.004 J | 7.6 | 0.0002 U | 25.4 | 0.02 U | 7.5 | 0.02 U | |
| 4/24/2012 XX GW102X52J | 0.003 U | 0.005 U | 1.7 | 0 005 | 6.9 | 0.0006 U | 23.5 | 0.05 U | 7.8 | 0.05 U | |
| 7/24/2012 XX GW102X571 | 0.003 U | 0.005 U | 1.9 | 0.005 U | 7.9 | 0.0006 U | 25 | 0.05 U | 7.6 | 0.05 U | |
| 10/22/2012 XX GW102X5E9 | 0.003 () | 0.005 U | 2 | 0.005 U | 8.9 | 0.0006 | 31.2 | 0.05 U | 8.1 | 0.05 U | |
| 4/23/2013 XX GW102X5J0 | 0.003 U | 0 005 U | 1.6 | 0.008 | 7,1 | 0.0006 U | 24.2 | 0.05 U | 7 | 0.05 U | |
| 7/31/2013 XX GW102X655 | T | 0 005 U | 1.5 | 0.017 | 7 | 0.0008 | 27.5 | 0.05 U | 7.4 | 0.05 U | |
| 10/28/2013 XX GW102X67F | Ţ | 0.005 U | 2.1 | 0.013 | 8.2 | 0.0006 U | 25.6 | 0.05 U | 7.1 | 0.05 U | |
| MW04-105 | | | | | | | | | 1 | <u> </u> | |
| 1/17/2005 XX GW105X10F | 0.005 | 0.002 J | 2 | 0.001 U | 19 | 0.0004 J | 54 | 0.44 | : 40 | | |
| 3/21/2005 XX GW105X147 | 0.001 U | 0.002 U | 1.9 | 0.001 U | 16 | 0.0004 J | 75 | 0.11 0.02 J | 18 | 0.98 | |
| 7/25/2005 XX GW105X181 | 0.002 J | 0.002 U | 1.9 | 0.003 J | 15 | 0.0002 U | | | | 0.19 | .+ |
| 9/20/2005 XX GW105X1AC | 0.002 J | 0.002 U | 16 | 0.002 J | 18 | 0.0002 U | <u>65</u> | 0.05 J 0.06 | 26 | 0.35 | |
| 5/23/2006 XX GW105X1F7 | 0.001 U | 0.002 J | 2 | 0.001 U | 12 | 0.0002 U | <u>50</u> 36 | 0.05 J | 30 | 0.25 | \ |
| 7/25/2006 XX GW105X111 | 0.003 | 0.004 J | 2.2 | 0.003 J | 18 | 0.0004 J | 42 | 0.05 J | ·· - 13.5 | 0.42 | - |
| 7/25/2006 XD GW0P3X1GI | 0.003 | 0.004 3 | 2 | 0.002 J | 18.9 | 0.0002 U | 38 | 0.07 | | 0.34 | |
| 9/12/2006 XX GW105X20E | 0.001 U | 0.002 J | 2.8 | 0.002 J | 26 | 0.0002 U | 48 | | 13 | 0.34 | |
| 5/14/2007 XX GW105X241 | 0.002 J | 0 002 U | 1.9 | 0.001 J | 19 | 0.0002 0 | | 0.06 | 17 | 0.14 | |
| 5/14/2007 XD GWDP3X221 | 0.001 J | 0.002 U | 2.3 | 0.003 J | | 0.0009 | 36 | 0.05 J | 13.5 | 0.2 | · |
| 7/24/2007 XX GW105X285 | 0 001 U | 0.002 J | 1.9 | 0.002 J | 19.5 | | 35 | 0.05 1 | 13.5 | 0.2 | |
| | 2 00010 | ~~~~ | 2,07 | 0.002.0 | 31 | 0.0003 J | 60 | 0.04 J | 15 | 0.04 J | i |

REPORT PREPARED: 2/11/2014 12:52 Page 7 of 26 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (MW04-105) Nickel Copper Potassium Arsenic Sodium Cadmium Calcium Iron Manganese Magnesium mµ/L mg/L mg/L mg/L mg/L mg/L, mg/L mg/L mg/L mg/L Type Sample ID Date GWDP3X272 7/24/2007 ΧĐ 0.001 U 0.002 J 1.9 0.001 J 29 0.0003 J60 0.04 J 15.5 0.03 J GW105X2AF 9/10/2007 XX 0.001 J 0.002 U 1.7 0.001 U 32 0.0002 J 75 0.03 J 17 0.03 J 5/19/2008 XX GW105X2E9 0.003 U 0.003 U 2.2 0.004 J 25.3 0.001 U 49.9 17.8 0.06 0.03 J GWDP3X2D6 ΧD 5/19/2008 0.003 U 0.003 U 2.1 0.005 J 24.3 0.001 U 49.2 0.06 17.1 0.02 J XX GW105X2HD 7/29/2008 0.002 J0.002 U 1.7 0.002 U 25.2 0.0002 U 42.9 15.4 0.1 0.06 0.002 U 7/29/2008 XD GWDP3X2GA 0.001 U 1.7 0.002 U 24.1 0.0002 U 41.7 0.1 14,9 0.09 XX GW105X303 10/27/2008 0.01 U 0.002 U 2 0.002 U 20.9 0.0002 U 41.1 0.04 J 14.8 0.06XD GWDP1X305 10/27/2008 0.01 U 0.002 U 1.6 0.002 U 23.2 0.0003 J 38.3 0.05 13 0.04 J4/15/2009 XD GWDP3X328 0.001 U 0.002 U 1.6 0.002 U 13.7 0.0002 U 29.8 0.04 J 9.6 0.02 J4/15/2009 XX GW105X33A 0.001 U 0.002 U 1.6 15.3 0.002 U 0.0002 U 31.4 0.05 10.3 0.02 U XX GW105X37E 7/7/2009 0.002 J0.002 J1.4 0.004 J 22.6 0.0003 J 36.5 0.0712.1 0.04 J XD GWDP1X361 0.001 U 7/7/2009 0.002 J1.7 0.002 J 20.3 0.0002 U 34.7 0.07 11.8 0.05 10/26/2009 XĐ GWDP1X3DG 0.001 U 0.003 J 1.3 0.014 19.6 0.0019 32.1 0.04 J 10.7 0.03 J XX GW105X3F9 10/26/2009 0.00f U 0.004 J 1.6 0.014 20.8 0.0021 35.2 0.02 U 11,6 0.03 J 4/27/2010 XD GWDP3X3J6 0.001 ป 0.002 Ü 1.3 0.007 16.4 0.0002 U 28.2 0.02 U 9.8 0.02 U XX GW105X408 4/27/2010 0.001 U 0.002 U 1.3 0.005 16.7 t 6000.0 0.02 U 30.1 9.9 0.02 U XX GW105X43C 7/19/2010 0.001 U 0.002 U 1.3 0.013 17.3 0.0002 U 31.2 0.02 U 10.6 0.02 U 10/18/2010 XD GWDP3X45E 0.001 U 0.002 U 1.7 0.014 18.9 0.0002 U 33.6 0.12 12.4 0.04 J 10/18/2010 XX (GW105X46G 0.001 U 0,002 U 1.4 0.013 17.7 0.0002 U 32.8 0.02 J11.6 0.08 4/26/2011 XX GW105X4AH 0.001 U 0.002 J 1.4 13.4 0.01 0.0002 U 27.2 0.03 J10 0.02 U GWDP3X49F XD 4/26/2011 0.001 U 0.002 J 1.5 0.012 13.3 0.0002 U 27.4 9.7 0.02 J0.02 U GW105X4EF 7/18/2011 XX 0.001 U 0.002 U 13 0.006 14.9 0.0008 28.3 0.02 U 10.9 0.02 J GWDP1X4GH XD 10/25/2011 0.001 U 0.002 U 1.5 0.002 U 13 0.0002 U 26.3 0.03 J 9.8 0 03 J 10/25/2011 XX GW105X4IA 0.001 U 0.002 U 0.002 U 11 1.3 0.0002 U 22.7 0.02 U 8.4 0.05 GWDP3X51 4/23/2012 XD 0.003 U 0.005 U 1.5 0.005 U 12 0.0006 U 21.9 0.05 U 9 0.05 U GW105X530 4/23/2012 XX 0.003 U 0.005 U 1.5 0.005 U 12.1 0.0006 U 0.05 U 23.7 9.1 0.05 U 7/24/2012 XX GW105X57J 0.003 U 0.005 U 1.4 0.005 U 12.4 0.0006 U 27 0.05 U 11.3 0.08 GWDP1X5CH 10/22/2012 ΧĐ 0.003 U 0.005 U 1.3 0.006 8.4 0.0006 U 22.4 0.05 U 8.7 0.53 10/22/2012 XX GW105X5EA 0.003 U0.005 U 1.3 0.007 8.7 0.0006 U 27 0.05 11 9.2 0.59 XD GWDP3X5HJ 4/24/2013 0.003 U 0.005 U 1.3 0.01 8.6 0.0006 U 25.8 0.05 U 0.05 U 9.1 4/24/2013 XX GW105X5J1 0.003 U 0.005 U 1.3 0.012 8.4 0.0006 U 25.9 0.05 U 9.1 0.05 U MW04-109 1/19/2005 XD GWDP1X110 0.002 J 0.002 U 2.2 0.001 U 72 0.0002 U 52 0.02 J 0.21 17 GW109X10! 1/19/2005 XX 0.002 J 0.002 U 2.3 0.001 U 70 0.0002 U 54 0.02 J17.5 0.22 GW109X14A 3/23/2005 XX 0.001 U 0.002 U 2.1 0.003 J 55 0.0004 J 50 0.02 J 16.5 0.08 7/26/2005 XX GVV109X184 0.001 J 0.002 U 24 0.002 J 45 0.0002 U 42 0.04 J 15.5 0.11 7/26/2005 XD GWDP5X186 0.001 U 0.002 U 2.4 0.002 J 44 0 0002 U 41 0 04 J 15 0.1 GW109X1AF 9/20/2005 XX 0.001 U 0.002 U 2.1 0.003 J 40 0 0002 U 46 0.03 J16.5 0.07 9/20/2005 XD GWDP5X1AH 0.001 U 0.002 J 1.9 0.002 J 43 0 0002 U 45 0 03 J 18 0.07 5/23/2006 XX GW109X1FA 0.007 0.002 U 2 0.003 J 22 0 0002 U 47 0.06 16.5 0.06 5/23/2006 XD GWDP3X1E1 0.007 0.002 J 2.1 0.002 J23 0.0002 U 48 0.07 16 0.05 7/25/2006 XX GW109X112 0 002 J 0.002 J 2 0.006 19.2 0.0002 U 40 14 0.02.1 0.05 GWDP1X1J0 9/12/2006 ΧĐ 0.001 U 0.004 J 4.9 0.001 U 21 0.0003 J42 0.05 J 13.5 0.06 XX GW109X20F 9/12/2006 0.001 U 0.004 J 5.4 0.001 U 19.5 0.0002 U 42 0.06 14 0.065/15/2007 XX GW109X242 0.001 J 2.1 0.004 J 0.003 J 13.5 0.0002 J 40 0.06 14 0.07 XX GW109X286 0.002 J 7/24/2007 $0.002 \, J$ 2 12.6 0.001 J 0.0002 J 32 0.03 J 16.5 0.04 J9/10/2007 XD GWOP5X2AH 0.001 U 0.002 U 0.0002 J 1.7 0.001 U 12.1 39 0.05 J 10.5 0.05 GW109X2AG 9/10/2007 XX 0.001 U 0.002 U 1.7 0.001 U 12 0.0004 J38 0.06 10.5 0.04 J 5/19/2008 XX GW109X2EA 0.003 U 0.003 U 2.7 0.003J15.4 0.001 U 81.2 0.06 25.4 0 11

REPORT PREPARED: 2/11/2014 12:52 Page 8 of 26 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (MW04-109) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium Iron Magnesium Manganese mg/L mg/L mg/Lmg/L mg/L mg/L mg/Lmg/L mg/L mg/L Type Sample ID Date 7/29/2008 XX GW109X2HE 0.001 U 0.002 J 0.002 U 3.1 21.6 0.0002 U 70.5 0.03 J21.4 0.13 XX GW109X304 10/28/2008 0.01 U U \$00.0 3 0.002 U 22,9 0.0002 J 62.7 0.03 J19.3 0.21 4/15/2009 XX GW109X33B 0.001 U 0.002 J 2.5 0.003 J 0.0002 U 19.7 76.3 0.06 19.3 0.2 7/7/2009 XX GW109X37F ĐΕ DE DE DE DĘ DE DE DE DE DE MW04-109R 12/8/2009 XX GW109X3GF 0.001 J 0.002 U 2.5 0.033 9 0.0006 77.2 0.03 J14.3 0.15 4/27/2010 XX GW109X409 0.001 U 0.002 U 1.9 0.008 9.1 0.0002 U 54.9 0.02 U 12.4 0.03 JGW109X43D 7/20/2010 XX 0.001 U 0.002 U 2.1 0.023 9.5 0.0002 U 64.2 0.02 U 12.7 0.04 J 10/19/2010 GW109X48H XX 0.001 U 0.002 U 2.2 0.014 10.3 0.0002 Ų 69.1 0.02 U 13.6 0.04 J4/26/2011 XX GW109X4AI 0.001 U 0.002 U 2.2 0.014 9.1 0.0002 U 62.7 0.02 U 11.8 0.02 J 7/19/2011 XX GW109X4EG 0.001 U 0.002 U 2.1 0.01 8.3 0.0002 U 55.7 0.02 U 10.7 0.03 J XX GW109X4IB 10/25/2011 0.001 U 0.002 U 22 0.002 U 9.6 0.0006 57.7 0.02 U 11 0.03 J XX GW109X531 4/24/2012 0.003 U 0.005 U 2.2 0.008 10.6 0.0006 U 50.3 0.05 U 10.1 0.05 U7/24/2012 XX GW108X580 0.003 U 0.005 U 2.2 0.009 10 0.0006 U 52.8 0.05 U 10.9 0.05 UXX GW109X5EB 10/23/2012 0.003 U 0.005 U 2 0.017 9.8 0.0006 U 54 0.05 U 11 0.06 XX GW109X5J2 4/23/2013 0.003 U 0.005 U 2 0.017 9 54.1 0.0006 U 0.05 U 9.7 0.05 U 7/30/2013 XX GW109X657 0.005 U 1.8 0.016 8.2 0.0006 U 62.5 0.05 U 10.8 0.1 10/29/2013 XX GW109X67G 0.005 U 1.9 0.015 8.4 0 0006 U 58.5 0.05 U 10.9 0.15 MW09-901 12/8/2009 XX GW901X3GH 0.001 J 0.002 J 2.6 0.013 11.9 0.0003 J 29.6 0.18 7.1 0.39 4/27/2010 XX GW901X3J7 0.001 U 0.002 U 2.5 0.005 8.2 0.0002 U 27.4 0.03 J 6.9 0.1 7/20/2010 XX GW901X42B 0 001 U 0.002 U 23 0.01 7.7 0.0002 U 28.5 0.05 7.1 0.04 J10/19/2010 XX GW901X45F 0.001 U 0.002 ₩ 2.5 0.008 17.4 0.0002 U 29.4 0.02 U 8 0.09 4/26/2011 XX GW901X49G 0.001 U 0.002 U 2.1 0.007 6 0.0002 U 23.3 0.02 U 6.1 0.02 U 7/19/2011 XX GW901X4DE 0.001 U 0.002 U 1.8 0.002 J 5.9 0.0002 U 213 0.02 U 5.9 0.02 U 10/25/2011 XX GW901X4H9 0.00f U 0.003 J 0.002 U 6.2 0.0002 U 21 0.02 U 6.1 0.02 U 4/24/2012 XX GW901X51J 0.003 U 0.005 U 1,6 0.005 5.2 0.0006 U 18.8 0.05 U 5.4 0.05 U 7/24/2012 XX GW901X56I 0.003 0.005 U 1.8 0.005 5.5 0.000621 2 0.05 U 6 0.05 U XX GW901X5D9 10/23/2012 0.003 U 0.005 U 1.8 0.008 6.4 U 9000 0 19.9 0.05 U 6 0.05 U 4/23/2013 XX GW901X500 0.003 0.005 U 1.7 0.009 5.1 0 0006 U 19.1 5.4 0.05 U 0.05 U 7/30/2013 XX GW901X645 0.005 U 1.5 0.01 4.9 0 0006 U 21.8 0.05 U 5.9 0.05 U 10/29/2013 XX GW901X68I 0.005 U 1.7 0.0095.9 0.0006 U 22.5 0.05 U 6.1 0.05 U MW11-207R 7/2D/2011 XX GW207X4CH 0.001 U 0.002 U 0.5 0.008 3.6 0.0005 J 8.2 0.02 U 2.6 0.02 U 10/24/2011 XX GW207X4GC 0.001 U 0.002 U 0.5 0.004 J 3.6 0.0002 U 8.5 0.02 U 2.9 0.02 U 4/23/2012 XX GW207X512 0.003 LI 0.005 U 0.5 0.005 U 3.7 0.0006 U 7.9 0.05 U 2.9 0.05 U 7/23/2012 XX GW207X581 0.003 U 0.005 U 0.4 0.005 U 3.3 0.0006 U 8.3 0 05 U 2.7 0.05 U 10/22/2012 XX GW207X5CC 0.003 U 0 005 U 0.5 0.005 U 3.9 0.0006 U 9.3 0.05 U 3.3 0.05 U XX GW207X5H3 4/22/2013 0.003 U 0.005 U 05 0.005 U 3.8 0.0006 U 8.1 0.05 LJ 2.8 0.05 U XX GW207X638 7/29/2013 0.005 U 04 0.005 U 3.1 0.0006 U 9 0.05 U 2.9 0.05 U 10/28/2013 XX GW207X661 0.005 U 0.5 0.007 3.7 0.0006 U 8.7 0.05 U 3 0.05 U MW-204 1/29/2004 XX GW204X03A 1.6 0.001 U 8.1 32 0.02 J 9.4 0.02 J 5/4/2004 XX GVV204X008 0.009 0.002 J 1.1 0.004 6.2 0.0002 J 27 0.05 J 8.5 0.02 J GW204X03G 7/27/2004 XX 0.001 J 0.002 U 1.7 0.006 6 0.0002 U 24 0.06 86 0.02 U 10/25/2004 GW204X07D XX 1.3 0.0046.1 93 25 0.02 J 0.02 U 5/9/2005 XX GW204X13E 0.01 U 0.003 J 1.1 0.005 6.8 0.0002 U 20 0.04 J 73 0.02 J

REPORT PREPARED: 2/11/2014 12:52 Page 9 of 26 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** (MW-204) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium lron Magnesium Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID Date 8/1/2005 XX GW204X172 0.002 J0.002 U 1.2 0.001 J 7.3 0.0002 U 26 0.04 J 8.7 0.02 J XX GW204X1A0 9/20/2005 0.004 0.002 U 1.3 0.001 U 8.2 0.0002 \$ 35 0.05 J10.5 0.02 U 5/23/2006 XX GW204X1EF 0.004 0.002 U 1.2 0.001 U 7 0.0002 U 22 0.05 J 7.2 0.02 U XX GW204X1HC 7/24/2006 0.001 U 0.002 ป 1.2 0.001 U 7.4 0.0002 U 22 0.03 J7 0.02 J 9/11/2006 XX GW204X205 0.001.U 0.002 U 1.1 0.001 J 8.6 0.0002 J 22 7.6 0.03 J0.02 JXX GW204X23C 5/14/2007 0.01 0.002 U 3.3 0.002 J 8.9 0.0005 J 21 0.03 J 7.1 0.02 J7/23/2007 XX GW204X27G 0.001 U 0.003 J 1.3 0.001 U 8.7 0.0002 U 23 0.05 J 8 0.02 U 9/10/2007 XX GW204X2AB 0.002 J 0.004 J 1.2 0.001 U 10.6 0.0002 IJ 30 0.02 J 9.2 0.02 JXX GW204X2E0 5/21/2008 0.003 U 0.003 U 1.1 0.003 J **B.4** 0.001 U 25.B 0.03 J 7.8 0.02 U GW204X2H4 7/30/2008 XX 0.001 U 0.002 U 0.002 U 7.8 0.0002 U 23.1 0.08 0.02 U 6.8 XX GW204X2JE 10/28/2008 0.01 U 0.002 U 1.1 0.002 U B.7 0.0002 U 25.1 0.04 J 7.6 0.02 U XX GW204X332 4/13/2009 0.001 U 0.002 U 1.1 0.002 U 7.6 0.0002 U 23.2 0.03 J 7.3 0.02 U XX GW204X376 0.001 U 7/6/2009 0.002 J 0.9 0.005 7.2 0.0002 U 21.4 0.04 J6.1 0.02 U GW204X3F1 10/26/2009 XX 0.001 U 0.002 U 1.1 0.009 8.1 0.0003 J 24.8 0.02 U 7.1 0.02 U 4/28/2010 XX GW204X400 0.001 U 0.002 U 0.9 0.003 J6.3 0.0002 U 20.2 0.02 J5.9 0.02 U 7/19/2010 XX GW204X434 0.001 U 0.002 U 0.9 0 006 7 0,0002 U 21.1 0.02 U 6.1 0.02 U QVV204X468 10/19/2010 XX 0.001 U 0.002 U 0.004 J 7.5 0.0002 U 20.6 0.02 U 6 0.02 U GW204X4A9 4/26/2011 XX 0.001 U 0.002 J 0.009 6.7 0.0002 U 19.5 0.02 U 6.3 0.02 U 7/19/2011 XX GW204X4E7 0.001 U 0.002 U 0.9 0.01 7 0.0006 20 0.02 U 5.9 0.02 JGW204X4I2 10/26/2011 XX 0.001 U 0.002 U 1 0 002 U 6.7 0.0002 U 19.8 0.02 U 5.6 0.02 U 4/24/2012 XX GW204X52C 0.003 U 0.005 U 0.9 0.005 6.2 0.0006 U 16.7 0.05 U5.5 0.05 U XX GW204X57B 7/23/2012 0.003 U 0.005 U 0.9 0.005 U 7 0.0006 U 18.4 0.25 5.7 0.05 U XX GW204X5E2 10/24/2012 0.003 U 0.005 U 1 0.005 7.8 U 8000.0 17.9 0.05 6.4 0.05 U XX GW204X5ID 4/24/2013 0.003 U 0.005 U 0.9 0.008 6.8 U 8000.0 19.6 0.05 U 6 0.05 Ų MW-207 5/5/2004 XX GW207X011 0.9 0.002 J 8.3 0.29 4.9 1.16 GW207X048 7/28/2004 XX 1.2 0.007 31 12 1.55 5.3 1.37 GW207X063 10/25/2004 XX 0.009 2.9 16 1.58 1.53 6.1 5/12/2005 XX GW207X124 0.01 U 0.002 J 3.1 0.001 J 4.5 0.0002 J 13 2.2 5.4 1.44 GW207X15C 8/1/2005 XX 0.001 J 0.003 J 0.9 0.004 3.9 0.0002 U 15 2.2 5.6 1.34 9/19/2005 XD GWDP1X18F 0.002 J 0.002 U 0.5 0.009 4 0.0002 U 17 1.98 5.4 1,36 9/19/2005 XX GW207X18A 0.001 J 0.002 U 0.5 0.009 3.8 0.0003 J 17 2 5.4 1.38 5/22/2006 XX GW207X1D5 0.001 U 0.003 J 0.01 3.8 0.0004 J 14 2.6 1.28 5.3 GW207X1G2 7/25/2006 XX 0.002 J 0.005 0.011 0.0002 J 3.5 16 2.3 6 1.38 9/11/2006 XX GW207X1IF 0.001 U 0.003 J 0.9 0.01 4.3 0.0004 J 19 2.1 6.7 1.34 5/14/2007 XX GW207X222 0.006 0.002 U 1.2 0.002 J 4.7 0.0005 J 20 0.34 6.9 0.46 7/25/2007 XX GW207X266 D.002 J 0.002 U 1.3 0.001 J 4 0.0005 J 22 1.82 3 7.9 9/10/2007 XX GW207X28G D.001 J 0.004 J 3.9 U £00.0 4.7 0.0006 31 4.7 9.1 2 GW207X2CA 5/19/2008 XX 0 003 U 0.003 U 1.2 0.003 U 3.2 0.001 U 31.6 1.05 8.9 0,47 GW207X2FE 7/29/2008 XX 0 001 U 0.002 J1.3 0.002 U 3.2 0.0002 U 29.6 1.73 7.9 1.9 XX GW207X214 10/28/2008 0.01 U 0.002 J1.3 0.003 J 0.0002 U 29 35.2 5,51 9.4 2.24 4/13/2009 XX GW207X31C 0.001 U 0.002 J61 0.007 3.7 0.0002 U 34 7.48 9.6 3.47 7/6/2009 XX GW207X35G 0.001 U 0.002 J5.8 0.021 4.4 0.0003 J 39.3 11.6 9.5 3.42 GW207X3DB 10/26/2009 XX 0.001 J 0.013 4.5 0.046 5.8 0.0002 J 43.7 17.6 14.1 4.02 XX GW207X3IA 4/26/2010 0.001 U 0.003 J 2.4 0.012 5.5 0.0002 U 46.5 12.2 19 5 4.33 7/19/2010 XX GW207X41E 0.001 J 0 002 U 0.9 0.011 4.9 0.0002 J 14,9 2.26 5.2 1.26 10/18/2010 XX GW207X44I 0.001 U 0.002 U 3.7 0.041 6.4 0.0002 U 55.4 23.2 19.1 5.48 4/25/2011 XX GW207X48J 0 001 U 0.005 3 0.043 5.6 0.0002 U 47.6 20.3 19.8 5.79

| REPORT | PREF | ARED: 2/11/2014 | | | | | | | ARY REPO | | | | | Page 10 of 26 SEVEE & MAHE | R ENGINEERS, INC. |
|------------------------|-------|------------------------|---------|--|------------|---------|----------|--------------------|---------------|--------------|-------------|------------------|--|--|---------------------------------------|
| | | | | | | | | Meta | al (part 1 of | 1) | | | | 4 BLANCHARD | |
| (MW-206 |) | | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | | - | , _ , , , , , , , |
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | |
| Date | Туре | Sample ID | | | | | | | | | | | | | |
| MW-20 | 6 | | ··· | | | | | | | | | | ·· | | |
| 5/6/2004 | | GW206X010 | · | T · ··— | 1 | 0.004 | 5.7 | | 16 | 0.08 | 4.6 | 7.7. | T, | | |
| 7/28/2004 | XX | GW/206X047 | 1 | | 1.8 | 0.006 | 5.6 | | 13 | 0.02 J | 4.7 | 0.02 J 0.02 U | | + | |
| 10/26/2004 | XX | GW206X062 | | | 1 | 0.006 | 5.1 | | 15 | 0.3 | 4.5 | 0.02 J | | + + | |
| 5/11/2005 | XX | GW206X123 | 0.01 U | 0.003 J | 0.8 | 0.005 | 7 | 0.0005 J | 14 | 0.13 | 4.3 | 0.02 U | - | + | |
| 7/28/2005 | XX | GW206X15B | 0.001 U | 0.002 U | 0.8 | 0.005 | 6.4 | 0.0002 U | 15 | 0.12 | 4.6 | 0.03.1 | † | | |
| 9/19/2005 | XX | GW208X189 | 0.002 J | 0.002 U | 0.6 | 0.007 | 4.5 | 0.0002 U | 15 | 0.03 J | 4.8 | 0.02 J | | · | |
| 5/24/2006 | XX | GW206X1D4 | 0.001 J | 0.002 U | 8.0 | 0.007 | 5.9 | 0.0008 | 13 | 0.03 J | 4.4 | 0.02 U | | | |
| 7/25/2006 | XX | GW206X1G1 | 0.001 J | 0.002 U | 0.9 | 0.008 | 5.6 | 0.0002 U | 14 | 0.04 J | 4.6 | 0.02 U | | | · · · · · · · · · · · · · · · · · · · |
| 9/12/2006 | _ XX_ | GW206X1E | 0.001 U | 0.002 U | 8.0 | 0.001 J | 8 | 0.0002 U | 14 | 0.03 J | 4.5 | 0.02 U | | | |
| 5/14/2007 | | GW206X221 | 0.011 | 0.002 U | 0.3 | 0.006 | 7.2 | 0.0006 | 16 | 0.06 | 4.6 | 0.02 J | · · | | |
| 7/25/2007 | XX | GW206X265 | 0.001 U | 0 002 U | 0.8 | 0.004 | 5.8 | 0.0006 | 14 | 0.06 | 4.6 | 0 02 U | | | |
| 9/11/2007 | | GW206X28F | 0.001 U | 0 002 U | 1 | 0.001 J | 5.2 | 0.0009 | 16 | 0.02 J | 4.4 | 0.02 U | | Ť · | |
| 5/20/2008 | | GW206X2C9 | 0.003 U | 0.003 U | 0.7 | 0.006 J | 4.9 | 0.001 U | 16 | 0.02 U | 4.6 | 0.02 U | | | |
| 7/29/2008 | | GW208X2FD GW208X2I3 | 0.001 J | 0.002 U | 0.8 | 0.003 J | 4.9 | 0.0002 U | 15.3 | 0.08 | 4.5 | 0.02 U | | T - | |
| 10/27/2008 | XX | GW206X318 | 0.01 U | 0.002 U | 0.6 | 0.003 J | 4.4 | 0.0002 U | 14.5 | 0.05 | 4.2 | 0.02 U | | | |
| 4/13/2009 | | GW206X35F | 0.001 U | 0.002 U | 0.8 | 0.004 J | 5.1 | 0.0003 J | 16.8 | 0.02 U | 5.1 | 0.02 ∪ | | | |
| 7/6/2009 10/28/2009 | | GW206X3DA | 0.001 U | 0.002 U | 0.7 | 0.007 | 5.1 | 0.0002 U | 16.1 | 0.02 J | 4.7 | 0.02 ∪ | | | i |
| 4/26/2010 | | GW208X3I9 | 0.001 U | 0.002 U | 0.7 | 0.009 | 4.8 | 0.0002 U | 17 | 0.02 U | 4.7 | 0.02 U | | | |
| 7/19/2010 | | GW208X41D | 0.001 U | 0.002 U | 0.8 | 0.005 | 4.8 | 0.0002 U | 14 5 | 0.02 U | 4 | 0.02 U | | | |
| 10/18/2010 | | GW208X44H | 0.001 J | 0.002 U | 2.5 1.5 | 0.01 | 4.9 | 0.0005 J | 14 8 | 0.02 U | 4.3 | 0.02 U | | | |
| 4/25/2011 | | GW206X48I | 0.001 U | 0.002 U | 0.9 | 0.015 | 6.5 5 | 0.0002 U | | 1.2 | 6.9 | 0.32 | <u> </u> | | |
| 7/18/2011 | | GW206X4CG | 0.004 | 0.003 J | 0.9 | 0.005 | 5.2 | 0.0002 U 0.0011 | | 0.32 | 5.1 | 0.02 J | <u> </u> | | |
| 10/24/2011 | | GW206X4GB | 0.001 U | 0.002 U | 0.8 | 0.005 | 5 | 0.0002 U | | 0.91 | 4.9 | 0 04 J | | | |
| 4/23/2012 | | GW206X511 | 0.003 U | 0.005 U | 0.9 | 0.006 | 5.5 | 0.0002 U | 15.9 15.2 | 0.18 0.29 | 5 | 0 02 U | | | |
| 7/23/2012 | | | 0.003 U | 0.005 U | 0.8 | 0.006 | 4.6 | 0.0006 U | 14.8 | 0.29 | 5.2 4.6 | 0 05 U | | | · · · · · · · · · · · · · · · · · · · |
| 7/23/2012 | | GWDP4X573 | 0.003 U | 0.005 U | 8.0 | 0.005 | 4.7 | 0.0006 U | 14.7 | 0.13 | 4.6 | 0.05 U | | | |
| 10/22/2012 | ХX | GW206X5CB | 0.003 U | 0.005 U | 0.8 | 0.01 | 5.3 | U 2000.0 | 17.6 | 0.33 | 5.3 | 0.05 U | +— | + — — | |
| 4/22/2013 | XX | GW206X5H2 | Q.003 U | 0.005 U | 0,8 | 0.008 | 5.1 | 0.0006 U | 14.5 | 0.05 U | 4.8 | 0.05 U | · | ł — | |
| 7/29/2013 | ХX | GW208X637 | | 0.005 U | 0.6 | 0.008 | 4.1 | 0.0006 U | 15.7 | 0.05 U | 4.7 | 0.05 U | | | |
| 7/29/2013 | ΧĐ | GWDP4X64A | · - | 0.005 U | 0.6 | 0.008 | 43 | 0.0006 U | 15.4 | 0.05 U | 4.7 | 0.05 U | | | |
| 10/28/2013 | XX | GW206X660 | | 0.005 U | 0.9 | 0.013 | 5.2 | 0.0006 U | 16 | 0.05 U | 4.9 | 0.05 U | | | - |
| MW-212 | 2 | | | | • | | | | | | | | <u> </u> | | |
| 5/5/2004 | хх | GW212XDDB | 0.001 J | 0.002 J | 0.5 | 0.008 | 3.6 | 0 0002 J | 3.8 | 0.11 | 1.09 | 0.02 J | · · · · · · · · · · · · · · · · · · · | -i · | |
| 7/27/2004 | ХX | GW212X03J | D | D | D | D | D | D | D | D D | | D D | | ļ | |
| 10/27/2004 | хх | GW212X07F | | | D | D | D | | · <u>-</u> | D | | 0 | · · · | - | |
| 5/12/2005 | хх | GW212X13G | 0.01 U | 0.002 U | 1.4 | 0.001 J | 22 | 0.0002 J | 3 | 0.34 | 0.91 | 0.03 J | | | |
| 8/1/2005 | XX | GW212X174 | 0.002 J | 0.002 U | 0.4 | 0.001 U | 3.4 | 0.0002 U | 2.1 | 0.15 | 1 | 0.02 U | | + | |
| 9/20/2005 | | GW212X1A2 | | | 1 | 1 | ï | 1 | | 1 | †- ·- | 1 | | + | · |
| | | GW212X1EH | 0.001 U | 0.002 U | 0.6 | 0.002 J | 4.9 | 0.0002 U | 21 | 0.16 | 0.85 | 0.02 U | †··· | + | ·· |
| | | GW212X1HE | 0.001 J | 0.002 U | 0.7 | 0.002 J | 3.4 | 0 0002 U | 2.5 | 0.13 | 0.97 | 0.02 J | T " | | |
| | _ | GW212X207 | 1 | ı | 1 | 1 | I | | · · · - | 1 | | | | · | |
| | | GW212X23E | 0.006 | 0.002 U | 0.2 J | 0.001 J | 5.5 | 0.0002 J | 3.5 | 0.16 | 1.25 | 0.02 U | | | |
| | | GW212X27I | Đ | D | D | D | D | D | D | D | D | D | ; | | |
| | | GW212X2A8 | D | D | D | D | D | D | D | D | D | D | <u>-</u> | | |
| | | GW212X2E2 | 0.003 U | 0.003 U | 0.5 | 0.003 U | 5.5 | 0 001 U | 7 | 0.06 | 2 | 0.02 U | l | 1 | |
| 7/29/2008 | XX | GW212X2H6 | D | D | D | D | D | D | D | D | D | D | T | | |

| REPORT PREF | ARED: 2/11/201 FOR: Juniper F | | | | | | | MARY REP | | | | Page 11 of 26 SEVEE & MAHER ENGINE | ERS. INC |
|------------------------------|----------------------------------|--------------------|----------------|-----------|--------------------|---------------------|----------------------|---------------|--------------|-------------|-----------------|---|----------|
| | , | | | · | | | Met | al (part 1 of | 1) | | i | 4 BLANCHARD ROAD CUMBERLAND CENTER, I | |
| (MW-212) | | Соррег | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | [ron | Magnesium | Manganese | | |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | • | |
| Date Type | Sample ID | | | | | | | | | | | | |
| 10/28/2008 XX | GW212X2JG | Т р | D | D | σ | . D | D | D | | | | | |
| 4/13/2009 XX | GW212X334 | 0.001 U | 0.002 U | 0.9 | 0.002 U | 24.9 | 0.0002 J | 10.9 | 0.03 J | D | D | <u> </u> | |
| 7/6/2009 XX | GW212X378 | 0.002 J | 0.002 J | 0.9 | 0.006 | 8.9 | 0.0002 J | 11.4 | 1.77 | 3 | -0.02 U 0.16 | | |
| 0/26/2009 XX | GW212X3F3 | D | D | D | D | D | D | D | D | D | D D | | |
| 4/26/2010 XX | GW212X402 | 0.001 U | 0.002 U | 1 | 0.003 J | 17.4 | 0.0002 U | 18.8 | 0.06 | 4.6 | 0.02 U | | |
| 7/19/2010 XX | GW212X436 | D | D | D | D " | a | D | D | D | D | D D | | |
| 10/18/2010 XX | GW212X48A | D | D | D | D | D | D | D | D | D - | | | |
| 4/25/2011 XX | GW212X4AB | 0.001 U | 0.002 U | 0.8 | 0.009 | 33.3 | 0.0002 J | 8.6 | 0.07 | 2.1 | 0.02 Ų | | |
| 7/18/2011 XX | GW212X4E9 | . D | D | D | D | D | D | Ð | D | D | D | | |
| 10/24/2011 XX | GW212X4I4 | D | D | Ď | . 0 | D | D | D | D | | D | ` ` | |
| 4/23/2012 XX | GW212X52E | D | D | D | . D | D | D | D | D | D | D | <u> </u> | |
| 7/23/2012 XX | GW212X57D | <u>D</u> | _ D | D | D | D | <u>D</u> | D | D | Ð | D | | |
| 10/22/2012 XX | GW212X5E4 | D | D | D | <u>D</u> . | D | <u> </u> | D | D | D | D | | |
| 4/22/2013 XX | GW212X5IF | D | D | D | <u> </u> | D | <u> </u> | D | D | D | D | | |
| IW-216B | | | | | | | | | | | | | |
| 5/6/2004 XX | GW216B013 | | | 08 | 0.002 J | 4.8 | | 14 | 0.06 | 5,1 | 0.03 J | " · | |
| 5/6/2004 XD | GWDP1X017 | | | 0.8 | 0.002 J | 4.9 | | 14 | 0 05 J | 5 | 0.03 J | - ·· · | |
| 7/26/2004 XX | GW216B049 |] | | 1 | 0.006 | 4.6 | | 8.1 | 0.03 J | 48 | 0.06 | | |
| 10/26/2004 XD | GWDP1X068 | | | 1.8 | 0.004 | 4 | | 4.4 | 0.02 J | 3.1 | 0.1 | †··· | |
| 10/26/2004 XX | GW216B064 | | | 2 | 0.005 | 4 | | 4.5 | 0.03 J | 3.2 | 0.1 | | |
| 5/10/2005 XX | GW216B125 | 0.01 J | 0.004 J | 0.4 | 0.001 J | 4.5 | 0.0002 U | 4.9 | 0.08 | 3.2 | 0.05 | | |
| 7/27/2005 XX | GW2168 150 | 0.001 U | 0.002 J | 0.9 | 0.002 J | 5.8 | 0.0002 U | 15 | 0.02 J | 7 | 0.09 | · · · · · · · · · · · · · · · · · · · | |
| 7/27/2005 XD | GWDP3X168 | 0.001 U | 0.002 J | 0.7 | 0.001 U | 59 | 0.0002 U | .14 | 0.02 J | 7.1 | Q.1 | | |
| 9/22/2005 XX | GW2168188 | 0.002 J | 0.003 J | 0.4 | 0.001 U | 4.9 | 0.0002 U | 6.2 | 0.04 J | 3.2 | 0.12 | | |
| 5/23/2006 XX 7/25/2006 XD | GW216B1D6 GWDP1X1G7 | 0.001 J | 0.1 | 2.6 | 0.011 | .11 | 0.0002 U | 14 | 20 | 6.2 | 2.6 | | |
| | GW216B1G3 | 0.002 J | 0.073 | 1.3 | 0.011 | 57 | 0.0006 | 6.4 | 13.5 | 4.4 | 1 41 | | |
| | GW216B1iG | 0.002 J 0.001 U | 0.067 | 1.4 | 0.011 | 5.7 | 0.0008 | 6.3 | 13 | 4.5 | 1.42 | | |
| | GW216B223 | 0.001 J | 0.046 0.018 | 0.5 | 0.005 | 4.5 | 0.0002 U | - 4.3 | 11 | 3.8 | 1.09 | | |
| 7/24/2007 XX | GW216B287 | 0.004 | 0.016 | 0.8 | 0.004 | 5.4 | 0.0006 | 7.7 | 6.2 | 5.7 | 0.8 | | |
| | GWDP1X28B | 0.004 | 0.012 | 0.8 | 0.001 J | 4.8 | 0.0003 J | 10 | 3,8 | 5.2 | 0.49 | | |
| | GW216B28H | 0.001 J | 0.002 U | 1.1 | 0.001 J | 5.1 7.9 | 0.0003 J 0.0002 J | 11 | 3.8 | 53 | 0.5 | ł — — i — — — — — — — — — — — — — — — — | |
| · | GW216B2CB | 0.003 U | 0.094 | 1.5 | 0.007 J | 7.4 | 0.0002 J | 20.9 | 1.53 | 4.9 | 0.45 | <u> </u> | |
| | GW216B2FF | 0.001 U | 0.032 | 1.2 | 0 002 U | | 0.0001 J | 34,6 | | B.8 | 0.89 | | |
| | GWDP1X2FJ | 0.001 U | 0.032 | 1.2 | 0.002 U | 10.8 | 0.0002 U | 34.4 | 2.95 3.21 | 13.8 | - 105 | | |
| | GW216B2I5 | 0.01 U | 0.013 | 0.7 | 0.002 J | 6.6 | 0.0002 U | 13.9 | 3.29 | 7.4 | 0.61 | | |
| 4/14/2009 XX | GW216B31D | 0 0D1 U | 0.045 | 0.5 | 0.002 J | 4.9 | 0.0002 U | 11.3 | 1.88 | 6 | 0.54 | | |
| 7/7/2009 XX | GW216B35H | DE T | DE . | DE | DE I | DE | DE | DE | DE | DE | DE | | |
| 1W-216BR | | | | | <u></u> . <u>1</u> | | L <u>2- 1</u> | | | <u> </u> | DC _ | L | |
| | GW216B3GG | 0.001 U | 0.002 J | 2.4 | 0.015 | 18.8 | 0.0002 U | 20.7 | 0.42 | | | J - | |
| | GW216B3IB | 0.001 U | 0.002 U | 1.7 | 0.007 | 15.9 | 0.0002 U | 27 | 0.13 | 11 | 0.68 | | |
| | GW216B41F | 0.001 U | 0.002 U | 1.5 | 0.007 | 14.9 | 0.0002 U | 27 | 0.25 | 9.8 | 0 17 | | |
| | GW216B44J | 0.001 U | 0.002 U | 1.6 | 0.008 | <u>17.8</u> 15.8 | 0.0002 U | 25.2 | 0.19 | 9.2 | 0.14 | | |
| | GW216B490 | 0.001 U | 0 002 U | 2 | 0.021 | 12.8 | 0.0002 U | 35.8 | 0.19 | 14.4 | 0.12 | | |
| | GW21684CI | 0.001 U | 0 002 U | 1.8 | 0.016 | 15.2 | 0.0002 | 37.9 | 0.25 | 13.9 | 0.09 | | |
| 0/25/2011 XX | GW216B4GD | 0.001 J | 0 002 U | 2.2 | 0.004 J | 14.3 | 0.0003 J | 41.4 | 0.21 | 17.1 | 0.09 | | |
| 4/24/2012 XX | GW216B513 | 0.003 U | 0.005 U | 1.8 | 0.012 | 11.3 | 0.0006 U | 41.3 | 0.18 | 16.5 | 0.08 | | |
| 7/24/2012 XX | GW216B562 | 0.003 | 0.005 U | 2.2 | 0.012 | 12.2 | 0.0006 U | 43.8 | 0.15 | 18.2 | 0.07 | | |

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REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT Page 12 of 26 FOR: Juniper Ridge Landfill SEVEE & MAHER ENGINEERS, INC. Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (MW-216BR) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium Iron Magnesium Manganese mg/L mg/L mg/L mg/L m**e/**L mg/L mg/L mg/Ł mg/L mg/L Type Sample ID XX GW216B5CD 10/23/2012 0.003 U 0.005 U 1.8 0.016 10.6 0.0008 U 34.8 0.09 14.5 0.06 4/23/2013 XX GW21885H4 0.003 U 0.005 U 1.8 0.019 9.2 0.0006 U 32 0:05 U 13.1 0.07 7/30/2013 XX GW2168639 0.005 U 1.5 0.015 8.1 0.0006 U 36.1 0.08 13.7 0.06 MW-223A 5/5/2004 XX GW223A014 0.7 0.004 3.4 23 0.04 J3.7 0.02 U 7/28/2004 XX GW223A04A 1.3 0.001 U 3.6 29 0.02 J3.3 0.02 U 7/28/2004 XD GWDP1X04D 1.2 0.001 U 3.5 30 0.03 J 3.3 0.02 U 10/25/2004 XX GW223A065 0.7 0.001 U 3 27 0.06 3.3 0.02 J 5/10/2005 XD GWDP3X130 0.01 U 0.009 0.7 0.002 J 3.9 0.0002 U 29 0.06 3.2 0.02 U 5/10/2005 XX GW223A126 0.01 U 0.008 0.6 0.002 J 3.8 0.0002 U 28 0.07 3.1 0.02 U 7/26/2005 XX GW223A15E 0.002 J 0.002 U 0.7 0.001 U 4 0.0002 U 28 $0.05 \, \mathrm{J}$ 3.3 0.02 U 9/21/2005 XX GW223A18C 0.003 0.002 Ü 0.5 0.001 J 9.8 0.0002 U 29 0.02 J3.1 0.02 U GW223A107 5/24/2006 XX 0.002 J 0.004 J 1 0.011 3.6 0.0002 J28 0.05 J 3.1 0.02 U 5/24/2006 XD GWDP1X1DA 0.001 J 0.004 J 0.9 0.01 3.7 0.0003 J 29 0.05 J 3 0.02 U 7/26/2006 ΧD GWDP5X1I3 0.001 J 0.002 U 0.6 0.003 J 3.5 0.0002 U 27 0.07 3.2 0.02 U 7/26/2006 XX GW223A1G4 0.001 J 0.002 U 0.6 0.003 J 3.6 0.0002 U 28 0.07 3.3 0.02 U 9/13/2006 XD GWDP5X20G 0.001 LI 0.003 J0.5 0.001 U 39 0.0005 J 31 0.05 J 3.3 0.02 J GW223A1IH 9/13/2006 XX 0.001 U 0.002 J 0.7 0.001 J 37 0.0006 30 3.2 0.07 0.02 J GWDP1X227 XD 5/15/2007 0.002 J0.002 U 0.5 0 002 J 3.6 0.0003 J 30 0.02 J3.5 0.02 J5/15/2007 ХX GW223A224 0.004 0.002 J 0.4 0.002 J3.6 0.0003 J 29 0.03 J 3.5 0.02 J 7/24/2007 GWDP5X287 XD 0.001 J 0.002 U 0.4 0.001 J 3.4 0.0003 J 27 0.02 J 3.5 0.02 U XX GW223A268 7/24/2007 0.001 J 0.002 U 0.6 0.001 U 3.4 0 0005 J 28 0.02 J 3.7 0.02 (1 9/11/2007 XX GW223A28I 0.001 U 0.003 J 0.6 0.001 U 2.7 0.0005 J 32 0.03 J 3.2 0.02 J XD GWDP1X2CF 5/20/2008 0.003 U 0.003 U 0.4 0.003 U 2.7 0.001 U 34.7 0.02 U 3.8 0.02 U 5/20/2008 XX GW223A2CC 0.003 U 0.003 U 0.4 0.003 U 2.7 0.001 U 34.8 0.02 U 3.9 0.02 U 7/30/2008 XX GW223A2FG 0.001 U 0.002 U 0.5 0.002 U 2.9 0.0002 U 30.6 Q.02 J 3.3 0.02 U 7/30/2008 XD GWDP5X2HF 0.001 U 0.002 U 0.5 0.002 U 3 0.0002 U 31.3 0.05 3.4 0.02 U 10/28/2008 XX GW223A2I6 0.01 U 0.002 U 0.6 0.002 U 2.9 0.0002 U 33.3 0.03 J 3.7 0.02 U GW223A31€ 4/14/2009 XX 0.001 U 0.002 U 0.8 0.002 U 4.6 0.0002 U 60.9 0.02 U 8.2 0.02 U XD GWDP1X31H 4/14/2009 0.001 U 0.002 U 0.8 0.002 U 4.8 0.0002 U 64.2 0.02 U 8.5 0.02 U GW223A35I 7/7/2009 XX 0.001 J 0.002 J0.5 0.002 U 3.3 0.0002 U 43.1 0.08 4.7 0.02 U 10/27/2009 XX GW223A3DD D.001 U 0.002 U 0.6 0.004.1 3.3 0.0002 U 43,9 0.02 J0.02 U 4.8 GWDP4X3ED 10/27/2009 XĎ 0.001 U 0.002 U 0.6 3.4 0.003 J 0.0002 U 44.1 0.02 U 49 0.02 U 4/27/2010 XX GW2Z3A3IC 0.001 U 0.002 U 0.6 0.003 J 3.4 0.0002 U 48.6 0.02 U 5.2 0.02 U XD GWDP1X3/F 4/27/2010 0.001 U 0.002 U 0.6 0.004 J 3.5 0.0002 U 46.8 0.02 J 5.1 0.02 U 7/20/2010 XX GW223A41G 0.001 tf 0.002 U 0.6 0.006 3.5 0.0002 U 48.9 0.02 U 5.2 0.02 U 10/19/2010 XX GW223A450 0.001 U 0.002 U 0.7 0.006 3.4 0.0002 U 48.7 0.02 U 5.4 0 02 U GWDP1X453 10/19/2010 XD 0.001 U 0.002 U 06 0.006 3.5 0.0002 U 48.2 0.02 U 5.3 0.02 U 4/26/2011 XX GW223A491 0.001 U 0.002 U 0.7 0.011 3.7 0.0002 J 53.3 0.02 U В 0.02 U GWDP1X494 4/26/2011 XD 0.001 U 0.002 U 07 0.012 3.9 0.0002 U 53.4 0.02 U 6 0.02 U 7/19/2011 XX GW223A4CJ 0.001 U 0.002 U0.7 0.005 3.5 0.0002 U 58.4 0.02 U 6.1 0.02 U 10/25/2011 XD GWDP3X4H8 0.001 J 0.002 U 0.6 0.002 U 4.1 0.0002 U 56.8 0.02 U 6.6 0.02 U 10/25/2011 XX GW223A4GE 0.001 U 0.002 U 0.8 0.002 U 4.1 0.0002 U 55.9 0.02 U 6.4 0.02 U 4/24/2012 XX GW223A514 0.003 U 0.005 U 0.7 0.005 4 0.0006 U 54.4 0.05 U 6.5 0.05 U 4/24/2012 XD GWDP1X517 0.003 U 0.005 U 0.7 0.006 3.7 0 0006 U 57 9 0.05 U 6.5 0.05 U 7/24/2012 XX GW223A563 0.003 0.005 U 0.8 0.005 U 44 0 0006 U 607 0 05 U 7.2 0 05 U 10/23/2012 XD GWDP3X5D8 0.003 U 0.005 U 0.7 0.007 4.5 0.0006 U 57.4 0.05 U 7.1 0.05 U 10/23/2012; XX GW223A5CE 0.003 U 0.005 U 0.7 0.008 4.3 0.0006 U 61.5 0.05 U 7.2 0.05 U 4/23/2013 XX GW223A5H5 0.003 U 0.005 U 0.9 0.012 4.7 0.0006 U 68.1 0.05 U 8 0.05 U

| REPORT P | REP | ARED: 2/11/2014 | 12:52 | | | | | SLIMA | IARY REPO | DT. | | | Page 13 of 26 |
|------------|----------------------|-----------------|----------------|----------------|-------------------|-----------------|----------------|-----------------|-----------------|--------------|-------------------|-------------------|---|
| 710. 0.117 | | FOR: Juniper R | | | | | | | I (part 1 of | | | | SEVEE & MAHER ENGINEERS; INC 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| (MW-223/ | A) | — ····— · | Copper mg/L | Nickel mg/L | Potassium mg/L | Arsenic mg/L | Sodium mg/L | Cadmium mg/L | Calcium mg/L | Iron ng/L | Magnesium mg/L | Manganese mg/L | CONTROL OF THE CASE |
| Date T | уре | Sample ID | 192 | mg L | 11142 | mgu | ing D | шу 2. | ing 2 | ang/ c | ing 2 | mg D | |
| 4/23/2013 | XD | GWDP1X5H8 | 0.003 U | 0.005 U | 0.8 | 0.011 | 4.4 | 0.0006 U | 65.3 | 0.05 U | 7.8 | 0.05 U | |
| | XX | GW223A63A | | 0.005 U | 0.7 | 0.01 | 4 | 0.0006 U | 73.8 | 0.05 U | 7.7 | 0.05 U | |
| | | GWDP3X66H | | 0.005 U | 0.8 | 0.012 | 4.4 | 0.0006 U | 67.5 | 0.05 U | 8.2 | 0.05 U | |
| 10/29/2013 | | GW223A883 | | 0.005 U | 0.8 | 0.013 | 4.7 | 0.0006 U | 74.1 | 0.05 U | 9.1 | 0.05 U | |
| MW-223 | | | | | | | | | | | | | |
| | | CINTERTOR | 0.000 | 20001 | | 0.000.1 | 4.0 | 0.0000.11 | | | | 0.00.1 | |
| 5/5/2004 | | GW223B00A | 0.002 J | 0.002 J | 0.7 | 0.002 J | 4.3 | 0.0002 U | 24 | 0.03 J | 6.2 | 0.02 J | <u> </u> |
| | XX | GW223B031 | 0.002 J | 0.002 U | 1.3 | 0.002 J | 3.2 | 0.0002 U | 25 | 0.04 J | 6.5 | 0.02 U | |
| | XX | GW223B07E | | | 0.8 | 0.002 J | 3.8 | | 25 | 0.14 | 6.4 | 0.02 U | |
| | XX | GW223B13F | 0.01 U | 0.004 J | 0.6 | 0.003 J | 4.5 | 0 0002 U | 24 | 0.07 | 6.3 | 0.02 U | · · · · · · · · · · · · · · · · · · · |
| | XX | GW223B173 | 0.001 U | 0.002 U | 0.7 | 0.001 U | 5,2 | 0 0002 U | 26 | 0.07 | 6.8 | 0.02 U | |
| · | XX | GW223B1A1 | 0.001 J | 0.002 J | 0.5 | 0.001 J | 4.5 | 0.0002 U | 26 | 0.04 J | 6.5 | 0.02 U | |
| | ХХ | GW223B1EG | 0.001 J | 0.002 U | 0.6 | 0.009 | 4.6 | 0.0009 | 25 | 0.18 | 6.5 | 0.02 U | <u> </u> |
| | ХХ | GW223B1HD | 0.001 U | 0.002 U | 0.9 | 0.003 J | 4.5 | 0.0002 U | 25 | 0.06 | 6.7 | 0.02 U | NO. NO. 1 |
| | XX | GW223B205 | 0.001 J | 0.002 U | 0.7 | 0.001 J | 4.9 | 0.0002 U | 27 | 0.12 | 6.9 | 0.02 J | |
| | XX | GW223B23O | 0.002 J | 0.002 U | 0.3 | 0.002 J | 4.5 | 0.0002 J | 27 | 0.08 | 7.2 | 0.02 J | <u> </u> |
| | ХX | GW223B27H | 0.001 J | 0.002 U | 0.6 | 0.001 U | 4.1 | 0.0002 J | 26 | 0.03 J | 7.3 | 0.02 U | |
| 9/11/2007 | XX | GW223B2A7 | 0.001 U | 0.002 U | 0.8 | 0.001 U | 3.8 | 0.0002 U | 30 | 0.07 | | 0.02 J | |
| 5/20/2008 | ХX | GW223B2E1 | 0.003 U | 0.003 U | 0.5 | 0.003 U | 3.9 | 0.001 U | 35.2 | 0.04 J | 8.9 | 0.02 U | <u> </u> |
| 7/30/2008 | XX | GW223B2H5 | 0.001 U | 0.002 U | 0.7 | 0.002 U | 4.2 | 0.0002 U | 32.9 | 0.02 J | 7.8 | 0.02 ป | <u> </u> |
| 10/28/2008 | XX | GW223B2JF | 0.01 U | 0.002 U | 0.7 | 0.002 U | 4.2 | 0.0002 ↓ | 35.8 | 0.03 J | 8.7 | 0.02 U | |
| 4/14/2009 | хx | GW2238333 | 0.001 U | 0.002 Ų | 0.7 | 0.002 U | 4.6 | 0.0002 Ų | 33.5 | 0.14 | 8.5 | 0.02 U | |
| 7/7/2009 | XD | GWDP4X36I | 0.001 U | 0.002 U | 0.6 | 0.002 U | 4.5 | 0.0002 U | 40 | 0.02 J | 9.6 | 0.02 U | |
| 7/7/2009 | XX | GW223B377 | 0.001 U | 0.002 U | 0.5 | 0.002 U | 4.8 | 0.0002 U | 37.8 | 0.02 J | 9.4 | 0.02 U | |
| 10/27/2009 | XX | GW223B3F2 | 0.001 U | 0.003 J | 0.7 | 0.005 | 4.4 | 0.001 | 41.9 | 0.02 U | 9.7 | 0.02 U | |
| | XX | GW223B401 | 0.001 U | 0.002 U | 0.6 | 0.005 | 42 | 0.0002 U | 39.3 | 0.35 | 9.1 | 0.02 U | · · · · · - · · · - · · · · |
| 7/20/2010 | XX | GW223B435 | 0.001 U | 0.002 U | 8.0 | 0.011 | 4.6 | 0.0002 U | 40.8 | 0.58 | 9.8 | 0.09 | |
| | XD | GWDP1X41J | 0.001 U | 0.002 U | 0.8 | 0.011 | 46 | 0.0002 U | 41.9 | 0.57 | 10 | 0.09 | |
| | ХX | GW223B469 | 0.001 U | 0.002 U | 0.8 | 0.007 | 4.4 | 0.0002 U | 40.1 | 0.11 | 9.5 | 0.04 J | · · · · · · · · · · · · · · · · · · · |
| | XX | GW223B4AA | 0.001 U | 0.002 U | 0.7 | 0.013 | 4.3 | 0.0002 U | 40.2 | 0.02 J | 10 3 | 0.02 U | |
| | XD | GWDP3X4DD | 0.001 U | 0.002 U | 1.9 | 0.006 | 4.3 | 0.0002 U | 36.1 | 0.04 J | 9.7 | 0.05 | |
| | XX_ | GW223B4E8 | 0.001 U | 0.002 U | 1.7 | 0.005 | 4.1 | 0.0002 U | 37.8 | 0.04 J | 9.5 | 0.04 J | |
| 10/25/2011 | | GW2238413 | 0.001 U | 0.002 U | 2 - | 0.002 U | 4.8 | 0.0025 | 38.5 | 0.49 | 10.6 | 0.07 | |
| | $\frac{\hat{x}}{xx}$ | GW223B52D | 0.003 U | 0.005 U | 0.6 | 0.005 U | 4.2 | 0.0006 U | 37 | 0.49 | 9.8 | 0.05 U | |
| | | GWDP3X56H | | | + | | | ·+ · | | | | | |
| 7/24/2012 | | | 0.003 U | 0.005 U | 0.8 | 0.005 | 4.6 | 0.0006 U | 43.1 | 0.08 | 10.9 | 0.05 U | |
| | XX | GW223B57C | 0.003 | 0.005 U | 0.8 | 0.005 U | 4.6 | 0.0006 U | 40.5 | 0.1 | 11 | 0.05 U | - |
| | XX | GW223B5E3 | 0.003 U | 0.005 U | 0.7 | 0.011 | 4.6 | 0.0006 U | 39 | 0.09 | 10.7 | 0.05 U | |
| | XX_ | GW223B5IE | 0.003 U | 0.005 U | 0.7 | 0.009 | 4.7 | 0.0006 U | 41.3 | 0.06 | 11.1 | 0.05 U | |
| | XX | GW223864J | <u> </u> | 0.005 U | 0.7 | 0.008 | 4.3 | 0.0006 U | 46.2 | 0.12 | 11.3 | 0.05 U | <u> </u> |
| 10/29/2013 | | GW223B67C | <u>'</u> | 0.005 U | 0.8 | 0.008 | 4.9 | 0.0006 U | 44.3 | 0.09 | 11.5 | 0.05 U | <u> </u> |
| MW-227 | 7 | | | | | | | | | | | | |
| 5/5/2004 | хх | GW227X015 | i | | 1 | 0.012 | 9 | | 20 | 0.03 J | 5.1 | 0.02 J | |
| 7/26/2004 | | GW227X04B | | | 1 | 0.012 | 6.2 | | 21 | 0.03 J | 53 | 0.02 U | |
| 10/26/2004 | | GW227X066 | | | 1 | 0.016 | 11 | 1 | 22 | 0.04 J | 52 | 0.06 | |
| 5/9/2005 | | GW227X127 | 0.01 U | 0.004 J | 1.2 | 0.016 | 7.5 | 0 0002 U | 20 | 0.08 | 5.1 | 0.02 U | |
| 7/27/2005 | | GW227X15F | 0.001 U | 0.002 U | 1.1 | 0.012 | 7.4 | 0 0002 U | 22 | 0.02 J | 5.3 | 0.05 | |
| 9/21/2005 | | GW227X18D | 0.001 U | 0.002 U | 9.6 | 0.01 | 7.2 | 0.0002 U | 22 | 0.05 J | 5,1 | 0.06 | |
| 5/24/2006 | | GW227X1D8 | 0.001 U | 0.002 U | 1.1 | 0.018 | 6.9 | 0.0007 | 21 | 0.07 | 5,1 | 0.02 U | · |
| | | GW227X1G5 | + | } | | | | + | | + | | | |
| 7/26/2006 | XX | GWZZIAIGS | 0.001 J | 0.002 U | <u>; 0.9</u> | 0.015 | 6.8 | 0.0002 U | 20 | 0.04 J | 5.2 | 0.02 U | |

Page 14 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** (MW-227) Соррет Nickel Potassium Arsenic Sodium Cadmium Calcium Iron Magnesium Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID Date 9/13/2006 XX GW227X1(I 0.001 U 0.002 J 1.2 0.008 7.2 0,0002 U 23 0.06 5.3 0.02 JXX GW227X225 5/15/2007 0.004 0.002 U 0.7 0.009 6.8 0.0002 U 21 0.03 J 5.5 0.02 J XX GW227X269 7/24/2007 0.004 0.002 U 1.1 0.007 66 0.0003 J 21 0.02 J 5.5 0.02 U 9/11/2007 XX GW227X28J 0.001 U 0.002 U 1.1 0.007 6 0.0002 U 22 0.05 J 5 0.02 J XX GW227X2CD 5/20/2008 0.003 U 0.003 U 0.9 0.009 5.6 0.001 U 23 0.05 5,6 $0.02 \, U$ XX GW227X2FH 7/30/2008 0.001 U 0.002 U 0.009 5.5 0.0002 U 20.4 0.03 J 4.9 0.02 U XX GW227X217 10/27/2008 0.01 U 0.002 U 0.8 0.009 5.3 0.0002 U 20 0.03 J 4.9 0.02 U XX GW227X31F 4/14/2009 0.001 U 0.002 U 0.011 6.2 0.0002 U 24.3 0.02 J 5.9 0.02 U GW227X35J 7/7/2009 XX 0.001 U 0.002 U 0.9 0.009 5.5 0.0002 U 23.6 0.02 J 5.1 0.02 U XX GW227X3DE 0.001 U 10/27/2009 0.002 J1.1 0.013 5.6 0.0007 24.8 0.02 U 5.6 0.02 U XX GW227X3ID 0,001 U 0.002 U 4/27/2010 1.6 0.015 5.3 0.0002 U 21.7 0.05 5.1 0.02 U 7/20/2010 XX GW227X41H 0.001 U 0.002 U 1 0.014 5.5 0.0002 U 21.2 0.08 5.2 0.02 U 10/19/2010 XX GW227X451 0.001 U 0.002 U 1 0.014 5.2 0.0002 U 21.9 0.06 5.1 0.02 U XX GW227X482 4/26/2011 0.001 U 0.002 U 1 0.019 5.1 0.0002 U 21.4 0 02 U 5.5 0.02 U XX GW227X4DB 7/19/2011 0.001 U 0.002 U 0.9 0.012 5.3 0.0002 U 21.4 0.02 U 5.4 0.02 U XX GW227X4GF 10/25/201 0.001 U 0.002 U 1.1 0.017 3.1 0.0026 20.5 0.06 5.6 0.02 U XX GW227X515 4/24/2012 0.003 U 0.005 U 1 0.012 5 0.0006 U 19.9 0.05 U 5.4 0.05 U XX GW227X564 0.003 U 7/24/2012 0.005 U 1.1 0.011 5.3 0.0006 U 22 0.05 U 5.7 0.05 U 10/23/2012 XX GW227X5CF 0.003 U 0.005 U 0.014 5.5 1 0.0006 U 22.4 0.05 U 5.6 0.05 Ų XX GW227X5H6 0.003 U 4/23/2013 0.005 U 1.1 0.018 5.4 0.0006 U 22.1 0.05 U 5.5 0.05 U XX GW227X63B 7/30/2013 0.005 U 8.0 D.017 4.7 0.0006 U 22.8 5.5 0.05 U 0.05 U XD GWDP3X844 7/30/201 0.005 U ១ខ 0.016 4.8 0.0006 U 23 0.05 U 5.3 0.05 U 10/29/2013 XX GW227X664 0.005 U D.017 5.5 U 3000.0 21 0.05 U 5.5 0.05 U MW-301 XD GWDP3X01J 5/5/2004 0.006 10 17 0.06 J 4.2 0.02 J XX GW301X016 5/5/2004 0.8 0.005 11 17 0.05 J 43 0.03 JXX GW301X04C 7/26/2004 0.007 12 16 0.084.5 0.02 U 10/25/2004 GW301XD67 XX 0.7 0.006 14 16 0.02 J 4.4 0.02 U 5/9/2005 XX GW301X128 0.01 U 0.002 U 0.5 14 0.005 0.0002 U 15 0.07 4.3 0.03. GW301X15G XX 0.002 J 8/1/2005 0.002 U 0.7 0.003 J 11 0.0002 U 17 0.1 4.6 0.03 . 9/22/2005 XX GW301X18E 0.003 0.002 U 0.9 0.003 J 14 0.0002 U 17 0.1 4.4 0.05 XX GW301X1D9 5/22/2006 0.001 U 0.002 U 0.002 J 13 0.0005 J 15 0.32 4.4 0.03 J XX GW301X1G6 7/24/2006 0.001 U 0.002 U 0.7 0.002 J 12.5 0.0002 U 17 0.09 4.5 0.03 J9/11/2006 XX GW301X1U 0.002 J 0.002 J 0.9 0.003 J 12.9 0.0006 18 0.05 J 4.6 0.02 J XX GW301X228 5/14/2007 0.001 J 0.002 U 0.8 0.006 14.2 0.0002 U 18 0.32 4.6 0.05 7/23/2007 XX GW301X26A 0.001 J 0.002 U 1 0.001 J 12.4 0.0002 U 16 1.59 4.5 0.02 U XX :GW301X290 9/10/2007 0.002 J 0.002 U 0.002 J 12.5 0.0002 J 20 0.14 4.3 0.02 J XX GW301X2CE 5/19/2008 0.003 U 0.003 U 0.6 0.003 J 12.3 0.001 U 19.4 4.9 0.38 0.05 XX GW301X2FI 0.001 U 0.002 U 7/30/2008 0.7 0.002 U 11.1 0.0002 U 16.7 0.21 4.1 0.02 U GW301X2i8 10/28/2008 XX 0.01 U 0.002 U 0.8 0.003 J 11.3 0.0002 J17.5 0.07 4.6 0.02 U 4/15/2009 XX GW301X31G 0.001 U 0.002 U 1.2 0.003 J11.8 0.0002 U 31.4 0.15 5.7 0.02 U G9V301X360 7/7/2009 XX 0.001 J 0.002 U 0.7 0.002 U 13.1 0.0002 J0.4 4.9 20.8 0.02 JGW301X3DF 10/26/2009 XX 0 001 U 0 002 U 0.7 0.008 11.5 0.0002 U 0.34 19.3 4.6 0.02 J GW301X3IE 4/26/2010 ХX 0.0D1 U 0.002 U 0.7 0.005 10.9 0.0002 U 16.9 0.463.9 0.03 J7/19/2010 XX GW301X41I 0.001 U 0.002 U 0.8 0.005 11.B 19.4 0.0002 J 0.864.7 $0.02 \, J$ GW301X452 10/19/2010 XX 0.001 U 0.002 U 0.7 0.007 10.7 0.0002 U 17.9 0.21 0.02 J 4.4 4/27/2011 XX GW30tX493 0.001 U 0 002 U 0.7 0.005 11.4 0.0004 J 18.1 0 24 4.5 0.02 J GW301X4D1 7/20/2011 XX 0 001 U 0 002 U 0.7 0.012 10.6 0.0002 U 18.5 0.26 4.4 0.02 J GW301X4GG 10/26/2011 XX 0.001 U 0.002 U 0.7 0.002 U 10.7 0.0002 U 1B,7 0.27 4.3 0 02 J

| REPORT PRI | EPARED: 2/11/201 FOR: Juniper F | | | | | | | MARY REPO | | | | | 4 BLANCH | 26 MAHER ENGINEERS, INC. ARD ROAD AND CENTER, ME 04021 |
|------------------------------|---------------------------------------|--|--------------------|-------------|--------------------|--------------|----------------------|--------------|----------------|------------|-----------|--|--------------|---|
| (MW-301) | • | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | fron | Magnesium | Manganese | | | |
| | • | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | |
| Date Typ | pe Sample ID | | | | | | | | | | | | | |
| | N Internation | 1 | | T 4= | | 44.4 | | 40.0 | 0.45 | | 0.05 U | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
| - | X GW301X518 X GW301X565 | 0.003 U | 0.005 U 0.005 U | 0.7 | 0.009 | 11.1 11.8 | 0.0006 U 0.0006 U | 16.9 14.9 | 0.15 0.05 U | 4.4 | 0.05 U | | | |
| 7/25/2012 XX | | 0.003 U | 0.005 U | 0.6 | 0.006 | 10.3 | 0.0006 U | 16.7 | 0.32 | 4.3 | 0.05 U | | | |
| 10/24/2012 XI | | 0.003 U | 0.005 U | 0.6 | 0.008 | 10.3 | 0.0006 U | 17.1 | 0.31 | 4.4 | 0.05 U | | | - |
| 4/22/2013 X | | 0.000 0 | 0.000 0 | | 1 | 1 | 1 | 17.1 | 1 | 1 | ! | | | - |
| 7/31/2013 X | | · · | 0.005 U | 0.7 | 0.01 | 10.4 | 0.0006 U | 19.2 | 0.54 | 4.8 | 0.05 | · | | |
| 10/30/2013 X | | | 0.005 U | 0.6 | 0.006 | 10.1 | 0.0006 U | 19.3 | 0.13 | 4.7 | 0.05 U | | | |
| 10/30/2013 XI | | } | 0.005 U | 0.6 | 0.008 | 10.2 | 0.0006 U | 18.7 | 0.15 | 4.7 | 0.05 U | | | |
| MW-302 | | | , | | | <u> </u> | | | (.,, - ====== | 1 | 1 | • | | ···· |
| | X GW302X009 | | 0.002.11 | T - 22 | 0.000 1 | 4.5 | 0.0000 | EC | 0.16 | 7 | 0.03 J | 1 | 1 | 1 |
| | | 0.001 J | 0.002 U | 0.8 | 0.003 J 0.001 J | 4.6 3.5 | 0.0002 J 0.0002 U | 55 60 | 0.15 0.05 J | 2.6 | 0.03 0 | | | |
| 7/27/2004 X | | 0.022 | 0.002 U | 0.8 | 0.002 J | 4.3 | 0.0002 0 | 60 | 0.03 J | 2.9 | 0.02 J | | | |
| _: | | 0.0111 | 0.004 J | 0.8 | 0.002 3 | 5 | 0.0002 U | 55 | 0.02 3 | 2.9 | 0.02 U | | ··· i·· | |
| 5/10/2005 X | | 0.01 U | 0.004 J 0.002 U | 0.9 | 0.004 0.001 J | 4.7 | 0.0002 U | 48 | 0.09 | 2.7 | 0.02 U | | | - |
| 9/19/2005 X | | 0.001 J | 0.002 U | 0.6 | 0.001 J | 5.6 | 0.0002 U | 60 | 0.03 | 5 | 0.02 U | | | |
| 5/23/2006 X | | 0.001 J | 0.004 J | 0.8 | 0.001 J | 6 | 0.0002-0 | 46 | 0.11 | 2.6 | 0.02 U | | | |
| 7/24/2006 X | ^ | 0.001 U | 0.002 U | 0.4 | 0.002 S | 5.2 | 0.0003 | 50 | 04 | 2.9 | 0.02 J | | | |
| 9/12/2006 X | · · · · · · · · · · · · · · · · · · · | 0.001 U | 0.002 | 1 1 | 0.001 U | 6.8 | 0.0003 J | 60 | 0 13 | 3 | 0.02 J | | | |
| 5/14/2007 X | | 0.001 J | 0.002 U | 0.8 | 0.001 J | 5.9 | 0.0002 U | 50 | 0 26 | 4.4 | 0.02 J | | - | |
| 7/25/2007 X | <u> </u> | 0.001 J | 0.002 U | 0.7 | 0.001 U | 5.9 | 0 0002 J | 44 | 0.13 | 2.5 | 0.02 J | | | |
| 9/10/2007 X | | DE | DE | DE | DE | DE | DE | DĒ | DE | DE | DE | | | |
| MW-302R | | , 02 | | | | | .) <u>=</u> | | • | | | | | |
| | | | | | | | | , | | | | | | |
| 5/20/2008 X | _ | 0.003 U | 0.003 U | 1.2 | 0.004 J | 7.5 | 0.001 U | 3:6.1 | 0.19 | 2.4 | 0.06 | | | |
| 7/29/2008 X | _ | 0.001 U | 0.002 U | 2 | 0.002 U | 7.1 | 0.0002 U | 34.9 | 0.11 | 2.4 | 0.02 U | | | |
| 10/27/2008 X | | 0.01 U | 0.002 U | 1 | 0.002 U | 6.6 | 0.0002 U | 39 | 0.04 J | 2.9 | 0.02 J | | | |
| 4/13/2009 X | | 0.001 U | 0.002 U | 0.7 | 0.002 U | 6.6 | 0.0002 U | 24.1 | 0.02 U | 1.9 | 0.02 U | | | |
| 7/6/2009 X | _ | 0.001 U | 0.002 J | 0.8 | 0.005 | 96 | 0.0002 U | 26.7 | 0.04 J | 1.9 | 0.02 U | | | |
| 10/27/2009 X | | 0.001 U | 0.002 U | 1.4 | 0.008 | 22.9 | 0.0002 U | 60.4 | 0.02 J | 4.9 | 0.02 J | | | |
| 4/26/2010 X | | 9.001 U | 0.002 U | 0.5 | 0.002 J | 6 | 0.0002 U | 17.6 | 0 02 U | 1.4 | 0.02 J | | | |
| 7/19/2010 X | | 0.001 U | 0.002 U | 1.2 | 0.014 | 20.3 | 0.0002 J | 58 | 0 02 U | 4.5 | 0.02 U | | | |
| 10/18/2010 X | | 0.001 U | 0.002 U | 1.6 | 0.008 | 22 | 0.0002 U | 66.2 | 0.02 U | 5.3 | 0.03 J | | | |
| 4/25/2011 X | | 0.001 U | 0.002 U | 0.8 | 0.009 | 14.9 | 0.0002 U | 29.4 | 0.02 U | 2.6 | 0 02 U | | | |
| 7/18/2011 X | | 0.001 U | 0.002 U | 1 | 0.009 | 20.6 24.7 | 0.0002 J | 33.8 | 0.02 U | 3.1 | 0.02 U | | | |
| 10/24/2011 X | •• | 0.002 J | 0.002 U | 1.2 | 0.002 U | <u> </u> | 0.0006 | 42.2 | 0.02 U | 2.3 | 0.02 U | | | |
| 4/23/2012 X | | 0.003 U | 0.005 U | 0.8 | 0.005 U | 13.2 | 0.0006 U | 26 | 0.05 U | 2.8 | 0.05 U | | | |
| 7/23/2012 X | _: | 0.003 U | 0.005 U | 0.9 | 0.005 U 0.009 | 18.4 28.6 | 0.0006 U 0.0006 U | 32.6 54.6 | 0.05 U | 1 | 0.05 U | | | |
| 10/22/2012 XX | | 0.003 U | 0.005 U | 1.2 | 0.009 | 11 | 0.0006 U | 21.1 | 0.05 U | 4.3 1.8 | 0.05 U | · · · · · · · · · · · · · · · · · · · | - | |
| 4/22/2013 XX 7/29/2013 XX | <u> </u> | 0.003 U | 0.005 U | 0.7 | 0.005 U | 17.8 | 0.0008 U | 33 | 0.05 U | 3 | 0.05 U | - · ·- · · · · | | |
| 10/28/2013 X | | -1 | 0.005 U | 1.1 | 0.003 0 | 20.3 | 0.0006 U | 32.6 | 0.05 U | 2.9 | 0.05 U | · · · · · · · · · · · · · · · · · · · | | |
| | | ······································ | L | I | 1 2.500 | | 2.2300.0 | | | | . I | - - | | |
| MW-303 | | | 1 | | T | | | | r | | | Ţ······ | | |
| 5/6/2004 XX | X GW303X00C | 0.001 U | 0 002 J | 0.4 | 0.003 J | 3.9 | 0.0002 J | 4,7 | 0.03 J | 2 | 0.02 J | | | |
| 7/28/2004 X | X GW303X040 | 0.001 J | 0.002 U | 1 1 | 0.001 U | 4,1 | 0.0002 U | 3.3 | 0.05 J | 1.9 | 0.02 J | | | |
| 10/26/2004 X | | | | 0.6 | 0.001 J | 3.3 | | 3.1 | 0.12 | 2 | 0.03 J | | | |
| 10/26/2004 XI | | | | 0.6 | 0.001 J | 3.2 | - | 3 | 0.09 | . 2 | 0.02 J | . | | |
| 5/11/2005 X | | 0.01 U | 0.002 U | 0.4 | 0.003 J | 4.1 | 0 0002 U | 28 | 0.05 J | 1.84 | 0.02 U | | | |
| 8/1/2005 XI | | 0.001 U | 0.002 U | 0.4 | 0.002 J | 4.5 | 0.0002 J | 3 | 0 08 | <u></u> 2 | 0.02 U | - | | |
| 8/1/2005 XX | χ GW303X175 | 0.001 U | 0.002 U | 0.4 | 0.001 J | 4.3 | 0.0002 U | 2.9 | 0.07 | 2 | 0.02 ∪ | | l l | |

Page 16 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 SLANCHARD ROAD CUMBERLAND CENTER, ME 04021 Nickel Potassium (MW-303) Copper Arsenic Sodium Cadmium Calcium Iron Magnesium Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample ID GW303X1A3 9/19/2005 XX 0.002 J0.002 U 0.001 J 0.5 0.0002 j4.1 0.02 J1.78 0.02 U4 5/23/2006 XX GW303X1EF 0.002 J0.002 U 0.6 0.001 U 4.3 0.0002 J 5.1 0.02 J 2 0.02 U 7/24/2006 XD GWDP4X1H4 0.001 U 0.002 U 0.3 0.001 U 0.0002 U 5.1 0.02 J3.9 2 0.02 U 7/24/2006 XX GW303X1HF 0.001 U 0.002 U 0.3 0.001 U 3.7 0.0002 U 4.9 0.02 J0.02 U GW303X208 9/12/2006 XX 0.001 U 0.002 U 0.7 0.001 U 4.3 0.0002 U 2.8 0.03 J2 0.02 U GW303X23F XX 0.002 U 0.2 J0.003 J 5/14/2007 $0.001 \, J$ 4.7 0.0002 U 3.7 0.02 J2.2 0.02 U 7/25/2007 ΧĐ GWDP4X278 0.002 0.002 U 0.4 0.001 U 3.8 0.0002 U 6.6 0.04 J 2.2 0.02 U XX GW303X27J 0.002 U 7/25/2007 0.001 J 0.5 0.001 U 3.6 0.0002 U 6.8 0.04 J 2.1 0.02 U XX GW303X2A9 0.002 J 0.002 U 0.5 9/11/2007 0.001 J 3.1 0.0006 6 0.07 2.1 0.02 J 9/11/2007 ΧĐ GWDP1X291 0.002 0.002 U 0.5 0.001 U 3.2 0.0005 J 0.08 5.9 2.1 0.02 J5/19/2008 XX GW303X2E3 0.003 U 0.003 U 0.5 0.003 U 4.6 0.001 U 9.1 0.02 U 3.8 0.02 U XD GWDP4X2GG 7/29/2008 0.001 J 0.002 U 0.5 0.002 U 4.4 0.0002 U 9 0,02 U 3.9 0.02 U XX GW303X2H7 7/29/2008 0.001 J 0.002 U 0.6 0.002 U 4.6 9.1 0.02 U 3.9 0.0002 U 0.02 U GWDP3X2J0 10/27/2008 XD 0.0111 0.002 U 0.4 0.002 U 4.2 0.0002 U 10.1 0.02 U 4.4 0.02 U GW303X2JH 10/27/2008 XX 0.002 U 0.5 0.002 U 0.01 U 4.2 0.0002 U 10.1 0.02 J4.4 0.02 U GW303X335 0.002 U 4/13/2009 XX 0.001 U 0.9 0.002 U 0.0002 J 15.8 0.02 U 8.1 0.02 Ü 5.8 XD GWDP3X360 7/6/2009 0.006 0.002 J 0.7 0.005 6 0.0002 J17.1 0.02 U 7.8 0.02 U XX GW303X379 0.007 0.002 J 0.7 0.005 7/6/2009 6.1 0.0002 U 18.2 0.02 U 7.9 0.02 U 10/28/2009 XX GW303X3F4 0.002 U 0.7 0.001 J 0.007 5.8 0.0002 U 16.4 0.06 7.5 0.02 U 4/26/2010 XX GW303X403 0.001 U 0.002 U 0.7 0.002 J 17.6 0.02 U 7.9 6 0.0002 U 0.02 U XD GWDP4X42G 7/19/2010 0.002 U 0.01 8.3 0.001 U 0.8 6.3 0.0002 U 19.1 0.02 U 0.02 U XX GW303X437 7/19/2010 0.001 J 0.002 U 0.8 0.007 6.5 0.0002 J197 0.02 U 8.2 0.02 U 10/18/2010 XX GW303X46B 0.004 0.002 U 0.7 0.006 6.8 0.0002 U 20 0.05 7.4 0.03 J 4/25/2011 XX GW303X4AC 0.001 U 0.002 U 0.8 0.012 21.1 0.07 9.7 6.9 0.0002 U 0.02 U XX GW303X4EA 7/18/2011 0.001 U 0.002 U 0.8 0.017 6.7 18.7 0.04 J 9.2 0.0002 U 0.02 J 7/18/2011 XD GWDP4X4DJ 0.001 U 0.002 U 0.8 0.02 6.8 0.0002 U 18.8 0.03 J 9.2 0.02 J XX GW303X415 10/24/2011 0.001 U 0.002 U 0.9 0.002 U 7.6 0.0002 U 23.3 0.02 U 109 0.02 U 10/24/2011 XD GWDP4X4HE 0.001 U 0.002 U 0.8 0.002 U 7.2 0.0002 U 22.9 0.02 U 10.2 0.02 U 4/23/2012 XX GW303X52F 0.003 U 0.005 U 0.005 Q 1 8.5 0.0006 U 252 0.07 12.1 0.05 U 7/24/2012 XX GW303X57E . MW12-303R 10/23/2012 XX GW303X5EG 0.003 U 0 005 U 1.5 0.005 U 10.4 0.0006 U 16.6 0.1 7.8 0.32 4/22/2013 XX GW303X5IG 0.003 U 0.005 U 2.1 0.01 15.9 21.3 0.05 U 9.5 0.0006 U 0.06 7/29/2013 XX GW303X651 0.005 U 1.5 0.008 8.8 0.0006 U 24.3 0.05 U 10 0.05 U 10/28/2013 XX GW303X67D 0.005 U 1.7 0.015 9.2 0.0006 U 23.7 0.05 U 10.3 0.05 U MW-304A 7/29/2004 XX GW304AHD0 0.003 0.002 U 3.2 0.002 J 23 0.0002 U 16 0.03 J 4.8 0.14 10/27/2004 XX GW304A078 0.002 J 0.002 U 1.9 0.001 U 17 0.0002 U 19 0.02 J 5.1 0.2 5/11/2005 XX GW304A13C 0.01 U 0.002 U 1.2 0.002 J 6.2 2.3 3.6 0.0002 U 0.08 0.02 U 7/28/2005 XX GW384A170 0.001 U 0.002 U 0.001 U 0.0002 U 10 0.02 J 2.5 3.9 0.03 J 1 XX GW304A19I 9/19/2005 0.001 U 0.002 U 0.7 0.001 J 4.8 0.0002 U 13 0.04 J3.3 0.03 J 5/24/2006 XX GW304A1ED 0.008 0.002 U 0.6 0.001 J 4.5 0.0014 11 0.1 4.3 0.02 Ų 7/25/2006 XX GW304A1HA 0.001 J 0.002 J 0.002 U 1 4.4 0.0002 U12 0.09 4.8 0.02 J9/12/2006 XX GW304A203 0.002 U 0.001 U 0.001 U 1 5.6 0.0002 U 13 0.073.8 0.02 J5/15/2007 XX GW304A23A 0.009 0.006 0.3 0.003 J 5.8 0 007 2.3 6.7 0.08 0.03 JXX GW304A27E 7/24/2007 0.001 U 0.003 J 1.1 0.001 U 56 0.0002 U 12 0.02 J 4.3 0.02 U XX GW304AZA4 9/11/2007 0.001 U 0.004 J 0.9 0.001 U 4.6 0.0002 J 14 0.02 J 3.5 0.02 Ų 5/20/2008 XX GW304A2DI 0.003 U 3.6 10.7 0.003 U 0.7 0.003 J 0.001 U 0.05 2.9 0.02 U

| REPORT PREF | PARED: 2/11/2014 | 4 12:52 | | | | | SUMM | MARY REPO | DRT | | | Page 17 of 26 |
|---------------|---------------------------------------|----------------|--------------------|-----------|---------|--------|---------------|---------------|------------------|-----------|-----------------------------|--|
| | FOR: Juniper R | Ridge Landfill | | | | | | al (part 1 of | | | | SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| (MW-304A) | | Copper | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | • |
| . | | mg/L | mg/L | mg/L | mg/L | mg/L | m g/ L | mg/L | mg/L | mg/L | m g / \mathbf{L} | |
| Date Type | e Sample ID | | | | | | | | | | | |
| 7/29/2008 XX | GW304A2H2 | 0.001 U | 0.002 U | 0.9 | 0.002 U | 4.3 | 0.0002 U | 12.9 | 0.03 J | 3.5 | 0.02 U | |
| 10/27/2008 XX | GW304A2JC | 0.01 U | 0.002 U | 0.8 | 0.002 U | 6.1 | 0.0002 U | 13.6 | 0.04 J | 3.7 | 0.02 U | |
| 4/13/2009 XX | GW304A330 | 0.001 U | 0.002 U | 1 | 0.002 U | 4,8 | 0.0002 J | 13.8 | 0.03 J | 4 | 0.02 U | |
| 7/6/2009 XX | GW304A374 | 0.001 U | 0.002 U | 0.7 | 0.003 J | 4.2 | 0.0002 U | 12.9 | 0.03 J | 3 | 0.02 U | |
| 10/27/2009 XX | GW304A3EJ | 0.001 U | 0.002 U | 0.7 | 0.002 J | 3.3 | 0.0008 | 14.7 | 0.02 U | 3.7 | 0.02 U | |
| 4/26/2010 XX | GW304A3JI | 0.001 U | 0.002 U | 0.5 | 0.002 U | 2.9 | 0.0002 U | 9.5 | 0.02 U | 2.4 | 0.02 U | |
| 7/19/2010 XX | GVV304A432 | 0.001 U | 0.002 U | 0.7 | 0.005 | 3.4 | 0.0002 U | 13.8 | 0.02 U | 3.3 | 0.02 U | |
| 10/18/2010 XX | GW304A466 | 0.004 | 0.002 U | 0.7 | 0.003 J | 3.6 | 0.0002 ป | 14.5 | 0.26 | 3.4 | 0.09 | |
| 4/25/2011 XX | GW304A4A7 | 0.001 U | 0.002 U | 0.7 | 0.004 J | 3.2 | 0.0002 U | 10.4 | 0.02 U | 3.1 | 0.02 U | |
| 7/18/2011 XX | GW304A4E5 | 0.001 U | 0.002 U | 0.6 | 0.005 | 3.6 | 0.0007 | 9.7 | 0.02 U | 2.9 | 0.02 U | |
| 10/24/2011 XX | GW304A4I0 | 0.001 U | 0.002 U | 0.8 | 0.002 J | 5 | 0.0005 J | 12.9 | 0.02 U | 36 | 0.02 U | |
| 4/23/2012 XX | GW304A52A | 0.003 U | 0.005 Ü | 0.9 | 0.006 | 7.1 | 0,0006 U | 13.9 | 0.05 U | 4 | 0.05 U | |
| 7/23/2012 XX | GW304A579 | 0.003 U | 0.005 U | 0.8 | 0.005 ป | 4.7 | 0.0006 U | 14,3 | 0.05 U | 3.8 | 0.05 ∪ | |
| 10/22/2012 XX | GW304A5E0 | 0.003 U | 0.005 U | 0.7 | 0.006 | 3.7 | 0.0006 U | 11.7 | 0.05 U | 3.5 | 0.05 U | |
| 4/22/2013 XX | GW304A5IB | 0.003 U | 0.005 U | 0.8 | 0.005 U | 5 | 0.0006 U | 13.8 | 0.05 U | 3.7 | 0.05 U | |
| 7/29/2013 XX | GW304A64G | | 0.005 U | 0.7 | 0.005 U | 3.7 | 0.0006 U | 14.3 | 0.05 U | 3.8 | 0.05 U | |
| 10/28/2013 XX | | | 0.005 ป | 0.8 | 0.007 | 4.3 | 0.0006 U | 13.9 | 0.05 Ų | 3.8 | 0.05 Ų | |
| MW-401A | | 1 | | | | 1 | | | • | | ' | |
| 7/29/2004 XX | GW401A059 | 0.001 J | 0.002 U | 1.4 | 0.004 | 3.6 | 0.0002 U | 12 | 0.02 J | 4.6 | 0.03 J | |
| 10/27/2004 XD | GWDP4X075 | 0.002 J | 0.002 U | 0.9 | 0.006 | 3.8 | 0.0002 U | 13 | 0.08 | 3.7 | 0.02 J | |
| 10/27/2004 XX | GW401A071 | 0.001 J | 0.002 U | 0.9 | 0.007 | 3.7 | 0.0002 U | 13 | 0.07 | 3.7 | 0.03 J | |
| 5/10/2005 XX | GW401A132 | 0.01 U | 0.003 J | 0.7 | 0.004 | 4.7 | 0.0002 U | 11 | 0.05.1 | 3.7 | 0.02 U | |
| 7/28/2005 XD | GWDP4X16E | 0.001 U | 0.002 U | 0.6 | 0.003 J | 5.1 | 0.0002 U | 13 | 0.05 J | 4.1 | 0.02 J | |
| 7/28/2005 XX | GVV401A16A | 0.001 J | 0.002 U | 0.8 | 0.002 J | 5.2 | 0.0002 J | 13 | 0.05 J | 4 | 0.03 J | |
| 9/21/2005 XX | | 0.001 U | 0.002 U | 0.3 | 0.005 | 4.5 | 0.0002 U | 13 | 0.02 J | 3.8 | 0.02 U | |
| 5/23/2006 XX | | 0.001 U | 0.002 U | 1 | 0.009 | 4.6 | 0 0005 J | 12 | 0.07 | 3.8 | 0.02 U | |
| 7/25/2006 XX | | 0.001 U | D.004 J | 0.7 | 0.005 | 4.5 | 0.0006 | 13 | 0.03 J | 4 | 0.02 J | |
| 9/12/2006 XX | | 0.001 U | 0.002 U | 0.8 | 0.001 U | 4.9 | 0.0002 U | 15 | 0.02 J | 4.1 | 0.02 J | |
| 5/14/2007 XX | | 0.002 J | 0.002 U | 0.3 | 0.005 | 5.2 | 0.0023 | 15 | 0.05 J | 4.1 | 0.02 J | |
| 7/24/2007 XX | GW401A274 | 0.003 | 0.002 U | 1.3 | 0.001 J | 4.6 | 0.0003 J | 14 | 0.04 J | 4.5 | 0.02 U | |
| 9/11/2007 XX | GW401A29E | 0.001 J | 0.003 J | 0.8 | 0.001 U | 3.8 | 0.0002 U | 14 | 0.02 J | 3.8 | 0.02 V | |
| 5/20/2008 XX | GW401A2D8 | 0.003 U | 0.003 U | 0.6 | 0 003 U | 3.6 | 0.001 U | 15.3 | 0.02 U | 4.3 | 0.02 U | |
| 7/28/2008 XX | GW401A2GC | 0.001 U | 0.002 U | 0.7 | 0 003 J | 3.8 | 0.0002 U | 13.7 | 0.02 U | 3.8 | 0.02 U | · · · · · · · · · · · · · · · · · · · |
| 10/27/2008 XX | | 0.01 U | 0.002 U | 0.6 | 0.003 J | 3.5 | 0.0002 U | 14.1 | 0 02 U | 4 | 0.02 U | |
| 4/13/2009 XX | | 0.001 U | 0.002 U | 0.8 | 0.003 J | 3.9 | 0.0002 U | 15.9 | 0 02 U | 4.8 | 0.02 U | |
| | GW401A38E | 0.001 U | 0.002 U | 0.6 | 0.004 J | 3.9 | 0.0002 U | 15.8 | | | 0.02 U | |
| 7/7/2009 XX | GW401A36E | | | | | + | 0.0002 U | | 0.02 J 0.02 U | 4.3 | | |
| 10/28/2009 XX | GVV401A3J8 | 0.001 U | 0.002 U 0.002 U | 0.6 | 0.004 J | 3.2 | | 14.5 | | 3.8 | 0.02 U | ····· |
| 4/27/2010 XX | GW401A42C | 0.001 U | | 0.7 | 0.002 J | + | 0.0002 U | 14.5 | 0.02 U | 3.9 | 0.02 U | · |
| 7/20/2010 XX | | 0.001 U | 0.002 U | 0.7 | 0.006 | 3.6 | 0.0002 U | 14.6 | 0.02 U | 4 | 0.02 U | |
| 10/20/2010 XX | GW401A45G | 0.001 U | 0.002 U | 0.7 | 0.004 J | 4 | 0.0002 U | 15.8 | 0.02 U | 3.8 | 0.02 U | |
| 4/25/2011 XX | | 0.001 U | 0.002 U | 0.8 | 0.005 | 4 | 0.0002 U | 14.9 | 0.02 U | 4.5 | 0.02 U | ·· |
| 7/1B/2011 XX | + | 0.001 U | 0.002 U | 0.7 | 0.009 | 3.7 | 0.0015 | 14.3 | 0.02 U | 44 | 0.02 U | |
| 10/24/2011 XX | · · · · · · · · · · · · · · · · · · · | 0.001 U | 0.002 U | 0.7 | 0.005 | 3.8 | 0.0002 U | 14.3 | 0.02 U | 4.2 | 0.02 U | |
| 4/23/2012 XX | | 0.003 U | 0.005 U | 08 | 0.007 | 4 | 0.0006 U | 12.9 | 0 05 U | 43 | 0.05 U | |
| 7/23/2012 XX | | 0.003 U | 0.005 U | 0.7 | 0.005 U | 3.5 | 0.0006 U | 12.1 | 0 05 U | 39 | 0.05 U | |
| 10/22/2012 XX | | 0.003 U | 0.005 U | 0.7 | 0.005 U | 4 | 0.0006 U | 13 | 0 05 U | 4.4 | 0.05 U | |
| 4/22/2013 XX | ÷ | 0.003 U | 0.005 U | 0.7 | 0.005 | 4 | 0.0006 U | 13.7 | 0 05 U | 3.9 | 0.05 U | |
| 7/29/2013 XX | GW4D1A646 | | 0.005 U | 0.6 | 0.005 U | 3.3 | 0.0006 U | 14.7 | 0.05 U | 4.1 | 0.05 U | |
| 10/28/2013 XX | GW401A66J | | 0.005 U | 0.7 | 0.009 | 3.7 | 0.0006 U | 14 | 0.05 U | 4 | 0.05 ∪ | |

| REPORT PR | REPARED: 2/11/201 | | | | | | | MARY REPO | | | | Page 18 of 26 SEVEE & MAHER ENGINEERS, INC. |
|------------------------------|--|--------------|--------------------|------------|---------|--------|--------------------|---------------|-------------|-------------|--------------|--|
| | | _ | | | | | Met | al (part 1 of | 1) | | | 4 BLANCHARD ROAD CUMBERLAND CENȚER, ME 04021 |
| (MW-401B) |) | Соррег | Nickel | Potassium | Arsenic | Sodium | Cadmium | Calcium | Iron | Magnesium | Manganese | • |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| Date Ty | rpe Sample ID | | | | | | | | | | | |
| MW-401B | B | | | | ·-· | · | | | | | | - |
| 7/29/2004 XI | | 0.001 J | 0.002 J | 3.4 | 0.003 J | 18 | 0.0002 บ | 70 | 1.22 | 21 | 2.9 | |
| 7/29/2004 X | ·- | 0.001 J | 0.002 J | 3.2 | 0.004 | 18 | 0.0002 U | 70 | 1.18 | 21 | 2.9 | |
| 10/27/2004 X | | 0.001 J | 0.002 U | 3.1 | 0.005 | 23 | 0.0002 U | 90 | 8.2 | 24 | 2.9 | |
| 5/10/2005 X | TOTAL CONTRACTOR OF THE PARTY O | 0.01 ป | 0.004 J | 2.1 | 0.004 | 23 | 0.0002 U | 55 | 19 | 18 | 0.92 | |
| 5/10/2005 XI | | 0.01 U | 0.003 J | 2 | 0.004 | 24 | 0.0002 U | 60 | 19.5 | 17.5 | 0.93 | |
| 7/27/2005 X | (X GV/401B16B | 0.001 J | 0.002 J | 2 | 0 006 | 24 | 0.0002 U | 75 | 10.5 | 23 | 0.8 | |
| 9/21/2005 XI | D GWIDP4X19C | D.002 J | 0.003 J | 1.7 | 0.005 | 30 | 0.0002 U | 105 | 9.5 | 33 | 0.72 | |
| 9/21/2005 X | X GW4D1B199 | 0.002 J | 0.003 J | 1.9 | 0.004 | 33 | 0.0002 U | 100 | 9.6 | 36 | 0.69 | |
| 5/23/2006 X | X GW401B1E4 | 0 001 U | 0.002 J | 1.8 | 0.008 | 26 | 0.0002 J | 50 | 7.1 | 15 | 0.29 | |
| 5/23/2006 X | D GWDP4X1E7 | 0.001 U | 0.002 ↓ | 1.9 | 0.01 | 25 | 0.0002 U | 49 | 6.7 | 14.5 | 0.31 | |
| 7/25/2006 X | X GW401B1H1 | 0.005 | 0.005 | 2.3 | 0.006 | 30 | 0.0002 U | 50 | 3.8 | 15.5 | 0.32 | <u></u> |
| 9/12/2006 X | CX GW401B1JE | 0.001 J | 0.002 J | 2.1 | 0.005 | 29 | 0.0002 U | 50 | 4 | 14 | 0.32 | |
| 9/12/2006 XI | | 0.001 U | 0.002 J | 2.2 | 0.004 | 28 | 0.0002 U | 50 | 4.1 | 14.5 | 0.33 | |
| 5/14/2007 X | | 0.001 U | 0.002 J | 09 | 0 009 | 19.6 | 0.0002 U | 39 | 3.7 | 12 | 0.28 | |
| 5/14/2007 XI | | 0.001 U | 0.002 U | 8.0 | 0.01 | 18.9 | 0.0002 J | 36 | 3.8 | 11.5 | 0.29 | |
| 7/24/2007 X | | 0.002 J | 0.002 € | 1.8 | 0.002 J | 21 | 0.0004 J | 42 | 4 | 12 | 0.26 | <u> </u> |
| 9/11/2007 X | | 0.001 U | 0.002 J | 1.8 | 0.006 | 27 | 0.0002 J | 48 | 4.1 | 13.5 | 0.26 | |
| 9/11/2007 XI | | 0.001 U | 0.003 J | 1.8 | 0.005 | 26 | 0.0002 J | .49 | 44 | 13.5 | 0.25 | |
| 5/20/2008 X | | 0.003 U | 0.003 U | 1.2 | 0.009 | 15.9 | 0.001 U | 39.8 | 2.05 | 11.6 | 0.22 | <u> </u> |
| 5/20/2008 XI | | 0.003 U | 0.003 U | 1.2 | 0.01 | 15.2 | 0.001 U | 39.3 | 2.08 | 11.6 | 0.22 | |
| 7/28/2008 X | | 0.001 U | 0.002 J | 1.5 1.5 | 0.008 | 16.3 | 0.0002 U | 41.3 | 2.63 | 11.5 | 0.22 | |
| 10/27/2008 XI | | 0.01 U | 0.002 U | | 0.005 | 16.1 | _ 0.0002 U | 42.7 | 2.62 | 12.6 | 0.17 | |
| 10/27/200B X | | 0 01 U | 0.002 U | 1.5 | 0.005 | 16,1 | 0.0002 U | 42 | 2.63 | 12.7 | D.17 | |
| 4/13/2009 XI | | 0.001 U | 0.002 U | 1.1 | 0.013 | 10.1 | 0.0002 U | 30.3 | 0.89 | 9 | 0.12 | <u>-</u> |
| 4/13/2009 X | | 0.001 U | 0.002 U | 1.1 | 0.014 | 10.6 | 0 0002 J | 31.1 | 1.08 | 9.6 | 0.14 | |
| 7/7/2009 X | | 0.001 U | 0.002 U | 1.3 | 0.005 | 13.2 | 0.0002 U | 37 | 1.23 | 10.6 | 0.19 | |
| 10/28/2009 X | | 0.001 U | 0.003 J | 1.4 | 0.016 | 13.5 | 0.0007 | 40.6 | 1.98 | 11.2 | 0.2 | |
| 10/28/2009 XI | | 0.001 U | 0.002 U | 1.4 | 0.016 | 13.3 | 0.0004 J | 39,6 | 2.21 | 10.9 | 0.2 | |
| 4/27/2010 XX | | 0.001 U | 0.002 U | 1 | 0.012 | 9.8 | 0.0002 U | 29 | 0.71 | 8 | 0.13 | |
| 4/27/2010 XI | | 0.001 U | 0.002 U | 1 | 0.013 | 10.4 | 0.0002 U | 30.3 | 0.71 | 8.5 | 0.13 | |
| 7/20/2010 XI | | 0.001 U | 0.002 U | 1.4 | 0.021 | 14.6 | 0.0002 U | 40.4 | 1.92 | 11.2 | 0.19 | |
| 7/20/2010 XX | No. 4 | 0.001 U | 0.002 U | 1.3 | 0.023 | 12.9 | 0.0002 U | 37.2 | 1.91 | 10.2 | 0.18 | |
| 10/20/2010 XX | | 0.001 U | 0.002 U | 1.5 | 0.011 | 15.6 | 0.0002 U | 38.5 | 2.09 | 10.8 | 0.17 | |
| 10/20/2010 XI | | 0.001 U | 0.002 U | 1.5 | 0.012 | 15.3 | 0.0002 U | 37.6 | 2.11 | 10,1 | 0.16 | |
| 4/25/2011 XI | _ | 0.001 U | 0.002 U | 1.1 | 0.019 | 10.3 | 0.0002 U | 25.2 | D.41 | 8.1 | 0.07 | <u> </u> |
| 4/25/2011 XX 7/18/2011 XI | | 0.001 U | 0.002 U | 1.1 | 0.016 | 10.5 | 0.0002 U | 25.9 | 0.4 | 8.3 | 0.07 | |
| 7/18/2011 XI 7/18/2011 XX | | 0.001 U | 0.002 U | 1.1 | 0.022 | 11.9 | 0.0022 | 27.2 | 0.54 | 8.8 | 0.15 | |
| 10/24/2011 XX | | 0.001 U | 0.002 U 0.002 U | 1.1 | 0.021 | 11.5 | 0.0019 0.0002 U | 33.7 | 0.54 | 8.9 10.1 | 0.15 0.16 | |
| 4/23/2012 XI | | 0.003 U | 0.002 U | 1.3 | 0.006 | 11.7 | 0.0002 U | | | | | |
| 4/23/2012 XX | | 0.003 U | 0.005 U | 1.1 | 0.015 | 10.9 | 0.0006 U | 25.3 | 0.23 | 8.3 | 0.05 | |
| 7/23/2012 XI | | 0.003 U | 0.005 U | 1,1 | 0.017 | 10.8 | 0.0006 U | 26.5 | 0.5 | B.4 | 0.05 | |
| 7/23/2012 XI | .5 | 0.003 U | 0.005 U | 1.1 | 0.014 | 11.4 | 0.0006 U | 29.9 | 0.63 | 8.8 | 0.16 | <u> </u> |
| 10/22/2012 XX | | 0.003 U | 0.005 U | 1,4 | 0.016 | 14.7 | 0 0000 U | 34.5 | 0.99 | 11 | 0.16 | |
| 4/22/2013 XX | , | 0.003 U | 0.005 U | 1,1 | 0.013 | 12.9 | 0 0000 U | 28.9 | 0.39 | 8.7 | 0.18 | |
| 4/22/2013 XI | | 0.003 U | 0.005 U | 1.1 | 0.013 | 12.5 | 0.0006 U | 29.4 | 0.36 | 8.7 | 0.18 | |
| 7/29/2013 XX | | | 0.005 U | 0.9 | 0.012 | 10 | 0.0006 U | 28.8 | 0.51 | 8.4 | 0.17 | |
| 7/29/2013 XI | • | | 0.005 U | 1 1 | 0.022 | 10.9 | | | | | | |
| LIEDIEGIO VI | G 10110. MOVO | 1 | 0.0000 | 1 1 | 1 0.02 | 1 10.9 | U 30000.0 | 31.4 | 0.59 | 9.4 | 0.21 | |

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Page 20 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 (MW-402B) Соррет Nickel Potassium Arsenic Sodium Cadmium Calcium Iron Magnesium Manganeso mg/L mg/L mp/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Type Sample ID Date GW402B32D 0.001 U 4/14/2009 XX 0.002 U 0.6 0.015 8.4 0.0002 U 15.5 0.02 U 5.1 0.02 J7/8/2009 XX GW402B36H 0.001 U 0.002 U 0.7 0.013 8.7 0.0003 J15.7 0.02 J 5.1 0.02 J GW402B3EC 0.001 U 16.9 10/28/2009 XX 0.002 J0.7 8.3 0.0005 J 0.03 J 0.02 5.5 0.02 J4/27/2010 XX GW402B3JB 0.001 U 0.002 U 7.8 0.0002 U 14.5 0.6 0.017 0.02 U 4.8 0.02 J 7/21/2010 XX GW402B42F 0.001 U 0.002 U 0.7 7.6 0.0002 U 14.5 4.8 0.018 0.02 U 0.02 J17.2 10/20/2010 XX GW402B45J 0.001 U 0.002 U 0.8 0.018 9.2 0.0002 U 0.02 U 5.1 0.02 U 4/27/2011 XX GW402B4A0 0.001 U 0.002 U 0.6 0.022 0.0006 0.02 U 0.02 J 7.9 14.2 4.8 GW402B4DI 0.001 U 7/20/2011 XX 0.002 U 0.7 0.023 7.8 0.0012 13.2 0.02 U 4.7 0.02 J10/26/2011 XX GW40284HD 0.001 U 0.002 U 0.7 0.016 8.1 0.0007 15 0.02 U 4.8 0.02 U GW402B523 4/24/2012 XX 0 003 U 0.005 U 0.7 0.018 8.1 0.001 13.6 0.05 U 4.9 0.05 U 7/25/2012 XX GW402B572 0.003 U 0.005 U 0.7 0.017 8.1 0.0006 U 15 0.05 U 4.9 0.05 U GW402B5DD 0.003 U 0.005 U 10/24/2012 XX 0.6 0.02 8.1 0.0006 U 13.9 0.05 U 5.1 0.05 U 4/22/2013 XX GW402B514 0.003 U 0.005 U 0.6 0.019 8.4 0.0006 U 13.2 0.05 U 4.7 0.05 U GW402B649 0.005 U 7/31/2013 XX 0.0006 U 14.9 5 0.05 U 0.6 0.024 7.6 0.05 U 10/30/2013 XX GW402B672 0.005 U 0.6 0.019 0.0006 U 15.5 0.05 U 4.9 0.05 U 8.1 P-04-02 2/5/2004 XX GWXXXX03E 3.5 0.009 1.32 0.09 2/11/2004 XX GWXXXXXX 2 0.004 52 15 0.64 4.8 0.1 GWXXXXX00E 5/5/2004 XX 1.8 0.004 21 21 0.04 J 6.3 0.12 XX GWXXXXX042 7/26/2004 1.6 0.00619 26 0.17 7.2 0.09 GWXXXXXD7I 10/25/2004 XX 14 0.006 19 25 0.18 7.1 0.12 GWXXXXX13J 0.01 U 0.002 U 5/9/2005 XX 1.6 0.004 12 0.0005 J 25 0.04 J 7.3 0.02 J 7/27/2005 XX GWXXXXX177 0.001 J 0.002 U 1.3 0.005 12 0.0002 U 26 0.02 U 7.7 0.05 GWXXXX1A5 0.003 0.002 U 9/22/2005 XX 1.2 0.004 11 0.0002 U 26 0.09 7.4 0.1 GWXXXX1F0 5/22/2006 XX 0.001 U 0.002 U 7.3 0.02 U 1.4 0.005 9.7 0.0002 J 24 0.06 GWXXXX1HH 7/24/2006 XX 0.001 U 0.002 U 0.001 J 0.0002 U 0.05 J 7.5 0.04 J 1.1 9.1 24 GWXXXX20A 0.003 0.002 J 9/11/2006 XX 1.2 0.007 9.7 0.0002 J26 0.097.8 0.02 U GWXXXX23H XX 0.001 U 0.002 U 0.005 0.0002 U 27 0.02 U 7.8 0.02 J 5/14/2007 1.4 96 7/23/2007 XX GWXXXX281 0.001 U 0.002 U 1.5 0.001 U 8.3 0.0002 U 23 0.06 7.4 0.02 U GWXXXX2AB 0.002 J 9/10/2007 XX 0.003 J1.5 0.002 J8.2 0.0003 J 28 0.02 J7.2 0.02 LJ GWXXXX2E5 0.003 U 7.6 5/21/2008 XX 0.004 J1.5 0.006 J 7.₿ 0.001 U 25 0.07 0 02 U 7/30/2008 XX GWXXXX2H9 0.001 U 0.002 U 0 002 U 7,1 0.0002 U 23 0 03 J 1.3 6.9 0.02 U GWXXXX2JJ 0.01 U 0.002 U 0.0002 J 10/29/2008 XX 14 0.003 J 6.7 23.6 0.02 J 7.5 0.02 U 4/13/2009 XX GWXXXX337 0.001 U 0.002 U 15 0.004 J 0.0002 J 0.02 U 6.3 0.02 U 7.4 26.2 GWXXXX37B 0.001 J 0.002 J 7.5 7/6/2009 XX 0.009 7.7 0.0006 25.9 0.02 U 1.4 0.07 10/27/2009 XX GWXXXXX3F6 0.001 U 0.002 U 1.3 0.005 7.1 0.0002 U 25.5 0.02 J 7.7 0.02 U 4/26/2010 XX GWXXXX(405 0 002 J 0.002 U 0.009 0.000211 11 6.5 22.6 0.02 U 6.5 0 02 U 7/21/2010 XX GWXXXX439 0.001 U 0.002 U 1.3 0.009 6.6 0.0002 U 23.6 0.02 U 7 0 02 U 10/20/2010 XX GWXXXXX48D 0.001 U 0.002 U 0.009 7.6 0.0002 U 27 0.02 U 7.4 0 02 U 14 GWXXXX4AE 4/27/2011 XX 0.001 U 0.002 U 1.2 0.01 6.6 0.0005 J22.4 0.02 U 6.7 0 Q2 Ų 7/20/2011 XX GWXXXX4EC 0.001 U 0,002 U 1.3 0.012 6.7 0.0002 U 22.8 0.02 U 6.9 0 02 U 10/26/2011 XX GWXXXXX417 . GWXXXX588 4/25/2012 XX 0.003 U 0 005 U 1.6 0.005 11.4 0.0006 U 16 0.27 4.6 0.05 U 4/25/2012 XX GWXXXX52H 0.003 0.005 U 1.7 0.007 11.2 0.0006 U 16.3 1,43 5.1 0.07 GWXXXX57G 0.005 U 0.004 7/25/2012 XX 16 0.005 U 17.6 0.0006 U 23.8 0.52 6.9 0.05 10/24/2012 XX GWXXXX5E7 0.004 0.005 U 17 0.005 258 0.0006 U 169 0.24 4.1 0.16 4/22/2013 XX GWXXXXXIII P-04-04

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Page 22 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Metal (part 1 of 1) CUMBERLAND CENTER, ME 04021 Nickel Potassium Airsenic. Sodium Cadmium Calcium Magnesium Copper Iron (PWS10-2) Малдапезе mg/L mg/L mg/L mg/L mg/L mg/L mg∕L mg/L mg/L mg/L Date Type Sample ID PWS10-2 4/26/2010 XX GWPWS23J0 0.001 U 0.002 U 0.5 0.004 J0.0002 U 6.9 1.03 0.02 U 3.7 1.5 XX GWPWS2424 7/19/2010 0.001 U 0.002 U 0.4 0.005 4.5 0.0002 U 10.2 2.54 2.9 0.05 XX GWPWS2458 10/18/2010 0.001 U 0.002 U 0.6 0.006 3.9 0.0002 U 9.7 0.35 2.4 0.02 U XX GWPWS2499 4/25/2011 0.002 J 0.007 0.002 U 3.2 0.0003 J6.1 3.06 1.9 0.03 J 1.1 XX GWPWS24D7 7/18/2011 0.001 J 0.002 U 0.7 0.003 J 5.1 0.0014 15.2 Q.9 3.9 0.4310/24/2011 XX GWPW824H2 0.013 0.003 J1.1 0.002 U 2.8 0.0002 U 12.3 2.09 2.8 0.07 GWPWS251C 4/23/2012 XX 0.003 U 0.005 U 0.3 U 0.005 U 0.0006 U 5.7 1.48 4.2 1.6 0.05 U 7/23/2012 XX GWPW5256B 0.003 U 0.005 U 0.005 U 4.6 0.0006 U 1.55 2.7 0.07 0.4 8.1 XX GWPWS25D2 0.005 U 10/22/2012 0.003 0.005 U 8.0 2.9 0.0006 U 6.6 0.32 1.4 0.05 4/22/2013 XX GWPWS25HD 0.003 U 0.005 U 0.3 U 0.005 U 4.4 0.0006 U 9.2 2.34 3.1 0.05 U 7/29/2013 XX GWPW\$2631 0.005 U 0.5 0.005 U 5.1 0.0006 U 13.9 2.42 32 0.05 U 10/28/2013 XX GWPW92668 0.005 U 0.8 0.005 U 3.2 0.0006 U 8.9 6.07 1.9 0.44 PWS10-3 4/26/2010 XX GWPW833J1 0.001 U 0.002 U 0.7 0.003 J 0.0002 U 0.34 0.02 J 3.8 25 3.6 7/19/2010 XX GWPW83425 0.001 J 0.002 U 0.9 0.004 J 4.2 0.0002 U 17 20.8 4.3 0.72 10/18/2010 XX GWPW\$3459 0.002 U 0.3 0.005 5.8 0.0002 € 7.4 2.26 2.4 0.001 U 0.11 4/25/2011 XX GWPW\$349A 0.001 U 0.002 U 0.2 J 0.011 3.9 0.0002 U 17.8 1.69 3.4 0.05 GWPWS34D8 7/18/2011 XX 0.002 J 0.002 U 1.3 0.004 J 4.6 0.001 12.9 3.65 3.5 1.48 GWPWS34H3 XX 0.002 U 2.5 10/24/2011 0.007 0.002 U 0.1 J 0.0002 U 10.6 4.95 2.4 0.09 4/23/2012 XX GWPW\$351D 0.003 U 0.005 U 0.3 U 0.005 U 3.5 0.0006 U 5.1 0.64 2.3 0.05 U XX GWPW\$\$56C 0.003 U 0.005 U 0.3 0.005 U 4.2 0.0006 U 6.2 1.54 2.3 0.12 7/23/2012 GWPW\$35D3 10/22/2012 XX 0.003 0.005 U 0.3 U 0.005 U 3.2 0.0006 U 4.4 3.07 1.7 0.15 4/22/2013 XX GWPW\$35HE 0.003 U 0.005 U 0.4 0.005 U 3.9 0.0006 U 4.9 1.42 1.8 0.05 GWPWS363J 7/29/2013 XX 0.005 3.9 0.005 U 1.1 5.6 0.0006 U 13.3 11.4 0.51 10/28/2013 XX GWPW\$366C 0.005 U 0.5 0.006 4.5 0.0006 U 6.2 1.53 2.3 0.09 SW-1 5/3/2004 XX SWXX1X018 2.6 0.006 6.3 0.23 1.99 0.03 J 8.1 7/27/2004 XX SWXX1X04E 2 0.006 7.3 3.3 2.4 0.75 4.4 XX SWXX1X069 10/26/2004 1.7 0.005 4.6 4.8 0.63 1.77 0.06 XX SWXX1X12A 5/10/2005 0.002 U 0.2 J 0.002 J D 0002 U 3.1 0.02 U 0.01 U 6.8 0.21 1.19 XX SWXX1X15I 5 24 7/28/2005 0 001 J 0.002 J2.4 0.004 6.4 0 0002 U 6.8 0.4 SWXX1X18G 9/20/2005 XX 0.001 J 0.004 J5 0.001 J 5.4 0.0002 U 11 3.5 29 0.23 XX SWXX1X1DB 1.4 0.004 25 0.56 5/24/2006 0.002 J 0.003 J8.4 0.0003 J 4.5 0.04 J 7/26/2006 XX SWXX1X1G8 0.003 0.002 U 0.5 0.007 4.1 0.0002 U 7.6 2.5 2.3 0.33 7/26/2006 XD \$WDP2X1GE 0.002 J 0.002 U 0.6 0.007 4.2 7.6 2.3 2.3 0.32 0.0002 U 9/13/2006 XX SWXX1X1J1 0.002 J 0.002 J2.7 0.001 J 10.6 0.0002 U 48 1.16 8.7 0.16 XX SWXX1X228 0.004 0.72 2.3 5/15/2007 0.002 J0.5 6.5 0.0002 U 8.4 0.05 0.002 J5/15/2007 XD SWDP2X22E 0.002 J 0.002 U 0.5 0.004 7.1 0.0003 J 9.2 0.74 2.6 0.04 J 7/24/2007: XD SWIDP2X26I 0.002 J0.002 U 0.5 0.001 U 7.5 0.0003 J 10 1.18 2.7 0.03 J SWXX1X26C 7/24/2007; XX 0.002 U 0.001 J 7.6 10 1.16 2.7 0.003 06 0.0002 J 0.03 JSWXX1X292 9/11/2007 XX 0.001 J 0.003 J1 0.001 J 6.2 0.0004 J 11 1.27 2.7 0.06 5/21/2008 XD SWDP2X2D2 0.003 J 2.3 0.003 U 0.003 U 06 6.8 0.001 U 8.5 1.96 0.09 5/21/2008 XX SWXX1X2CG 0 003 U 0.003 U 0.6 0.003 J 6.7 0.001 U 8.6 1.97 2.3 01 7/29/2008 XX SWXX1X2G0 T 10/28/2008 XX SWXX1X2IA 0.002 U 0 002 U 0.57 0.01 U 0.4 3.8 0.0005 J 6.9 2.1 0.03 J 4/14/2009 XX SWXX1X31 0.0001 U 0.002 U 0.8 0 002 U 7.1 0.00002 U 9.4 0.1 2.2 0.02 U 7/7/2009 XX SWXX1X362 0.0001 U 0.002 U 0.1 J 0 002 U 5.3 0.00002 U 5.4 1.31 1.7 0.1

| REPORT PRE | EPARED: 2/11/2014 FOR: Juniper F | | | | | | | IARY REPO | | | | | | 4 BLANC | MAHER EN | GINEERS, INC.) ER. ME 04021 |
|---------------|-------------------------------------|----------------|----------------|-------------------|-----------------|----------------|-----------------|-----------------|--------------|-------------------|-------------------|-------------|----------|---|---------------|------------------------------------|
| (SW-1) | | Copper mg/L | Nickel mg/L | Potassium mg/L | Arsenic mg/L | Sodium mg/L | Cadmium mg/L | Calcium mg/L | [ron mg/L | Magnesium mg/L | Manganese mg/L | | | COMBLI | CHI CLI | EIX, INC. U-VZI |
| Date Typ | pe Sample ID | | | | | | | | | | | | | | | |
| 10/27/2009 XX | X SWXX1X3DH | 0.0001 U | 0.002 U | 0.2 J | 0.002 U | 3.6 | 0.00002 U | 3.9 | 0.35 | 1.4 | 0.02 J | ., | | | [<u>.</u> | |
| 4/28/2010 X | | 0.0001 J | 0.002 U | 0.5 | 0.002 U | 5.3 | 0.00003 J | 6.9 | 0.56 | 2.1 | 0.05 | | | . | | \ |
| 7/20/2010 X | | 0.0075 | 0.01 | 2.9 | 0.008 | 8.4 | 0.00002 Lt | 33.7 | 19.4 | 10.7 | 0.49 | | | | | - + |
| 10/19/2010 XX | | 0.0001 U | 0.002 U | 0.2 J | 0.002 U | 5.4 | 0.00002 U | 6.4 | 0.4 | 2.1 | 0.02 U | | | | | |
| 4/26/2011 X | | 0.0001 U | 0.004 J | 0.5 | 0.005 | 5 | 0.00002 U | 5.4 | 0.32 | 1.7 | 0.02 U | 1 | | | | |
| 7/19/2011 XX | | 0.0001 U | 0.005 | 1.5 | 0.009 | 8.4 | 0.00002 U | 25.2 | 10.9 | 7.4 | 1.1 | ! | | | | _ |
| 10/25/2011 XX | | 0.0001 U | 0.002 U | 0.3 | 0.002 U | 4.5 | 0.00002 J | 7.5 | D.53 | 2 | 0.02 J | 1 | | | | + |
| 4/24/2012 XX | | 0.0003 U | 0.005 U | 1 | 0.005 U | 5.1 | 0 000006 U | 5.4 | 0.23 | 1.8 | 0.05 U | 1 | | | <u> </u> | - |
| 7/24/2012 XX | | 0.0003 U | 0.005 U | 0.8 | 0.01 | 5 | 0.00006 U | 10.6 | 2.32 | 3.6 | 0.25 | ł | | | <u>i</u> : | - |
| 10/23/2012 XX | | 0.0027 | 0.005 U | 1.1 | 0.005 U | 4.1 | 0.00019 | 11.6 | 0.3 | 2.6 | 0.05 | · · | | | : | |
| 4/23/2013 XX | | 0.0003 U | 0.005 U | 1 | 0.005 U | 6.3 | 0.00006 U | 5.2 | 0.24 | 1.9 | 0.05 U | | | - · · · · · · · · · · · · · · · · · · · | | |
| 7/30/2013 XX | | | 0.005 U | 0.4 | 0.005 U | 3.6 | 0.00006 | 9.6 7.2 | 2.92 0.57 | 3.2 | 0.12 0.05 U | | | | | |
| 10/29/2013 XX | X SWXX1X667 | _1 | 0.005 U | 0.4 | 0.005 U | 4.3 | 0.00006 U | 1.2 | 0.57 | 2.1 | : 0.050 | <u> </u> | | l | L | ı |
| SW-2 | | | | | | | | | | | | | | | | |
| 5/3/2004 XX | X SWXX2X019 | | | 0.9 | 0.004 | 7.3 | 1 | 5.4 | 0.39 | 1.4 | 0.08 | | | | | |
| 7/27/2004 X | X SWXX2X04F | 1 | | 0.5 | 0.004 | 4.9 | | 7 1 | 0.78 | 23 | 0.05 | | | | | |
| 7/27/2004 XI | D SWOP2X050 | | | 0.7 | 0.005 | 4.9 | | 68 | 0.77 | 2 4 | 0.07 | | | | | |
| 10/26/2004 XX | X SWXX2X06A | | | 0.4 | 0.001 J | 6.1 | | 4.7 | 0.37 | 19 | 0.03 J | | | | | |
| 5/10/2005 XX | X SWXX2X12B | 0.01 J | 0.002 U | 0.3 | 0.002 J | 7.5 | 0.0002 U | 32 | 0.2 | 1.33 | 0.02 U | | | | | |
| 5/10/2005 XI | D SWDP2X12G | 0.01 U | 0.002 U | 0.3 | 0.003 J | 7.6 | 0.0002 U | 3.1 | 0.21 | 1.32 | 0.02 U | | | | L | |
| 7/28/2005 X | X SWXX2X15J | 0.001 U | 0.002 U | 0.6 | 0.001 U | 4.2 | 0.0002 U | 5.3 | 0.47 | 2 | 0.07 | | | | | |
| 9/20/2005 XX | X SWXX2X18H | 0.003 | 0.002 U | 0.3 | 0.007 | 4.6 | 0.0002 U | 5.8 | 0.75 | 1.92 | 0.08 | | | | 1 | |
| 5/24/2006 X0 | D SWIDP2X1DH | 0.001 J | 0.002 U | 0.4 | 0.001 U | 7.2 | 0.0002 U | 5.5 | 0.27 | 1.6 | 0.02 J | <u> </u> | . | | | |
| 5/24/2006 X | X SWXX2X1DC | 0.001 J | 0.002 U | 0.3 | 0.003 J | 7.1 | 0.0002 U | 5.4 | 0.28 | 1.61 | 0.02 J | | | 1 | | |
| 7/26/2006 X | X SWXXZX1G9 | 0.002 J | 0.002 U | 0.5 | 0.007 | 3.9 | 0.0002 U | 5.5 | 2.5 | 1.94 | 0.18 | | | i | _ | |
| 9/13/2006 XI | | 0.001 U | 0.002 U | 0.4 | 0.001 U | 5 | 0.0002 U | 4.5 | 1.64 | 2.8 | 0.18 | | | 1 | _ | |
| 9/13/2006 XX | X SWXX2X1J2 | 0.001 U | 0.002 J | 0.3 | 0.001 J | 4.9 | 0.0002 U | 4.5 | 1.63 | 2.8 | 0.17 | | | | | |
| 5/15/2007 XX | | 0.002 J | 0.003 J | 0.3 | 0.002 J | 6.4 | 0.0002 U | 5 | 0.68 | 1.71 | 0.05 | | | <u> </u> | _ | |
| 7/24/2007 XX | X SWXX2X26D | 0.001 J | 0.002 U | 0.6 | 0.001 J | 6.9 | 0.0003 J | 10 | 1.26 | 2.4 | 0.12 | | | | | |
| 9/11/2007 X | D SWDP2X298 | 0.002 J | 0.002 U | 1.4 | 0.001 U | 5.3 | 0.0003 J | 10 | 1.28 | 2.6 | 0.2 | | | | L | |
| 9/11/2007 X | X SWXX2X293 | 0.001 J | 0.002 Ų | 1.4 | 0.001 J | 5.3 | 0.0004 J | 10 | 1.29 | 2.6 | 0,19 | | | | | |
| 5/21/2008 XX | X SWXX2X2CH | 0.003 U | 0.003 U | 0.8 | 0.003 J | 7 | 0.001 U | 5 | 1.51 | 1.8 | 0.09 | | | | | |
| 7/29/2008 X | | 0.001 U | 0.002 U | 0.6 | 0.002 U | 5.5 | 0.0002 U | 6.3 | 1.37 | 2.3 | 0.14 | | | ļ <u>-</u> . | l | |
| 10/28/200B X | | 0.01 U | 0.002 U | 0.3 | 0.002 U | 33 | 0.0002 U | 4.6 | 0.38 | 1.9 | 0.02 J | | | ļ | L | |
| 10/28/2006 XI | | 0.01 U | 0.002 U | 0.4 | 0.002 U | 3.4 | 0.0002 U | 4.7 | 0.41 | 1.9 | 0.03.) | | | | L | |
| 4/14/2009 X | | 0.0001 U | 0.002 U | 0.6 | 0.002 U | 5.7 | 0.00002 U | 2.8 | 0.37 | 1.1 | 0.04 J | | | | | |
| 7/7/2009 X | | 0.0001 U | 0.002 U | 0.1 U | 0.004 J | 5.2 | 0.00003 J | 4.2 | 0.68 | 1.5 | 0.06 | | | | | <u> </u> |
| 7/7/2009 XI | | 0.0001 U | 0.002 U | 0.1 J | 0.002 J | 4.8 | 0.00004 J | 4.1 | 0.76 | 1.5 | 0.06 | | | | | |
| 10/27/2009 X | | 0.0024 | 0.006 | 0.3 | 0.002 U | 3.5 | 0.00002 U | 7 | 0.14 | 2.1 | 0.02 U | | | <u> </u> | | |
| 4/28/2010 XI | | 0.0001 U | 0.002 U | 0.5 | 0.005 | 5.4 | 0.00002 U | 46 | 0.32 | 1.7 | 0.04 J | | | | | <u> </u> |
| 4/28/2010 X | | 0.0001 U | 0.002 U | 0.5 | 0.003 J | 5.3 | 0.00002 J | 4.5 | 0,31 | 1,7 | 0 04 J | | | _ | | |
| 7/20/2010 XI | | 0.0001 J | 0.002 U | 0.5 | 0.002 J | 4.1 | 0.00002 U | 57 | 0.67 | 2.1 | 0.06 | ļ | | | <u> </u> | |
| 7/20/2010 X | | 0.0001 J | 0.002 U | 0.6 | 0.002 J | 4.1 | 0.00002 U | 59 | 0.68 | 2.1 | 0.06 | | | | <u> </u> | Ì |
| 10/19/2010 XI | | 0.0001 U | 0.002 U | 0.1 J | 0.002 U | 5.5 | 0.00002 U | 5.7 | 0.44 | 2 | 0.02 J | | | 1 | | |
| 10/19/2010 X | | 0.0001 U | 0.002 U | 0.1 J | 0.002 U | 5.6 | 0.00002 U | 5.8 | 0.44 | 2.1 | 0.02 J | <u> </u> | | | | |
| | X SWXX2X496 | 0.0001 U | 0.003 J | 0.4 | 0 006 | 5.7 | 0.00002 U | 3.8 | 0.17 | 1.4 | 0.02 U | | | | ļ | |
| 4/26/2011 X | | 0.0001 U | 0.002 J | 0.3 | 0.006 | 5.4 | 0.00002 U | 3.6 | 0.17 | 1.3 | 0.02 U | ļ | | | <u> </u> | |
| 7/19/2011 X | | 0.0001 U | 0.003 J | 0.6 | 0.002 U | 4.4 | 0.00002 U | B.2 | 1.17 | 2.7 | 0.03 J | i | | <u> </u> | <u> </u> | |
| 7/19/2011 XI | D SWDP2X4D9 | 0.0001 U | 0.003 J | 0.6 | 0.002 J | 4.2 | 0.00002 U | 7.5 | 1 23 | 2.6 | 0.03 J | 1 | | L | 1 | |

| REPORT PRE | PARED: 2/11/2014 FOR: Juniper R | | | | | | | MARY REPO | | | | | | 4 BLANC | of 26 MAHER ENG CHARD ROAD RLAND CENTE | |
|---------------|------------------------------------|----------------|----------------|-------------------|-----------------|----------------|-----------------|-----------------|------|-------------------|-------------------|--------------|-----------------|----------|---|-------------|
| (SW-2) | | Copper mg/L | Nickel mg/L | Potassium mg/L | Arsenic mg/L | Sodium mg/L | Cadmium mg/L | Calcium mg/L | Iron | Magnesium mg/L | Manganese mg/L | | | | | |
| Date Typ | e Sample ID | | | | | | | | | | | | | | | |
| 10/25/2011 XX | SWXX2X4GJ | 0.0001 U | 0.002 U | 0.2 J | 0.002 U | 4.8 | 0.00002 U | 5.3 | 0.32 | 1.7 | 0.02 U | | | | | |
| 10/25/2011 XD | SWDP2X4H4 | 0.0001 U | 0.002 U | 0.2 J | 0.002 U | 4.9 | 0.00002 U | 5.4 | 0.31 | 1.8 | 0.02 U | | | | | |
| 4/24/2012 XD | + | 0.0003 U | 0.005 U | 1.2 | 0.005 U | 11.3 | 0.00006 U | 6.3 | 0.27 | 2.5 | 0.05 U | | | | | |
| 4/24/2012 XX | | 0.0003 U | 0.005 U | 1.2 | 0.005 U | 11.1 | 0.00006 U | 6.1 | 0.26 | 2.5 | 0.05 U | | | | | |
| 7/24/2012 XX | · · · · · — | 0.0004 | 0.005 U | 0.3 | 0.005 U | 4.1 | 0.00007 | 6.1 | 1.41 | 2.5 | 0.09 | | | | | |
| 10/23/2012 XX | | 0.0011 | 0.005 U | 0.9 | 0.005 U | 2.9 | 0.0002 | 3.9 | 0.31 | 1.6 | 0.05 U | | | | | |
| 10/23/2012 XD | | 0.001 | 0.005 U | 0.9 | 0.005 U | 2.8 | 0.00017 | 4 | 0.34 | 1.6 | 0.05 U | | | | | |
| 4/23/2013 XD | | 0.0003 U | 0.005 U | 1.1 | 0.005 | 6.4 | 0.00006 U | 4.1 | 0.16 | 1.8 | 0.05 U | | | . | | |
| 4/23/2013 XX | SWXX2X5HA | 0.0003 U | 0.005 U | 1.2 | 0.005 U | 6.7 | 0.00006 U | 4.2 | 0.2 | 1.8 | 0.05 U | L | | | | |
| 7/30/2013 XX | SWXX2X83F | | 0.005 U | 0.3 U | 0,005 U | 3.2 | 0.00006 | B,6 | 1.1 | 2.3 | 0 05 | | | | | |
| 10/29/2013 XX | SWXX2XB68 | ! | 0.005 U | 0.3 | 0.005 U | 4.2 | 0.00006 U | 5.3 | 0.32 | 2.2 | 0.05 U | | | | <u> </u> | |
| 10/29/2013 XD | SWDP2X86D | | 0.005 Ų | 0.3 | 0.005 U | 3.8 | 0.000006 U | 5 | 0.32 | 2.1 | 0.05 U | | | | | |
| SW-3 | | | | | | | | | | | | | | | | |
| 5/3/2004 XX | SWXX3X01A | 1 | | 1.1 | 0.004 | 6.3 | Τ | 5.2 | 0.53 | 1.45 | D.18 | | | "] | | |
| 5/3/2004 XD | | | | 1.1 | 0.002 J | 6.6 | | 4.7 | 0.57 | 1.43 | 0.19 | | · · · · · · | Т | | |
| 7/27/2004 XX | SWXX3X04G | | | 0.9 | 0.003 J | 5 | | 10 | 3.5 | 2.7 | 0.42 | | | | | |
| 10/26/2004 XX | SWXXXX06B | | | 1.6 | 0.001 J | 3.6 | | 5 | 1.7 | 1.89 | 0.25 | 1 | | | | |
| 10/26/2004 XD | SWDP2X06F | | | 1.6 | 0.002 J | 3.6 | | 5.1 | 1.68 | 1.89 | 0.25 | | | - | | 1 |
| 5/10/2005 XX | SWXX3X12C | 0.01 U | 0.002 U | 0.4 | 0.003 J | 4.9 | 0.0002 U | 3.2 | 0.3 | 0.97 | 0.02 J | | | | | 1 |
| 7/28/2005 XD | | 0.001 J | 0.002 U | 1 | 0.001 J | 5.3 | 0.0002 U | 6.4 | 1.95 | 1.9 | D.25 | T | | | | |
| 7/28/2005 XX | | 0.001 J | 0.002 U | 1 | 0.002 J | 5.2 | 0.0002 U | 6.2 | 1.97 | 2 | 0.26 | | | 1 | | |
| 9/20/2005 XD | \$WDP2X192 | 0.002 J | 0.002 U | 1.2 | 0.002 J | 4.3 | 0.0002 U | 8.1 | 1 82 | 1.82 | 0.17 | | | | | |
| 9/20/2005 XX | SWXX3X18I | 0.003 | 0.002 U | 1.4 | 0.003 J | 4 | 0.0002 U | 7.8 | 1.78 | 1.8 | 0.17 | | | | | T |
| 5/24/2006 XX | SWXX3X1DD | 0.001 U | 0.002 U | 0.8 | 0.001 U | 51 | 0.0002 U | 5.6 | 0.54 | 1.24 | 0.07 | | | | | 7 |
| 7/26/2006 XX | SWXX3X1GA | 0.002 J | 0.002 U | 0.6 | 0.003 J | 3.2 | 0.0002 U | 5.9 | 1.36 | 1.44 | 0.17 | | | | T | -[- |
| 9/13/2006 XX | SWXX3X1J3 | 0.001 U | 0.002 U | 0.7 | 0.001 J | 4.4 | 0.0002 U | 5.2 | 1.53 | 2 | 0.12 | | | | T | |
| 5/15/2007 XX | SWXX3X22A | 0.003 | 0.002 J | 0.8 | 0.002 J | 2.9 | 0,0002 ປ | 6.3 | 0.69 | 1.65 | 0.17 | | | | T | · · |
| 7/24/2007 XX | SWXX3X2BE | 0.001 J | 0.002 U | 0.7 | 0.002 J | 5 | 0.0003 J | 10 | 1 75 | 2.1 | 0.23 | | · | | | 7 |
| 9/11/2007 XX | SWXX3X294 | 0.001 U | 0.002 U | 1.5 | 0.001 U | 5.2 | 0 0002 J | 11 | 1.3 | 2.3 | 0.2 | | | | | T |
| 5/21/2008 XX | SWXX3X2CI | 0.003 U | 0.003 J | 0.6 | 0.003 U | 5.8 | 0.001 U | 7.3 | 0.99 | 2.1 | 0.2 | T | · · | | | T |
| 7/29/2008 XX | SWXX3X2G2 | 0.001 U | 0.002 U | 0.4 | 0.002 U | 4.8 | 0.0002 U | 9 | 1.12 | 2.4 | 0.06 | | | | | \top |
| 10/28/2008 XX | SWXX3X2IC | 0.01 U | 0.002 U | 0.5 | 0.002 U | 3.8 | 0.0002 U | 6.6 | 0.48 | 1.9 | 0.02 J | | | | | |
| 4/14/2009 XX | SWXX3X320 | 0.0001 U | 0.002 U | 0.5 | 0.002 J | 6.3 | 0.00005 J | 3.8 | 0.2 | 1.2 | 0.02 U | | | | T | |
| 7/7/2009 XX | \$WXX3X3B4 | 0.0001 U | 0.002 U | 0.2 J | 0.002 U | 3.9 | 0.00002 U | Б | 1.14 | 1.5 | 0.07 | | | | | |
| 10/27/2009 XX | SWXX3X3DJ | 0.0001 U | 0.002 U | 0.4 | 0.002 U | 2.9 | 0.00002 U | 4.1 | 0.39 | 1.2 | 0.02 J | | | T | | 7 |
| 4/28/2010 XX | | 0.0001 U | 0.002 U | 0.5 | 0.002 U | 4.9 | 0.00002 U | 6.4 | 0.6 | 1.7 | Q,OB | | | | | T |
| 7/20/2010 XX | | D.QDQ1 J | 0.002 U | D,4 | 0.004 J | 3.6 | 0.00002 U | 11.2 | 1.34 | 27 | 0.28 | T | | 1 | | 1 |
| 10/19/2010 XX | | 0.0001 U | 0.002 U | 0.4 | 0.002 U | 4.4 | 0.00002 U | 7.8 | 0.28 | 1.9 | 0.02 U | <u>'</u> | | | | T |
| 4/26/2011 XX | | 0.0001 U | 0.003 J | 0.4 | 0.003 J | 5.5 | 0.00002 U | 4.7 | 0.21 | 1.3 | 0.02 J | †·· | | <u> </u> | 1 | |
| 7/19/2011 XX | | 0.0001 U | 0.003 J | 0.2 J | 0.003 J | 4.3 | 0.00002 U | 10.1 | 1.03 | 26 | 0.21 | † | | | | 1 |
| 10/25/2011 XX | | 0.0001 U | 0.002 U | D.4 | 0.002 U | 4.1 | 0.00002 U | 6.8 | 0.54 | 1.7 | 0 03 J | † · | | | 1 | T |
| 4/24/2012 XX | | 0.0003 U | 0.005 U | 0.7 | 0.005 U | 2.9 | 0.00006 U | 4.3 | 0.26 | 12 | 0.05 U | 1 | | | | T |
| 7/24/2012 XD | · | 0.0003 U | 0.005 U | 0.5 | 0.005 U | 5.2 | 0 0000e U | 7.5 | 1.17 | 3 | 0.42 | ļ | : | | 1 | 1 |
| 7/24/2012 XX | | 0.0003 U | 0.005 U | 0.5 | 0.005 | 5.4 | 0 00000e U | 10.1 | 1,34 | 3 | 0.46 | <u> </u> | | T | T | |
| 10/23/2012 XX | | 0.0003 U | 0.005 U | 0.7 | 0.005 U | 2.4 | 0.00006 U | 4.3 | 0.36 | 1.2 | 0.05 U | 1 | | | | |
| 4/23/2013 XX | | 0.0003 U | 0.005 U | 0.7 | 0.005 U | 4.7 | U 900000 U | 4.8 | 0.17 | 1.6 | 0.05 U | | | 1 | | |
| 7/30/2013 XX | · | 5.5300 0 | D.005 U | 0.3 Ų | 0.005 (J | 3.1 | 0.00006 U | 8.4 | 0.8 | 2.2 | 0.07 | 1 | | 1 | 1 | + |
| 7/30/2013 XD | · | + | 0.005 U | 0.3 U | 0.005 U | 3.1 | 0.00006 U | 8.6 | 0.79 | 2.2 | 0.07 | † | | | + | |
| | | | | | | 4.5 | 0.00006 U | 7.5 | | 2.6 | 0.05 | 1 | | | | + |
| 10/29/2013 XX | 9447030004 | | 0.005 U | 0.5 | 0.005 U | 14.5 | 1 0.00000 0 | 1 7.5 | 0.46 | 2.0 | | .1 | l | . 1 | l | |

Page 25 of 26 REPORT PREPARED: 2/11/2014 12:52 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Metal (part 1 of 1) 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** (SW-DP1) Copper Nickel Potassium Arsenic Sodium Cadmium Calcium Iron Magnesium Manganese mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Date Type Sample ID SW-DP1 5/3/2004 XX SWDP1X01H 25 0.003 J 17 34 0.11 5.9 0.06 XX SWDP1X053 7/27/2004 19 0.003 J 25 40 0.2 7.6 0.03 J10/26/2004 XX SWDP1X06H 4.7 0.004 6.3 32 0.05 J 6.5 0.02 J5/10/2005 XX (8WDP1X12) 0.01 U 0.003 J 3.7 0.003 J 3.7 0.0002 U 13 0.85 2.2 0.06 7/28/2005 XX SWDP1X166 0.001 J 0.002 U 2.7 0.001 U 3.1 0.0002 U 15 0.72 2.8 0.09 SWDP1X194 9/20/2005 XX 0.001 U 0.002 J 3.7 0.003 J 4.5 0.0005 J29 1.37 2.9 0.12 SWOP1X10J 5/24/2006 XX 0.001 J 0.002 J 3.8 0.004 6.7 0.0002 J 33 0.37 4 0.19 7/26/2006 XX SWDP1X1GG 0.003 0.003 J 0.012 3.1 9 0.0002 J27 1.4 4.1 0.88 9/13/2006 XX SWDP1X1J9 0.001 U 0.002 U 2.6 0.001 J 5.3 0.64 0.0002 U 24 4.4 0.05 XX SWDP1X22G 5/15/2007 0.003 0.002 J2.8 0.002 J 6.5 0.0002 J 28 0.18 4.4 0.03 J7/24/2007 XX SWDP1X270 0.012 0.002 U 2.1 0.002 J4.2 0.0004 J18 0.38 2.5 0.09 9/11/2007 XX SWDP1X29A 0.001 U 0.002 U 1.7 0.001 U 3.3 0.0008 14 0.1 1.8 0.02 JXX SWDP1X2D4 5/21/2008 0.003 U 0.003 U 1.2 0.003 U 6.6 0.001 U 17.2 0.26 4.9 0.05 XX SWDP1X2G8 7/29/2008 0.001 J 0.002 U 1.5 0.002 U 3.5 0.0002 U 12.1 0.18 1.9 0.02 J 10/28/2008 XX SWDP1X2II 0.002 U 1.B 0.002 U 0.01 U 4,4 0.0002 J 20.7 0.49 4 0.04 J 4/14/2009 XX SWDP1X326 0.0019 0.002 U 1.9 0.002 U 5.6 0.00002 U 26.9 0.36 4.7 0.08 7/7/2009 XX SWDP1X36A 0.0001 U 0.002 U 0.002 U 1.1 2.6 0.00002 U 15.9 0.14 2 0.04 J SWDP1X3E5 10/27/2009 XX 0.0022 0.002 U 1.8 0.002 U 0.00002 U 2.9 17.7 0.33 1.9 0.02 J SWDP1X3J4 4/28/2010 XX 1.7 0.0001 J 0.002 U 0.002 U 5.4 0 00002 U 3.3 22.4 0.1 0.06 7/20/2010 XX SWDP1X428 0.0001 J 0.002 U 0.002 U 0.4 2.3 0.00002 U 12.5 0.18 1.6 0.05 10/19/2010 XX SWDP1X45C 0.0001 U 0.002 U 0.002 U 1.4 2.8 0.00002 U 15.9 0.15 $0.02 \, J$ 1.4 XX SWDP1X49D 4/26/2011 0.0001 U 0.003 J 1.4 0.005 3.1 0.00002 U 0.16 15.5 2.5 0.03 JXX SWDP1X4DB 7/19/2011 0.0001 U 0.002 U 1.7 0.009 3 0.00002 U 21.8 0.06 2.8 0.09 10/25/2011 XX SWDP1X4H6 0.016 0.002 U 1.5 0.002 U 1.9 0.00002 U 15.5 0.25 1.9 0.03 J4/24/2012 XX SWDP1X51G 0.0003 U 0.005 1.9 0.005 U 2.1 0.00006 U 13.9 2.94 2.3 0.13 XX SWDP1X56F 7/24/2012 0.0003 U 0.005 U 2.4 0.005 3.6 0.00006 U 20.6 0.17 4.2 0.11 XX SWIDP1X5D6 10/23/2012 0.0082 0.005 U 0.005 U 1.3 1.2 0.00016 10.4 1.93 1.4 0.21 SWDP1X5HH 4/23/2013 XX 0.0003 U 0.005 U 2.7 0.005 4.9 0.00006 U 27.8 0.42 3.4 0.13 XX SWDP1X642 7/30/2013 0.005 U 0.007 1.4 0.9 0.00006 11 0.27 1.1 0.1 XX SWDP1X66F 10/29/2013 0.005 U 1.8 0.005 3.5 0.00006 U 24.2 0.243,6 0.21 SW-DP5 4/23/2013 XX SWDP5X60I 0.0003 U 0.005 U 0.005 U 1.9 4.7 0.00006 U 22.4 0.32 1.8 0.06 XX SWDP5X65H 7/30/2013 0.005 U 0.006 1.9 0.00007 14.4 0.33 0.8 0.05 U 10/29/2013 XX SWDP5X686 D Ð D D D Ď SW-DP6 10/27/2009 XX SWDP6X3G8 0 005 0.003 J2.1 0.002 J2.2 2.5 0.00002 U 11.3 3.05 0.074/28/2010 XX SWIDP6X3J5 0.0018 0.002 U 1.5 0.011 63 0.00002 J 29.8 1.52 3.8 0 96 7/20/2010 XX SWDP6X429 0.0001 U 0.002 U 2.9 0.006 6.7 0.00002 U 3.5 31 1.02 0.36 SWDP6X45D 10/19/2010 XX 0.0001 U 0.002 U 2.3 0.002 U 3.4 0 00002 U 24.6 0.42 25 0.08 4/26/2011 XX SWDP6X49E 0.0001 U 0.003 J19 0 003 J 6.4 0 00002 U 191 0.28 1.9 0.06 SWDP6X4DC 7/19/2011 XX 0.0001 U 0.002 U 32 0.009 7.5 0 000002 U 633 0.12 7.3 0.09 ХX SWDP6X4H7 10/25/2011 0.0022 0.002 U 24 0 002 U 6 0 00002 U 39 4 0.17 4 0.06 4/24/2012 XX SWDP6X51H 0.0003 U 0.005 U 16 0.005 U 3.8 0 00006 U 14.1 01 1.9 0.05 U SWDP6X56G 7/24/2012 XX 0.0003 U 3.4 0 005 U 0.006 2.2 0 00006 U 11 1.32 2.5 0.79 10/23/2012 XX SWDP6X5D7 0.006 0.005 1.9 0.005 U 1.4 0 00006 U 2.63 6.6 1.9 0.16 SW/DP6X5HI 4/23/2013 XX 0.0003 U 0.005 U 1.6 0.005 U 3 0 00006 U 5.6 1.39 1.3 0.05 7/30/2013 XX SWDP6X643 0.005 U 1.1 0.005 U 0.00006 U 18 10.2 0.31 1.4 0.05

| REPORT PREPARED: 2/11/201 FOR: Juniper | | | | | | | IARY REPO | 1) | | | Page 26 of 26 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|---|----------------|----------------|-------------------|-----------------|----------------|-----------------|-----------------|--------------|-------------------|-------------------|---|
| (SW-DP6) | Copper mg/L | Nickel mg/L | Potassium mg/L | Arsenic mg/L | Sedium mg/L | Cadmium mg/L | Calcium mg/L | Iron mg/L | Magnesium mg/L | Manganese mg/L | |
| Date Type Sample ID | | | | | | | | | | | |
| 10/29/2013 XX SW0P6X66G | | 0.005 U | 1.1 | 0.005 U | 1.9 | 0.00006 U | 10.6 | 0.23 | 1.6 | 0.05 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.
- D The sampling location was dry.
- DE Decommissioned Location
- 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 below reporting limit.
- U Not Detected above the reported sample detection limit.

Page 1 of 5 SUMMARY REPORT REPORT PREPARED: 3/17/2014 09:50 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD VOA (part 1 of 4) CUMBERLAND CENTER, ME 04021 1,2-Dibromo-3-Bromodichloro Bromochlorome 1.2-Chloroethane Chlorobenzene Carbon Bromomethane Bromoform Benzene Dibromomethan Dibromochloro Chloromethane Chloroform (DP-4)Dichlorobenzen Dibromoethane Chloropropane Tetrachloride methane methane 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 це/L Date Type Sample ID DP-4 2 Ü 2 U 2 U 2 Ū 2 U 2 Ų 2 U 2 U 2 U 7/26/2004 XX GWXXXX041 2 U 2 U 2 U 2 U 2 U 2 U 2 Ú 2 U 2 U 2 U 2₩ 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 9/20/2005 XX GWXXXX1A4 2 U 2 U 2 U 2 U 2U20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/22/2006 XX GWXXXX1EJ 2U2U2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2U2 IJ 2 U 2 U XX GWXXXX23G 2 U 5/14/2007 2 U 2 U 2 U 2↓ 21 2 U 2U2 U 2 U 2 U 5/19/2008 XX GWXXXX2E4 2 U 2 U 2 U 2 Ų 2U2 U 1 U 1 Ų 1 U 1 U 1 U 1 U 1 U 1 U 1 Ų 1 U 1 U 1 U 10 1 U 4/13/2009 XX GWXXXX336 1 U 0.5 U 0.5 U 0.5 U 0.5 U 05 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 4/26/2010 XX GWXXXX404 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 0.5 U 0.5 U 0 5 U 0.5 U 0.5 U 0.5 U 0.5 Ų 05U GWXXXX4AD 0.5 U 0.5 U 4/25/2011 XX 05 U 1 Ų 1 U 1 Ų 1 U 10 1 U 1 U 2 U 1 U 1 U 4/25/2012 XX GWXXXX52G 1 U 1 U 1 U 1 U 1 U 1 U 10 1 U 1 Џ 1 U 1 U 2 Ų 1 U 1 U 1 U 1 U 1 U 1 Ų 1 U 4/24/2013 XX GWXXXXSIH 1 U LF-COMP 1 U 1 U 1 U 1 Ų 2 U 1 U 1 U 1 U 1 Ų 1 U 1 U 1Ü 1 U 1 U 4/24/2012 XX LFXXXX53B 1 U LF-UD-1 2 U 2 U 211 2 U 2 U 2 U 2 U 2 U 2 Ų 7/28/2004 XX LFUD1X05E 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 Ú 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U LFUD1X19D 2 U 2 Ų 2 U XX 9/21/2005 2 U 2 Ű 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/24/2006 XX LFUD1X1E8 2 U ŹÜ 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 5/16/2007 XX LFUD1X235 2 U 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX LFUD1X200 2 U 2 U 1 U 1 U 1 U 10 1 IJ 1 U 1 U 10 1 U XX LFUD1X32F 1 U 1 U 1 U 1 Ų 1 U 4/15/2009 1 U 0.5 U 05 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFUD1X3JD 0.5 U 0.5 U 0.5 U0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 050 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U D.5 U 4/26/2011 XX LFUD1X4A2 0.5 U 0.5 U H2 H2 H2 H2 H2 H2 **H**2 H2 **H**2 4/24/2012 XX LFUD1X525 H2 H2 H2 H2 H2 H2١Ų 10 1 U 1 Ų 10 2 U 1 U 1 Ų 10 1 Ų 1 U 1 U 1 U 1 U 4/23/2013 XX LFUD1X566 1 U LF-UD-2 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 7/28/2004 XX LFUD2X05F 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 9/21/2005 XX LFUD2X19E 2 U 2 U 2 U 2 U 2 U 2 U 2 Ü 2 U 2 U 2 U 2 Ų 2 Ų 5/24/2006 XX LFUD2X1E9 2 U 2 U 2 U 2 U 2U 2 U 2 U 2 U ŹÜ 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U2 U 2 Ų LFUD2X236 2 U 5/16/2007 XX 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX LFUD2X2DE 2 Ų 2 U 2 U 2 U 1 U 1 U 1 1 1 U 1 U 1 U 1 U 10 1 U 1 Ų 1 U 1 Ų 1 U 4/15/2009 XX LFUD2X32G 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFUD2X3JE 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 1 U 0.5 Q 0.5 U 050 0.5 U 0.5 U 4/26/2011 XX LFUD2X4A3 0.5 U 0.5 U 0.5 U 0.5 U H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 **H**2 4/24/2012 XX LFUD2X526 H2 H2 H2 H2 1 U 1 Ų 1 U 1 U 2 U 1 U 1 U 1 U 1 U 10 1 U 1 U 1 U 1 U 4/23/2013; XX LFUD2X517 1 U LF-UD-3A,B 2 U 2 U 2 U 2 U 2U2 1 2 U 2 U 5/16/2007 XX LFUD3X246 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX LFUD3X2EE 2 U 2 Ų 2 U 2 Ų 2 U 10 1 Ų 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 4/15/2009 XX LFXXXX33F 1 U 1 U 1 U 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0 5 U 0.5 U 4/27/2010 XX LFXXXX40C 0.5 U 0.5 U 0.5 U 05U 0.5 U 0.5 U 10 0.5 U 0.5 U 0.5 U a.5 U 05 U 0.5 U 0.5 U 4/26/2011; XX LFXXXX481 0.5 U 0.5 U H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 4/24/2012 XX LFXXXX534 H2 H2 H2 F6 F6 F6 F6 F6 F6 FB F6 **F**6 F6 F6 F6 F6 F6 4/23/2013 XX LFXXXX5J5 FĢ LF-UD-4 1 U 1 U 1 U 1 Ų 1 U 4/15/2009 XX LFXXXX34A 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/27/2010 XX LFXXXX40€ F6

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SUMMARY REPORT REPORT PREPARED: 3/17/2014 09:50 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD FOR: Juniper Ridge Landfill VOA (part 1 of 4) CUMBERLAND CENTER, ME 04021 1,2-1,2-Dibromo-3-Bromomethane Bromoform Bromodichloro Bromochlorome Benzene Carbon Dibromomethan Dibromochloro Chloromethane Chloroform Chloroethane Chlorobenzene Dichlorobenzen Dibromoethane Chloropropane (LF-UD-4) methane Tetrachloride niethanc Ç ug/L ug/L ug/Lug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L Date Type Sample ID F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 4/26/2011 XX LFXXXX4B3 F12 H2 H₂ H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 LFXXXX536 H2 H2 H2 4/24/2012 XX 1 U 10 1 Ų 1 U 1 U 10 1 U 1 U 2Ψ 1 U 1 U 1 U 1υ 10 1 U 4/23/2013 XX LFXXXX5J6 LF-UD-5and6 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U ١Ų 0.5 U 0.5 U 0.5 U 0.5 U 4/26/2011 XX LFXXXX4B4 0.5 U 0.5 U 0.5 U 1 U 1 U 1 U 1 Ų 10 1 U 1 U 1 U 10 1 Ų 2 U 10 1 U 1 U 4/24/2012 XX LFXXXX537 1 U 1 U 1 U 1 Ų 1 U 1 U 1 U 1 U 1 Ų 1 Ų 1 Ų 2 U 10 4/23/2013 XX LFXXXX5.17 1 U 1 U 1 U LF-UD-6 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U 050 0.5 U 4/26/2011 XX LFUD6X4B6 0.5 U 0.5 U 1 U 1 U 10 1 U 1 U 2 U 1 U 1 U 10 10 10 1 U 1 U 1 U 4/24/2012 XX LFUD6X539 10 1 U 1 U 1 U 1 U 11 2 U 1 U 1 U 1 U 1 U 4/23/2013 XX LFUD6X5J9 1 U 1υ 1 U 1 U 1 U LF-UD-7 H2 H2 H2 H2 **H**2 H2 H2 H2 H2 H2 H2 H2 H2 4/24/2012 XX LFUD7X53A H2 H2 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/23/2013 XX LFUD7X5JA F6 F6 F6 LF-UD-8 10 1 U 1 U 1 U 1 U 2 U 1 U 1υ 1 U 4/23/2013 XX LFUD8X5JD 1 U 1 U 1 U LP-UD-1 D D D D 0 0 Ð 0 D D D 7/28/2004 XX LPUD1X05G D D D D D D Ð D D D Ď 9/21/2005 XX LPUD1X19F ┰ D D D D D D D D D D 0 D Ď D D 5/24/2006 XX LPUD1X1EA D D D F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 5/16/2007 XX LPUD1X237 F6 F6 F6 F6 F6 F6 E6 F6 F6 F6 F6 F6 F6 F6 F6 5/20/2008 XX LPUD1X2DF F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/15/2009 XX LPUD1X32H F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/27/2010 XX LPUD1X3JF F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/26/2011 XX LPU01X4A4 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 F6 F6 4/23/2013 XX LPUD1X5I8 LP-UD-2 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 V 2 U 2 U 7/28/2004 XX LPUD2X05H 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U XX LPUD2X19G 2 U 2 U 2 U 2 U 2 U 2 U 9/21/2005 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 5/24/2006 XX LPUD2X1EB 2 U 2 U 2 U 2 U 2 U 2 U 2 U 21 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/16/2007 XX LPUD2X238 2↓ 2υ 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 5/20/2008 XX LPUD2X20G 2 U 2 U 2U2 U 1 U 1 U 1 U 1 U 1 U 1 Ų 10 1.0 1 Ų 111 1 U 4/15/2009 XX LPUD2X324 1 U 1 U 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 0.5 U 0.5 U 0.5 U 050 0.5 U LPUD2X3JG 0.5 U 0.5 U 0.5 U 4/27/2010 XX 0.5 U 0.5 U 0.5 Ų 0.5 U 0.5 U 05U 1 U 0.5 U 0.5 U 0.5 U 0.5 U0.5 U 0.5 U 0.5 U 4/26/2011 XX LPUD2X4A5 0.5 U 1 U 1 Ų 10 1 U 1 U 1 Ų 1 U 1 Ų 1 U 2 U 10 1.11 1 U 4/24/2012 XX LPUD2X528 1 U 1 U 1 U 1 U 1 U 10 1 U 1 Ų 1 Ų 1 U 2 U 1 U 1 U 1 U 1 U 4/23/2013 XX LPUD2X5I9 1 U 1 U MW-204 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 5/4/2004 XX GW204X008 2 Ų 2 U 2 U 2 U 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2.0 2 U XX GW204X03G 2 U 2 U 7/27/2004 2 U 2 U 2 U 2 Џ 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2U9/20/2005 XX GW204X1A0 2 U 2 U 2 U 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 20 XX GW204X1EF 2 U 2 U 2 U 2 U 2 U 5/23/2006 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U XX GW204X23C 2 U 2 U 2 U 5/14/2007 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U XX GW204X2E0 2 U 20 2 U 2 U 5/21/2008

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Page 3 of 5 SUMMARY REPORT REPORT PREPARED: 3/17/2014 09:50 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD FOR: Juniper Ridge Landfill VOA (part 1 of 4) CUMBERLAND CENTER, ME 04021 1,2-1.2-Dibromo-3-Bromomethane Bromoform Bromodichlorg Bromochlorome Benzene 1,2-Carbon Chloroform Chloroethane Chlorobenzene Dibromomethan Dibromochloro Chloromethane (MW-204)Dichlorobenzen Dibromoethane Chloropropane methane thane Tetrachloride methane С ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ${\rm ug}/{\bf L}$ ug/L ug/L ug/L ug/L ug/L ug/L Type Sample ID Date 1 U 1 U 1 U 1 U 1 Ų 111 1 U 1 U 1 U 1 U 1 U 1 [] 1 U 1 U 1 U 4/13/2009 XX GW204X332 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 050 0.5 U 0.5 U 1 U 0.5 U 4/28/2010 XX GW204X400 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 05U 0.5 U $0.5 \, \mathrm{U}$ 0.5 U GW204X4A9 0.5 U 0.5 U 0.5 U XX 4/26/2011 10 1 U 1 U 10 1 U 1 U 1 U 1 U 1 U 2 U XX GW204X52C 1 U 1 U 1 U 1 U 1 11 4/24/2012 1 U 1 U 1 U 10 1 U 1 U 1 U 10 1 U 1 U 1 U 2 U 1 U 1 U 4/24/2013 XX GW204X5ID 1 U MW-401B 2 U 2 Ų 2 U 2 U 2 U 2U2 U 2 U 2 U 2 Ų 2 U 2 U 2 Ų 7/29/2004 XX GW401B05A 2 U 20 2 U 2 U 2 U 2 U 2 **U** 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U XD GWDP4X05D 7/29/2004 2 Ų 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2U2 U 2 U XX |GW4018072 2 U 2 U 10/27/2004 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 9/21/2005 XX GW401B199 2 U 2 U 2 U 2 U 2 U 2 U 2 ₩ 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 9/21/2005| XD GWDP4X19C 2 U 2U2 U 2 U 2 U 2 Ų 2 Ų 2 U 2 U 20 2 U 2 U 2 U 2 U 5/23/2006 XX GW401B1E4 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2U2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 20 5/23/2006 XD GWDP4X1E7 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 ₩ 2 2 Ų 2 U 2 Ų 5/14/2007 XX GW4018231 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/14/2007 XD GWDP4X234 2U2 U 2 U 3 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX GW401B2D9 2 U 2 U 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XD GWDP4X2DC 2 U 2Ų 2 U 1 U 1 U 1 U 10 1 U 1 U 10 1 U 1 U 1 U 1 U 1 U 4/13/2009 XX GW401B32B 1 U 1 U 1 Ų 1 U 1 U 10 10 1 U 1 U 1 U 1 U 1 U 1 Ų 10 1 U GWDP4X32E 1 U 1 U 1 Ų 4/13/2009 ΧD 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U GW401B3J9 0.5 U 0.5 U 0.5 Ų 0.5 U 0.5 U0.5 UXX 0.5 U 4/27/2010 0.5 U Q.5 U 05U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 05 U 0.5 U 05 U 0.5 U GWDP4X3JC 05 U 0.5 U 05U 4/27/2010 XD 0.5 U 0 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U GW401B49I 05 U 0.5 U 0.5 U 05U 4/25/2011 XX 050 0.5 U 05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 05 U 0.5 U 0.5 U 1 U 0.5 U 4/25/2011 XD GWDP4X4A1 0.5 ↓ 0.5 U 1 U 1 U 1 U 1 U 1 Ü 2 U 10 1 U 1 U 10 GW401B521 1 U 1 U 1 U 1 U 4/23/2012 XX 10 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 10 1 U 2 U GWDP4X5Z4 1 U 1 U 1 U 4/23/2012 XD 1 U 1 Ų 1 U 1 U 10 1 U 10 1 U 2 U 1 U 1 U 1 U 1 U 4/22/2013 XX 1 U 10 GW401B512 1 U 1 Ų 1 U 1 Ü 1 U 1 U 1 U 2 U 1 U 1 U 4/22/2013 XD GWDP4X515 1 U 1 U 1 U ١U 10 1 U P-04-02 2 U 2 U 2 U 2 U 2 U 2 U 2U2 U 2 U 2 U 2 U 7/26/2004 XX GWXXXX042 2 Ú 2 U 2 U 2 U 2 U 2 U2 U 20 2 U 2 U 2υ 2 U 2 U 2 U 2 U 2 U 9/22/2005 XX GWXXXX1A5 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 5/22/2006 XX GWXXXX1F0 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 202 0 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/14/2007 XX GWXXXX23H 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/21/2008 XX GWXXXX2E5 2 U 2 U 2 U 2 U 2 U 1 U 1 U 1 Ų 1 U 10 1 U 1 Ų 1 U 1 U 1 U 1 U 1 U XX GWXXXX337 1 U 111 1 U 4/13/2009 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 1 U 0.5 U 0.5 U 0.5 U 4/26/2010 XX GWXXXX405 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 05 U 05 U 0.5 U 0.5 U 05 U ١U 0.5 U 0.5 U 0.5 U 05 U 0.5 U 4/27/2011 XX GWXXXX4AE 0.5 U 0.5 U 0.5 U 0.5 U 1 U 1 U 1 U 1∪ ١U 1 U 1 Ų 1 U 1 U 2 U 1 U 4/25/2012 XX GWXXXX52H 1 U 1 U 1 U 1 U ļ 4/22/2013 XX GWXXXX5II Ţ **QCBT** 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/4/2004 XX BTXXXX00H 2 U 2U2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 6/9/2004 XX BTXXXX035 2 U 2 U 20 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 7/26/2004 XX |BTXXXX046 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 20 2U2 Ų 2 U 2 U 10/27/2004 XX BTXXXXXX 2 U 2 U 2 U 2 U 2 U 2 U 2 U 20 2 Ų 2 U 2 U 2 U 2 U 2U1/17/2005 XX BTXXXX111 2 U 2 Ų 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 Ų 20 3/9/2005 XX BTXXXX11E 2 U 2 U 2 U 2 U 20 2 U 2 U 2 U 2 U 2 U 2 U 2 U 211 20 2 U 2U2 U 3/21/2005, XX BTXXXX142 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 5/11/2005 XX 6TXXXX121 2 U 2 U 2 U 2 U 2 ป 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 7/25/2005 XX 8TXXXX17G 2 U

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FOR: Juniper Ridge Landfill

SUMMARY REPORT VOA (part 1 of 4)

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

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| Date | Туре | Sample ID | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/I. | ug/L | ug/L | ug/L | ug/L | πē/F | цеД | ug/L | րջ/L |
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| 4/19/2006 | | BTXXXX1FE | 2U - | 20 | - 2U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 (| 2 U | 20 | 2 U | 2 U | 20 | 20 |
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| 7/7/200 | _ | втхххххзлн | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 10 | 10 | . <u>1 U</u> | 1 | 1 U |
| 10/28/200 | | BTXXXX3AJ | - 1 U | t U | 1 U | 1 U | 10 | 1 U | 1 0 | 1 U | 10 | 1 년 | 10 | 10 | . 10 | 10 | <u> </u> |
| 4/26/201 | | BTXXXX40A | 05U | 0.5 € | D.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 05U | 0.5 U | 0.5 U | 1 0.5.U |
| 4/27/201 | | BTXXXX40B | Q.5 U | 0.5 U | 0.5 บ | 0.5 U | 05 Ü | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 05U | 0.5 U | 0.5 U | 0.5 U |
| 4/28/201 | — | BTXXXXHG1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 050 | 0.5 U | 0.5 U | 10 | 0.5 U | 0.5 U | D.5 U | 0.5 U | 0.5 U | 0.5 U | 05U |
| 7/20/201 | io xx | BTXXXX43F | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 050 | 0.5 U | 0.5 U | 10 | 05U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 10/19/201 | 10 XX | BTXXXX46I | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | . O.5 U | 0.5 U | . <u>0.5 U</u> | .0.5 U | 0.5 U |
| 4/25/201 | 11 XX | BTXXXX4AJ | 0.5 U | 0.5 U | 0 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0,5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/26/201 | 11 XX | BTXXXX4B0 | 0.5 U | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0 5 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 <u>U</u> | 0.5 U | 0.5 U |
| 4/27/201 | 11 XX | BTXXXX4B5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | . 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 05U | 0.5 U | 0.5 U |
| 7/19/201 | I1 XX | BTXXXX4F3 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5.0 | <u>! 05U</u> | 0.5 U | 0.5 U |
| 10/26/201 | 11 XX | BTXXXX4G8 | 0.5 U | 0,5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 05U | . 0.5 U | . 0.5 U |
| 4/23/201 | 12 XX | BTXXXX532 | 1 ∪ | 1 U | 1 U | 10 | 1 U | 1 U | 10 | 2.0 | 1 U | 10 | 1U | 1 U _ | 10 | 10 | - · · · · · · · · · · · · · · · · · · · |
| 4/24/201 | 12 XX | BTXXXX533 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.0 | 2 U | 1 U | <u>_ 1 U</u> | 1 U | 10 | 1 U | 10 | 1 0 |
| 4/25/201 | 12 XX | BTXXXX538 | 1 U | 1 U | 1 U | 1 U | 1 U | . <u>1 U</u> | 1 | 2U | 1 U | <u> 1.U</u> | 1 U | 10 | 1U | 10_ | |
| 7/24/201 | 12 XX | BTXXXX585 | 1 U | 1 U | 1 U | 1.0 | 10 | 1 <u>U</u> | 1 U | <u>2U</u> | ! 1U | 1 Ų | 10 | 10 | 1 <u>U</u> | 10- | 1 U |
| 10/23/201 | 12 XX | BTXXXX5C8 | 1 U | 1 U | 1 U | 10 | 10 | 1 1 1 | 1 U | 20 | 10 | 1 U - | 1 U | 1 U | 1 | 10 | - <u>1</u> U |
| 4/22/201 | 13 XX | BTXXXX5J3 | 1 U | 1 🗸 | 10 | 10 | 10 | 1 U | 1 U | 2U | 10 | 1 U _ | 10 | 1 U | 1 U | 1 U | |
| 4/23/201 | 13 XX | BTXXXX5J4 | 1 U | 1 U | 10 | 10 | 10 | . j 1Ų | 10 | 2 U | 1 U | 1 U _ | 10 | 10 | 1 U | 1 U | $+-\frac{1}{1}\frac{0}{0}$ |
| 4/24/201 | 13 XX | BTXXXX5J8 | 1 U | . 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 2 | 1 U | 1 U | 10 | 10 | 1U | 1 0 - | |
| 7/30/201 | 13 XX | BTXXXX650 | 5 U | 0.5 U | 2.5 U | 0.75 U | 1 U | 0.5 U | 0.5 U | 10 | 2 U | 05U | 2.5 U | 0.5 U | 25U | | 2.50 |
| 10/29/201 | | 6TXXXX68C | 2 U | 2 U | 2 U | 2 U | 5 U | . <u>2 U</u> | 2 U | 2 U | 2 U | 0.5 U | 20 | 10 | 1 U | 2U | + |
| 10/29/201 | 13 XX | BTXXXX69H | | 20 | 5 U | 20 | 5 U | 2 U | 2 U | 2 U | 2 U | 2U | | 1 U | 10 | <u> </u> | |

| REPORT PREPAI | REO: 3/17/2014 FOR: Juniper R | | <u></u> | | | | | MARY REP | | | | | | 4 BLANC | f 5 MAHER ENGII CHARD ROAD RLAND CENTER | |
|---------------|----------------------------------|--------------------|--------------------------|---------------|------------|--------------|---------------|-------------------------|--------------|-----------|--------------------------|------------------------|---------|-----------------------------|--|---------------------------------|
| (QCBT) | | Dibromomethan e | Dibromochloro methane | Chloromethane | Chloroform | Chloroethane | Chlorobenzene | Carbon Tetrachloride | Bromomethane | Bromoform | Bromodichloro methane | Bromochlorome thane | Benzene | 1,2- Dichlorobenzen e | 1,2- Dibromoethane | 1,2-Dibromo-3- Chloropropane |
| Date Type | Sample ID | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ц g /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:

- ! The sampling location was damaged or destroyed.
- 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
- U Not Detected above the reported sample detection limit.

Page 1 of 5 REPORT PREPARED: 3/17/2014 09:50 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD VOA (part 2 of 4) CUMBERLAND CENTER, ME 04021 1,2-1,1-1.14 Methyl Ethyl crs-1,3cis-1,2-Carbon Acetone 1,4-1,2trans-1,3-(TARS-1,2-Styrene Methylene Ethylbenzene (DP-4) Dichloropropen Dichloroethene Dichlorobenzen Dichloropropan Dichloroethane Dichloroethane Dichloroethane Disulfide Chloride Ketone Dichloropropen Dichloroethene е c ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L це/L ug/L ug/L ug/L ug/L ug/L ug/L Type Sample 1D Date DP-4 2 U 2 U 2 U 2 U 2 U 7/26/2004 XX GWXXXX041 2 U 211 211 10 U 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U 2 U GWXXXX1A4 10 U 2 U 2 Ų 2 U 2 U 10 U 2 U 2 U 2 U 2 U 5 U 9/20/2005 XX 2 U 2 U 2 U 2 U 2 Ų 2 U 10 U 2 U 2 U 10 U 2 U 2 U GWXXXX1EJ 20 2 U 2 U 5 U 5/22/2006 XX 2 U 2 U 2 U 10 U 2 Ų 2 U 5/14/2007 XX GWXXXX23G 20 2 Ų 2 U 5 U 10 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 5 U 2 U 2 U 2 Џ 2 U 10 U 5/19/2008 XX 10.13 GWXXXX2E4 2 U 2 U 1 U 1 U 1 U 1 U 1 U 10 U 4/13/2009 XX GWXXXX336 1 11 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 05U 0.5 Ų 10 U 0.5 U 0.5 U 0.5 U 0.5 U 5 U 5 U 4/26/2010 XX GWXXXX404 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 0.5 U 0.5 U 0.5 U 05U 5 Ų 5 U 05 U 4/25/2011 XX GWXXXX4AD 0.5 U 0.5 U 0.5 U 1 Ų 1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 10 10 10 U 1 U GWXXXX52G 1 U 1 U 4/25/2012 XX 1 U 1 U 1 U 1 U 1 U 1 Ų 1 U 1 U 10 U GWXXXX5IH 1 Ų 1 U 5 U 10 U 1 U 4/24/2013 XX 1 U LF-COMP 1 U 1 U 1 U 1 U 10 10 U 1 U 4/24/2012 XX LFXXXX53B 10 1 U 1 Ų 5 U 10 U 1 U 1 U 1 U LF-UD-1 20 2 U 2 U 2 U 2 U 10 U 2 Ų 2 U 2 U 2 Ц 10 U 5 Ų 7/28/2004 XX LFUD1X05E 2 U 2 U 2 U 2 U 2 U 20 2 U 2 U XX LFU01X19D 2 U 10 U 9/21/2005 2 U 2 U 2 U 5 Ų 10 U 2 Ų 2 U 2 U 2 U 2 U 2 U XX LFUD1X1E8 5 U 10 U 2 U 2 U 2 U 2 Ų 10 U 2 U 2 U 5/24/2006 2 Ų 2 U 2 U 2 IJ 2 U 2 U 2 Ų 2 U XX LFUD1X235 2 U 2 U 2 U 2 U 10 U 2 U 2 U 5 U 10 U 5/16/2007 2 U 2 ∪ 2 U 2 U XX LFUD1X2DD 2 U 10 U 2 Ų 2 U 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U 5/20/2008 1 U 1 U 1 U 1 U 1 U 1 11 111 10 10 U 1 U 10 5 U 10 U 4/15/2009 XX LFUD1X32F 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 5 U 5 Ų 0.5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFUD1X3JD 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U XX LFUD1X4A2 0.5 U 5 U 0.5 U 0.5 **U** 0.5 U 0.5 U 10 U 0.5 U 0.5 U 5 U 4/26/2011 0.5 U H2 H2 H2 H2 H2 H2 4/24/2012 XX LFUD1X525 H2 H2 H2 H2 H2 H2 H2 H2 H2 1 U 10 1 U 1 U 1 U 4/23/2013 XX LFUD1X516 1 U 10 10 5 U 10 U 1 U 1 U 1 U 1 U 10 U LF-UD-2 2 Ų 10 U 2 U 2 U 2 U 2 U 2 U 2Ú 5 U 10 U 2 U 2 U 2U7/28/2004 XX LFUD2X05F 2 U 2 U 2 U 2 U 2 U 2 Ų 20 10 U 2 U 2 U 2 U 2 U 9/21/2005 XX LFU02X19E 2 U 2 U 2 Ų 5 U 10 U 2 U 2 Ų 5/24/2006 XX LFU02X1E9 2 U 2 Ų 10 U 2 U 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2UXX LFU02X236 10 U 2 U 5 U 10 U 2 U 2 U 2U2 U 5/16/2007 2 Ų 2 U 2 U 2 U 10 U 2 Ü 2 U 2 U 2 U 5/20/2008 XX LFUD2X20E 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U 2 U 1 U 10 10 1 U 1 U 10 Ų 1 U 1 Ų 4/15/2009 XX LFU02X32G **1** 11 511 10 U 1 U 1 U 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 4/27/2010 XX LFUD2X3JE 0.5 U 0.5 U 0.5 U 5 U 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 LFUD2X4A3 0.5 U 5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 0.5 U H2 H2 H2 **H**2 H2 H2 **H**2 H2 H2 H2 4/24/2012 XX LFUD2X526 H2 H2 ΗŻ H2 H2 1 Ų 1 U 1 U 1 U 1 U 4/23/2013 XX LFUD2X517 5 U 10 U 1 U 1 U 1 U 1 U 10 U 1 U 1 U 1 U LF-UD-3A,B 2 U 2 U 2 U 2 U 2 U 5/16/2007 XX LFUD3X246 2 U 2 U 2 U2 U 10 U 5 Ų 10 U 2U2 U 2 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX LFU03X2EE 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U2 U 10 U 1 U 1 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 111 4/15/2009 XX LFXXXX33F 1 U 1 U 1 U 50 10 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFXXXX400 5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 0.5 U 0.5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 0.5 U Q.5 U 4/26/2011 XX LFXXXX4B1 0.5 U 5 U 5 U 0.5 U 0.5 U H2 H2 Н2 H2 H2 H2 H2 4/24/2012 XX LFXXXX534 H2 H2 H2 H2 H2 H2 H2 H2 F6 F6 F6 F6 F6 4/23/2013 XX LFXXXX5J5 F6 F6 F6 F6 F6 F6 F6 F6 F6 FĢ. LF-UD-4 1 Ų 10 1 U 1 U 1 U 10 U 1 U 1 U 1 U 1 U 10 U 4/15/2009 XX LFXXXX34A 5 U 10 1 U 1 U F6 F6 F6 F6 F6 Fβ F6 F6 F6 F6 F6 4/27/2010 XX LFXXXX40E F6 F6 F6 F6

Page 2 of 5 REPORT PREPARED: 3/17/2014 09:50 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill VOA (part 2 of 4) 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** (LF-UD-4) trans-1,3trans-1,2-Styrene Methylene Methyl Ethyl Ethylbenzene cis-1,3cis-1,2-Carbon Acetone 1,4-1,2-Dichloropropen Dichloroethene Chloride Ketone Dichloropropen Dichloroethene Disalfide Dichlorobenzen Dichloropropan Dichloroethane Dichloroethane Dichlorocthane 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/L4/26/2011 XX LFXXXX483 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 F12 4/24/2012 ХX LFXXXX536 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 4/23/2013 XX LFXXXX5/6 10 1 Ų 1 U 5 U 10 U 10 1 U 1 U 1 U 10 U 1 Ų 1 U 1 U 1 U 1 U LF-UD-5and6 4/26/2011 XX LFXXXX4B4 0.5 U 0.5 U 0.5 U 5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 Q 10 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/24/2012 XX LFXXXX537 1 U 1υ 1 U 5 U 10 U 1 U 1 U 1 1/ 1 U 10 U 1 U 10 1 U 1 U 1 U 4/23/2013 XX LFXXXX5J7 1 Ų 1 U 10 5 U 10 U 10 1 U 1 U 1 Ų 1 U 1 U 10 U 1 U 1 U 1 Ų 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 LF-UD-8 4/23/2013 XX LFUD8X5JD 1 U 1 U 1 U 5 U 10 U 1 บ 10 1 U 1 U 10 U 1 Ų 1 U 1 U 10 1 U LP-UD-1 7/28/2004 XX LPUD1X05G D D D D D Ð 0 D Ď D D D D D D XX LPUDIX19F 9/21/2005 D D D D D 0 0 D D D D D D D D 5/24/2006 XX UPUDIXIEA D D D D D D D D D D D D D D D 5/16/2007 XX LPUD1X237 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X2DF 5/20/2008 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X32H 4/15/2009 F6 **F**6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 4/27/2010 XX LPUD1X3JF F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 XX LPUD1X4A4 4/26/2011 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 Fô F6 F6 F6 F6 F6 4/23/2013 XX LPUD1X5I8 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 F6 . F6 F6 F6 LP-UD-2 7/28/2004 XX LPUD2XB5H 2 U 2 U 2 Ų 5 U 10 U 2 U 2 Ü 2 U 2 U 10 U 2Ų 2 U 2 Ų 2 U 2 U 9/21/2005 XX LPLXD2X19G 2 U 2 U 2 U 5 U 2 U 2 U 2 U 10 U 2 U 2 U 10 U 2Ų 2 Ų 2 Ų 2 U XX LPL/D2X1EB 5/24/2006 2 U 20 511 2 U 10 U 2 U 2 U 2 U 2 U 2 Ų 10 U 2 U 2 U 2 U 2 Ų 5/16/2007 XX LPU02X238 2 Ų 2 U 2 U 5 U 10 U 2 U 2υ 2 U 2 U 10 U 2 U 2 U 2 U 2 U 2 U 5/20/2008 XX LPUD2X2DG 10 U 2 U 2U2 U 5 U 2 U 2 U 20 2 Ų 10 U 2 U 2 U 2 U 2 U 2 U 4/15/2009 XX LPUD2X32I 10 1 U 5 U 1 U 10 U 1 U 1 U 1 U 1 U 10 U 10 1 U 1 U 1 U 1 U XX LPUD2X3JG 4/27/2010 0.5 U 0.5 U 0.5 U 5 U 5 Ü 0.5 U 0.5 U 0.5 U 05 Ú 10 U 0.5 Ų 0.5 U 0.5 U 0.5 U 0.5 U XX LPUD2X4A5 4/26/2011 0.5 U 0.5 U 0.5 U 5 Ų 5 U 0.5 Q 0.5 U 0.5 U 05 U 10 U 0.5 Ų 0.5 Ų 0.5 Ų 0.5 Ų 0.5 U 4/24/2012 XX LPUD2X528 1 U 1 U 1 U 5 U 10 U 1 Ų 1 U 1 U 1 U 10 U 1 U 1 U 1 U 1 U 1 Ų 4/23/2013 XX LPUD2X519 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 10 U 1 U 1 U 1 U 1 Ų 1 U MW-204 5/4/2004 XX GW204X008 2 U 2 U 2 U 5 U 10 U 2 U 2 U 2 U 2 U 10 U 2 U 2 U 2 U 2 U 2 U 7/27/2004 XX GW204X03G 2 U 2 U 2U5 U 10 U 2 U 2 U 2 U 20 10 U 2 U 2 U 2 U 2 U 2 Ų XX GW204X1A0 9/20/2005 2 U 2 U 20 5 U 10 U 2 U 2 U 20 2 U 10 U 2 U 2 U 2 U 2 Ų 2 Ų 5/23/2006 XX GW204X1EF 211 211 20 5 U 2 U 10 U 2U2 U 2U10 U 20 2 Ų: 2 U 2 Ų 2 U 5/14/2007 XX GW204X23C 2 U 2 U 20 5 U 10 U 2 U 2 U 2 U 20 10 Ų 2 Ų 2 Ų 2 Ų 20 2 U XX GW204X2ED 5/21/2008 2 U 2 U 2υ 5 U 10 U 2 U 2 U 2 Ų 2 Ų 10 U 2 Ų 2 U 20 2 U 2 U XX GW204X332 4/13/2009 1 U 1 U 10 5 Ų 10 U 1 U 1 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U XX GW204X400 4/28/2010 0.5 U 0.5 U 0.5 U 5 U 5 U 0.5 Q 0.5 U 0.5 U 0.5 U 10 U 0.5 Ų 0.5 U 0.5 U 0.5 U 0.5 U XX GW204X4A9 4/26/2011 0.5 U 0.5 U 0.5 U 5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 10 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/24/2012 GW204X52C XX 1 U 1 U 10 5 U 10 U 1 U 1 U 1 U 10 10 Ų 1 U 1 U 1 U 10 1 Ų

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|------------------------------|------------------------|------------------------------|--|----------|-----------------------|------------------------|---------------|---------------------------------|----------------------------|---------------------|--------------|-----------------------------|-----------------------------|------------------------|------------------------|------------------------|
| | FÖR: Juniper R | idge Landfill | | | | | VC | A (part 2 of | 4) | | | | | R, ME 04021 | | |
| (MW-401B) | | trans-1,3- Dichloropropen | trans-1,2- Dichloroethene | Styrene | Methylene Chloride | Methyl Ethyl Ketone | Ethylbenzene | cis-1,3- Dichloropropen e | cis-1,2- Dichloroethene | Carbon Disulfide | Acetone | l,4- Dichlorobenzen e | 1,2- Dichloropropan e | 1,2- Dichloroethane | 1,1- Dichloroethene | 1,1- Dichloroethaue |
| Date Type | Sample ID | e ug/L | ug/L | ug/L | vg/L | ug/L | ղջ/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug∕i. |
| MW-401B | | | | | | | | | | | | | | | | |
| 7/29/2004 XX | GVV401B05A | 2 U | 2 U | 2 U | 5 U | 10 U | 20 | 2 U | 2 U | 2 U | 10 U | 2 Ų | 20 | 2 U | 2 () | 2 U |
| | GWDP4X05D | 20 | 2 U | 20 | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 Ų | 2 U | 2 U | 2U | 2 U |
| | GW401B072 | 20 | 2 U | 2 U | 5 U | 10 U | 2 U | 2 ป | 2 U | 2 U | 10 U | 20 | 2 U | 20 | 2 U | 2 U |
| 9/21/2005 XX | GW401B199 | 2 U | 20 | 2 U | 5 U | 10 U | 20 | 2 U | 2 U | 2 U | 10 U | 2∪ | 2 U | | 2 U | 2 U |
| 9/21/2005 XD | GWIDP4X19C | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 20 | 10 U | 2 <u>U</u> | 2 U | 20 | 2 U | 2 U |
| 5/23/2006 XX | GW401B1E4 | 20 | 2U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 20 | 10 U | 20 | 20 | 20 | 2 U | 2 U |
| 612012000 110 | GWDP4X1E7 | 20 | 2 U | 20 | 5 U | 10 U | 2 U | 20 | 2 U | 2 U | 10 U | 2 U | 2 U | 2U | 2 U | 2 U |
| | GW401B231 | 20 | 20 | 2 U | 5 U | 10 U | <u>2U</u> | 20 | 2 U | 2 U | - 10 U | 2 U | 2 U | 20 | 20 | 20 - |
| | GWDP4X234 | 2 U | 20 | 2 U | 5 U | 10 U | 2 <u>U</u> | 2.0 | 2 U | 2 U 2 U | 10 U | 2 U | | 2 U | 2U | 2 0 |
| ## _ | GW401B2D9 | 2 U | 2 U | 20 | 5 U | 10 U | | 2 U | 2 U | 2 U | 10 U | 20 | 2U | 20 | 2 U | 20 |
| 4124144 | GWDP4X2DC | 2 U | 2 U | 2.0 | 5 U | 10 U | 2U | 2 U | 1 U | 111 | 10 U | 20 1U | 10 | 10 | 1 U | 1 U |
| -11 10.2000 | GW401B32B GWDF4X32E | 10 | 10 | 1 U | L 50 | 10 0 | 10 | 10 | 1 U | 10 | 10 U | 10 | 1 U | 10 | 1 U | 1 U |
| | GW401B3J9 | 1 U 0.5 U | 0.5 U | 05U | 5 U | 50 | 0.5 U | 0.5 U | 050 | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | GWDP4X3JC | 0.5 U | 0.5 U | 0.5 U | 5 U | - 5 U | 0.5 U | 0.5 U | 050 | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | GW4D1B494 | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 U | 05U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| -020120111 701 | GWDP4X4A1 | 0.5 U | 0.5 U | 0.5 U | 5 Ų | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | GW401B521 | 1 U | <u>5.5 5</u> | 1 U | 5 U | 10 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 10 | 1 ปั |
| | GWDP4X524 | 10 | 1 U | 10 | 5 U | i 10 U | 1 U | 1 U | 1 U | 10 | 10 U | 1 ปี | 1 U | 1 U | 1 U | 1 U |
| | GW401B5l2 | 1 0 - | 10 | 1 Ū | 5 U | 10 U | 10 | 1 U | 1 U | 10 | 10 U | 1 U | 10 | 1 U | 1 U | 1 U |
| | GWDP4X5I5 | 10 | 1 U | 1.0 | 5 U | 10 U | 10 | 1 U | 10 | 1 U | 10 U | 1 U | 10 | ! 1U | 1.0 | 1 U |
| P-04-02 | | | ······································ | | | | | | | | | | | | | |
| 7/26/2004 XX | GWXXXX042 | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U | 2 U | Zu | 2 U |
| | GWXXXX1A5 | 20 | 2 U | 2 U | 5 U | 10 U | 20 | 2 U | 2 U | 2 U | 10 U | 2 U | 20 | 2 U | 2 U | 2 U |
| 5/22/2006 XX | GWXXXX1FB | 20 | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 1 2 U | 10 U | 2 U | 20 | 2 U | 2U | 2 U |
| 5/14/2007 XX | GWXXXX23H | 2 U | 2 U | 2 Ų | 5 U | 10 U | 2 U | 2 U | 2 U | , 2U | 10 U | 2 U | 2 U | 2 U | <u> 2 U</u> | 20 |
| 5/21/2008 XX | GWXXXX2E5 | 2 U | 2 U | 20 | 5 U | 10 U | 2 U | 2 U | 20 | 2 U | 10 U | . 2 0 | 2 <u>U</u> | 2 U | 20 | 20 |
| 4/13/2009 XX | GWXXXX337 | 1 U | 10 | 10 | 5 U | 10 U | 1 U | 1 U | 10 | 10 | 10 U | 1U | 10 | 1 U | 1 U | 10 |
| 4/26/2010 XX | GWXXXXX405 | 0.5 U | 0.5 U | 0.5 U | 5 U | 5.υ | 05Ų | 0.5 U | 050 | 0.5 11 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | GWXXXX4AE | 0.5 U | 0.5 U | 0.5 U | 5 U | _ 5 U | 050 | 0.5 U | 05U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | GWXXXX52H | 1 U | 10 | 10 | 5 U | 10 U | 10 | 10 | 10 | 1 U | 10 U | 1 U | 1 U | | 1 U | · 10 |
| 4/22/2013 XX | GWXXXX58 | ! | <u> </u> | <u> </u> | ! | ! | | _l. ' | ⊥ ! | <u> </u> | l | <u> </u> | | | · · · · | <u> </u> |
| QCBT | | | | | | | | | , | | | | | | | |
| 5/4/2004 XX | BTXXXXX00H | 20 | 2 U | 2 U | 5 Ų | 10 U | _ 2 U | 2 U | 2 U | 2 U | 10 ∪ | 2 U | 2 U | 2 U | 2 U | 2 U |
| 6/9/2004 XX | BTXXXX035 | 2 U | 2 U | 2 U | _ 5 U | 10 U | 2 U | 2 U | 20 | 20 | 10 U | 2U | 2 U | 2 U | 2 U | 20 |
| 1,20,200. | BTXXXX048 | 2 U | 2 U | 2 U | 5 Ų | 10 U | 2.0 | 2 U | 2 U | 20 | 10 U | 2U | 2 U | 20 | 2 U | 2U |
| | 030XXXXTG | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | . 20 | 20 | 10 U | 2 U | 2 U - | 2 U | 2 U | 2 U |
| 1/17/2005 XX | | 2 U | 2 U | 20 | 50 | 10 U | 2U | 2 U | . 20 | 2 U | 10 U | 2 U | 20_ | 2 U | 2 U | 2 U |
| 3/9/2005 XX | | _ 2 U | 20 | 2 U | 5 U | 10 U | 2 U | 2 U | 20 | 2 U | 10 U . | 2 U | 2 U | 2 U | 2 U 2 U | - 2 U |
| 3/21/2005 XX | | 2 U | 2 U | 20 | 50 | 10 U | 2 U | 2U | 2U | 2 U 2 U | 10.U 10.U | 2 U | 2 U | 20 | 20 | 2 U |
| 5/11/2005 XX | | 2 U | 2 U | 2.0 | 5 U | 10 U | 2 U | 2 U 2 Û | 20 | 2 U | 10 U | ; 2U | 2 U | 20 | 2 U | 2 U |
| 7/25/2005 XX | | 20 | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 20 | 20 | - 10 U | 2 U | 2U | 2 U | 2 U | 20 |
| | BTXXXX187 | 20 | 2 U | 2 U | 5 U | 10 U | 20 | 2 U | 2 U | 20 | 10 U | 20 | 20 | 2 U | 2 U | 20 |
| | BTXXXX1A7 BTXXXX1AI | 2 U | - 2U 2U | 2 U | 5 U | 100 | 2 U | 20 | 2 U | 2 U | 10 U | 20 | 2 U | 2 U | | 2 U |
| 9/21/2005 XX 9/22/2005 XX | | 2 U | 20 | 20 | 5 U | 100 | 2 U | 2 0 | 20 | 2 U | 10 U | 20 | 2 U | 2 U | 2 U | 2 U |
| 4/19/2006 XX | | 2 U | 20 | 20 | 5 U | 10 0 | 2 U | 20 | 20 | 2 U | 10 U | 2 U | 2 Ų | 20 | 2 U | 2 U |
| 4/19/ZUUOJ XX | | _1 | 1 20 | | | | · | | ,i . 5.% | L | · | | <u></u> | _ | • | |

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FOR: Juniper Ridge Landfill

SUMMARY REPORT VOA (part 2 of 4) Page 4 of 5

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

| | | | | | | | | VC | DA (part 2 of | 4) | | | | ÇŲMBE | CHARD ROAD RLAND CENTE | R, ME 04021 | |
|------------|------|------------|-----------------------------------|------------------------------|---------|-----------------------|------------------------|--------------|---------------------------------|----------------------------|---------------------|---------|-----------------------------|-----------------------------|---------------------------|------------------------|-----------------------|
| (QCBT) | | | trans-1,3- Dichloropropen e | trans-1,2- Dichloroethene | Styrene | Methylene Chloride | Methyl Ethyl Ketonc | Ethylbenzene | cis-1,3- Dichloropropen e | cis-1,2- Dichloroethene | Carbon Disulfide | Асетопе | 1,4- Dichlorobenzen e | 1,2- Dichloropropan e | 1,2- Dichforoethane | l,I- Dichloroethene | 1,1- Dichloroethan |
| Date | Туре | Sample ID | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | սջ/Լ | ug/L | ug∕L | ug/L |
| 5/22/2006 | [xx] | STXXXX1F2 | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 5/23/2006 | ХX | 8TXXXX1FD | 2 U | 2 U | 2 U | 5 U | 10 Ų | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U | 2 U | 20 | 2 U |
| 5/24/2006 | XX | BTXXXX1ID | 2 U | 2 U | 2 U | 5 U | 10 Ų | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U | 2 U | 20 | 2 U |
| 7/25/2006 | XX : | BTXXXX1HJ | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 υ | 2 U | 2 U | 10 U | 211 | 2 U | 2 U | 20 | 2 U |
| 9/13/2006 | XX | BTXXXXX20C | 2 0 | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2U | 2 U | 2 U | 20 | 2U |
| 5/14/2007 | XX | BTXXXX23J | 2 U | 2 U | 2 U | 5 U | 10 ∪ | 2 U | 2 U | 20 | 2 U | 10 U | 20 | 2 U | 2 U | 2 U | 2U |
| 5/15/2007 | XX | BTXXXX244 | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2U | 2 U | 2 U | 2 U | 2.0 |
| 5/16/2007 | XX | BTXXXX245 | 2 U | 20 | 20 | 50 | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 20 | 21/ | 2 U | 2 U |
| 7/24/2007 | XX | BTXXXX283 | 2.0 | 2 U | 2 U | ์ 5 บ | 10 U | 2 U | , 2U | 2 U | . 2 ∪ | 10 U | 2.0 | 2 tJ | 2 ⊔ | 2U _ | 2 U |
| 9/11/2007 | XX | BTXXXX2AD | 2 U | 2 Ų | 2 U | 5 Ų | 10 U | 2 U | 2 U | 20 | 2 U | 10 U | 2.0 | 2 U | . 2 ∪ | 2 U | 2 U |
| 5/19/2008 | XX | BTXXXX2EC | 2 U | 20 | 2 U | 5 U | 10 U | 2 U | 2 U | 20 | 2 U | 10 U | 2 ป | 2 U | 2.0 | 2 U | 2 U |
| 5/21/2008 | XX | BTXXXX2ED | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U | : 2 U | 2 Ü | 2 U |
| 7/29/2008 | XX | BTXXXX2HB | 2 U | 2 U | 2 U | 5 U | 10 U | 2 U | 2 ป | 2 U | 2 U | 10 U | 2 Ų | 20 | ; 2U | 2 U | 2 U |
| 10/29/2006 | XX | BTXXXX301 | 1 U | 10 | 1 U | 5 U | 10 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 10 | 10 | 1 U | † 1U |
| 4/13/2009 | XX | BTXXXX33D | 1 U | 10 | 1 U | 5 U | 10 U | 10 | 1 U | 1 U | 1 U | 10 U | 1 U | 10 | 1 U | 1 U | : 10 |
| 4/15/2009 | XX | BTXXXX33E | 1 U | 1.0 | 1 U | 5 U | 10 U | 10 | 1 U | 10 | 10 | 10 U | 10 | 1 1 U | 10 | 10 | † 1ប |
| 7/7/2009 | XX | BTXXXX37H | 1 U | 10 | 1 U | 5 U | 10 U | 10 | 1 U | 1 U | 10 | 10 U | 10 | 10 | 1 U | 1 1 U | . 1 U |
| 10/28/2009 | XX | BTXXXX3AJ | 1 U | 10 | 1 U | 5 U | 10 U | 1 U | 1 Ų | 10 | 10 | 10 U | 1 U | 1 U | 1 ប | 1 U | . 1 U |
| 4/26/2010 | XX | BTXXXX40A | 0.5 ป | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 Ú | 0.5 () | 0.5 U | . 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | · 0.5 U |
| 4/27/2010 | XX | BTXXXX40B | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 () | 0.5 U | : 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/28/2010 | XX | BTXXXXHG1 | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | , 0.5 U |
| 7/20/2010 | XX | BTXXXX43F | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 10/19/2010 | XX | BTXXXX46I | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 050 | 050 | 0.5 U |
| 4/25/2011 | XX | BTXXXX4AJ | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 05U | 10 U | 0.5 U | 0.5 U | 05U | 0.5 U | 0.5 ∪ |
| 4/26/2011 | XX | BTXXXX480 | 0.5 U | 0.5 U | 0.5 U | 5 U | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 05U | 0.5 € | 0.5 Ų_ |
| 4/27/2011 | XX | BTXXXX485 | 0.5 U | 0.5 U | 0.5 U | 5 U | 50 | 0.5 U | 0.5 U | 0.5 U | 05U | 14 | 0.5 ⊍ | 0.5 U | 051 | 05 บ | 0.5 ∪ |
| 7/19/2011 | XX | BTXXXX4F3 | 0.5 U | 0.5U | 0.5 U | 5 Ų | 50 | 0.5 U | 0.5 U | 0.5 U | 05U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 ∪ |
| 10/26/2011 | XX | BTXXXX4G8 | 0.5 U | 0.5 U | 0.5 บ | 5 U | 5 U | 0.5 0 | 0.5 U | 0.5 U | 05U | 10 U | 0.5 U | 0.5 U | 0.5 U | 05U | 0.5 U |
| 4/23/2012 | XX | BTXXXX532 | 10 | 1 U | 1 Ū | 5 U | 10 U | 10 | 1 ប | 10 | 1 U | 10 U | ' 1U | 1 U | 1 U | 1 U | 10 |
| 4/24/2012 | XX | BTXXXX533 | 10 | 1 U | 1 U | 5 U | 10 U | 10 | 1 U | 10 | 1 U | 10 ∪ | 1 U | 1 U | 1 U | 1 U | 1 U |
| 4/25/2012 | XX | BTXXXX538 | 10 | 1 U | 1 U | 5 U | 10 U | 10 | 1 Ų | 1 U | 1 U | 10 U | 1 U | 10 | 10 | 1 U | 1 U |
| 7/24/2012 | | BTXXXX585 | 1 U | 1 U | 1 U | 5 ป | 10 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 Ų | 1 U | 10 |
| 10/23/2012 | | BTXXXX5CB | 1 U | 1 U | 1 ប | 5 ป | 10 U | 1 U | 1 U | 1 U | 1 Ų | 10 U | 10 | 10 | 1 U | 1 U | 10 |
| 4/22/2013 | | BTXXXX5J3 | 1 U | 1 U | 1 U | 5 U | 10 U | 1 U | 1 U | 10 | 1 U | 10 U | 1 U | 1 U | 1 U | t U | 1 U |
| 4/23/2013 | _ | BTXXXX5.4 | 1 U | 10 | 1 U | 5 U | 10 U | 1 U | 1 U | 10 | 1 U | 10 U | 1 U | 10 | 10 | 10 | 10 |
| 4/24/2013 | | BTXXXX5J8 | 10 | 10 | 1 U | 5 U | 10 U | 1 U | 10 | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 10 | 10 |
| 7/30/2013 | _ | BTXXXX65D | 0.5 U | 0.75 U | 1 U | 30 | 5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 2.5 Ų | 1.8 U | 0.5 U | 0.5 U | 0.75 U |
| 10/29/2013 | + | BTXXXX88C | 20 | 2 U | 1 U | 5 U | - 1 - 10 U | 1 U | 2 U | 2 U | 5 U | 100 | 10 | 2 U | 2 U | 1 U | 20 |
| 10/29/2013 | 1 | BTXXXX69H |) 2U | 20 | 1 U | 5 U | 100 | 1 U | 2 U | 2 U | | 50 0 | 1 U | 2 U | 2 U | 10 | 20 |

| DEPORT PE | REPARED: 3/17/2014 | 1.09·50 | | | | | SHM | MARY REPO | `RT | | | | | Page 5 o | 15 | |
|-----------|--------------------|-----------------------------------|------------------------------|---------|-----------------------|------------------------|--------------|----------------------------|----------------------------|---------------------|---------|-----------------------------|-----------------------------|------------------------|--|--------------------------|
| REPORTE | FOR: Juniper R | | | | | | | A (part 2 of | | | | | | 4 BLANC | MAHER ENGI CHARD ROAD RLAND CENTER | |
| (QCBT) | | trans-1,3- Dichloropropen e | trans-1,2- Dichloroethene | Styrene | Methylene Chloride | Methyl Ethyl Ketone | Ethylbenzene | cis-1,3- Dichloropropen | cis-1,2- Dichloroethene | Carbon Disulfide | Acetone | 1,4- Dichlorobenzen e | 1,2- Dichloropropan e | 1,2- Dichloroethane | 1,1- Dichloroethene | I, I - Dichloroethane |
| Date Ty | ype Sample ID | ug/L | ug/L | ug/L | ug/L | սց/Ն | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | п ē /Г | ug/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.
- 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
- U Not Detected above the reported sample detection limit.

Page 1 of 5 REPORT PREPARED: 3/17/2014 09:51 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD VOA (part 3 of 4) CUMBERLAND CENTER, ME 04021 1.2,3-1,1,2-1,1,2,2-UJJ-1,1,1,2-Acrylonitrile 4-Methyl-2-2-Hexanone Vinyl Chloride Trichlorofluoro Trichloroethene Toluene Tetrachloroethe o-Xylene m,p-Xylene (DP-4)Trichloropropan Trichloroethane Tetrachloroctha Trichloroethane Tetrachloroetha Pentanone methane ne ne e ug/L ug/L υg/I. ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L Type Sample ID Date DP-4 2 U 2 U 2 Ų 2 Ų XX GWXXXXXX 2 U 2 U 2 U 10 U 10 U 2 Ų 2 U 2 U 2 U 2 U 2 U 7/26/2004 2 U 2Ų 2 U 2 U 2 U 2 U 2 U 2 U 10 U 10 U 9/20/2005 XX GWXXXX1A4 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 20 10 Ų 10 U XX GWXXXX1EJ 2 U 2 U 2 U 2 U 5/22/2006 2 U 2 Ų 2 U 2 U 2 U 2 U 20 2 U 2 U 10 U 10 U GWXXXX23G 2 U 2 U 2 ⊔ 2 U 5/14/2007: XX 2 U 2 U 2 U 2 U 2 U 5/19/2008; XX GWXXXX2E4 20 2 U 2 U 2 U 2 U 2 U 10 U 10 U 2 U 2 U 2 U 1 U 10 1 U 4/13/2009 XX GWXXXX336 10 1 U 1 U 1 U 10 U 10 U 10 1 U 1 U 1 U 10 1 U 5 Ų 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/26/2010 XX GWXXXX404 0.5 U 0.5 U 0.5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 05U 0.5 U 0.5 U 0.5 U 5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U XX GWXXXX4AD 0.5 U 0.5 U 4/25/2011 1 U 1 U 1 U 10 U 1 U 1 U 10 1 U 1 U 10 U 4/25/2012 XX GWXXXX52G 1 Ų 10 1 U 1 U 1 U 1 U 1 U 1 Ų 1 U 1 U 4/24/2013 XX GWXXXX5IH 1 Ų 1 U 1 U 1 Ų 1 U 1 U 1 U 10 U 10 U 1 Ų LF-COMP 1 U 10 1 U 1 Ų 1 U 10 U 4/24/2012 XX LFXXXX53B 110 1 U 1 🏻 10 1 U 10 U 1 U 10 1 Ų LF-UD-1 2 U 2 U 2U2 U 2 U LFUD1X05E 2 Ų 2 U 2 U 2 U 2 U 10 U 10 U 7/28/2004 XX 2 U 2 U 2 U 2 U 2 U 2 U 2 U 202 U 2 U 10 U 10 U LFUD1X19D 2 U 2 U 2Ų 2 U 2 U 9/21/2005; XX 2 U 20 2 U 10 U 10 U 2 U 2 U 2 U 2 ⊎ 2 U 2 U 5/24/2006 XX LFUD1X1E8 2 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 2 U 2 U 2 U 2 U 10 U 10 U 2 U LFUD1X235 2 U 2 U 2 U 5/16/2007 XX 2 U 2 U 2 U2 U 2 U 2U2 Ų LFUD1X2DD 2 U 2 U 10 U 10 U 2 Ų 2 U 2 U 2 U 5/20/2008 XX 2 U 2 Ų 1 U 1 Ų 1 U 1 U 1 U LFUD1X32F 1 U 1 U 1 U 1 U 1 U 1 U 10 Ų 10 U 4/15/2009 XX 1 U 1 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U LFUD1X3JD 0.5 U 0.5 ⊔ 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 5 U 5 U 4/27/2010 XX 0.5 U 0.5 U 0.5 Ų 0.5 U 0.5 U 5 U 5 U 0.5 U0.5 U 0.5 U 05 U 0.5 U 0.5 U 4/26/2011 XX LFUD1X4A2 0.5 Ų 0.5 U 0.5 U H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 4/24/2012 XX LFUD1X525 H2 H2 H2 H2 1 U 1 U 1 U 1 U 1υ 1 U 10 U 4/23/2013 XX LFUD1X516 1 U 1υ 1 U 1 U 1 U 1 U 10 U 1 U LF-UD-2 2 U 2 U 2 U 2 U 2 U 7/28/2004 XX LFUD2X05F 2 U 2 U 2 U 2 U 2 U 2 U 2 U 10 U 10 U 2 Ų 2 U 10 U 10 U 2 U 2U2 U 2 U 2 U 2 U 2 U 2 U 9/21/2005 XX LFUD2X19E 2 U 2 ↓ 2 U 2 U 2 U 2 U 2 U 2 Ų 2 U 5/24/2006 XX LFUD2X1E9 2 U 2 U 2 U 2 U 10 U 10 U 2 U 2 U 2 U 2 U 2 Ų 2 U 2 Ų 2 U 2 U 10 Ų 10 U 2 U 2 U 2 U XX LFUD2X238 2 U 2 U 5/16/2007 2 U 2 U 2 U 2 U 10 U 2 U 2 Ų 2 U 20 10 U 5/20/2008 XX LFUD2X2DE 2 U 2 U 2 Ų 2U2 U 2 Ų 2 Ų 2 U 1 U 1 U 4/15/2009 XX LFUD2X32G 1 Ų 1 U 1 U 1 U 1 U 10 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFUD2X3JE 0.5 U 0.5 U 0 5 U 0.5 U 0.5 U Q5U 0.5 U 5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 050 0.5 U 5 U 5 U 0.5 U 4/26/2011 XX LFUD2X4A3 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U H2 H2 H2 H2 H2 H2 H2 4/24/2012 XX LFUD2X526 H2 H2 H2 H2 H2 H2 H2 H2 10 1 U 1 U 1 U 1 Ų 4/23/2013 XX LFU02X517 1 U 1 Ų 1 U 1 U 1 U 10 1 U 10 U 10 U 1 U LF-UD-3A,B 2 U 2 U 2 U 2 U 5/16/2007 XX LFUD3X246 2 U 2 U 2 U 2 U 2 U 10 U 10 U 2 U 2 U 20 2 U 2 U 2 U 2 U 10 U 2 U 2 U 2 U 2 Ų 2 U 2 U 2 U 10 U 5/20/2008 XX LFUD3X2EE 20 2 U 2 U 10 1 🗓 10 1 U 10 U 10 U 10 4/15/2009 XX LFXXXX33F 1 U 10 1 U 1 U 1 Ų 1 U 1 U 1 Ų 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX LFXXXX40C 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 ป 0.5 U 0.5 U 0.5 U 5 Ų 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 514 4/26/2011 XX LFXXXX4B1 0.5 U 0.5 U 0.5 0 H2 **H**2 H2 H2 4/24/2012 XX LFXXXX534 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 H2 F6 F6 F6 4/23/2013 XX LFXXXX5J5 F6 F6 F6 F6 F6 F6 F6 £6 F6 F6 F6 F6 LF-UD-4 1 U 1 U 4/15/2009 XX LFXXXX34A 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 Ų 10 U 10 U 1 U 1 U F6 F6 F6 F6 Fβ F6 F6 4/27/2010 XX LFXXXX40E F6 F6 F6 F6 F6 F6 F6 F6

| REPORT | F P REP / | ARED: 3/17/2014 | 09:51 | | | | | SUMI | MARY REPO | ORT | | | | | Page 2 d | | |
|----------------------|----------------------|-------------------------|----------------|-------------------------------------|-----------------|-----------|-----------------------|---------------|---------------|---------------|--------------------------|-----------------|--------------------------------|---------------------------|-----------------------------------|---|-----------------------------------|
| | | FOR: Juniper R | idge Landfill | | | | | vo | A (part 3 of | 4) | | | | | 4 BLANG | 8 MAHER ENGIN CHARD ROAD RLAND CENTER | |
| (LF-UD | 4) | | Vinyl Chloride | Trichlorofluoro methane | Trichloroethene | Toluene | Tetrachloroethe ne | o-Xylene | m,p-Xylene | Acrylonitrile | 4-Methyl-2- Penianone | 2-Hexanone | 1,2,3- Trichloropropan e | 1,1,2- Trichloroethane | 1,1,2,2- Tetrachloroetha ne | 1,1,1- Trichloroethane | 1,1,1,2- Tetrachloroetha ne |
| Date | Туре | Sample ID | ug/L | ug/L | ug/L | ug/L | սց/L | ս <u>ո</u> /L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | υg/L. | ug/L | იდ/L |
| 4/26/201 | il XX | LFXXXX4B3 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 | F12 |
| 4/24/201 | 2 XX | LFXXXX536 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 |
| 4/23/201 | 3 XX | LFXXXX5J8 | 1 ↓ | 1 U | 10 | 1 Ų | 10 | 1 ប | 1 U | 10 | 10 U | 10 U | 10 | 10 | 1 U | <u> 1 U</u> | <u> 1 U</u> |
| LF-UD | -5an | d6 | | | | | | | | | | | | | | | |
| 4/26/201 | 1 XX | LFXXXX484 | 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 | 0.5 U | 0.5 U |
| 4/24/201 | 2 XX | LFXXXX537 | 1 Ú | 1 U | 1 U | 1 Ų | 1 U | 1 ป | 10 | 1 U | 10 U | 10 U | 10 | 10 | 1 U | 10 | 10 |
| 4/23/201 | 3 XX | LFXXXXSJ7 | 10 | 1 U | 1 U | 1 U | 10 | 1 U | 10 | 1 U | 10 U | 10 U | <u>1U</u> | 1 U | 1 U | 1 U | 10 |
| LF-UD | -7 | | | | | | | | | | | | | | | | |
| 4/24/201 | | LFUO7X53A | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 | H2 |
| | | LFUD7X5JA | F6 | F6 | F6 | F6 | F6 | F6 | Fß | F6 | ₽6 | F6 | F6 | F6 | F6 | F6 | F6 |
| LF-UD |)_R | | | · <u></u> | | | | | | | | | | | | | |
| | | LFUD8X5JD | i 1 U | 1 U | T 10 1 | 1 U | 10 | 1 U | 1 U | 1 1 U | 10 U | _{10 U} | 1 U | 1 U | 1 U | 1 U | 1 U |
| LP-UD | | LI ODUNAD | . 10 | J | 10 | ' | | 10 | 1 .0 | 1 | 1,00 | | <u></u> | | <u> </u> | | _ |
| 7/28/200 | 4 XX | LPUD1X05G | i D | Т | Ð | |] D | D | D | T D' | D | D | D | D | D | D | D |
| 9/21/200 | | LPUD1X19F | D | · · · · · · · · · · · · · · · · · · | D | D | D | D | D | D | D | D | D | i D | D | D | D |
| 5/24/200 | 6 XX | LPUD1X1EA | Ð | D | D | D | 0 | D | D | D | D | D | <u>D</u> | D | D _ | D | <u> </u> |
| 5/16/200 | 7 XX | LPUD1X237 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 - |
| 5/20/200 | _ | LPUD1X2DF | . F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 F6 | F6 F6 | F6 F6 |
| 4/15/200 | | LPUD1X32H | F6 | F6 | F6 | <u>F6</u> | F6 ! | F6 | F6 | F6 F6 | F6 F6 | F6 | F6 F6 | F6 | F6 | F6 | F6 |
| 4/27/201 | | LPUD1X3JF !LPUD1X4A4 | F6 F6 | F6 F6 | F6 | F6 F6 | F6 | F6 F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | 5 | F6 |
| 4/26/201 4/24/201 | | LPUD1X527 | F6 | F6 | F6 | F6 | . F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 |
| 4/23/201 | _ , , , | LPUD1X5IB | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 | F6 |
| LP-UE | _ . | | | | | | | <u> </u> | • | | | | | | | | |
| 7/28/200 | 4 XX | LPUD2X05H | 2 Ų | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 Ü | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 20 |
| 9/21/200 | 15 XX | LPUD2X19G | 2 U | 2 U | 2 U | 2 U | 2 U | 2 ป | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 20 | _20 | . 2U |
| 5/24/200 | | LPUD2X1EB | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 ⊔ | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U 2 U |
| 5/16/200 | | LPUD2X238 | 2 U | 2.0 | 2 U | 2U | 2 U | 2 U | 2 U | - 20 | 10.0 | 100 | 2U | 2 U 2 U | 2 U 2 U | 2 U | |
| 5/20/200 | | LPU02X2DG LPU02X32I | 2 U | 10 | 2 U | 2U | 2U - | 1 0 | 2 U | 2 U | 10 U | 10 U | 2 U | 1 U | 1 U | 1 U | 1 U |
| 4/15/200 4/27/201 | | LPUD2X3JG | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 050 | 5 U | 5 U | 0.5 U | 05U | 0.5 U | 0.5 U | 0.5 U |
| 4/26/201 | | 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 | 5 U | 5 Ų | 0.5 U | 050 | 0.5 U | 0.5 U | 0.5 U |
| 4/24/201 | | LPUD2X528 | 1 U | j 1U | 1 U | 1 U | 1 U | 1 Ü | 1 U | 1 U | 10 U | 10 Ų | 10 | 1 U | 1 U | _ 1 U | 1 U |
| 4/23/201 | 3 XX | LPUD2X519 | 1 U | 1 U | 1 U | 1 U | 1 U | 10 | 1U | 10 | 10 U | 10 U | 10 | 1 U | 1U | 10 | 10 |
| MW-2 | 04 | | | | | | | | . | . , | | | , | | | | |
| | _ | GW204X008 | 2 U | . 2 ป | 20 | 2 U | 2 U | 2 U | 2U | 2U | 10 U | 10 U | 20 | 2 U | <u>2 U</u> | 2 U | 2 U |
| 7/27/200 | | | 2 U | 2 U | 20 | 20 | 2 U | 2 U | 2 U | 2 U 2 U | 10 U | 10 U | 2 U | 2 U | <u>2 U</u> 2 U | 2 U | 2 U |
| 9/20/200 5/23/200 | | | 2 U | 2 U 2 U | 20 | 2 U | 2 U | 2 U 2 U | - 2 <u>0</u> | 20 | 10 U | 10 U | 2 U | 2 U | 2 U | - 2 U | 2 U |
| | | GW204X23C | 2 U | 2 U | | 2 U | 20 | 20 | 20 | 20 | 10 0 | 10 U | 2 U | 20 | 20 | 2 U | 2 U |
| 5/21/200 | | | 20 | 20 | 2 0 | 2 U | 20 | 20 | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 4/13/200 | | | 1 U | 1 1 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 | 1 U |
| 4/28/201 | | | 0.5 Ų | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 05U | 5υ | 5.U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/26/201 | | GW204X4A9 | 0.5 U | 0.5 U | 0.5 U | 0.63 J | 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 | 0.5 U | 0.5 U |
| 4/24/201 | | | 10 | 10 | 10 | 10 | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 10 | 1 U | 1 U | 10 | 10 |
| 4/24/201 | iaj XX | GW204X5ID | 10 | 1 U | 10 | 10 | 1 U | 1 U | ⊥ <u>լ ۲۷</u> | 10 | 100 | 1 100 | - J <u>! Y</u> | 1 10 | _ <u></u> | <u> </u> | 1 10 |

| REPORT PREPARED: 3/17/2014 FOR: Juniper R | | | - | | | | MARY REPO | | | | | | 4 BLAN | & MAHER ENGII CHARO ROAD | • |
|---|----------------|----------------------------|------------------|----------|---------------------------------------|----------|------------|---------------|--------------------------|------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| (MW-401B) | Vinyl Chloride | Trichlorofluoro methanc | Trichloroethene | Toluene | Tetrachloroethe | o-Xylene | m,p-Xylene | Acrylonitrile | 4-Methyl-2- Pentanone | 2-Hexanone | 1,2,3- Trichloropropan | 1,1,2- Trichloroethane | 1,1,2,2. Tetrachloroetha | 1,1,1- Trichloroethane | 1,1,1,2- Tetrachloroetha |
| Date Type Sample ID | vg/L | ug/L | ug/L | ug/L | ug/L | ug/L | மஓ∕்∟ | ug/L | ug/L | ug/L | ė ug/L | ug/L | ne ug/L | ug/L | лс ug/L |
| MW-401B | | | | | | | | | | | | · | | | |
| 7/29/2004 XX GW401805A | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 20 | 2 ∪ | 2 U | 2 Ų | 2 U |
| 7/29/2004 XD GWDP4X05D | 2 U | 20 | 2 U | 2 U | 2 Ü | 2 U | 2 U | 2 U | 10 U | 10 U | 20 | 2 0 | 2 U | 2 U | 2 U |
| 10/27/2004 XX GW4018072 | 2 년 | 2 0" | 2 U | 2 U | 2 U | 2 U | 2 ป | 2 U | 10 U | 10 U | 2 U | 2 U | 2U | 2 U | 2 U |
| 9/21/2005 XX GW401B199 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 100 | 2 U | 2 U | 2 U | 2 U | 2 U |
| 9/21/2005 XD GWDP4X19C | 2 U | 2 U | 2.0 | 2 U | 2.11 | 2 U | 2U | 2 U | 10 U | 10 U | 20 | 20 | 2 U | 2U | 2 U |
| 5/23/2006 XX GW401B1E4 | 2 U | 2 U | 2.0 | 2 U | 20. | 2 U | 2U | 2 U | 10 U | 10 U | 2 U | 2 U | 2U | 2 U | 2 U |
| 5/23/2006 XD GWDP4X1E7 | 2 U | 2U | 2∪ | 2 U | 20 | 2 U | 2 U | 20 | 10 U | 10 U | | <u>' 2U</u> 2U | 20 | - 2U | 20 |
| 5/14/2007 XX GW4018231 | 2 U | 2 U | <u>! 2U .</u> | 2 U | 2 U | 20 | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | + 2 <u>0</u> | 2 U | 20 — |
| 5/14/2007 XD GWDP4X234 | 2 U | 2 U | <u> 2U</u> | 2.0 | 2 U | 20 | 2 U | 2 U | 10 U | - 10 U | 2 U | . - 20 - 2 U | - 2U | 20 | 20 |
| 5/20/2008 XX GW401B2D9 | 2 U | 20 | 2 U | 2U | | 2U · | 2 U | | 10 U | 10 U | 2 U | 20 | 2 U | 20 | 2 U |
| 5/20/2008 XD GWDP4X2DC 4/13/2009 XX GW401B32B | 10 | 2 U | 2 U | 2U 1U | 2 U | 1 Ü | 10 | + 10 | 10 U | 10 U | 10 | + 1U | 10 | 10 | 10 |
| 11 1012000 1 1 1 | 10 | 10 | 10 | 10 | | 10 | 1 U | ; 1U | 10 U | 10 U | 1 U | 1 0 | լ 1Մ | 1 U | 1 U |
| 4/13/2009 XD GWDP4X32E 4/27/2010 XX GW401B3.9 | 0.5 U | 05U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 05U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/27/2010 XD GWDP4X3JC | 0.50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/25/2011 XX GW401849I | 0.5 U | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 ป | 0.5 U | 05U | 5 U | 5 U | 0.5 U | 050 | 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 | 05U | 0.5 U | 05U | 5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 ป |
| 4/23/2012; XX GW401B521 | 1 U | 1 U | 1 U | 1 U | 10 - | 1 U | 1 U | 1 U | 10 U | 10 U | 1 Ų | 1 U | 1 U | 10 | ! 1U |
| 4/23/2012 XD GWDP4X524 | 10 | 1 Ü | 1 U | 1 U | 1 U | 1 U | 1 U | 10 | 10 U | 10 U | 1 U | 1.U | 10 | 10 | ¹U - |
| 4/22/2013 XX GW401B5i2 | 1 U | 1 υ | 1 ህ | 1 U | 1 U | 10 | 1 U | 1.Ú | 10 U | 10 U | 1 U | 10 | 1 U | 10 | - 1 U - |
| 4/22/2013 XD GWDP4X5I5 | 1 U | 1 Ų | 1 U | 10 | <u> </u> 1.U | i 1U | 1 U | 1 | 100 | 10 U | 1 <u>U</u> | 1 U | 1 U | 10 | 10 |
| P-04-02 | | | | | | | | | | | | | | | , |
| 7/26/2004 XX GWXXXX042 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 ป | 10 U | 10 U | 2 U | 2 U | 2U | 2 U | 20 |
| 9/22/2005 XX GWXXXX1A5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 20 | 2 U |
| 5/22/2006 XX GWXXXX1F0 | 2 U | 2 U | 2 U | 2.0 | 2 U | 2.0 | 2 U | 2 U | 10 U | 10 U | 20 | 2 U | 2 U | 20 | 2 U |
| 5/14/2007 XX GWXXXX23H | 2 U | 20 | 2 U | 2 U | 2 U | 2 U | 2 U | 20 | 10 U | 10 U | 2.0 | 2 U | 2.0 | 2 U | 20 |
| 5/21/2008 XX GWXXXX2E5 | 2 U | 20 | 20 | 2U | 20 | 2 U | 2 U | - 2U | 10 U | 10 U | 10 | - 2U | 10 | 18 | 10 |
| 4/13/2009 XX GWXXXX337 | 1 U | 1.0 | 1 U | 1 U | 10 | 1.U - | 10 | 1 U | 10 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/26/2010 XX GWXXXX405 | 0.5 U | 0.5.0 | 0.5 U | 0.5 U | 0.5 U | 050 | 0.5 U | 0.5 U | | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/27/2011 XX GWXXXX4AE | 0.5 U | 0.5 U | - 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 0.3 | 1 U | 10 | 10 |
| 4/25/2012 XX GWXXXX52H | 1 U | 10 | 1 " | 1 U | 1,0 | 1 | ' | + | | 1 | | - | • | , | ! |
| 4/22/2013 XX GWXXXX5II | 1 | | |] | · · · · · · · · · · · · · · · · · · · | <u>.</u> | | <u> </u> | | | | | <u> </u> | | |
| QCBT | | | 0.11 | | 1 20 | T | 211 | 2 U | 10 U | - 10 U | 2 U | | 2 U | 2 U | 2 U |
| 5/4/2004 XX BTXXXX00H | 2 U | 20 | 2 U | 20 | 2 U | 2U | 2 U | 2.0 | 10 U | | 2 U | 2U | 2 U | 2 U | 2 U |
| 6/9/2004 XX BTXXXX035 | 2 U | 20 | 2 U | 20 | 2U | 20 | 2 U | 2U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2.0 |
| 7/26/2004 XX BTXXXX045 10/27/2004 XX BTXXXX060 | 2 U | 20 | 20 | 20 | | 20 | 20 | - 20 20 | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| | 20 | 20 | 20 | 2 U | 2ป | 20 | 20 | 20 | 10 U | 10 U | 2 U | 2 U | 20 | 2 U | 2 ป |
| 1/17/2005 XX BTXXXX11E | 2 U | 20 | 2 U | 20- | 2 U | 20 | 2 U | 2.0 | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 3/21/2005 XX BTXXXX142 | 2 U | 20 | 2 U | 20 | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 5/11/2005 XX BTXXXX121 | 2 0 | 2 0 | 2 U | 2 U | 20 | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 20 |
| 7/25/2005 XX BTXXXX17G | 2 U | 2 U | 2 U | 2 Ų | 2 U | 20 | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 20 |
| 7/27/2005 XX BTXXXX187 | 2 U | 2 U | 2 U | 2Ų | 2 U | 2 U | 2 Ų | 2 U | 10 U | 10 U | 2 U | 2 U | 2.0 | 2 U | 2 U |
| 9/20/2005 XX BTXXXX1A7 | 2 U | 2 ป | 2 U | 20 | 2 U | 2 U | 2 U | 2 tj | 10 U | 10 U | 2 U | 2 U | 20 | 2 U | 2 U |
| 9/21/2005 XX BTXXXX1AI | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2.0 | 10 U | 10 U | 2 U _ | 2 U | 20_ | 20 | 2 U |
| 9/22/2005 XX BTXXXX1AJ | 2 U | 2 Ų | 2 U | 2 U | 20 | 2 U | 2 U | 2 U | 10 U | 10 U | 20 | 2 U | 20 | 20 | 20 |
| 4/19/2006 XX BTXXXX1FE | 2 U | 20 | 2 U | 2 U | 2U | 2.0 | 2 U | 2.0 | 10 U | 10 Ų_ | 2 U | 20 | 2 U | | 2 U |

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|------------|-----------|----------------------|----------------|----------------------------|-----------------|---------|-----------------------|----------|--------------|---------------|--------------------------|------------|--------------------------------|---------------------------|-----------------------------------|--|-----------------------------|
| | | | dge Landfill | | | | | | A (part 3 of | | | | | | 4 BLANC | k MAHER ENGI CHARD ROAD RLAND CENTER | |
| (QCBT) | | _ | Vinyl Chloride | Trichlorofluoro methane | Trichloroethene | Toluene | Tetrachloroethe ne | o-Xylene | m,p-Xylene | Acrylonittile | 4-Methyl-2- Pentanone | 2-Hexanone | 1,2,3- Trichloropropan e | 1,1,2- Trichloroethane | 1,1,2,2- Tetrachloroetha ne | 1,1,1- Trichloroethane | 1,1,1,2- Tetrachloroetha |
| Date | Type Sam | iple ID | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ng/L | ս <u>ք</u> /L | ug/L | ug/L | ug/L | ug/L |
| 5/22/2006 | хх втхххх | | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | T 10 U | 2 U | | 2 U | 20 | 2 U |
| 5/23/2006 | XX BTXXXX | | 2 U | 2 U | 2 U | 2 U | 2 U | 20 | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 5/24/2006 | XX BTXXXX | | 2 U | 2 U | 20 | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 7/25/2006 | XX BTXXXX | (1HJ | 20 | 2 U | 2 U | 2 U | 2 U | 2 Ų | 20 | 2 U | 10 Ų | 10 U | 20 | 2 U | 2 U | 2 U | 2 υ |
| 9/13/2006 | XX BTXXXX | | 2 U | 20 | 2 U | 2 Ų | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 5/14/2007 | XX BTXXXX | 23) | 2 U | 2 U | | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 5/15/2007 | XX BTXXXX | . — | 2 U | 2 Ü | 20 | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 20 | 2 ∪ | 2 U | 2 U | 2 U |
| 5/16/2007 | XX BTXXXX | (245 | 2 U | 2 U | 20 | 2 0 | 2 U | 20 | 2 U | 2 U | 10 U | 10 Ü | 2 U | 20 " | 2 U | 2 U | 2 U |
| 7/24/2007 | XX BTXXXX | (283 | 2 U | 2 Ų | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 20 | 2 U | 2 U | 2 U | 2 Ų |
| 9/11/2007 | XX BTXXXX | | 20 | 2 U | 2 U | 2 U | 20 | 2 U | 2 U | 2 U | 10 U | 10 Ü | 2ป | 2 U | 2 U | 2 U | 2 Ų |
| 5/19/2008 | XX BTXXXX | (2EC | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 10 U | 2 ∪ | 2 ป | 2∪ | 210 | 2 U |
| 5/21/2008 | XX BTXXXX | | 2 U | 2 U | 2 U | 2 ป | 2 U | 2 Ų | 2 U | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 7/29/2008 | XX BTXXXX | | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 ป | 2 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 10/29/2008 | XX BTXXXX | (301 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 10 | 10 | 1 U |
| 4/13/2009 | XX BTXXX | | 10 | 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 | 1 U |
| 4/15/2009 | XX BTXXXX | :33E | 10 | 1 U | 1 U | 1 Մ | 1 U | 1 U | 1 U | 1 U | ; 10 U | 10 U | 1 U | 1 Ų | 1 U | 1 U | 1 U |
| 7/7/2009 | XX BTXXX | (37H | 1 U | 1 U | 1 U | 10 | 10 | 1 U | 1 U | 10 | 10 U | 10 U | 1 U | 10 | . 1 U | 1 U | 10 |
| 10/28/2009 | XX BTXXXX | CAE) | 1 U | 1 U | 10 | 1 U | 10 | 1 U | 1υ | 1 U | 10 U | 10 U | 10 | 1 U | 1 U | 1 U | . 1 U |
| 4/26/2010 | XX BTXXXX | (40A | 0.5 U | 0.5 U | 0.5 U | 05U | 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 | 0.5 U | 050 |
| 4/27/2010 | XX STXXXX | (40B | 0.5 U | 0.5 U | 0.5 U | 05U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5.0 | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/28/2010 | XX BTXXXX | KHQ1 | 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 Ų | 0.5 U | 0.5 U | 0.5 U |
| 7/20/2010 | XX BTXXXX | (43F | 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 Ū | 5 U | 0.5 Ü | 0.5 U | 0.5 U | 0.5 U | 0.5 ∪ |
| 10/19/2010 | XX BTXXXX | K46I | 0.5 U | 0.5 U | 0.5 Ų | 0.5 U | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | | 5 U | 0.5 U | 0.5 U | 05U | 050 | 0.5 U |
| 4/25/2011 | XX BTXXXX | K4AJ | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 05υ | 5 U | 5 U | 051 | 0.5 U | 05U | 0.5 U | 0.5 U |
| 4/26/2011 | XX BTXXXX | K4B0 | 0.5 U | 0.5 U | 0.5 Ų | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 5 U | 0.5 ∪ | 0.5 U | 0.5 U | D.5 U | 0.5 U |
| 4/27/2011 | XX BTXXXX | K4B5 | 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 Ų | 5 U | 0.5 U | 0.5 U | 0.5 ∪ | 0.5 U | 0.5 U |
| 7/19/2011 | XX BTXXX | (4F3 | 0.5 U | 05U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 Ų | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 10/26/2011 | XX BTXXXX | (4G8 | 0.5 U | 05U | 0.5 U | 0.5 U | D.5 U | 0.5 U | 0.5 U | 0.5 U | 5 ψ | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/23/2012 | XX BTXXXX | | 1 U | 1 U | 10 | 1 U | 1 U | 1 () | 10 | 1 U | 10 U | 10 U | 1 U | 1 U | 1.0 | 1 U | 1 U |
| 4/24/2012 | XX BTXXXX | | 10 | 10 | 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 10 U | 10 U | 1 1 0 | 1 U | 1 U | 1 U | 1 U |
| 4/25/2012 | XX BTXXXX | | 1 U | 10 | 1 U | 1 U | 1 U | 10 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 | 1 U |
| 7/24/2012 | XX BTXXXX | X565 | 1 Ų | 10 | 1 U | 1 0 | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 10 | 1 U | 10 | 1 U |
| 10/23/2012 | XX BTXXXX | | 10 | 1 U | 1 U | 1 U | 10 | 1 Ü | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 | 1 U |
| 4/22/2013 | XX BTXXXX | X5J3 | 10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 10 | 1 U | 1 U |
| 4/23/2013 | XX BTXXXX | X 5J 4 | 10 | 1 0 | 1 U | 1 U | 1 1 0 | 10 | 1 년 | 1 U | 10 U | 10 U | 10 | 1 U | 10 | 1 U | 1 U |
| 4/24/2013 | XX BTXXXX | | 1 U | 1 0 | 10 | 1 U | 10 | 10 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 | 10 |
| 7/30/2013 | XX BTXXXX | | 10 | 2.5 U | 0.5 U | 0.75 U | 0.5 U | 1 U | 1 U | 5 U | 50 | 5 U | 5 U | 0.75 U | 0.5 U | 0.5 U | 0.5 U |
| 10/29/2013 | XX BTXXXX | | 20 | 5 U | 2 0 | 1 U | 2 U | 10 | 1 U | 20 U | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 υ |
| 10/29/2013 | | | 20 | 5 U | 20 | 1 1 0 | 2 U | 10 | 1 U | 50 U | 10 U | 10 U | | 2 U | 2 U | 2 U | |

| REPORT PREPARED: 3/17/201 | | | | | | SUM | MARY REP | ORT | | | | | Page 5 (| of 5 & MAHER ENG | INEERS INC. |
|---------------------------|----------------|----------------------------|-----------------|---------|-----------------------|----------|--------------|---------------|--------------------------|------------|---------------------------|---------------------------|-----------------------------|---------------------------|-------------------------------|
| FOR: Juniper f | Ridge Landfill | | | | | VC | A (part 3 of | 4) | | | | | 4 BLAN | CHARD ROAD RLAND CENTE | ., |
| (QCBT) | Vinyl Chloride | Trichlorofluoro methane | Trichloroethene | Toluene | Tetrachloroethe ne | o-Xylene | m,p-Xylene | Acrylonitrile | 4-Methyl-2- Pentanone | 2-Hexanone | 1,2,3- Trichloropropan | 1,1,2- Trichlgroethane | 1,1,2,2- Tetrachloroetha | 1,1,1. Trichloroethane | 1,1,1,2- e Tetrachloroetha |
| Date Type Sample ID | ug/L | L/gu | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | e ug/L | ug/L | ne ug/L | ug/L | πe ug/L |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- ! The sampling location was damaged or destroyed.
- 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
- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPOR | | RED: 3/17/2014 FOR: Juniper Ric | | | | | | | MARY REPO | | | | | | | 5 MAHER ENGII IARD ROAD | NEERS, INC. |
|----------------------|------------|------------------------------------|---------------|-------------------------------------|---------------------------------------|----------------|---|---------------------------------------|--|--|--------------------|--------------|--|----------|------------------|--|--------------|
| | | · • | | | | | | VO | A (part 4 of 4 | +) | | | | | | LAND CENTER | i, ME 04021 |
| (DP-4) | | | Vinyl Acetate | trans-1,4- Dichloro-2- butene | Iodomethane | | | | | | | | | | | | |
| Date | Туре | Sample ID | ug/L | ug/L | ug/L | | | | | | | | | | | | |
| DP-4 | | · · | | | | | | | | | | | | | | | _ |
| 7/26/200 | 4 XX | GWXXXXX041 | 15 U | 2 U | 2 U | } | | | | | | L | | | | | <u> </u> |
| 9/20/200 | | GWXXXX1A4 | 15 U | 2 U | 2 Ų | <u> </u> | | | | | | | | | | | |
| 5/22/200 | 7 | GWXXXX1EJ | 15 U | 2 U | 2 U | ļ | | | | | | | | | | | |
| 5/14/200 | 1 | GWXXXX23G | 15 U | 2 U | 2 U | | | | | | | L ——— | - | | · | | |
| 5/19/200 | | GWXXXX2E4 GWXXXX336 | 15 U | 2 U | 20 | | | <u> </u> | | | | | | | | | |
| 4/13/200 | - | GWXXXX404 | 1 U 0.5 U | 1 U 0.5 U | 1 U 0.5 U | | | | | | | | | | | | |
| 4/26/201 4/25/201 | - | GWXXXX4AD | 0.5 U | 0.5 U | 0.5 U | | | · · | 1 | <u> </u> | 1 | | 1 | | | | |
| 4/25/201 | | GWXXXX52G | 2.0 | 10 | 10 | ├ <i>┈</i> ──├ | | | | | | | | | | | |
| 4/24/201 | _ , , , , | GWXXXX5IH | 10 - | 1 U | 1 U | | | t | T | | | | | | | | |
| LF-CO | | | | | • | | | | | | | | | | | | |
| 4/24/201 | 2 XX | LFXXXX538 | 1 U | 1 U | 1 U | | | | <u> </u> | | 1 | i | | | | | <u> </u> |
| LF-UD |)-1 | | | | | | | | | <u></u> | | | | | | | |
| 7/28/200 | 4 XX | LFUD1X05E | 15 U | ; 2 U | 2 U | | | L | | | | <u> </u> | | | | | <u>!</u> |
| 9/21/200 | 71 | LFUD1X18D | 15 U | 2 U | 2 U | | | <u> </u> | <u> </u> | | | | | : | | | †· |
| 5/24/200 | | LFUD1X1E8 | 15 U | 2 U | | | | ļ | · . | · | | | | <u> </u> | | | - · |
| 5/16/200 | 1 | LFUD1X235 | 15 U | 2 U | | | | | - | i | + | <u> </u> | | | | | 1 |
| 5/20/200 4/15/200 | | LFUD1X2DD LFUD1X32F | 15 U | 2 U 1 U | 2 U | | | | - | | + | | | | | | 1 |
| 4/27/201 | , , , | LFUD1X3JD | 0.5 U | 10 | 0.5 U | : | | · · · · · · · · · · · · · · · · · · · | . — | | | | <u> </u> | | | | |
| 4/26/201 | | LFUD1X4A2 | 0.5 U | 0.5 U | 0.5 U | | | † · · · | | | | | | | · | | <u> </u> |
| 4/24/201 | 2 XX | LFUD1X525 | H2 | H2 | H2 | | | Ī | | | | | | | | | |
| | | LFUD1X5I6 | 1.0 | 10 | 1 U | | | ١ | .l | | <u>. L</u> <u></u> | | L | | | | <u> </u> |
| LF-UI | | | | | | | | - | | | | | - · | | r ··- | | |
| 7/28/200 | | LFUD2X05F | 15 U | 2 U | 2 U | | | | | | <u> </u> | | <u> </u> | | <u>-</u> - · ·—— | | |
| 9/21/200 | | LFUD2X19E | 15 U | 20 | 2 U | <u> </u> | | | | | | | | | | <u> </u> | + |
| 5/24/200 | | LFUD2X1E9 | 15 U | 2 U | 2 Ų | } | | | <u>.</u> |] | | <u> </u> | - | | | | |
| 5/16/200 | _ | LFUD2X236 LFUD2X2DE | 15 U | 2 U | 20 | | | | | | | | | | | | |
| 5/20/20X | | LFUD2X32G | 15 U | 1 U | 1 U | + | , | | | · · · · · · · · · · · · · · · · · · · | - | ÷ | † | | | | |
| 4/27/20 | | LFUD2X3JE | 0.50 | 0.5 U | 0.5 U | † | | | | | | | r — | | | | |
| 4/26/201 | ıı xx | LFUD2X4A3 | 0.5 U | 0.5 U | 0.5 U | 1 | | | | | | | 1 | | | | |
| 4/24/20 | 12 XX | LFUD2X526 | H2 | H2 | H2 | | | | | | | | L | | | L .— | |
| 4/23/20 | 13 XX | LFUD2X517 | 1 U | 1 U | 10 | | | | <u> </u> | | <u> </u> | L | L | l | L | L | |
| LF-UI | | | | | | | | | | | | | | , | | | |
| 5/16/200 | 77 XX | LFUD3X246 | 15 U | 2 U | 2 U | | | | | | | ļ | ļ | | ·- | _ | |
| 5/20/200 | DB XX | LFUD3X2EE | 15 U | 2 U | 2 U | | | | | 1 | - | <u> </u> | <u> </u> | | <u> </u> | | - |
| 4/15/200 | 09 XX | LFXXXX33F | 10 | 1 U | 10 | | | | | | | | | | | | + |
| 4/27/20 | IOI XX | LFXXXX40C LFXXXX4B1 | 0.5 U | 0.5 U | 0.5 U | | | + | | | | | | | | | + |
| 4/26/20 | 11 XX | LFXXXX4B1 | 05U H2 | H2 | H2 | - | | | + | | | | | | | <u> </u> | 1 |
| 4/23/20 | 12 AX | LFXXXX5J5 | F6 | F6 | F6 | † | | | 1 | | | | <u> </u> | | | | |
| LF-UI | | | | | · · · · · · · · · · · · · · · · · · · | | | | - | | | | | | | | |
| | | LFXXXX34A | 10 | 1 <u>1</u> U | 10 | 1 | | 1 | | 1 | ı· | Τ | | 1 | | Γ. | T |
| 4/15/20 | 10: XX | LFXXXX40E | F6 | F6 | F6 | | | | - | | - | | 1 | | <u> </u> | | |
| 4/2//20 | · ~ _ ~ _ | | · F0 | 1 10 | | | | | | | ! | | · | | | | |

| REPORT PREPARED: 3/17/201 FOR: Juniper P | | | | | | | MARY REPO | | | | | | 4 BLANC | I 6 MAHER ENGI HARD ROAD RLAND CENTE | |
|--|---------------|-------------------------------------|-------------|--------------|--------------|----------|----------------|--------------|--|--|--------------|--|--|---|----------------|
| (LF-UD-4) | Vinyl Acetate | trans-1,4- Dichloro-2- butene | Iodomethane | · | | | | | | | | | | | |
| Date Type Sample ID | ug/L | vg/L | ug/L | | | | | | | | | | | | |
| 4/26/2011 XX LFXXXX4B3 | F12 | F12 | F12 | | | | | | Ţ | | | | | 1 | + |
| 4/24/2012 XX LFXXXX538 | H2 | H2 | H2 | | <u> </u> | | | | | | | | | | |
| 4/23/2013 XX LFXXXX5J6 | 10 |] 1 <u>U</u> | 1 U | | l | | | | <u> </u> | <u> </u> | l | 1 | L | <u> </u> | |
| LF-UD-5and6 | | | | | | | | | | | | | | | |
| 4/26/2011 XX LFXXXX4B4 | 050 | 0.5 U | 0.5 U | | | | | | | | | · + | <u> </u> | <u> </u> | |
| 4/24/2012 XX LFXXXX537 | 1 U | 1 1 | 1 U | | | | | | | | | + | | | |
| 4/23/2013 XX LFXXXX5J7 | 10 | 1 U | 1 1 1 1 | | .L | | l | <u> </u> | _l | 1 | | _ | L | l | |
| LF-UD-6 | | | | | | | | | | | | | | | _ · · · · · |
| 4/26/2011 XX LFUD9X4B6 | 0.5 Ų | 0.5 U | 0.5 U | | | | | | | | | ļ | | | 1 |
| 4/24/2012 XX LFUD6X539 | 1 U | 1 U | 1 U | | | | | | | <u> </u> | | 1 | <u> </u> | 1 | + |
| 4/23/2013 XX LFUD6X5J9 | <u> 1 U</u> | 10 | 10 | | | | ! | L | -l | | | | <u> </u> | 1 | |
| LF-UD-7 | | | | | | | | | | | | | | _ | |
| 4/24/2012 XX LFUD7X53A | H 2 | H2 | H2 | | | | | | Ĭ | | | | : | | |
| 4/23/2013 XX LFUD7X5JA | F6 | F6 | F6 | | | | | <u> </u> | l | | L | | ! | <u></u> | |
| LF-UD-8 | | | | | | | | | | | | | | | |
| 4/23/2013 XX LFUD8X5JD | 10 | 1 0 | 10 | | T | | · | : | | T | Τ | 1 | | | |
| LP-UD-1 | | | | | | | · · | | | | * | | | | |
| 7/28/2004 XX LPUD1X05G | 1 5 | · | D | | ı | | <u> </u> | | | T | Τ | 1 " | T | | T |
| 9/21/2005 XX LPUD1X19F | D D | D | D | | · · | | - - | | + | · · · · · · · · · · · · · · · · | | + | | T | |
| 5/24/2006 XX LPUD1X1EA | 1 0 | D | D | | 1 | | - | + | 1 | | | | | | J |
| 5/16/2007 XX LPUD1X237 | F 6 | F6 | F6 | | | 1 | | | <u> </u> | T | | | T | |] |
| 5/20/2008 XX LPUD1X2DF | F6 | F6 | F6 | | | | | | | | | 1 | <u> </u> | | _ |
| 4/15/2009 XX LPUD1X32H | F6 | F6 | F6 | | 1 | | | | _ | | | | | | |
| 4/27/2010 XX LPUD1X3JF | F6 | F6 | F6 | | | | | | | | | | ļ | <u> </u> | - |
| 4/26/2011 XX LPUD1X4A4 4/24/2012 XX LPUD1X527 | F6 | F6 | F6 F6 | | | | | | | ! | | | + | - | - ! |
| 4/24/2012 XX LPUD1X527 4/23/2013 XX LPUD1X518 | F6 | F6 | F6 | | | | 1 | + | · | | ! | | | 1 | |
| LP-UD-2 | 1 10 | _L. 'Y | 1 10 | L | 1 | | | <u></u> | | | | 1 | | | |
| | 45.1 | T | | | | 1 | | | | | | <u> </u> | T | T | |
| 7/28/2004 XX LPUD2X05H 9/21/2005 XX LPUD2X19G | 15 U | 20 | 2 U 2 U | | | | | - | - | + | | + | + | | + |
| 5/24/2006 XX LPUD2X1EB | 15 U | 20 | 20 | | | | | | | | | | | † | |
| 5/16/2007 XX LPUD2X238 | 15 U | 2 U | 20 | | | | | | | | | | | | |
| 5/20/2008 XX LPUD2X2DG | 15 U | 20 | 2 U | | . | | | | | | | | 1 | | |
| 4/15/2009 XX LPUD2X32I | 10 | 10 | 1 U | | | | | | | | | | <u> </u> | | .4. |
| 4/27/2010 XX LFUD2X3JG | 0.5 U | 0.5 U | 0.5 U | | ļ | | | | | - | <u> </u> | | | ļ | + |
| 4/26/2011 XX LPUD2X4A5 | 0.5 U | 0.5 U | 0.5 U | 1 | | | | | | - | | | + | | |
| 4/24/2012 XX LPUD2X528 4/23/2013 XX LPUD2X5I9 | 2 U | 1 U 1 U | 1 U | | | - | | | | + | : | | + | | - |
| MW-204 | 1 10 | l | 1 10 | <u> </u> | .1 | | | <u> </u> | 1 | 1 | | 1 | | | |
| l | | | | r | т | | | -1 | T | | -T | T | 1 | | 1 |
| 5/4/2004 XX GW204X008 7/27/2004 XX GW204X03G | 15 U | 2 U 2 U | 2 U | | | | | + | + | + | | + | - | † | + |
| 9/20/2005 XX GW204X1A0 | 15 U | 2 U | 20 | | + | - | <u> </u> | | + | | + | | | | |
| 5/23/2006 XX GW204X1EF | 15 U | 2 U | 2 U | | | <u> </u> | | | | | · | | | | T |
| 5/14/2007 XX GW204X23C | 15 U | 2 U | 2 U | | 1 | | | | | | | | | ļ | |
| 5/21/2008 XX GW204X2E0 | 15 U | 2 Ų | 2 U | T | - | | | | | | <u> </u> | | Ι | _l | _] |

| (MW-204) Date Type S 4/13/2009 XX GW 4/28/2010 XX GW 4/28/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW MW-401B 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 6/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X4A9 W204X52C W204X5ID W401B05A WDP4X05D W401B072 W401B199 | Vinyl Acctate ug/L 1 U 0.5 U 1 U 1 U 15 U 15 U | trans-1,4- Dichloro-2- butene ug/L 1 U 0.5 U 0.5 U 1 U | 1 U 0.5 U 0.5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U | | | V | OA (part 4 of | 4) | | _ | | | 4 BLANCH | MAHER ENGINI IARD ROAD LAND CENTER, | |
|---|--|---|---|---|------------|--|--|--|--|--|--|-----------|--|--|---|------------------------------------|
| Date Type S 4/13/2009 XX GW 4/26/2010 XX GW 4/26/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW MW-401B 7/29/2004 XX GW 7/29/2004 XX GW 10/27/2004 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 6/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X332 W204X400 W204X4A9 W204X52C W204X5ID W401B05A W401B05A W401B072 W401B072 | ug/L 1 U 0.5 U 0.5 U 1.5 U 1.0 U | Dichloro-2- butene ug/L 1 U 0.5 U 0.5 U 1 U | ug/L 1 U 0.5 U 0.5 U | | | | | | | _ ' | | | | | |
| 4/13/2009 XX GW 4/28/2010 XX GW 4/26/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW 7/29/2004 XX GW 7/29/2004 XX GW 9/21/2005 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X332 W204X400 W204X4A9 W204X52C W204X5ID W401B05A W401B05A W401B072 W401B072 | 1 U 0.5 U 0.5 U 1 U 1 U | 1 U 0.5 U 0.5 U 1 U 1 U | 1 U 0.5 U 0.5 U | | | | ₁ | | | | | | | | |
| 4/28/2010 XX GW 4/26/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW MW-401B 7/29/2004 XX GW 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X400 W204X4A9 W204X52C W204X5ID W401B05A WDP4X05D W401B072 W401B190 | 0.5 U 0.5 U 1 U 1 U | 0.5 U 0.5 U 1 U | 0.5 U 0.5 U 1 U | | | | | | | | | | | | |
| 4/28/2010 XX GW 4/26/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW MW-401B 7/29/2004 XX GW 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X400 W204X4A9 W204X52C W204X5ID W401B05A WDP4X05D W401B072 W401B190 | 0.5 U 0.5 U 1 U 1 U | 0.5 U 0.5 U 1 U | 0.5 U 0.5 U 1 U | | | | | 1 | T | 1 | | | | | |
| 4/26/2011 XX GW 4/24/2012 XX GW 4/24/2013 XX GW MW-401B 7/29/2004 XX GW 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 5/23/2006 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W204X4A9 W204X52C W204X5ID W401B05A WDP4X05D W401B072 W401B199 | 1 U 1 U | 1 U | 1 U | | | | . | | T:- | | | | | | |
| 4/24/2013 XX GW MW-401B 7/29/2004 XX GW 7/29/2004 XX GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XX GW 5/23/2006 XD GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W401805A W0P4X05D W4018072 W4018190 | 1 U | 10 | | | | | | | | | | | | | |
| 7/29/2004 XX GW 7/29/2004 XX GW 7/29/2004 XX GW 7/29/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XX GW 5/23/2006 XX GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W401805A W0P4X05D W4018072 W4018199 | 15 U | | 1 U | | | | | | | | | | | | |
| 7/29/2004 XX GW 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XX GW 5/23/2006 XD GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | WDP4X05D W401B072 W401B199 | | | | | | | | | <u>.</u> | : | | | | | |
| 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XD GW 5/23/2006 XD GW 5/14/2007 XX GW 5/14/2007 XD GW 6/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | WDP4X05D W401B072 W401B199 | | | | | | | | | | | | | | | |
| 7/29/2004 XD GW 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XD GW 5/23/2006 XD GW 5/14/2007 XX GW 5/14/2007 XD GW 6/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W4018072 W401B199 | | 2 U |] 2U 1 | | T | T | | 1 | | | |] | | | |
| 10/27/2004 XX GW 9/21/2005 XX GW 9/21/2005 XD GW 5/23/2006 XX GW 5/23/2006 XD GW 5/14/2007 XX GW 5/14/2007 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/13/2009 XX GW | W401B199 | 100 | 20 | 2 U | | | | | | | | | | | | |
| 9/21/2005 XX CW 9/21/2005 XD GW 5/23/2006 XX GW 5/23/2006 XD GW 5/14/2007 XX GW 5/20/2008 XX GW 5/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XX GW 4/27/2010 XX GW | | 15 U | 2.0 | 2 U | | l | | | | | | | | | | |
| 5/23/2006 XX GW 5/23/2006 XD GW 5/14/2007 XX GW 5/14/2007 XD GW 5/20/2008 XX GW 6/20/2008 XX GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | WDD4X19C | 15 U | 2 U | 2 U | | | | | | | <u></u> | | | | | |
| 5/23/2006 XD GW 5/14/2007 XX GW 5/14/2007 XD GW 5/20/2008 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | 77.100 | 15 Ų | 2 U | 2 U | | | <u> </u> | | .] | | <u> </u> | | <u> </u> | | | |
| 5/14/2007 XX GW 5/14/2007 XD GW 5/20/2008 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | W40181E4 | 15 U | 2 U | 2 U | | | <u> </u> | | _ | | | | ļ | <u> </u> | | |
| 5/14/2007 XD GW 5/20/2008 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | WDP4X1E7 | 15 U | 20 | 20 | | | | | | <u> </u> | ! | | | | | |
| 5/20/2008 XX GW 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | W401B231 | 15 U | 2 U | 2 U | · - | | | | 1 | <u> </u> | | | | | - | |
| 5/20/2008 XD GW 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | WDP4X234 | 15 U | 2 U | 2 U | | ļ | | | 1 | | <u>;</u> | | | | | |
| 4/13/2009 XX GW 4/13/2009 XD GW 4/27/2010 XX GW | W401B2D9 | 15 U | 2.0 | 20 | | | | | | | | | · ·— | | | |
| 4/13/2009 XD GW 4/27/2010 XX GW | WDP4X2DC | 15 U - | 2 U | 20 | | | | _ | | | | | | | | |
| 4/27/2010 XX GW | W401B32B | 1 U _ | 1 U | 10 | | | | | | | · | | · | | | |
| 11.0 | WDP4X32E | 1 U _ | 10 | 10 | | <u> </u> | } | | | | · | | | | | |
| 4/27/2010 XD 99 | W401B3J9 | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | · | | | |
| | WDP4X3JC | 0.5 U | 0.5 U | 0.5 U | | | | - | + | | · | | | | | |
| | W401B49I WDP4X4A1 | 0.5 U | 0.5 U | 0.5 U | | | - | - | 1 | ļ-·· | | | <u> </u> | | | ·································· |
| | W4018521 | 2 U | 10 | 1 U | | | | | | | | | | | | · · |
| | WDP4X524 | 2 U | 1 0 | 10 | | | · | | | | † | | · · · · · · | | | |
| 4/22/2013 XX :GW | W40185I2 | 1 U | 10 | 10 | | | + | | | | <u> </u> | | · · | | | |
| 4/22/2013 XD GV | WDP4X5I5 | 1 1 | 10 | 10 | I | | - | | | | † | | ļ | | | |
| P-04-02 | | l | · | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| | SWXXXX042 | (45 H | 7.0 | 7 24 | | <u> </u> | [| <u> </u> | - - T· | 1 | T | | | | | _ · |
| | WXXXXXI42 | 15 U | 2 U | 2 U | | 1 | | - | · | | + | | | | | |
| | SWXXXX1F0 | 15 U | 20 | 2 U | | | + | | | - | | . | | <u> </u> | | |
| | SWXXXXXIFU | 15 U | 20 | 1 2U | | | + | | + | | | | | 1 | | |
| | WXXXX2E5 | 15 U | 20 | 2 U | | | 1 | | | 1 | † ··· | | | †· ··· | <u> </u> | |
| | SWXXXX337 | 10 | 1 U | 1 U | | | | | ··† | 1 | | | | 1 | | |
| | WXXXX405 | 0.5 U | 0.50 | 0.5 U | | | | | | | | | | | | L |
| | SWXXXX4AE | 0.5 U | 0.5 U | 0.5 U | | + | | | | | 1 | | | | | L |
| | SWXXXX52H | 2 U | 1 U | 10 | | 1 | | | <u> </u> | 1 | | L | | L | | |
| 4/22/2013 XX GV | | 1 | ! | 1 | | | <u> </u> | 1 | | II. | | | : | <u></u> | [| <u></u> |
| QCBT | | | | | | • | | • | | | | | | | | |
| 5/4/2004 XX 8T | TXXXX00H | 15 U | 2 U | 2 U | | | - - · | | | T - ~- | 1 | Γ | | Τ | | |
| 6/9/2004 XX BT | TXXXX035 | 15 U | 20 | 2 U | | - | | | | | | | | | | (|
| 7/26/2004 XX BT | TXXXX046 | 15 U | 2 U | 20 | | | + | | | | | | | " | | l |
| 10/27/2004 XX BT | TXXXX080 | 15 U | 2 U | 2 U | 1 | 1 | + | | | - · | · · · · · · · · · · · · · · · · · · · | | <u> </u> | | | |
| 1/17/2005 XX BT | | 15 U | 2 U | 20 | | | | | 1 | | 1 | | | | | |
| 3/9/2005 XX BT | TXXXX11E | 15 U | 20 | 2 U | | | | | 1 | | T - | | <u> </u> | | | |
| 3/21/2005 XX BT | STXXXX142 | 15 U | 20 | 2 U | | | - | | - † — — | | <u> </u> | | | | | |
| 5/11/2005 XX BT | 3TXXXXX121 | 15 U | 20 | 2 Ų | | | | | | | <u> </u> | | 1 | | <u> </u> | [|
| 7/25/2005 XX BT | | 15 U | 2 U | 2 U | † | | | | | ~ <u></u> ; | | | | į | | (" |

| REPORT | PREPARED: 3/17/201 | 4 09:51 | | | | | SUMN | MARY REPO | DRT | — v | | | | Page 4 o | f 5 MAHER ENGII | NEEDS INC |
|------------|--------------------|----------------|-------------------------------------|-------------|---|---|--|--|--|--|--|--|--|---------------|--|--|
| | FOR: Juniper | Ridge Landfill | | | | | VO | A (part 4 of | 1) | | į. | | | 4 BLANC | MAHER ENGI HARD ROAD RLAND CENTER | |
| (QCBT) | | Vinyl Acetate | trans-1,4- Dichloro-2- butene | lodomethane | · | | | | | | | | | | | |
| Date | Type Sample ID | цеЛ | ug/L | ug/L | | | | | | | | | | | | |
| 7/27/2005 | XX BTXXXX187 | 15 Ų | 2 U | 2 U | | | | | | | | | | | | |
| 9/20/2005 | XX BTXXXX1A7 | 15 U | 2 U | 2 U | | | | | | | I | 1 | | | | |
| 9/21/2005 | XX BTXXXX1A1 | 15 U | 2 U | 20 | | | | | | | | 1 | <u> </u> | _ | | ! |
| 9/22/2005 | XX ETXXXXIAJ | 15 U | 2 U | 2 U | | | | | | | | | | | | 1 _ |
| 4/19/2006 | | 15 U | 2 U | 2 U | | | | | | |] | | | | | _ |
| 5/22/2006 | XX BTXXXX1F2 | 15 Ų | 2 U | 2 U | | | | | | | L | | | | | |
| 5/23/2006 | | 15 U | 2 U | 2 U | | | | | | | | | | | L | |
| 5/24/2006 | | 15 U | 2 Ų | 2 U | | | l | 1 | | | | | | | | |
| 7/25/2006 | XX BTXXXX1HJ | 15 U | 2 U | 2 ป | | | L | | | | | <u> </u> | <u>.</u> | | | |
| 9/13/2006 | XX BTXXXX20C | 15 U | 2 U | 2 U | | | | L | | | | | <u>.</u> | | | |
| 5/14/2007 | XX BTXXXX23J | 15 U | 2 U | 2 U | | | | | | ļ | | | | | | |
| 5/15/2007 | XX BTXXXX244 | 15 U | 2 U | 2 U | | | | | | .l | | | | | l | |
| 5/16/2007 | XX 6TXXXX245 | 15 U | 2 U | 2 U | | | | | | | l | | <u>i</u> | | | |
| 7/24/2007 | XX BTXXXX283 | 15 U | 2 U | 21/ | | | | | | | ľ., | | | | <u></u> | ļ |
| 9/11/2007 | XX 6TXXXX2AD | 15 U | 2 U | 2 U | | | | | | 1 | | | | | | |
| 5/19/2008 | XX BTXXXX2EC | 15 U | 2 U | 2 U | | | 1 | | | 1 | | | | | | |
| 5/21/2008 | | 15 U | 2 U | 2 U | | | | | | | | " | | | | l ' |
| 7/29/2008 | XX BTXXXX2HB | 15 U | 2 U | 2 U | | | | | | | | | | | | |
| 10/29/2008 | | 10 | 1 U | 10 | | | 1 | | | | | | | | | |
| 4/13/2009 | | 10 | 1 U | 10 | | - | | | | | · | 1 | | , | | |
| 4/15/2009 | L | 1 U | 1 U | 1 U | <u> </u> | | | • | | | | | | | T | |
| 7/7/2009 | | 10 | 1 U | , 1U | <u> </u> | | | | | † | | | | | ļ . | |
| 10/28/2009 | | 18 | 10 | 1 U | | | | 1 | | † | | | | | ! | |
| 4/26/2010 | <u> </u> | 0.5 U | 05U | 05U | , | | | | | | | | | | i | <u> </u> |
| 4/27/2010 | i | 0.5 U | . 05U | 05U | †··· | | | | | | | | | | | T : |
| 4/28/2010 | I | 0.5 U | 0.5 U | 05U | + · · · | | + | | i · | | | 1 | | | | |
| 7/20/2010 | L: " | 05U | 05U | 05U | 1 | | + | | <u>.</u> — | | ļ | | | | | |
| 10/19/2010 | I | 05U | 0.5 U | 05 U | · · · · · · · · · · · · · · · · · · · | | | | † : -: | 1 | | <u> </u> | | | | <u> </u> |
| 4/25/2011 | | 05U | 0.5 U | 0.5 U | | | | 1 | | · | | <u> </u> | | | <u> </u> | |
| 4/26/2011 | | 0.5 U | 0.5 U | 0.5 U | | | : | 1 | | | 1 | | | · | | |
| 4/27/2011 | <u> </u> | 0.5 U | 0.5 U | 0.5 U | | | | 1 | | | 1 | <u> </u> | | | † | |
| 7/19/2011 | | 0.5 U | 0.5 U | 0.5 U | <u> </u> | | | 1 | | | | | | | T . | |
| 10/26/2011 | | 0.5 U | 0.5 U | 0.5 U | i : | | | <u> </u> | | 1 | | | | | <u> </u> | 1 |
| 4/23/2012 | | 20 | 10 | 10 | <u> </u> | | 1 | | | | <u> </u> | | | | | |
| 4/24/2012 | | 20 | +- i ö | 10 | l | | + | † ·· · | | | | | | 1 | | |
| 4/25/2012 | | 2 U | 10 | 10 | I | | | 1 | | | | | | | 1 | T |
| 7/24/2012 | | 1 1 U | 1 U | 1.5 | - | | - | | | | | + | | | · | |
| 10/23/2012 | | 1 1 U | 1 1 U | 1.U | | | + | | | | · · · · · · | | - | | † | |
| 4/22/2013 | | 10 | 1 Ų | 1 U | | | | | t | + · · · · | · · · · · · · · · · · · · · · · · · · | + | • | | | |
| 4/23/2013 | | 10 | 1 U | 10 | · · · | | | | | +- ··· | | + | • | | | |
| 4/23/2013 | | 10 | 1 0 | 10 | | | | | | + | · · · · | + | : | | + | |
| • | | _ | | 50 | | | - | | | +- | | + | ! | | + | |
| 7/30/2013 | 1 1 3 1 | 50 | 2.5 U | | - · · - | | -} | | | | | + | + | | + | + |
| 10/29/2013 | | 10 U | 5 U | 50 | | | | | | | - | + | + | | | + |
| 10/29/2013 | XX BTXXXX89H | 10 ប | | <u> </u> | J | | | | L | L | 1 | 1 | 1 | | i | 1 |

| REPORT PREPARED: 3/17/2014 FOR: Juniper Ric | | | | SUMMARY REPORT VOA (part 4 of 4) | Page 5 of 5 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|--|------|-------------------------------------|-------------|-----------------------------------|---|
| (QCBT) | | trans-1,4- Dichloro-2- butene | Iodomethane | | 1 |
| Date Type Sample ID | ug/L | ug/L | ug/L | | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- ! The sampling location was damaged or destroyed.
- 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
- U Not Detected above the reported sample detection limit.

| REPORT PREPARED: 12/3/ FOR: Junip | 2013 14:26 ver Ridge Landfilli | | MARY REPO | PRT | | | | | 4 BLANC | MAHER EN | NGINEERS, INC. ND ITER, ME 04021 |
|--------------------------------------|-----------------------------------|---|-----------|----------|----------|----------|----------|----------|----------|----------|--|
| (MW12-303R) | Methane ug/L | | | | | | | | | | |
| Date Type Sample | ID | | | | | | | | | | |
| MW12-303R | | | | | | | | | | | |
| 7/29/2013 XX GW303X651 | 6.6 U | | L . | <u>!</u> | | l | l | 1 | <u> </u> | <u></u> | |
| MW-223A | | | | | | | | | | | |
| 7/30/2013 XX GW223A63A | 6.6 U | | | | | | <u> </u> | <u> </u> | | <u> </u> | 1 |
| MW-223B | | | | | | | | | | | |
| 7/30/2013 XX GW223864J | 40.6 | | I | | | | <u> </u> | | | | |
| 10/29/2013 XX GW223867C | 9.2 | | i | L | | <u> </u> | | Д | Ļ | <u> </u> | |
| MW-302R | | | | | | | | | | | |
| 7/29/2013 XX GW302X64H | 6.6 U | | L | | <u> </u> | | | | <u></u> | <u> </u> | |
| MW-304A | | - | | | | | | | | | |
| 7/29/2013 XX GW304A64G | 6.6 U | | I | | | | L | | | | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

Leachate Locations

| REPORT | PREP | ARED: 12/3/2013 FOR: Juniper Ri | | | | | | | MARY REPOR | | | | | | 8 | BLANCHARD | R ENGINEERS, INC ROAD CENTER, ME 04021 |
|------------|------|------------------------------------|---|----------------------|-----------------------------|--------------|-----------------------------|---------------------------------------|-------------------|---------------|---|--|-------------|-------------|----------|-------------|--|
| (LT-C4L) | - | Sample ID | Specific Conductance pathos/gm @25°C | pH Standard Units | Temperature Degrees Celoius | Corrected Eh | Dissolved Oxygen mg/L | Alkalizity (CaCO3) (field) mg/L | Turbidity (field) | | | | | | | | · |
| LT-C4I | | | | | | | | | | | | | | | | | |
| 4/15/2009 | XX | LTC4LX325 | 29800 | 7.1 | 18.6 | 95 | D2 | D3 | 1100 > | | | Τ | 1 | | <u>_</u> | | |
| 7/7/2009 | XX | LTC4LX368 | 20000 > | 7.6 | 17.8 | 217 | 8 | D3 | 400 | | | | | | <u> </u> | | - |
| 10/28/2009 | XX | LTC4LX3E4 | 24300 | 7.3 | 17.6 | 102 | D2 | D3 | 230 | | | | 1 | | | | |
| 4/28/2010 | XX | LTC/LX3J3 | 23200 | 7.3 | 17,7 | 145 | 2 | 1813 | 170 | | | | · | | 1 | | |
| 7/20/2010 | XX | LTC4LX427 | 23400 | 6.9 | 21.8 | 33 | D2 | D3 | D3 | | | | _ † | | | | |
| 10/19/2010 | XX | LTC4LX45B | 28300 | 7,1 | 19.6 | 113 | 2 | 1313 | 20 | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| 4/27/2011 | XX | LTC4LX49C | 18420 | 6.9 | 17.4 | 109 | | 1563 | 8.4 | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 7/19/2011 | ХX | LTC4LX4DA | 30700 | 7 | 28.3 | 115 | 2 | 1688 | 44 | | | | | | | | |
| 10/26/2011 | | LTC4LX4H5 | 15850 | 7,1 | 18.3 | 100 | 1 | 750 | 6.1 | | | 1 | [| | | | |
| 4/24/2012 | ж | LTC4LX51F | 11470 | 6.7 | 15.7 | -27 | 2 | 688 | 14.9 | | | <u> </u> | | | | <u> </u> | |
| 7/24/2012 | XX. | LTC4LX66E | 25300 | 6.8 | 24.8 | -93 | 3 | D3 | D3 | | | | | | | | |
| 10/23/2012 | | LTC4LX5D5 | 19800 | 6.8 | 17.3 | -33 | D2 | D3 | D3 | $\overline{}$ | | · | | | | <u> </u> | |
| 4/23/2013 | XX | LTC4LXBHG | 18590 | 7.1 | 17.1 | 92 | 1. 1. | 1500 | 18.9 | | • | | | | | | - |
| LT-C4I | Ŗ | | | | | | | | | | | | ' | • • • • • | | | |
| 7/30/2013 | XX | LTC4LX641 | 23400 | 6.7 | 23.6 | 44 | D2 | D3 | D3 | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| 10/29/2013 | XX | LTC41X66E | 24100 | 6.8 | 11.3 | 92 | D2 | D3 | D3 | | | | | | | | · |

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 | PREP/ | RED: 12/3/2013 | 12:41 | | | | | SUM | MARY REPO | ORT | | | | | Page 1 of | 1 | |
|------------|----------|----------------|----------------------------|-------------|-------------|-------------------------|---------------------------|------------------------------|--------------|---------|-------------------------------|------------------------|-----------------------|----------------|------------------------------|---|---|
| | | FOR: Juniper R | idge Landfill | | | | I | | norganics (p | • | | : | | | 4 BLANCH | MAHER ENGIN IARD ROAD AND CENTER, | · |
| (LT-C4L |) | | Total Kjeldahl Nitrogen | Ammonia (N) | Nitrate (N) | Phosphate Phospherus | Total Dissolved Solids | Total Suspended Solids | Sulfate | Sulfide | Ca-rng Hardness (CaCO3) | Bicarbonate (CaCO3) | Alkalinity (CaCO3) | Organic Carbon | Biochemical Oxygen Demand | | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/I. | mg/I. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | |
| LT-C4I | <u> </u> | | | | | | | | | | | | | | | | |
| 4/15/2009 | XX | LTC4LX325 | 630 | 318 | 10 U | 1 | 19657 | 145 | 143 J | 11 | 6212 | 3290 | 3290 | 1970 | 4050 | | |
| 7/7/2009 | XX | LTC4LX369 | 740 | 708 | 30 U | 1.1 | 19816 | 230 | 342 J | 7 | | 2830 | | 1670 | 2360 | | |
| 10/28/2009 | XX | LTC4LX3E4 | 810 | 624 | 20 U | 0.88 | 14060 | 52 | 120 U | 1.5 | | 2750 | | 475 | 677 | | |
| 4/28/2010 | XX | LTC4LX3J3 | 910 | 697 | 20 U | 1 | 15180 | 59 | 120 U | 0,44 | 2856 | 3210 | 3210 | 474 | 1000 U | | |
| 7/20/2010 | XX | LTC4LX427 | 880 | 714 | 20 U | 1.2 | 15250 | 38 | 120 U | 2,5 | | 3360 | | 366 | 139 | | |
| 10/19/2010 | XX | LTC4LX458 | 790 | 666 | 5.6 J | 0.78 | 16940 | 44 | 63 | 1.1 | | 2700 | · | 307 | 152 | | |
| 4/27/2011 | XX | LTC4LX49C | 500 | 74 | 6 U | | 10570 | . 5 | 72 J | 0.18 | 1831 | 2280 | 2280 | 184 | 39 | | |
| 7/19/2011 | XX | LTC4LX4DA | 810 | 666 | 10 U | 0.92 | 14820 | 44 | 60 U | 0.3 | | 2800 | | 270 | 45 | | |
| 10/26/2011 | XX | LTC4LX4H5 | 510 | 442 | 5 U | 0.59 | 8250 | 11 | 64.6 J | 3.7 | - | 1400 | | 182 | 47 | | |
| | | LTC4LX51F | 290 | 274 | 15 U | | 6080 | 108 | 133 | 1.6 | 1941 | 1370 | 1370 | 935 | 1120 G | | |
| | | LTC4LX56E | 710 | 742 | 6 U | 0.77 | 15210 | 106 | 50.2 | 3 | | 3630 | | 2120 | 3090 | | |
| 10/23/2012 | XX | LTC4LX5D5 | 490 | 459 | 17.9 | 0.46 | 14570 | 36 | 213 | 16 | | 2740 | | 1740 | 3190 | | " |
| 4/23/2013 | XX | LTC4LX5HB | 697 | 574 | 30 U | | 10700 | 34 | 200 U | 2.3 | 2424 | 2950 | 2950 | 935 | 1750 | | |
| LT-C4J | ,R | | | | | | | | | | | | | | | | |
| 7/30/2013 | ж | LTC4LX641 | 742 | 630 | 1210 | 1.39 | 15050 | 625 | 400 U | 78 | | 3700 | | 2560 | 4850 | | |
| 10/29/2013 | xx | LTC4LX66E | 880 | 840 | 5 | 0.79 | 17400 | 140 | 10.4 | 5.8 | | 3980 | | 2450 | 855 | | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- G Greater than specified amount.
- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPOR" | TPREP | ARED: 12/3/2013 | 12:41 | | | | | SUMMARY REPORT Page 1 of 1 |
|------------|-------|-----------------|---------------------------|----------|---------|--|--------------------------------------|---|
| | | FOR: Juniper R | idge Landfill | | | | | Leachate - Inorganics (part 2 of 2) SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| (LT-C4I | L) | | Chemical Oxygen Demand | Chloride | Bromide | Cyanide | Tanoin & Lignins (Tannic Acid) | |
| Date | Туре | Sample ID | mg/L | mg/L | mg/L | ug/L | mg/L | |
| LT-C4 | L | | | | | ······································ | | |
| 4/15/2009 | 9 XX | LYC4LX325 | 6640 | 10100 | 92.3 | 0.009 | | |
| 7/7/2009 | 9 XX | LTC4LX389 | 4684 | 21500 | | | 97 | |
| 10/28/2009 | 9 XX | LTC4LX3E4 | 2822 | 17400 | | | 44 | |
| 4/28/2010 | 0 XX | LTC4LX8J3 | 2429 | 18000 | 188 | 0.007 | | |
| 7/20/2010 | o xx | LTC4LX427 | 2108 | 19900 | | | 53 | |
| 10/19/2010 | 0 XX | LTC4LX45B | 2340 | 18700 | | | 52 | |
| 4/27/201 | 1 XX | LTG4LX49C | 1740 | 5910 | 23.3 | 0.006 | | |
| 7/19/2011 | 1 XX | LTC4LX4DA | 959 | 10300 | ľ | | 3.6 | |
| 10/26/201 | 1 XX | LTCALX4H5 | 1420 | 4300 | | | 24 | |
| 4/24/2013 | 2 XX | LTC4LX51F | 2960 | 2560 | 32.7 | 5 U | | |
| 7/24/2012 | 2 XX | LTC4LX58E | 6700 | 6350 | | | 67 | |
| 10/23/2012 | 2 XX | LTC4LX5D6 | 5900 | 9880 | | - | 84 | |
| 4/23/2010 | 3 XX | LTC4LX5HG | 3280 | 5610 | 73.3 | 5 | | |
| LT-C4 | LR | | | | | | • | |
| 7/30/2013 | xx i | LTC4LX641 | 8110 | 24300 | 38.8 | · · · | 480 | |
| 10/29/2013 | 3 XX | LTC4LX66E | 8080 | 5970 | 95 | | 102 | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT PRE | PARED: 12/3/20 | 13 12:41 | | | | | SUM | MARY REP | DRT | | | | | Page 1 c | of 1 | |
|---------------|----------------|----------------|----------|---------|--------|-----------|---------|--------------|----------|--------|---------|------|---------|-----------|--|---|
| | FOR: Juniper | Ridge Landfill | | | | | | - Metal (pai | | | | | | 4 BLAN | & MAHER ENG CHARD ROAD RLAND CENTE | |
| (LT-C4L) | | Aluminum | Antimony | Arsenic | Barium | Beryllium | Cadmium | Calcium | Chromium | Cobalt | Соррет | Iron | Load | Magnesium | Manganese | |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | $m_Q L$ | mg/L | mg/L | mg/L | mg/L | mg/L | me∕L | |
| Date Typ | e Sample ID | | | | | | | | | | | | | | | |
| LT-C4L | | • | | | | | | | ··· | | | | | | | |
| 4/16/2009 XX | (LTC4LX325 | 0.55 | 0.065 | 0.093 | 1.3 | 0.001 U | 0.006 | 1759 | 0.072 | 0.02 J | 0.036 | 42.8 | 0.024 | 442 | 8.5 | |
| 7/7/2009 XX | (LTC4LX369 | | | 0.112 | i | 1 | 0.001 U | 1387 | : | | 0.009 | 43.3 | | 514 | 5 | |
| 10/28/2009 XX | (LTC4LX3E4 | | | 0.075 | | | 0.0015 | 687 | 1 | | 0.022 | 26.3 | | 386 | 2.77 | |
| 4/28/2010 XX | (LTC4LX3J3 | 0.429 | 0.005 | 0.107 | 1.873 | 0.0002 U | 0.001 | 565 | 0.065 | 0.014 | 0.004 | 20.9 | 0.068 | 351 | 2.18 | 1 |
| 7/20/2010 XX | LTC4LX427 | | | 0.099 | · | 1 | 0.0009 | 520 | | ····· | 0.007 | 11.9 | | 378 | 2.08 | |
| 10/19/2010 XX | (LTC4LX458 | | 1 | 0.113 | | | 0.004 | 658 | | | 0.01 J | 16.8 | | 415 | 1,8 | |
| 4/27/2011 XX | LTC4LX49E | 0.201 | 0.018 | 0.085 | 1.469 | 0.0002 U | 0.0032 | 344 | 0.024 | 0.012 | 0.011 | 9.61 | 0.002 J | 236 | 2.45 | |
| 7/19/2011 XX | (LTC4LX4DA | | | 0.121 | ! | | 0.012 | 469 | | | 0.005 U | 12.7 | | 372 | 2.3 |] |
| 10/26/2011 XX | LTC4LX4H5 | | | 0.059 | | | 0.0099 | 305 | | • | 800.0 | 19.7 | | 205 | 2.24 | |
| 4/24/2012 XX | LTC4LX51F | 0,25 | 0.025 U | 0.07 | 0.915 | 0.003 U | 0.005 | 482 | 0.025 | 0.05 U | 0.015 U | . 63 | 0.015 U | 179 | 23.6 | |
| 7/24/2012 XX | LTC4LX56E | 1 | | 0.11 | | | 0.003 U | 845 | | | 0.056 | 82 | 1 | 466 | 26 |] |
| 10/23/2012 XX | LTCALXSID6 | | | 0.177 | | | 0.004 | 934 | | | 0.024 | 45.3 | | 433 | 14 | |
| 4/23/2013 XX | LTC4LX5HG | 0.223 | 0.005 U | 0.102 | 1.285 | 0.0006 U | 0.0013 | 474 | 0.038 | 0.014 | 0.017 | 30.3 | 0.003 U | 301 | 8.03 | |
| LT-C4LR | | · | · | | | | | | | | | | · | | | |
| 7/30/2013 XX | | | | 0.137 | | | 0.0146 | 958 | | | 0.065 | 179 | | 433 | 23.4 |] |
| 10/29/2013 XX | LTC4LX65E | | | 0.16 | | 1 | 0.004 | 860 | | | 0.018 | 100 | 1 | 532 | 16.7 | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT PR | | RED: 12/3/2013 1 FOR: Juniper Rid | | | | | | | MARY REPO | | | | | 4 BLA | 1 of 1 E & MAHER ENGIN NCHARD ROAD ERLAND CENTER | |
|--------------|------|--------------------------------------|----------|--------|-----------|---------|----------|--------|-----------|----------|-------|---------|-------------|--------------|---|-------------|
| (LT-C4L) | | | Mercury | Nickel | Potassium | Seknium | Silver | Sodium | Thallium | Vanadium | Zinc | Tin | | | | |
| | | | mg/L | mg/L | mg/L | mg/L | rhg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | |
| Date Ty | ype | Sample ID | | | | | | | | | | | | | | |
| LT-C4L | | | | | | | | | | | | | | | ··· ··- · ··- | |
| 4/15/2009 X | xx | LTC4LX325 | 0.0002 U | 0.153 | 1619 | 0.01 U | 0.055 | 2212 | 0.005 U | 0.92 U | 0.604 | 0.12 | | | | |
| 7/7/2009 X | XX | LTC4LX389 | | 0.119 | 1801 | | | 2454 | | | | 1 | | <u> </u> | ·· | í — — — |
| 10/28/2009 X | XX | LTC4LX3E4 | 1 | 0.091 | 1775 | | 1 | 2612 | | | | | | - | - | , |
| 4/28/2010 X | XX | LTC4LX3J3 | 0.0002 U | 0.106 | 1982 | 0.021 | 0.0003 J | 2448 | 0.012 | 0.025 | 0.053 | 0.014 J | | | | |
| 7/20/2010 X | XX | LTC4LX427 | · 1 | 0.101 | 1659 | | | 2130 | | | | | | | | |
| 10/19/2010 X | iα. | LTC4LX458 | | 0.078 | 1779 | | | 2265 | | | | | | | | |
| 4/27/2011 X | ox I | LTC4LX49C | 0.0002 U | 0.061 | 1135 | 0.016 | 0.0007 J | 1520 | 0.001 U | 0.017 | 0.011 | 0.005 U | - | | | |
| 7/19/2011 X | CX I | LTC4LX4DA | | 0.079 | 1806 | | | 2590 | | | | | | | | |
| 10/26/2011 X | ox I | LTC4LX4H5 | 1 | 0.03 | 1066 | | • | 1580 | | | | | | • | | |
| 4/24/2012 X | αŢ | LTC4LX51F | 0.0005 U | 0.045 | 714 | 0.025 | 0.005 U | 1024 | 0.02 U | 0.05 U | 0.155 | 0.075 U | | - | | |
| 7/24/2012 X | œ. | LTC4LX58E | | 0.122 | 1719 | | | 2337 | | | | | | | | |
| 10/23/2012 X | CX I | TC4LX5D5 | | 0.084 | 1100 | | | 1842 | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 4/23/2013 X | αŢ | TC4LX5HG | 0.0005 U | 0.079 | 1237 | 0.01 | 0.001 U | 1844 | 0.004 U | 0.01 | 0.016 | 0.019 | | | | |
| LT-C4LR | ι . | | | | | | | | • | | | · | <u> </u> | | ** | |
| 7/30/2013 X | CX I | TCALX641 | | 0.304 | 1234 | | | 1910 | T | | | 1 | | 1 | | |
| 10/29/2013 X | CX I | TC4LX66E | | 0.23 | 1622 | | | 2290 | | | | · | | - 1 | | |

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 below reporting limit.

| REPORT | PREPA | RED: 3/17/2014 | 09:29 | | | | | SUMA | MARY REP | ORT | | | | · | Page 1 | of 2 | |
|-------------------------|-------------|--|---------------|--------------|----------------|--------------|-----------------------|-------------|---------------------|-------|------------------------|------------------------------|------------|------------------------|------------------------|--|-------------------------|
| | | FOR: Juniper Ri | idge Landfill | | | | | | - Voas Pa | | | | | | 4 BLAN | & MAHER ENG CHARD ROAD RLAND CENTE | • |
| (LT-C4L) |) | | | Bromomethane | Vinyl Chloride | Chloroethane | Methylene Chloride | Acctone | Carbon Disulfale | | 1,1- Dichloroethane | trans-1,2- Dichloroethene | Chloreform | 1,2- Dichloroethane | Methyl Ethyl Ketone | l,1,1- Trichloroethane | Carbon Tetrachloride |
| Date | Туре | Sample ID | ug/L | ug/L | ng/L | ng/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| LT-C4I | | | | | | | | | | | | | | | | | |
| 4/15/2009 | 1 XX I | LTC4LX325 | 50 U | 50 U | 50 U | 50 U | 250 U | 3880 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 11700 | 50 U | 50 U |
| 7/7/2009 | | LTC4LX389 | 25 U | 25 U | 25 U | 25 U | 125 U | 4020 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 9080 | 25 U | 25 U |
| 10/28/2009 | XX | LTC4LX3E4 | 10 U | 10 U | 10 U | 10 U | 50 U | 764 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 2570 | 10 U | 10 U |
| 4/28/2010 | XX I | LTC4LX3J3 | 2.5 U | 5 U | 2.5 U | 2.5 U | 25 U | 444 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 3.8 J | 1360 | 2.5 U | 2.5 U |
| 7/20/2010 | XX | LTC4LX427 | 2.5 U | 50 | 2.5 U | 2.5 U | 25 U | 365 | 2.5 U | 2.5 € | 2.5 ∪ | 2.5 U | 2.5 U | 5.8 | 25 U | 2,5 U | 2.5 U |
| 10/19/2010 | 70. | LTC4LX45B | 0.5 U | 10 | 0.75 J | 0.5 U | 5 U | 475 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 604 | 0.5 U | 0.5 U |
| 4/27/2011 | 241 | LTC4LX49C | 5 U | 10 U | 5 Ü | 5 U | 50 U | 100 U | 5 U | 5 U | 50 | 5 U | 50 | 50 | 50 Ú | 5 U | 5 U |
| 7/19/2011 | | TC4LX4DA | 0.5 U | 10 | 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 | 1 | TC4LX4H5 | 0.5 U | 10 | 0.7 J | 0.5 U | 5 U | 117 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.50 | 97 | 0.5 U | 0.5 U |
| 4/24/2012 | | TC4LX51F | 5 U | 10 U | 5 U | 5 U | 25 U | 974 2460 | 5 U 5 U | 5 U | 5 U | 5 U | 5 U | 10 5 U | 3440 9540 | 50 | 5 U |
| 7/24/2012 10/23/2012 | 1 | TC4LX5D5 | 25 U | 50 U | 5 U | 5 U 25 U | 125 U | 2710 | 25 U | 25 U | 5 U | 5 U | 5 U | 25 U | 7490 | 5 U | 5 U |
| 4/23/2013 | | | 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 25 U |
| LT-C4L | | | 1 200 | | 1 250 | , 250 | 1 | 1010 | 100 | | 1 200 | 1 25 0 | 250 | 1 200 | 1 | 200 | 1 230 |
| 7/30/2013 | χχ l | TC4LX641 | 250 U | 100 U | 100 U | 100 U | 300 Ų | 4400 | 500 U | 50 U | 75 U | 75 U | 75 U | 50 U | 23000 E | 50 U | 50 U |
| 10/29/2013 | XX L | TC4LX66E | 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 |
| QCBT | | | | • | • | • | • | | | • | | | | | | | • |
| 4/13/2009 | T vv le | 3T000CX33D | 1 ប | 1 U | 1 U | 1 1 1 | 5 U | 10 U | 1 U | 10 | 10 | 1 Ü | 1 U | 10 | 10 U | 10 | 10 |
| 4/15/2009 | | TDOOCX33E | 1 ป | 10 | 1 U | 10 | 5 U | 10 U | 10 | 10 | 10 | 10 | 10 | 10 | 10 U | 10 | 10 |
| 7/7/2009 | 1 | 3TXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 | 10 | 1 U | 10 | 5 U | 10 U | 10 | 10 | 10 | 10 | 10 | 1 1 1 | 10 U | 10 | 10 |
| 10/28/2009 | | STXXXXXXI | 10 | 10 | 1 U | 10 | 5 U | 10 U | 1 U | 10 | 10 | 1 U | 10 | 1 U | 10 U | 10 | 10 |
| 4/26/2010 | XX E | 3TXXXX40A | 0.5 U | 1 U | 0.5 U | 0.5 U | 5 U | 10 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U |
| 4/27/2010 | XX E | T7000X40B | 0.5 U | 10 | 0.5 U | 0.5 U | 50 | 10 U | 0.5 ปี | 0.5 U | 0.5 Ú | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U |
| 4/28/2010 | XX E | TXXXXHG1 | 0.5 U | 1 U | 0.5 U | 0.5 U | 5 U | 10 U | 0.5 U | 0.5 U | 0.5 ∪ | 0.5 U | 0.5 U | 0.5 U | 50 | 0.5 U | 0.5 U |
| 7/20/2010 | XX E | TXXXX43F | 0.5 U | 1 Ü | 0.5 U | 0.5 U | 50 | 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 |
| 10/19/2010 | | TXXXXX46I | 0.5 U | 10 | 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 ⊎ | 5 บ | 0.5 U | 0.5 U |
| 4/25/2011 | | TXXXXXAJ | 0.5 U | 1 Ü | 0.5 U | 0.5 U | 50 | 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 | | TXXXX4B0 | 0.5 U | 10 | 0.5 U | 0.5 U | 5 U | 10 U | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 5 ป | 0.5 U | 0.5 U |
| 4/27/2011 | /** | TXXXX4B5 | 0.5 U | 10 | 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 | | 3T)000(4F3 | 0.5 U | 10 | 0.5 U | 0.5 U | 5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U |
| 10/28/2011 | | BTXXXX4GB BTXXXXX532 | 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 4/24/2012 | | 8TXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 1 U | 20 | 1 U | 1 U | 5 U | 10 U | 1 U | 10 | 1 U | 10 | 1U 1U | 10 | 10 U | 1U | 1 U |
| 4/24/2012 | | STXXXXXXXX | 1 U | 2U | 1 U | 10 | 5 U | 10 U | 10 | 10 | 10 | 10 | 10 | 10 | 10 U | 10 | 10 |
| 7/24/2012 | | 8TXXXX535 | 10 | 20 | 10 | 10 | 50 | 10 U | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 10 | 1 U |
| 10/23/2012 | | STXXXX5C8 | 1 U | 20 | 1 U | 10 | 5 U | 10 U | 10 | 10 | 10 | 10 | 10 | 10 | 10 U | 10 | 10 |
| 4/22/2013 | - | TXXXX5,73 | 10 | 20 | 1 0 | 10 | 50 | 10 U | 10 | 10 | 10 | 1 U | 1 U | 10 | 10 U | 10 | 10 |
| 4/23/2013 | | STX000X5.44 | 10 | 20 | 1 U | 10 | 50 | 10 U | 10 | 10 | 10 | 1 U | 10 | 10 | 10 U | 10 | 10 |
| 4/24/2013 | | STXXXXX5J8 | 1 U | 20 | 10 | 10 | 5 U | 10 U | 10 | 10 | 10 | 10 | 10 | 1υ | 10 U | 10 | 1 Ü |
| 7/30/2013 | - | STXXXXX85D | 2.5 U | 10 | 1 0 | 10 | 3 ป | 5 U | 5 U | 0.5 U | 0.75 U | 0.75 U | 0.75 U | 0.5 U | 50 | 0.5 U | 0.5 U |
| 10/29/2013 | XX B | TXXXXX66C | 2 U | 2 U | 2 U | 5 U | 5 U | 10 U | 50 | 10 | 2U | 20 | 20 | 2 U | 10 U | 2 U | 2 U |
| 10/29/2013 | T vv la | H99XXXXT | 5 U | 20 | 2 U | 5 U | 5 ป | 50 U | | 10 | 20 | 2 U | 2 U | 2 U | 10 U | 2 U | 2 U |

| REPORT | PREPARED: 3/17/201 | 4 09:29 | | • | | | SUM | MARY REP | PORT | | | | | Page 2 | of 2 | |
|--------|--------------------|----------------|--------------|----------------|--------------|-----------------------|---------|---------------------|------------------------|------------------------|------------------------------|------------|------------------------|------------------------|---|-------------------------|
| | FOR: Juniper F | ₹idge £andfill | | | | | Leachat | e - Voas Pa | art 1 of 4 | | | | | 4 BLAN | & MAHER ENGII ICHARD ROAD ERLAND CENTER | -, |
| (QCBT) | | 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 |
| 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 | υg/L | ug/L | ug/L |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- E Compound exceeded upper level of calibration range and required dilution.
- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

Page 1 of 2 REPORT PREPARED: 3/17/2014 09:29 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Leachate - Voas Part 2 of 4 4 BLANCHARD ROAD **CUMBERLAND CENTER, ME 04021** (LT-C4L) Vinyl Acetate Bromodichloro 1,2cis-1.3-Trichloroethene Dibromochloro 1,1,2-Benzene trans-1,3-Bromoform 4-Methyl-2-2-Hexanone Tetrachloroethe 1,1,2,2-Tohiene Dichloropropan methane Dichlosopropen methane Trichloroethane Dichloropropen Pentanone ne Tetrachloroetha ė ė ¢ 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 Date Type Sample ID ug/L LT-C4L 4/15/2009 XX LTC4LX325 50 U 50 U 50 U 50 U 50 U 50 U 50 U 50 U 50 U 50 U 500 U 500 U 50 U 50 U 50 U 7/7/2009 XX LTC4LX389 25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U 289 250 U 25 ป 25 ป 25 U 10/28/2009 XX LTC4LX3E4 10 U 10 U 10 U 10 U 10 U 10 U 10 LF 10 U 10 U 10 U 100 U 100 U 10 U 10 U 13 4/28/2010 XX LTC4LX3J3 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 4.4 J 2.5 U 2.5 U 25 U 25 U 2.5 U 2.5 U 15 7/20/2010 XX LTC4LX427 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 2.5 U 4.6 J 2.5 U 2.5 U 25 U 25 U 2.5 U 2.5 U 15 10/19/2010 XX LTC4LX458 0.5 U 0.5 U 0.81 J 0.5 U 0.5 U 0.5 U 0.5 U 5 0.5 U 0.72 J38 5 U 0.5 U 0.5 U 18 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 Ü 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 0.5 U 0.5 U 7.4 5 U 10/26/2011 XX LTC4LX4H5 0.5 ป 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 13 5 U 5 U 5 U 50 U 50 U 5 Ų 5 U 7/24/2012 XX LTC4LX68E 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 XX LTC4LX5D5 10/23/2012 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 Ú 4/23/2013 XX LTC4LX5HG 25 U 25 U 25 U 25 U 25 U 25 U 25 ป 25 U 25 U 250 U 250 U 25 U 25 Ų 25 U 25 U LT-C4LR 7/30/2013 XX LTC4LX841 500 U 50 U 50 U 75 U 50 LF 180 U 50 U 50 U 50 U 200 U 500 U 50 U 50 U 75 U 500 U 10/29/2013 XX LTC4LX96E 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 OCBT 4/13/2009 XX BTXXXXXXX 111 10 10 1 U 1 U 1 U 10 10 1 U 10 1 U 10 10 U 10 U 1 U 4/15/2009 XX BTXXXXXX 1 U 1 U 1 U 1 U 1 U 1 U 1 U 10 10 1 Ü 10 U 10 U 10 1 U 1 U 7/7/2009 XX BTXXXXXH 10 10 1 U 1 U 1 U 1 U 1 U 10 10 10 10 Ú 10 U 10 1 U 10 10/28/2009 XX BTXXXXAJ 10 1 U 1 U 1 U 1 U 1 U 1 U 10 1 Ü 10 1 U 10 U 10 U 1 U 10 4/26/2010 XX BTXXXX40A 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 5Ú 5 U 0.5 U 0.5 U 0.5 U 4/27/2010 XX BTXXXX40B 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 Ü 0.5 U 0.5 U 5 U 5 U 0.5 ป 4/28/2010 XX 8TXXXHG1 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 5Ü 5 U 0.5 U 0.5 U 0.5 U 7/20/2010 XX STX00X43F 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 Ú 0.5 U 5 U 5 U 0.5 U 0.5 U 0.5 U 10/19/2010 XX 8TXXXX461 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 υ 0.5 U 0.5 U 5U 0.5 U 0.5 U 0.5 U 5 U 4/25/2011 XX 8TXXXX4AJ 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 ปี 0.5 U 0.5 U 5 U 0.5 U 0.5 U 5 U 0.5 U 4/26/2011 XX BTXXXX480 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 BTXXXX485 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 BTXXXX4GB 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 8TXXXX632 2 U 1 U 10 10 10 10 1 U 10 10 1 U 1 U 10 U 10 U 1 U 10 4/24/2012 XX BTXXXX533 2 U 1 U 10 1 U 1 U 1 U 1 U 10 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 4/25/2012 XX BTXXXX538 2 U 1 U 10 10 1 U 1 U 10 10 10 1 Ų 10 U 10 U 1 U 1 U 10 7/24/2012 XX BTXXXX85 1 U 1 U 1 U 1 U 11 1 U 1 U 1 U 10 1 1 10 U 10 U 10 1 U 1 U 10/23/2012 XX BTXXXXXX 1 U 10 10 10 10 1 U 1 U 1 U 1 U 1 บ 10 U 10 U 1 U 10 111 4/22/2013 XX BTXXXXXX 1 U 1 U 1 U 1 U 10 1 U 1 U 1 U 1 U 10 10 U 10 U 1 U 1 Ų 10 4/23/2013 XX BTXXXX5.4 1 U 10 10 10 10 10 10 10 1 U 1 U 1 U 1 U 10 U 10 U 1 U 4/24/2013 XX BTXXXX5.8 1 U 10 1 Ų 10 10 10 10 1 U 10 U 1 U 10 1 U 1 U 10 U 1 U 7/30/2013 XX BTXXXX66D 5 Ų 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 BTXXXXXX 10 U 0.5 U 2 U 20 2 U 2 U 2 U 1 U 2 U 2 U 10 U 10 U 2 Ų 2 U 1 U

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| REPORT | PREPARED: 3/17/2014 | 09:29 | | | | | SUM | MARY REPO | RT | | | | | Page 2 (| x 2 | |
|--------|---------------------|---------------|------|------|----------------------------|-----------------|--------------------------|---------------------------|---------|------------------------------|-----------|--------------------------|------------|-----------------------|--|---------|
| | FOR: Juniper R | idge Landfill | | | | | | e - Voas Part | | | | | | 4 BLANC | 8 MAHER ENGIN CHARD ROAD RLAND CENTER, | ., . |
| (QCBT) | | Vinyl Acetate | | | cis-1,3- Dichloropropen | Trichloroethene | Dibromochloro methane | 1,1,2- Trichloroethane | Benzene | trans-1,3- Dichloropropen | Bromoform | 4-Methyl-2- Pentanone | 2-Hexanone | Tetrachioroethe ne | Tetrachloroetha | Toluene |
| Đate | Type Sample ID | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | e ug/L | ug/L | u g/L | ug/L | ug/L | ne ug/L | ng/L |

TYPE - Sample Type Qualifier where D = Duplicate Sample,

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT | PREPA | ARED: 3/17/2014 | 1 09:29 | | | | | SUM | MARY REP | ORT | | | | | Page 1 o | f 2 | |
|------------|--------------|--|---------------|--------------|---------|----------|-------------------------|----------------------------|----------------------------|------------------------|--------------------|-----------------------|-------------------------------------|---------------------------|---------------------------------|---------------------------------------|-------------------------------------|
| | | FOR: Juniper R | idge Landfill | | | | | Leachate | e - Voas Pa | rt 3 of 4 | | | | | 4 BLANC | MAHER ENG HARD ROAD RLAND CENTE | |
| (LT-C4L | .) | | Chlorobenzene | Ethylbenzene | Styrene | o-Xylene | m,p-Xy le ne | Trichlorofluoro methane | cis-1,2- Dichloroethene | Bromochlorome thane | Dibromomethan e | 1,2- Dibromoethane | 1,1,1,2- e Tetrachloroetha ne | 1,2,3- Trichloropropan | 1,2-Dibromo-3- Chloropropane | Acrylonitrile | trans-1,4- Dichloro-2- butene |
| Date | Туре | Sample ID | ug/L | ₩g/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-C4 | [_ | | | | | | | | | | | | | | | | <u> </u> |
| 4/15/2009 | 1 xx | LTC4LX325 | 50 U | 50 U | 50 U | 50 U | 50 tf | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | - 50 U |
| 7/7/2009 | | LTC4LX389 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 tJ | 25 U | 25 U | 25 U | 25 U |
| 10/28/2009 | XX | LTC4LX3E4 | 10 U | 10 U | 10 U | 10 t | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4/28/2010 | x | LTC4LX3J3 | 2.5 U | 5.9 | 2.5 U | 3.1 J | 7.2 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 ∪ | 2.5 U | 2.5 U | 2.5 U |
| 7/20/2010 |) XX | LTC4LX427 | 2.5 U | 5.5 | 2.5 U | 3.7 J | 8.5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 10/19/2010 | 1 XX | LTC4LX45B | 0.5 U | 7.9 | 1.4 J | 5.3 | 12 | 0.5 U | 1.1 J | 0.5 υ | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 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 | 50 | 5 U | 5 U | 5 U | 50 |
| 7/19/2011 | XX | LTC4LX4DA | 0.5 U | 3.8 | 0.5 U | 2.5 | 5.4 | 0.5 U | 0.5 U | 0.50 | 0.5 U | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 0.5 ป |
| 10/26/2011 | XX | LTC4LX4H5 | 0.5 U | 6.7 | 1 | 4.2 | 9.5 | 0.5 U | 0.7 J | 0.5 ป | 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 | LTC4LX51F | 5 U | 5.8 | 5 U | 5 U | 6.9 | 6.4 | 5 U | 5 U | 50 | 5 υ | 5 U | 5 U | . 5 U | 5 U | 5 U |
| 7/24/2012 | XX | LTC4LX56E | 5 U | 5 U | 50 | 5 U | 5 | 5 U | 5 U | 5 U | 50 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 10/23/2012 | | LTC4LX505 | 25 U | 25 ∪ | 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 ∪ | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U |
| LT-C4I | LR | | | | | | | | | | | | | | | | |
| 7/30/2013 | XX | LTC4LX841 | 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 | 500 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 ป | 4000 U | 1000 U |
| QCBT | | | | | • | | | | | | • | • | <u>'</u> | • | • | | |
| 4/13/2009 | XX : | 8TXXXX33D | 10 | 1 U | 1 U | 1 U | 18 | 1 U | 1 Ų | 1 1 U | 10 | 1 U | 10 | 10 | 10 | 1 Ü | 10 |
| | | BTX000X33E | 10 | 1 U | 10 | 1 U | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 7/7/2009 | - | BTXXXXX37H | 10 | 10 | 1 U | 1 U | 10 | 1 U | 10 | 1 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 10/28/2009 | | BTXXXXXAJ | 10 | 1 U | 1 U | 1 U | 10 | 10 | 1 U | 10 | 10 | 10 | 10 | 10 | 1 U | 10 | 10 |
| 4/26/2010 | _ | BTXXXX40A | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/27/2010 | XX | BTX000X40B | 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 | 0.5 U |
| 4/28/2010 | XX | BTXXXXHI31 | 0.5 U | 0.5 U | 0.5 U | 0.5 () | 0.5 U | 0.5 U | 0.5 U | 0.5 บ | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 7/20/2010 | XX | BTXXXX43F | 0.5 U | 0.5 U | 0.5 ∪ | 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 |
| 10/19/2010 | XX | BTXXXXX46I | 0.5 U | 0.5 ป | 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 | XX | BTXXXX4AJ | 0.5 U | 0.5 Ü | 0.5 ∪ | 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 I | BTXXXX4B0 | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 υ | 0.5 U | 0.5 ป | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/27/2011 | | 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 | 0.5 U |
| 7/19/2011 | | 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 | 0.5 U |
| 10/26/2011 | 1 | BTXXXX4G8 | 0.5 U | 0.5 ป | 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 Ų | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 4/23/2012 | | BTXXXX532 | 1 U | 10 | 1 U | 10 | 1 ប | 1 U | 1 U | 1 U | 10 | 1 U | 1 U | 1 0 | 10 | 10 | 1 ህ |
| 4/24/2012 | , | BTXXXX533 | 1 U | 10 | 1 U | 1 U | 1 U | 1 0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 Ų | 1 U | 10 | 1 U |
| 4/25/2012 | | BTXXXX538 | 1 U | 10 | . 1 U | 1 U | 1 ប | 1 U | 1 0 | 1 U | 1 U | 1 U | 1 U | 1 U | 10 | 10 | 1 ป |
| 7/24/2012 | - | BTXXXX585 | 1 ប | 10 | 1 U | 10 | 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 10 | 1 U | 1 U | 1 ប | 10 |
| 10/23/2012 | | atxxxxxxx | 10 | 10 | 1 U | 1 U | 18 | 1 U | 1 U | 1 U | 1 U | 1 U | 10 | 1 U | 10 | 1 ប | 10 |
| 4/22/2013 | | BTXXXXXX | 10 | 10 | 1 U | 10 | 10 | 1 U | 10 | 10 | 1 U | 10 | 1 U | 1 U | 1 U | 10 | 10 |
| 4/23/2013 | 1 | BTXXXX5J4 | 10 | 10 | 1 U | 1 U | 10 | 1 U | 10 | 10 | 1 U | 1 Մ | 1 Մ | 10 | 10 | 1 υ | 10 |
| 4/24/2013 | | BTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 | 10 | 1 U | 10 | 10 | 10 | 10 | 10 | 1 0 | 10 | 1 U | 10 | 10 | 10 | 10 |
| 7/30/2013 | 701 | BTXXXXX65D | 0.5 U | 0.5 U | 1 U | 10 | 10 | 2.5 U | 0.5 U | 2.5 U | 5 U | 20 | 0.5 U | 5 U | 2.5 ∪ | 5 υ | 2.5 U |
| 10/29/2013 | | BTX000X88C | 2 U | 1 U | 1 U | 10 | 10 | 5 U | 20 | 2 U | 2 0 | 20 | 20 | 20 | 2 U | 20 U | 5 V |
| 10/29/2013 | XX | втхххххван | 20 | 1 U | 1 Ս | 1 U | .1∪ | 50 | 2U | | L | | | | | 50 U | |

| REPORT PREPARED: 3/17/ | 2014 09:29 er Ridge Landfill | | | | | SUM | MARY REP | ORT | • | | | | Page 2 o | f 2 MAHER ENGI | NEEDS INC |
|------------------------|---------------------------------|--------------|---------|----------|------------|----------------------------|---------------------------|------------------------|----------------------|------|------|---------------------------|---------------------------------|---------------------------|---------------------------|
| P OR. Julip | es raoge callossi | | | | | Leachate | e - Voas Par | t 3 of 4 | | | | | 4 BLANC | HARD ROAD RLAND CENTER | |
| (QCBT) | Chlorobenzene | Ethylbenzene | Styrene | o-Xylene | m,p-Xylene | Trichlorofluoro methane | cis-1,2- Dichlomethene | Bromochlorome thane | : Dibromomethan e | | | 1,2,3- Trichloropropan | 1,2-Dibromo-3- Chloropropane | | trans-1,4- Dichloro-2- |
| Date Type Sample | D ug/L | ųg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | e ug/L | ug/L | ug/L | batene ug/L |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT | PREPA | ARED: 3/17/2014 | 09:29 | | | | SUM | MARY REPO | ORT | | | | | Page 1 c | f 2 | |
|------------|-------|-----------------|--------------|-----------------------------|-----------------------------|-------------|------------------|--|------|-------------|--|--|--|----------|--|--------------|
| | | FOR: Juniper Ri | dge Landfill | | | | | e - Voas Par | | | | | | 4 BLANC | MAHER ENGI CHARD ROAD RLAND CENTE | -• |
| (LT-C4L | ٦) | | Iodomethane | 1,4- Dichlorobenzen ¢ | 1,2- Dichlorobenzen e | · | | | | | | | | | | |
| Date | Туре | Sample ID | μ g/L | ug/L | ug/L | | | | | | | | | | | |
| LT-C4l | L | ····· | | | | | | | | | | | | | | |
| 4/15/2009 | XX E | LTC4LX326 | 50 U | 28 U | 28 U | ŀ | | | | | | | 1 | | | |
| 7/7/2009 | XX | LTC4LX389 | 25 U | 25 U | 25 U | | | | † | | - | | | | | |
| 10/28/2009 | XX I | LTC4LX3E4 | 10 U | 10 U | 10 U | | | · · · · | | | | 1 | | | | 1 |
| 4/28/2010 | XX | LTC4LX3J3 | 2.5 IJ | 2.5 ∪ | 2.5 U | | | | 1 | | | | 1 | | | 1 |
| 7/20/2010 | | | 2.5 U | 2.5 U | 2.5 U | | | | | | | 1 | | | | 1 |
| 10/19/2010 | | | 0.5 U | 1.3 | 0.5 U | | <u> </u> | | | | | | 1 | · | | |
| | | LTC4LX49C | 50 | 2 Ü | 2 U | | | | | | | | | | | |
| | | LTC4LX4DA | 0.5 U | 0.69 J | 0.5 U | | | | | | | | | | | |
| 10/26/2011 | _ | | 0.5 U | 1.1 | 0.5 U | | | 1 | | | ļ. <u></u> . | | | | | 1 |
| 4/24/2012 | | | 5 U | 5 U | 5 U | | | | | | | | | | | |
| 7/24/2012 | | | 35 | 5 U | 5 U | | | ļ | | | | | | | | |
| 10/23/2012 | | | 25 U | 25 U | 25 U | | | ļ | | | | | ļ | | | |
| • | | LTC4LX5HG | 25 U | 25 U | 25 U | | | <u> </u> | | | L | ł | ļ <u>.</u> | | | |
| LT-C4I | LR | | | | | | | | | | | | | | | |
| 7/30/2013 | XX I | LTC4LX841 | 500 U | 250 U | 250 U | | | | · | T | 1 | | | 1 | | T |
| 10/29/2013 | xx | LTC4LX88E | 1000 U | 200 U | 200 U | | | | | 1 | | | | | | |
| QCBT | | | | | / | | | | · | - | | 1 | 1 | · | | .1 |
| | | 5-T14444 | | , | | | | , ···- | II:: | | | | | | | |
| | | etxxxxx3D | 10 | 10 | 10 | | | | | ļ | | | | | ļ. — | <u> </u> |
| | | BTXXXXXXXXX | 1U | 1 U | 10 | | | ļ | | | | | ļ | | | ļ |
| 10/28/2009 | | BTXXXXXX | 1 U | 10 | 10 | | <u> </u> | | | - | | ļ | ļ | | | |
| | | | | 10 | 10 | | ļ | | | | | - | ļ | | ļ <u></u> | |
| 4/26/2010 | | BTXXXX40B | 0.5 U | 0.5 U | 0.5 U | | ļ | | | | | | ļ <u></u> | ļ | | |
| | | BTXXXXHG1 | 0.5 U | 0.5 U | 0.5 U | | | | | | | 1 | <u> </u> | | | ļ |
| 7/20/2010 | | | 0.5 U | 0.5 U | 0.5 U | | | | | | | ! | | | | |
| 10/19/2010 | | | 0.5 U | 0.5 U | 0.5 U | | | | | + | | | | : | <u> </u> | |
| 4/25/2011 | | | 0.5 U | 0.5 U | 0.50 | | | | | + | | | | | | |
| 4/26/2011 | | | 0.5 U | 0.5 U | 0.5 U | | | | | + | | - | + | | | |
| 4/27/2011 | | | 0.5 U | 0.5 U | 0.5 U | | | | | + | | | | | | |
| 7/19/2011 | | | 0.5 U | 0.5 U | 0.5 U | - | | | | + | | ļ | | | | |
| 10/26/2011 | | | 0.5 U | 0.5 U | 0.5 U | | · · · · · · | | | + | | | | - | | |
| 4/23/2012 | | | 10 | 10 | 10 | | <u> </u> | | - | + | | | | | | |
| 4/24/2012 | XX I | BTXXXX533 | 10 | 10 | 10 | | | | | + | | | | | | |
| 4/25/2012 | | | 10 | 10 | 10 | | | 1 | | | ···· | | 1 | | i | |
| 7/24/2012 | | | 1.5 | 10 | 10 | | T | <u> </u> | | | | | 1 | | | <u> </u> |
| 10/23/2012 | | | 10 | 10 | 1 U | ··· | | i | | * | | | 1 | | | 1 |
| 4/22/2013 | XX | BTXXXXX5.J3 | 10 | 1 0 | 10 | | | | | | | | | | l | |
| 4/23/2013 | XX I | BTXXXX5.J4 | 10 | 1 U | 10 | | | | | 1 | i | | | | ļ | † |
| 4/24/2013 | | | 10 | 1 U | 10 | | 1 | | | | | | - | ···· | <u> </u> | 1 |
| 7/30/2013 | XX I | BTXXXX65D | 5 U | 2.5 U | 2.5 U | | | | | | | | 1 | | | |
| 10/29/2013 | XX I | BTXXXX68C | 5 U | 1 U | 10 | | | | | | | | | | | |
| | 1 | HIPPXXXXTE | | 1 U | 10 | | | | | + | ! | | · · · · · · · · · · · · · · · · · · · | | | + |

| REPORT PREPARED: 3/17/2014 09:29 FOR: Juniper Ridge Landfill | SUMMARY REPORT Leachate - Voas Part 4 of 4 | Page 2 of 2 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|---|---|---|
| (QCBT) Iodomethane 1,4- 1,2- Dichlorobenzen Dichlorobenzen | | |
| Date Type Sample ID ug/L ug/L ug/L | | |

TYPE - Sample Type Qualifier where D = Duplicate Sample,

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT PREPA | RED: 3/17/2014 FOR: Juniper R | | | | | Pestic | | IMARY REPO | | of 4) | | | | 4 BLANG | of 1 8 MAHER ENGI CHARD ROAD RLAND CENTER | • |
|--------------|----------------------------------|---------|-----------|----------|-----------|------------------------|--------------------------|-----------------|----------|----------|----------|----------|----------|--------------|--|-----------------------|
| (LT-C4L) | | Aldrin | alpha-BHC | beta-BHC | delta-BHC | gamma-BHC (Lindane) | Chlordane (technical) | Chlorobenzilate | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Diallate | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate |
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ா8∕£ | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Date Type | Sample ID | | | | | | | | | | | | | | | |
| LT-C4L | | | | | | | | | _ | | | _ | | | _ | |
| 4/15/2009 XX | LTC4LX325 | 0.047 U | 0.047 U | 0.047 U | 0.047 U | 0.055 | 0.47 U | 57 U | 0 094 U | 0.094 U | 0.094 U | 57 U | 0.094 U | 0.047 U | 0.094 U | 0.094 U |
| 4/28/2010 XX | LTC4LX3J3 | 0.047 U | 0.047 U | 0.047 U | 0.047 U | 0.047 U | 0.47 U | 9 U | 0 094 U | 0.094 U | 0.094 U | 9 U | 0.094 U | 0.047 U | 0.094 U | 0.094 U |
| <u> </u> | LTC4LX49C | 0.007 U | 0.0065 U | 0.0059 U | 0.012 U | 0.0068 U | | | 0.0085 U | 0.0046 U | 0.0084 U | | 0.0061 U | 0.006 U | 0.0054 U | 0.0063 U |
| | LTC4LX51F | 0.047 U | 0.047 Ų | 0.047 U | 0.047 U | 0.047 U | 0.47 U | 9.5 U | 0.094 U | 0.094 U | 0.094 U | 9.5 U | 0.094 U | 0.047 U | 0.094 U | 0.094 U |
| | LTC4LX5HG | 0.048 U | 0.048 U | 0.048 U | 0 048 U | 0.048 U | 0,48 U | 110 U | 0.097 U | 0.097 U | 0.097 U | 110 U | 0.097 U | 0.048 U | 0.097 U | 0.097 U |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| DEPORT S | REPARED: 3/17/2014 | 1.10:09 | | | | | SUM | MARY REPO |)PT | | | | | Page 1 c | of 1 | |
|-----------|--------------------|----------|--------------------|------------|-----------------------|---------|--------|--------------|-----------|--------------|--------------|--------------|--------------|--------------|--|--------------|
| KEIOMI | FOR: Juniper R | | | | | Pestic | | cides and PC | | of 4) | | | | 4 BLAN | & MAHER ENG CHARD ROAD RLAND CENTE | · |
| (LT-C4L) | | Endrin | Endrin Aldehyde | Heptachlor | Heptachlor Epoxide | Isodrin | Kepone | Methoxychlor | Toxaphene | Aroclor-1016 | Aroclor-1221 | Aroclor-1232 | Aroclor-1242 | Araclor-1248 | Aroclor-1254 | Aroclor-1260 |
| | | ug/L | ug/L | υg/L | ug/L | ug/L | ug/L | og/L | ug/L | սgշ∕L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Date 1 | ype Sample ID | | | | | | | | | | | | | | | |
| LT-C4L | | | | | | | | | | | | | | | | |
| 4/15/2009 | XX LTC4LX325 | 0.094 U | 0.094 U | 0.047 U | 0.047 ∪ | 57 U | 71 U | 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 |
| 4/28/2010 | XX LTC4LX3J3 | 0.094 U | 0.094 U | 0.047 U | 0.047 U | 9 () | 24 U | 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 |
| | XX iLTC4LX49C | 0.0079 U | 0.005B U | 0 0075 U | 0.43 | | | 0.0079 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 |
| 4/24/2012 | XX LTC4LX51F | 0.094 U | 0.094 U | 0.047 U | 0.047 U | 9.5 Ų | 24 U | 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 |
| 4/23/2013 | XX LTC4LX5HG | 0.097 U | 0.097 U | 0.048 U | 0.D48 U | 110 ∪ | 280 U | 0.4B 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 |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT PREPARED: 3/17/2014 FOR: Juniper Ri | | | | | Pestic | | MARY REF | PORT PCB's (part 3 | of 4) | | | | 4 BLANCI | i 1 MAHER ENGINEI HARD ROAD LAND CENTER, N | |
|---|------------|------------|---------|---------------------|-----------|---------|-----------|--|--|----------|---|-----------------|---------------------|---|--|
| (LT-C4L) | Dimethoate | Disulfaton | Famphur | Methyl Parathion | Parathion | Phorate | Thionazin | o,o,o- Triethylphospho rothioate | 2,4- Dichlorophenox yacetic Acid | 2,4,5,-T | 2,4,5- Trichloropheno xypropionic | alpha-Chlordane | gamma- Chlordane | | |
| Date Type Sample ID | ug/L | ug/L | ug/L, | ug/L | ug/L | ug/L | ug/L | սg/L | ug/L | ug/L | ug/L | ug/l. | ug/L | | |
| LT-C4L | | | | | | | | | | , | | | | | |
| 4/15/2009 XX LTC4LX325 | 28 U | 28 U | 71 U | 28 U | 71 U | 28 U | 57 U | ! 57 U | 14 U | 14 U | 14 U | | | | |
| 4/28/2010 XX LTC4LX3J3 | 9 U | 90 | 28 U | 9 U | 24 U | 9.0 | 19 U | 90 | 2.8 U | 2.8 U | 2.8 U | | | | |
| 4/27/2011 XX LTC4LX49C | | <u> </u> | | | | | 1 | | 0.28 U | 0.5 U | 0.19 U | 0.0072 U | 0.0057 U | | |
| 4/24/2012 XX LTC4LX51F | 9.5 Ų | 9.5 U | 28 Ų | 9.5 U | 24 U | 9.5 Ų | | 9.5 U | 2.8 U | 2.8 Ų | 2.8 U | <u>!</u> | | | |
| 4/23/2013 XX LTC4LX5HG | 110 U | 110 U | 340 Ų | 110 U | 280 U | 110 U | 230 U | 110 U | 2.9 U | 2.9 U | 2.9 U | | <u> </u> | Ĺ <u></u> | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT | PREPARED: 3/17/2014 FOR: Juniper Ric | | | | | Pestic | | IMARY REP | ORT CB's (part 4 of 4) | Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|------------------------|---|---------|---------|--------------|------|--------|----------|---------------|--|---|
| (LT-C4L | • | Dalapon | Dicamba | Dichloroprop | МСРА | МСРР | 2,4-DB | Endrin Ketone | o o-diethyl-o-2- pyridyl phosphorothioat | |
| Date | Type Sample ID | ug/L | υg/L | ug/L | ug/L | ug/L | υg/L | ug/L | ug/L | |
| LT-C4 | <u> </u> | | | | | | | | | |
| 4/27/2011 4/24/2012 | XX LTC4LX49C | 0.31 U | 0 14 U | 0.26 U | 32 U | 48 U | 0.51 U | 0.0074 U | 19 U | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT PREPARED. 3/17/2014 FOR. Juniper R | | | | | , | | IMARY REPO -VOA (part 1 | | | | | | 4 BLANCE | 1 MAHER ENGINEERS, INC IARD ROAD AND CENTER, ME 0402: |
|--|--------------|----------------|--------------|-------------------------------|---------------------|------------|----------------------------|--------------------------|----------------------------|--------------------------|----------------|------------------|-------------------------------|--|
| (LT-C4L) | Acenaphthene | Acenaphthylene | Acetophenone | 2- Acetylaminofluo rene | 4- Aminobiphenyl | Anthracene | Benzo(a)Anthra cene | Benzo(b)Fluora nthene | a Benzo(k)Fluora athene | Benzo(g,h,i)per ylene | Benzo(a)Pyrene | : Benzyl Alcohol | 4-Bromophenyl- phenylether | |
| Date Type Sample ID | ц е/L | ug/L | ug/L | ug/L | ug/L | սք∕L | ug/I. | ug/L | ug/L | μ g/ 1. | ug/L | ug/L | ug/L | |
| LT-C4L | | | | | | | | | | | | | | |
| 4/15/2009 XX LTC4LX325 | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | | 28 U | 28 U | 28 U | 26 U | 57 ป | 28 U | |
| 4/26/2010 XX LTC4LX3J3 | 9 U | 9 U | 90 | 9 U | 9 U | 9 U | 9 V | 9 U | 9 U | 9 U | 9 U | 19 U | 90 | |
| 4/27/2011 XX LTC4LX49C | 2 J | 1 U | | | | 21 | 1 U | 1 U | 2 U | 1 U | 1 Ü | <u> </u> | 2 ∪ | . — . — — — — — — — — — — — — — — — — — |
| 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 Ų | 9.5 U | 95U | 9.5 U | 9.5 U | 19 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 | 110 U | 230 ∪ | 110 U | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| BEPORT | I PREP | AREO: 3/17/2014 | 4 09:47 | | | . | | SLIMA | MARY REP | ORT | | ı | | | Page 1 | of 1 | , |
|-----------|--------|-----------------|--------------------------|--|-------------------|------------------------------------|---------------------------------|-------------------------------------|-----------------------------|-----------------------------|----------------|--------------------------------|----------|---------------------------|---|-------------------------|-----------------------------|
| | | FOR: Juniper F | | | | | | | /OA (part 2 | | İ | | | 4 BLAN | E 8 MAHER ENGINEERS, INC. NCHARD ROAD ERLAND CENTER, ME 04021 | | |
| (LT-C4I | رد) | | Butylbenzylphth alate | 2-sec-Butyl-4-6- dinitrophenol (Dinoseb) | - 4-Chloroaniline | Bis(2- Chloroethoxy)m ethane | Bis(2- Chloroethyl)eth er | Bis(2- Chloroisopropyl)ether | 4-Chloro-3- Methylphenol | 2- Chioronaphthale ne | 2-Chlorophenol | 4-Chlorophenyl- phenylether | Chrysene | Dibenz(a,h)Anth racene | Dibenzofuran | Di-n- butylphthalate | 1,2- Dichlorobenzen e |
| Date | Туре | Sample ID | υμ/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ag/L | ug/L | u <u>e</u> /L | ug/L | ug/L | ug/L |
| LT-C4 | L | | | | | | | | | | · | | | | | ··· | |
| 4/15/200 | 9 XX | LTC4LX325 | 28 U | 24 U | 28 U | 26 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U |
| 7/7/200 | 9 "XX" | LTC4LX369 | T | | | | | i | | | | | | | | T | 25 U |
| 10/28/200 | 9 XX | LTC4LX3E4 | | | | | | | | | | | | | | I | 10 U |
| 4/28/201 | 0 XX | LTC4LX3J3 | 9 ป | 4.7 U | 9 U | 9 U | 9 U | 9 U | 9 U | 90 | 90 | 90 | 90 | 9.0 | 9 U | 9 U | 2.5 U |
| 7/20/201 | 0 XX | LTC4LX427 | | | | T | | | | | T | | | | | | 2.5 U |
| 10/19/201 | o xx | LTC4LX45B | | | | T | | | | i i | | | | | Į | | 0.5 U |
| 4/27/201 | 1 XX | LTC4LX49C | 2 U | 0.21 U | 2 U | 2 U | 2 ∪ | 2↓ | 4 J | 3 U | 3 U | 2 U | 20 | 2U | 2 U | 2 U | 2 U |
| 7/19/201 | 1 XX | LTC4LX4DA | | | | | | | | | 1 | | | |] | | 0.5 U |
| 10/26/201 | 1 XX | LTC4LX4H5 | | | | | 1 | | i | | | | | | L | 1 | 0.5 U |
| 4/24/201 | 2 XX | LTC4LX51F | 9.5 U | 4.8 Ų | 9.5 U | 9.5 U | 9.5 U | 95U | | 95U | 9.5 U | 9.5 U | 9.5 U | 9.5 U | 9,5 U | 9.5 U | 5 U |
| 7/24/201 | 2 XX | LTC4LX56E | | | | | | | | | | | | | | | 5 U |
| 10/23/201 | 2 XX | LTC4LX5D5 | | <u> </u> | | | | | | | | | | | | | 25 U |
| 4/23/201 | 3 XX | LTC4LX5HG | 110 U | 4.8 U | 110 U | 110 U | 110 U | 110 U | 110 U | 110 U | 110 U | 110 Ü | 110 U | 110 U | 110 U | 110 U | 25 U |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J- Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| PERORT | DDED. | ARED: 3/17/2014 | 4 09-47 | | | | | ANALIS | MARY REP | /ΩRT | | | · · | | Page 1 | of 1 | | |
|------------|-------------|--------------------|-----------------------------|-----------------------------|-------------------------------|------------------------|------------------------|------------------|-------------------------------------|---------------------------------------|----------------------------------|------------------------|----------------------|--|--------------------------------|--|----------|--|
| ĄĘF OKI | 11(21) | FOR: Juniper R | | | | | Semi-VOA (part 3 of 8) | | | | | | | | 4 BLAN | SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | |
| (LT-C4L | • | | 1,3- Dichlorobenzen e | 1,4- Dichlorobenzen e | 3,3- Dichlorohenzidi ne | 2,4- Dichlorophenol | 2,6- Dichlorophenol | Diethylphthalate | p- (Dimethylamino)azobenzene | 7,12- Dimethylbenz(a anthracene | 3,3°-) Dimethylbenzidi ne | 2,4- Dimethylphenol | Dimethylpthalat e | 1,3- Dinitrobenzene (m- Dinitrobenzene) | 4,6-Dimitro-2- methylphenol | 2,4- Dinitrophenol | | |
| Date | Туре | Sample ID | ug/L | ug/L | ug/L | п8/Г | μg/L | ug/L | ug/L | ug/L | υ g/L | J/ge | ug/L | ug/L | ug/L | ц <u>е</u> /L | | |
| LT-C41 | [| | | | | | | | | | | | | | | | | |
| 4/15/2009 | XX | LTC4LX325 | 28 U | 28 Ų | 28 U | 28 U | 28 U | 28 U | 57 U | 28 U | 57 U | 28 U | 28 U | 28 U | 71 U | 71 U | | |
| | | LTC4LX369 | | 25 U | 1 | | | T | T | | | | | <u> </u> | | | | |
| 10/28/2009 | → —— | LTC4LX3E4 | <u> </u> | 10 U | 1 | · | | T |] | | | <u> </u> | | <u> </u> | | | | |
| 4/28/2010 | + | LTC4LX3J3 | 9 U | 2.5 U | 9 U | 9 U | 9 U | 9 U | . â N | 90 | 24 U | 9 U | 9 U | 9 U | 24 U | 24 U | | |
| 7/20/2010 | XX | LTC4LX427 | | 2.5 U | | 1 | 1 | | | _L | | <u> </u> | | | . | | | |
| 10/19/2010 | XX | LTC4LX45B | | 1.3 | | | | | | | | | | | <u> </u> | <u> </u> | | |
| 4/27/2011 | XX | LTC4LX49C | 2 U | 2 U | 1 U | 3 Ų | | 2 J | | | | 4 U | 20 | | 20 | 1.0 | | |
| 7/19/2011 | XX | LTC4LX4 D A | · | 0.69 J | | II | | <u> </u> | | | | | | | | | ļ.:- ::: | |
| 10/26/2011 | XX | LTC4LX4H5 | | 1.1 | | | | | | | | | ļ | | | | <u> </u> | |
| 4/24/2012 | XX | LTC4LX51F | 95U | 5 U | 9.5 U | 9.5 U | 9.5 U | 95U | 9.5 U | 9.5 U | 24 U | 9.5 U | 9.5 U | 9.5 U | 24 U | 24 U | | |
| 7/24/2012 | | LTC4LX56É | | 5 U | 1 | | ↓ | | <u> </u> | . | | <u> </u> | ·· · | | | | | |
| 10/23/2012 | | LTC4LX5D5 | | 25 U | | | <u> </u> | | | | | ļ | | 1 | ļ | | | |
| 4/23/2013 | XX | LTC4LX5HG | 110 U | 25 U | 110 ∪ | 110 U | 110 U | 110 U | 110 U | 110 U | 280 U | 110 U | 110 U | 110 U | 280 U | 280 U | 1 | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT | | RED: 3/17/2014 FOR: Juniper R | | | | | SUMMARY REPORT Semi-VOA (part 4 of 8) | | | | | | | | Page 1 of 1 SEVEE & MAHER ENGINEERS, IN 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 0402 | | |
|-----------|-------|----------------------------------|------------------------|------------------------|-------------------------|------------------------------------|---------------------------------------|--------------|----------|-----------------------|---------------------------|-------------------------------|---------------------|-------------------------|--|--|--|
| (LT-C4L |) | | 2,4- Dinitrotoluene | 2,6- Dinitrotoluene | Di-n- octylphthalate | Bis(2- Ethylbexyl)phth alate | Ethyl methanesulfonat e | Fluoranthene | Fluorene | Hexachlorobenz ene | z Hexachlorobuta diene | Hexachlorocycl openiadiene | Hexachloroeth ne | a Hexachloroprop ene | Indeno(1,2,3- c,d)Pyrene | | |
| Date | Туре | Sample ID | ug/L | ц g/L | ug/L | սջ/L | ข8∕T | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | | |
| LT-C4I | L | W | | | | <u>_</u> | | | | | | | | | | | |
| 4/15/2009 | T XX | LTC4LX325 | 28 U | 28 U | 28 U | 28 U | 28 ∪ | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | 28 U | | |
| 4/28/2010 | · — | LTC4LX3J3 | 9 U | 9 U | 90 | 9 U | 90 | 90 | 9 U | 9 U | 9 U | 9 U | 9 U | 9 U | 9.0 | | |
| 4/27/2011 | | LTC4LX49C | 2 Ų | 2 U | 2 Ü | 2 U | 1 | 2.0 | 2 U | 20 | 2 U | 1 U | 2 U | | 2 U | | |
| 4/24/2012 | | LTC4LX51F | 9.5 U | 95U | 9.5 U | 9.5 U | 9.5 U | 9.5 U | 9.5 U | 9.5 U | 9.5 ∪ | 9.5 U | 9.5 U | 9.5 U | 9.5 U | | |
| | 1 | LTC4LX5HG | 110 U | 110 U | 110 U | 110 U | 110 U | 110 U | 110 U | 110 U | 1100 | 110 U | 110 U | 110 U | 110 U | | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT PR | REPARED: 3/17/2014 FOR: Juniper Ric | | | | | SUMMARY REPORT Semi-VOA (part 5 of 8) | | | | | | | _ | Page 1 of 1 SEVEE & MAHER ENGINEERS, INC 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | |
|-------------|--|--------------|------------|---------------|--|---------------------------------------|-----------------------------|----------------|----------------------|-------------|--|--------|------------------------|--|-----------|--|
| (LT-C4L) | ····· | Isophorone | Isosafrale | Methapyrilene | 3- Methylcholanthr ene | Methyl methanesulfonat e | 2- Methylnaphthale ne | 2-Methylphenol | 3&4- Methylphenol | Naphthalene | l- Naphthaleneami ne (1- Naphthylamine) | пф (2- | 1.4- Naphthoquinone | 2-Nitroaniline | Carbazole | |
| Date Ty | pe Sample ID | ս ይ∕L | ug/L | og/L | ug/L | ug/L | ug/L | ug/L | ng/L | ug/L | ug/L | ug/L | นg/L | ug/L | ug/L | |
| LT-C4L | | | | | | | | | | | | | | <u> </u> | | |
| 4/15/2009 X | XX LTC4LX325 | 28 U | 57 U | 71 U | 28 U | 57 U | 28 U | 28 U | 2800 | 300 | 28 ∪ | 28 U | 28 U | .71 U | L | |
| | KX LTC4LX3J3 | 9 U | 9 U | 9 U | 9 U | 9 U | 90 | 9υ | 450 | 10 | 9 U | 9 U | 9.0 | 24 U | L | |
| | X LTG4LX49C | 2 U | | | | | 30 | 10 | 23 | 6 J | | | <u></u> | . 2U | 2U | |
| | XX LTC4LX51F | 9.5 U | 9.5 U | 24 U | 95 u | 9.5 U | 9.5 U | 9.5 U | 95U | 9.5 U | 9.5 U | 9.5 U | 24 U | 24 U | LL | |
| | XX LTC4EX5HG | 110 U | 110 U | 280 U | 110 U | 110 U | 110 U | 110 U | 1000 | 110 U | 110 U | 110 U | 280 U | 28D U | <u></u> | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

- J Analyte was positively identified/Associated value is an estimate below reporting limit.
- U Not Detected above the reported sample detection limit.

| REPORT PREPARED: 3/17/201 FOR. Juniper F | | | | | SUMMARY REPORT Semi-VOA (part 6 of 8) | | | | | | | | Page 1 of 1 SEVEE & MAHER ENGINEERS, INC 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | |
|--|----------------|----------------|--------------|---------------|--|-------------------------|-------------------------------|--------------------------------|-------|--------------------------------|-------|-----------------------------------|--|----------|--|
| (LT-C4L) | 3-Nitroaniline | 4-Nitroaniline | Nitrobenzene | 2-Nitrophenol | 4-Nitrophenol | 5-Nitro-o- toluidine | N- Nitrosodiethyla mine | N- Nitrosodimethyl amine | | N-Nitroso-di-n- propylamine | | N- Nitrosomethylet bylamine | N- Navosopiperidin e | | |
| Date Type Sample ID | ug/L | ug/L | ug/L | пв⁄Г | ug∕I, | ug/L | ug/L | μgL | ug/L | п®Д | ug/L | սց/L | ug/L | | |
| LT-C4L | | | | | | | _ | | | | | | | | |
| 4/15/2009 XX LTC4LX325 | ; 71 U | 71 U | 28 U | 28 U | 71 U | 57 U | 57 U | 57 U | 28 U | 26 U | 28 U | 28 U | 28 ∪ | | |
| 4/28/2010 XX LTC4LX3J3 | 24 U | 24 U | 90 | 90 | 24 U | 9 U | 9 U | 90 | 9 U | 9 U | 9 U | 9.0 | 90 | | |
| 4/27/2011 XX LTC4LX49C | 10 | 20 | 3 U | 2 U | 2 U | | | | | 2 U | 40 | <u> </u> | | | |
| 4/24/2012 XX LTC4LX51F | 24 U | 24 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 | 280 U | 280 U | 110 U | 110 U | 280 U | 110 U | 110 U | 110 🗓 | 110 U | 110 U | 110 U | 110 U | 110 U | <u>L</u> | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

| REPORT PREPARED: 3/17/201- FOR: Juniper F | | | | | | | MARY REI | | | | Page 1 of 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | |
|--|-----------------------------|-------|-----------------------------|-----------------------|------------|--------------|----------|----------------------------|-----------|--------|--|--|
| (LT-C4L) | N- Nitrosopyrrolid ne | | Pentachloronits obenzene | Pentachlorophe nol | Phenacetin | Phenanthrene | Phenol | p- Phenylenediami ne | Pronamide | Pyrene | 1,2,4,5- Tetrachlorobenz ene | |
| Date Type Sample ID | ug/L | ug/L | ոն∕ Г | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ηβ\I` | |
| LT-C4L | | | | | | | | | | | | |
| 4/15/2009 XX LTC4LX325 | 28 U | 28 Ų | 28 U | 71 U | 28 U | 28 U | 410 E | 28 U | 28 U | 28 U | 28 U | |
| 4/28/2010 XX LTC4LX3J3 | 9 U | 9 U | 90 | 24 U | υ ę | 9 U | 70 | 9 U | 90 | 90 | 9.0 | |
| 4/27/2011 XX LTC4LX49C | | | | 2 U | | 2 U | 13 | | | 2 ป | | |
| 4/24/2012 XX LTC4LX51F | 9.5 U | 9.5 U | 9.5 Ų | 24 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 | 110 U | 110 U | 280 U | 110 U | 110 U | 140 | 280 U | 110 U | 110 U | 110 U | |

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.

| REPORT PREPARED: 3/17/20 FOR: Juniper | | · | 4* | | · | | ARY REPOI | | | | | | 4 BLANCHA | AHER ENGINE ARD ROAD AND CENTER, I | |
|--|-----------------------------------|-------------|--------------------------------|---------------------------|--------------------------|---|-----------|-----|-----|---|------|-----|----------------|--|--|
| (LT-C4L) | 2,3,4,6- Tetrachlorophen ol | O-Toluidine | 1,2,4- Trichlorobenzen e | 2,4,5- Trichlorophenol | 2,4,6- Trichloropheno | 1,3,5- Trinitrobenzene (sym- Trinitrobenzene) | Safrole | | | | | | | | |
| Date Type Sample ID | ng/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | | | | ·- | | | | |
| LT-C4L | | | | | | | | | | | | · · | - | | |
| 4/15/2009 XX LTC4LX325 | 28 U | 28 U | 28 U | 71 U | 28 U | 28 U | 28 U | | | | —. → | + | + | | |
| 4/28/2010 XX LTC4LX3J3 | 9 U | 24 U | 9 U | 24 U | 90 | 9 U | 9 Մ | | | | | —∔ | ·· + | | |
| 4/27/2011 XX LTC4LX49C | | | 2 U | 3 U | 3 U | <u></u> | | . — | _ — | | | + | | | |
| 4/24/2012 XX LTC4LX51F | 9.5 U | 24 U | 9.5 U | 24 U | 9.5 U | 9.5 U | 9.5 U | | | | | | - | | |
| 4/23/2013 XX LTC4LX5HG | 110 년 | 280 U | 110 U | 280 U | 110 U | 110 U | 110 U | | ! | J | ! | | | · | |

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Blank Cells appear when a parameter was not analyzed.

Concentration Qualifier Notes:

APPENDIX B

2013 WATER QUALITY EVALUATION SHEETS AND BOX & WHISKER PLOTS

Well Description

DP-4 is located downgradient of the landfill and 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

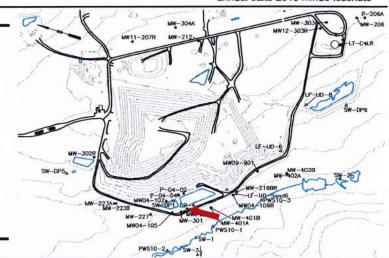
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 201 | 13 | | | His | torical | | |
|---------------------------------------|----|----------|----|--------|----------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 154.99 | | 154.47 | 152.18 | to 156.12 | 150 | ± 0.17 | 28 |
| Dissolved Oxygen (mg/L) | | 1 | | 0.8 | 0.6 | to 6 | 2.1 | ± 0.32 | 28 |
| Bromide (mg/L) | | 0.12 | | | | No historical | data for Bron | nide. | |
| Specific Conductance (µmhos/cm @25°C) | | 293 | | 273 | 100 | to 965 | 360 | ± 28 | 28 |
| pH (Standard Units) | | 6.5 | | 5.8 | 5.6 | to 7.3 | 6.6 | ± 0.07 | 28 |
| Alkalinity (CaCO3) (field) (mg/L) | | 70 | | 70 | 50 | to 290 | 130 | ± 11 | 27 |
| Arsenic (mg/L) | | 0.011 | | | 0.001 U | to 0.016 | 0.0056 | ± 0.000 | 28 |
| Cadmium (mg/L) | | 0.0006 U | | | 0.0002 U | to 0.0012 | 0.00044 | ± 6E-05 | 24 |
| Calcium (mg/L) | | 29.5 | | | 19 | to 105 | 37 | ± 3 | 28 |
| Iron (mg/L) | | 0.89 | | | 0.22 | to 5.1 | 0.97 | ± 0.18 | 28 |
| Magnesium (mg/L) | | 8.2 | | | 5.2 | to 24 | 10 | ± 0.8 | 28 |
| Manganese (mg/L) | | 1.81 | | | 0.77 | to 4.5 | 1.8 | ± 0.14 | 28 |
| Nickel (mg/L) | | 0.005 U | | | 0.002 U | to 0.007 | 0.0036 | ± 0.000 | 24 |
| Potassium (mg/L) | | 1.3 | | | 1 | to 4.5 | 1.6 | ± 0.14 | 28 |
| Sodium (mg/L) | | 10.8 | | | 7.3 | to 74 | 19 | ± 3.5 | 28 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.349 | | | 0.26 | to 110 | 5.2 | ± 4.1 | 27 |
| Nitrate (N) (mg/L) | | 0.3 U | | | 0.1 U | to 0.2 | 0.14 | ± 0.01 | 28 |
| Total Dissolved Solids (mg/L) | | 195 | | | 165 | to 575 | 240 | ± 16 | 28 |
| Total Suspended Solids (mg/L) | | 75 | | | 4 U | to 1490 | 210 | ± 64 | 28 |
| Sulfate (mg/L) | | 19.3 | | | 5.7 | to 113 | 17 | ± 4 | 28 |
| Bicarbonate (CaCO3) (mg/L) | | 80 | | | 77 | to 301 | 140 | ± 10 | 28 |
| Organic Carbon (mg/L) | | 2 U | | | 0.9 | to 8.1 | 2.9 | ± 0.31 | 28 |
| Chemical Oxygen Demand (mg/L) | | 10 U | | | 3 U | to 18 | 7.1 | ± 0.9 | 28 |
| Chloride (mg/L) | | 30.8 | | | 5.5 | to 72.9 | 21 | ± 3.3 | 28 |
| Turbidity (field) (NTU) | | 10 | | 3.9 | 0.6 | to 36.2 | 9.3 | ± 1.7 | 28 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | | | 0.2 U | to 1.1 | 0.28 | ± 0.04 | 27 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

Comments

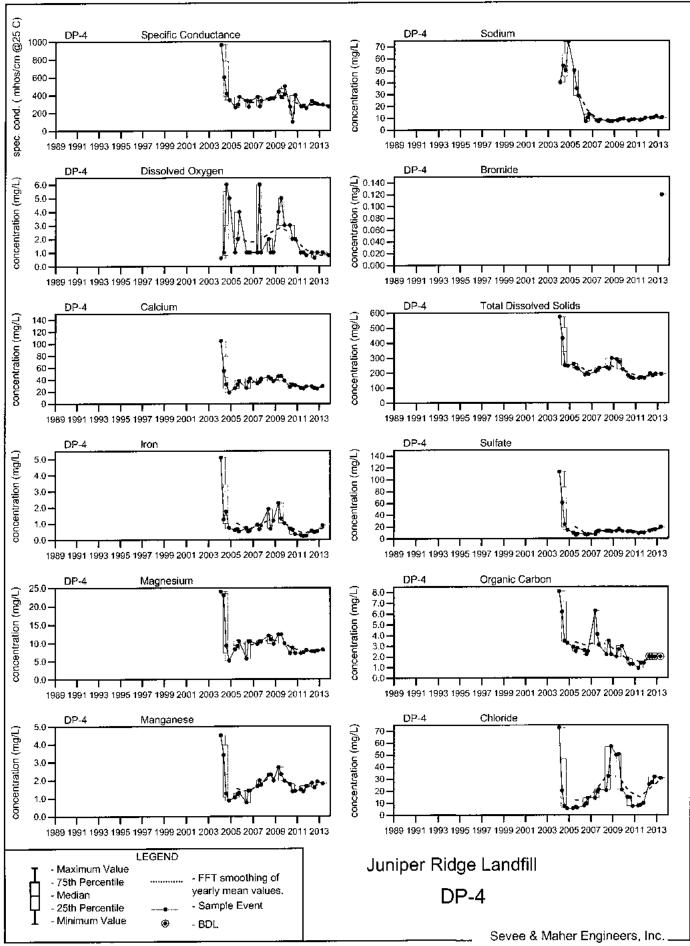
Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:

3/18/2014 13:05





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

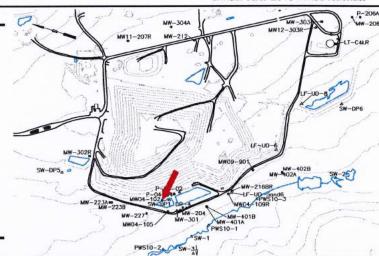
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



Hatariaal

| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|----------|---------|----------------|-------------------|------------------|---------|--|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean | SE n | | | |
| Water Level Elevation (Feet) | | 164.42 | 163.72 | 163.12 | 162.22 to 165.42 | 160 ± 0 | .17 25 | | | |
| Dissolved Oxygen (mg/L) | | 3 | 3 | ↓ 1 | 2 to 6 | 3.3 ± 0 | .21 25 | | | |
| Bromide (mg/L) | | ↑ 0.1 U | ↑ 0.1 U | ↑ 0.1 U | 0.03 U to 0.03 U | 0.03 ± 0 | 4 | | | |
| Specific Conductance (µmhos/cm @25°C) | | 220 | 227 | 207 | 193 to 249 | 220 ± 3 | .2 25 | | | |
| pH (Standard Units) | | ↑ 8.4 | 7.8 | ↑ 8.3 | 7.1 to 8.2 | 7.8 ± 0 | .06 25 | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 85 | 100 | 100 | 40 to 170 | 97 ± 6 | .4 25 | | | |
| Arsenic (mg/L) | | ↑ 0.008 | 1 0.017 | 1 <u>0.013</u> | 0.001 U to 0.006 | 0.003 ± 0 | .000 25 | | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0008 | 0.0006 U | 0.0002 U to 0.001 | 0.00038 ± 61 | E-05 25 | | | |
| Calcium (mg/L) | | 24.2 | 27.5 | 25.6 | 23.5 to 31.2 | 26 ± 0. | .35 25 | | | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U to 0.13 | $0.041 \pm 0.$ | .006 25 | | | |
| Magnesium (mg/L) | | 7 | 7.4 | 7.1 | 6.4 to 8.1 | 7.1 ± 0. | .09 25 | | | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U to 0.09 | $0.029 \pm 0.$ | 004 25 | | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.012 | $0.0031 \pm 0.$ | 000 25 | | | |
| Potassium (mg/L) | | 1.6 | 1.5 | 2.1 | 1.2 to 3.2 | 1.9 ± 0. | 09 25 | | | |
| Sodium (mg/L) | | 7.1 | 7 | 8.2 | 6.4 to 11 | 8 ± 0. | 24 25 | | | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.646 | 0.5 U | 0.3 U to 3.8 | $0.59 \pm 0.$ | 15 25 | | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U to 0.3 | 0.16 ± 0. | 02 25 | | | |
| Total Dissolved Solids (mg/L) | | 143 | 134 | 137 | 116 to 148 | 130 ± 1. | 9 25 | | | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U to 5 | 4 ± 0. | 04 25 | | | |
| Sulfate (mg/L) | | 13.2 | 9.1 | 9.1 | 6.7 to 14 | 9.4 ± 0. | 36 25 | | | |
| Bicarbonate (CaCO3) (mg/L) | | 100 | 102 | 101 | 73 to 109 | 100 ± 1. | 3 25 | | | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 to 5.3 | 1.6 ± 0. | 22 25 | | | |
| Chemical Oxygen Demand (mg/L) | | 10 U | ↑ 10 U | ↑ 10 U | 3 U to 9 | 4.3 ± 0. | 51 25 | | | |
| Chloride (mg/L) | | 2.4 | 1.2 | 2.5 | 1 U to 3.5 | 1.9 ± 0. | 14 25 | | | |
| Turbidity (field) (NTU) | | 0.9 | 8.0 | 1.2 | 0 to 3.8 | $0.86 \pm 0.$ | 2 25 | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to 0.25 | 0.2 ± 0. | 002 21 | | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

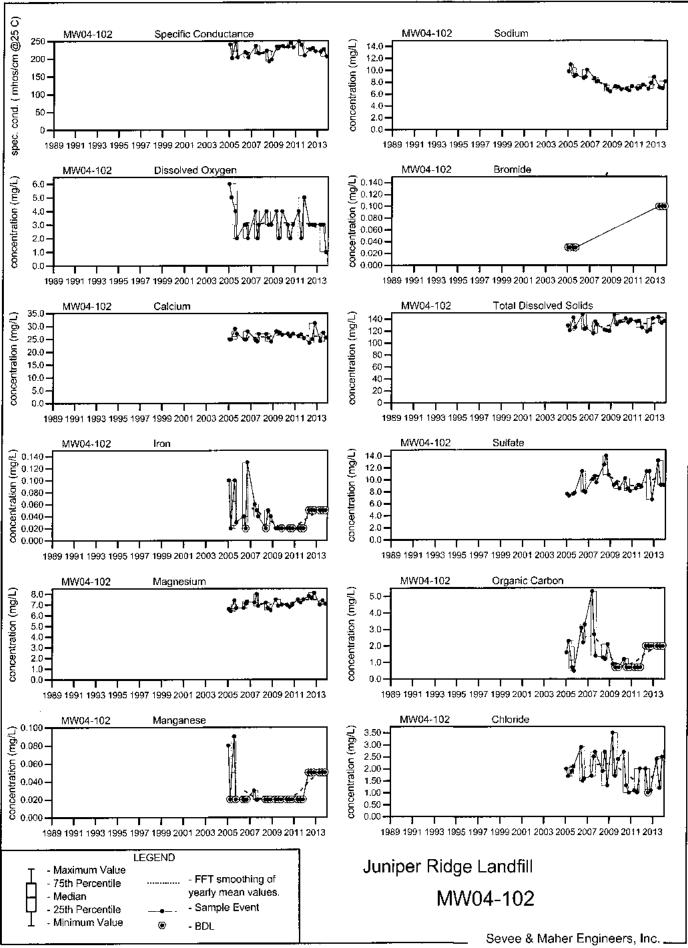
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





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

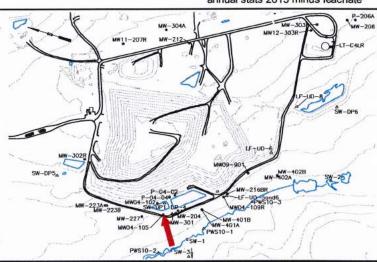
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 201 | 3 | | | His | torical | | |
|---------------------------------------|----|------------|----|--------|----------|-----------|---------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 158.04 | | 157.16 | 156.99 | to 159.79 | 160 | ± 0.14 | 25 |
| Dissolved Oxygen (mg/L) | | 1 | | 0.6 | 0.4 | to 4 | 1.5 | ± 0.22 | 25 |
| Bromide (mg/L) | | ↑ 0.1 U | | | 0.03 U | to 0.05 | 0.035 | ± 0.005 | 4 |
| Specific Conductance (µmhos/cm @25°C) | | 249 | | 286 | 217 | to 703 | 390 | ± 23 | 25 |
| pH (Standard Units) | | 6.8 | | 6.7 | 6.1 | to 7.7 | 6.9 | ± 0.08 | 25 |
| Alkalinity (CaCO3) (field) (mg/L) | | 90 | | 125 | 70 | to 240 | 150 | ± 10 | 25 |
| Arsenic (mg/L) | | 0.012 | | | 0.001 U | to 0.014 | 0.0045 | ± 0.000 | 25 |
| Cadmium (mg/L) | | 0.0006 U | | | 0.0002 U | to 0.0021 | 0.00044 | ± 9E-05 | 25 |
| Calcium (mg/L) | | 25.9 | | | 22.7 | to 75 | 42 | ± 3.1 | 25 |
| Iron (mg/L) | | 0.05 U | | | 0.02 U | to 0.11 | 0.046 | ± 0.005 | 25 |
| Magnesium (mg/L) | | 9.1 | | | 8.4 | to 30 | 15 | ± 1.1 | 25 |
| Manganese (mg/L) | | 0.05 U | | | 0.02 U | to 0.98 | 0.16 | ± 0.05 | 25 |
| Nickel (mg/L) | | 1 0.005 U | | | 0.002 U | to 0.004 | 0.0026 | ± 0.000 | 25 |
| Potassium (mg/L) | | 1.3 | | | 1.3 | to 2.8 | 1.7 | ± 0.08 | 25 |
| Sodium (mg/L) | | ↓ 8.4 | | | 8.7 | to 32 | 18 | ± 1.2 | 25 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | | | 0.3 U | to 1 | 0.44 | ± 0.04 | 25 |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | | | 0.1 U | to 0.2 | 0.13 | ± 0.01 | 25 |
| Total Dissolved Solids (mg/L) | | 162 | | | 141 | to 432 | 240 | ± 17 | 25 |
| Total Suspended Solids (mg/L) | | 4 U | | | 4 U | to 5 | 4 | ± 0.04 | 25 |
| Sulfate (mg/L) | | 5.5 | | | 4.2 | to 115 | 27 | ± 6.7 | 25 |
| Bicarbonate (CaCO3) (mg/L) | | 111 | | | 100 | to 225 | 160 | ± 7 | 25 |
| Organic Carbon (mg/L) | | 2 U | | | 0.8 | to 7.5 | 2.8 | ± 0.32 | 25 |
| Chemical Oxygen Demand (mg/L) | | 10 U | | | 3 U | to 12 | 6.1 | ± 0.65 | 25 |
| Chloride (mg/L) | | 7.7 | | | 2.9 | to 30.9 | 11 | ± 1.2 | 25 |
| Turbidity (field) (NTU) | | † 3 | | 1.2 | 0 | to 1.8 | 0.64 | ± 0.13 | 25 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | | | 0.2 U | to 0.22 | 0.2 | ± 0.001 | 21 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

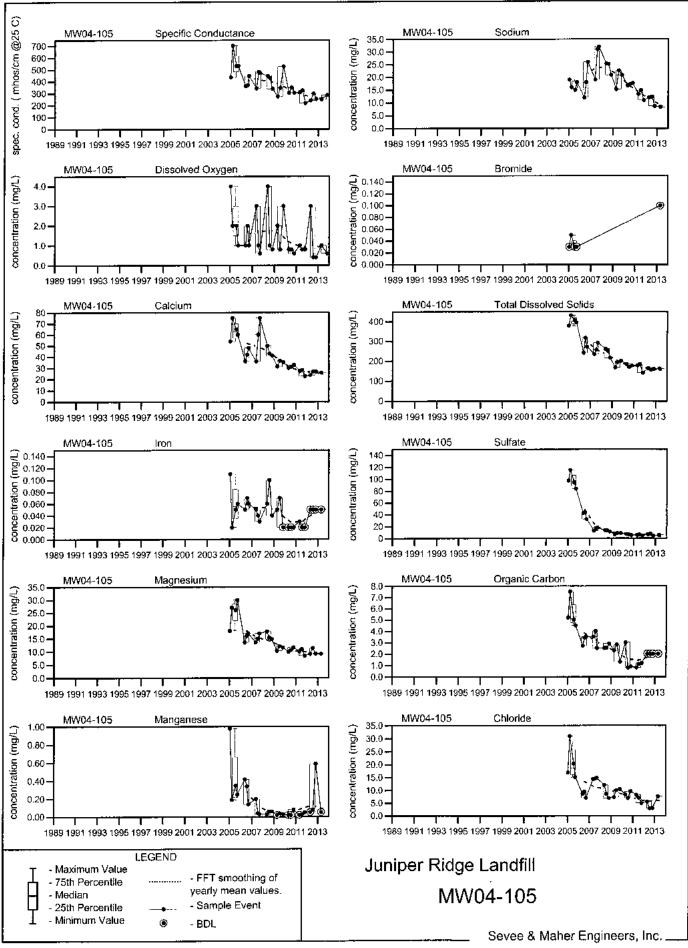
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Well Description

MW04-109R is located to the south of Cell #5 of the expansion 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

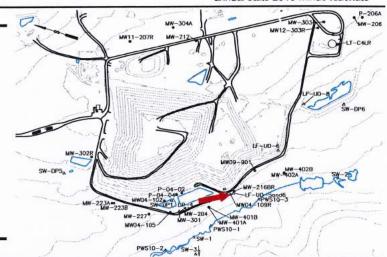
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



Historical

| | | | 013 | | - Historical | | | | |
|---------------------------------------|----|----------|----------|----------|--------------|------------------|----------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 153.45 | 153.21 | 152.72 | 152.64 | to 153.98 | 150 : | t 0.15 | 10 |
| Dissolved Oxygen (mg/L) | | 1 | 0.6 | 0.6 | 0.3 | to 1 | 0.53 | 80.0 | 10 |
| Bromide (mg/L) | | 0.17 | 0.14 | 0.16 | | No historical of | data for Bromi | de. | |
| Specific Conductance (µmhos/cm @25°C) | | 390 | 414 | 397 | 382 | to 550 | 440 = | 16 | 10 |
| pH (Standard Units) | | 6.8 | 6.6 | ↓ 6.3 | 6.5 | to 7.9 | 6.8 | t 0.14 | 10 |
| Alkalinity (CaCO3) (field) (mg/L) | | 165 | 180 | 220 | 105 | to 240 | 160 : | t 13 | 10 |
| Arsenic (mg/L) | | 0.017 | 0.016 | 0.015 | 0.002 U | to 0.033 | 0.014 | 0.003 | 10 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0006 | 0.0004 ± | E 7E-05 | 10 |
| Calcium (mg/L) | | 54.1 | 62.5 | 58.5 | 50.3 | to 77.2 | 60 ± | 2.7 | 10 |
| Iron (mg/L) | | ↑ 0.05 U | 1 0.05 U | ↑ 0.05 U | 0.02 U | to 0.03 | 0.03 ± | 0.005 | 10 |
| Magnesium (mg/L) | | ↓ 9.7 | 10.8 | 10.9 | 10.1 | to 14.3 | 12 ± | 0.43 | 10 |
| Manganese (mg/L) | | 0.05 U | 0.1 | 0.15 | 0.02 | to 0.15 | 0.05 ± | 0.01 | 10 |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.005 U | 0.0029 ± | 0.000 | 10 |
| Potassium (mg/L) | | 2 | ↓ 1.8 | 1.9 | 1.9 | to 2.5 | 2.2 ± | 0.05 | 10 |
| Sodium (mg/L) | | 9 | ↓ 8.2 | 8.4 | 8.3 | to 10.6 | 9.5 ± | 0.22 | 10 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.444 | 0.5 U | 0.3 U | to 0.59 | 0.33 ± | 0.03 | 10 |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U | to 0.3 U | 0.16 ± | 0.03 | 10 |
| Total Dissolved Solids (mg/L) | | 245 | 242 | 259 | 227 | to 310 | 260 ± | 8.4 | 10 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 4 U | 4 ± | 0 | 10 |
| Sulfate (mg/L) | | 8.7 | 8.6 | 7.7 | 2.6 | to 15.2 | 7.5 ± | : 1.1 | 10 |
| Bicarbonate (CaCO3) (mg/L) | | 190 | 195 | 206 | 184 | to 233 | 210 ± | 5.7 | 10 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 1.2 | to 2.9 | 1.8 ± | 0.17 | 10 |
| Chemical Oxygen Demand (mg/L) | | 10 U | ↑ 10 U | ↑ 10 U | 3 U | to 5 | 5.4 ± | : 1 | 10 |
| Chloride (mg/L) | | 6.5 | 7.7 | 6.3 | 2.3 | to 15.9 | 7.6 ± | 1.2 | 10 |
| Turbidity (field) (NTU) | | 0.3 | 0.2 | 0.2 | 0 | to 2.9 | 0.71 ± | 0.29 | 10 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.2 U | 0.2 ± | 2E-09 | 10 |

2013

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

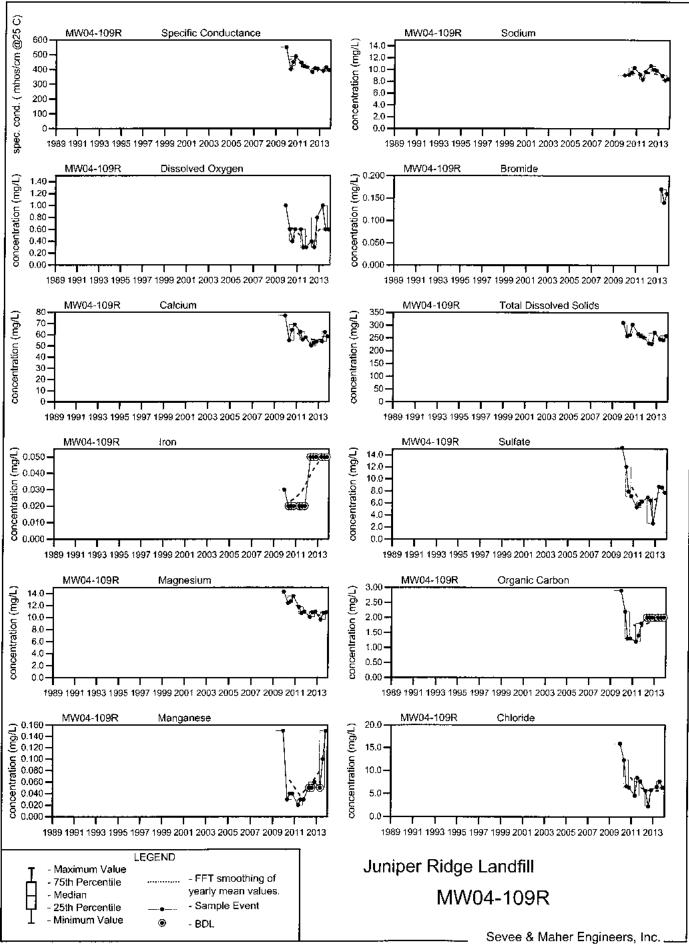
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed: 3/18/2014 13:05





Well Description

MW09-901 is located to the south of Cell #5 and detention pond #2 of the expansion landfill. 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

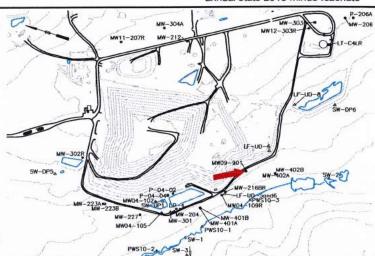
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 2 | 013 | | Historical | | | | |
|---------------------------------------|----|------------|------------|--------------|------------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 155.68 | 155.16 | 154.47 | 154.3 t | 0 157.15 | 160 | ± 0.31 | 10 |
| Dissolved Oxygen (mg/L) | | 1 4 | 1 4 | 2 | 0.6 t | to 3 | 1.8 | ± 0.26 | 10 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | ide. | |
| Specific Conductance (µmhos/cm @25°C) | | ↓ 178 | 197 | 195 | 189 t | 0 300 | 240 | ± 14 | 10 |
| pH (Standard Units) | | 8.4 | 7.7 | ↓ 7.3 | 7.4 | 0 8.4 | 7.9 | ± 0.11 | 10 |
| Alkalinity (CaCO3) (field) (mg/L) | | 65 | 80 | 85 | 50 t | 0 120 | 85 | ± 6.9 | 10 |
| Arsenic (mg/L) | | 0.009 | 0.01 | 0.009 | 0.002 U t | 0.013 | 0.0065 | ± 0.001 | 10 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U t | 0.0006 | 0.00033 | ± 6E-05 | 10 |
| Calcium (mg/L) | | 19.1 | 21.8 | 22.5 | 18.8 t | 0 29.6 | 24 | ± 1.3 | 10 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U t | 0.18 | 0.049 | ± 0.02 | 10 |
| Magnesium (mg/L) | | 5.4 | 5.9 | 6.1 | 5.4 t | 8 0 | 6.5 | ± 0.25 | 10 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U t | 0.39 | 0.083 | ± 0.04 | 10 |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U t | 0.003 | 0.003 | ± 0.000 | 10 |
| Potassium (mg/L) | | 1.7 | ↓ 1.5 | 1.7 | 1.6 1 | 0 2.6 | 2.1 | ± 0.11 | 10 |
| Sodium (mg/L) | | ↓ 5.1 | ↓ 4.9 | 5.9 | 5.2 t | 0 17.4 | 8 | ± 1.2 | 10 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 1 0.52 | ↑ 0.5 U | 0.3 U t | o 0.3 U | 0.3 | ± 1E-09 | 10 |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U t | o 0.3 U | 0.16 | ± 0.03 | 10 |
| Total Dissolved Solids (mg/L) | | 116 | 110 | 116 | 103 t | o 193 | 130 | ± 9.2 | 10 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U t | 0 4 | 4 | ± 0 | 10 |
| Sulfate (mg/L) | | 10.8 | 10.7 | 9.2 | 7 t | 0 27.4 | 12 | ± 1.9 | 10 |
| Bicarbonate (CaCO3) (mg/L) | | 81 | 80 | 85 | 75 t | 0 110 | 92 | ± 4.1 | 10 |
| Organic Carbon (mg/L) | | ↑2U | 1 2 U | ↑2U | 0.7 U to | ∘ 1.9 | 1.4 | ± 0.19 | 10 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U t | o 12 | 5.4 | ± 1.2 | 10 |
| Chloride (mg/L) | | 2.5 | 2 | 2.7 | 1 U t | ∘ 5.1 | 2.4 | ± 0.43 | 10 |
| Turbidity (field) (NTU) | | ↓ 0.1 | 0.4 | 1.4 | 0.3 to | 0 10.1 | 2.6 | ± 0.9 | 10 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U t | o 0.2 U | 0.2 | ± 2E-09 | 10 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

↑ indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

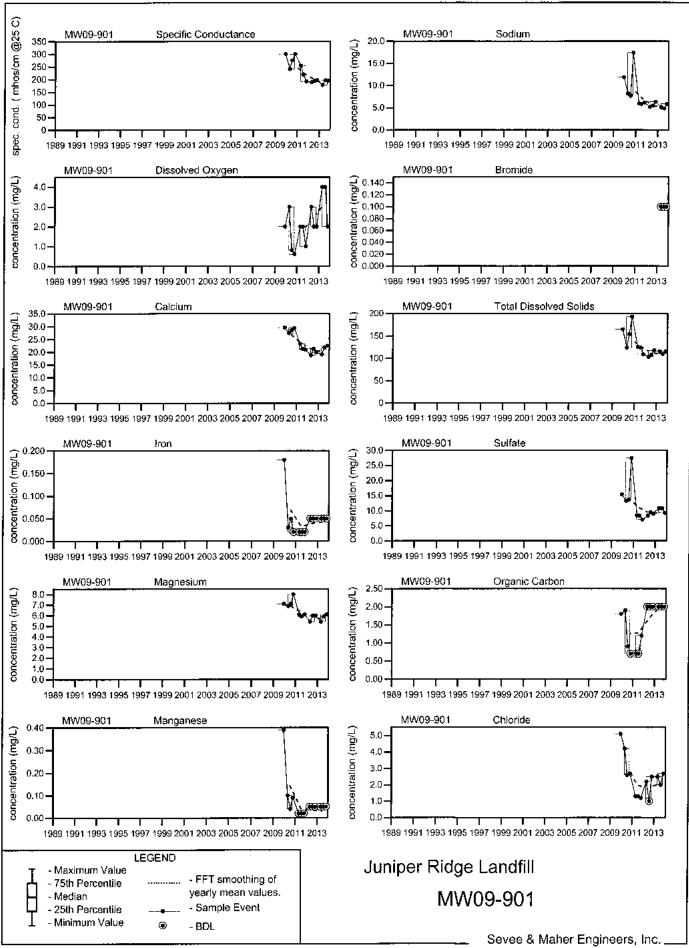
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Well Description

MW11-207R monitors bedrock groundwater quality upgradient of the landfill. This well replaced MW-207.

Screen Interval:

39.5 ft. to 44.5 ft.

Sampled:

3 Times Annually

Sampled Since:

07/20/2011

Material Screened:

Bedrock

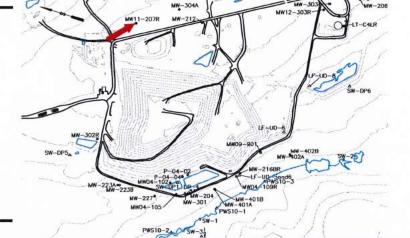
Well Condition:

Good

TTON CONGRESSIO

Good

Sampling Method: Low Flow



Chemical Summary

| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|--------------|--------------|-------------|------------|---------------|------------------|-------|---|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Water Level Elevation (Feet) | | 206.93 | 203.16 | ↓ 200.59 | 203.03 | to 208.56 | 200 ± | 1.3 | 4 | |
| Dissolved Oxygen (mg/L) | | 6 | ↑8 | 6 | 5 | to 6 | 5.4 ± | 0.24 | 5 | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bromide | э. | | |
| Specific Conductance (µmhos/cm @25°C) | | 83 | 88 | ↓ 82 | 83 | to 103 | 89 ± | 3.6 | 5 | |
| pH (Standard Units) | | 8 | 7.9 | ↑ 8.2 | 7.7 | to 8.1 | 7.9 ± | 80.0 | 5 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 40 | 1 45 | 40 | 25 | to 40 | 34 ± | 2.9 | 5 | |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | 0.007 | 0.004 | 800.0 ot | $0.0054 \pm$ | 0.000 | 5 | |
| Cadmium (mg/L) | | 1 0.0006 U | 1 0.0006 U | ↑ 0.0006 U | 0.0002 U | 0.0005 | $0.0005 \pm$ | 8E-05 | 5 | |
| Calcium (mg/L) | | 8.1 | 9 | 8.7 | 7.9 | to 9.3 | 8.4 ± | 0.24 | 5 | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | 0.05 U | $0.038 \pm$ | 0.007 | 5 | |
| Magnesium (mg/L) | | 2.8 | 2.9 | 3 | 2.6 | 0 3.3 | 2.9 ± | 0.12 | 5 | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | 0.05 U | $0.038 \pm$ | 0.007 | 5 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | o 0.005 U | 0.0038 ± | 0.000 | 5 | |
| Potassium (mg/L) | | 0.5 | 0.4 | 0.5 | 0.4 | 0.5 | 0.48 ± | 0.02 | 5 | |
| Sodium (mg/L) | | 3.8 | ↓ 3.1 | 3.7 | 3.3 t | 0 3.9 | 3.6 ± | 0.1 | 5 | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.551 | 0.5 U | 0.3 U t | 0.93 | 0.46 ± | 0.12 | 5 | |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.2 t | 0.2 | 0.26 ± | 0.02 | 5 | |
| Total Dissolved Solids (mg/L) | | 70 | 69 | ↑ 75 | 61 t | 0 72 | 68 ± | 1.9 | 5 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U t | o 4 U | 4 ± | 0 | 5 | |
| Sulfate (mg/L) | | 12.1 | 1 2 U | ↑2U | 1 t | 0 1.3 | 1.7 ± (| 0.21 | 5 | |
| Bicarbonate (CaCO3) (mg/L) | | 39 | 40 | 39 | 36 t | 0 42 | 39 ± | 1.1 | 5 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.7 U t | o 2 U | 1.5 ± (| 0.32 | 5 | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U t | ∘ 10 U | 7.2 ± | 1.7 | 5 | |
| Chloride (mg/L) | | 1 2.8 | 1 2.6 | ↑ 3.8 | 1.3 t | 0 2.1 | 1.8 ± (| 0.18 | 5 | |
| Turbidity (field) (NTU) | | ↓ 0.5 | ↓ 0.2 | 1.6 | 1.6 t | o 3 | 2.1 ± (| 0.28 | 5 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U t | o 0.2 U | 0.2 ± 2 | 2E-09 | 5 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

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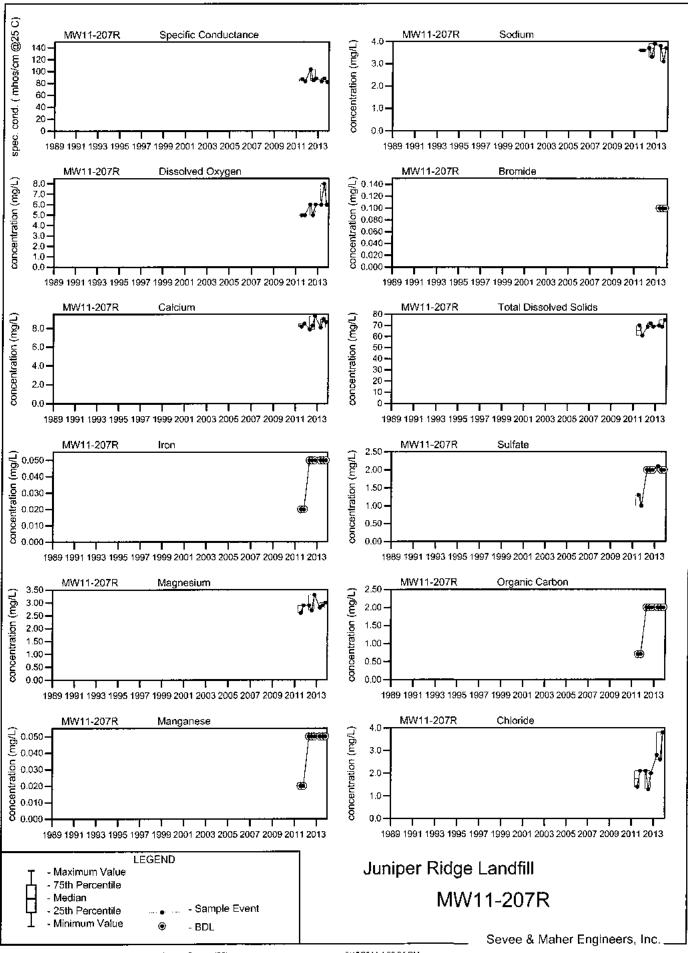
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





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

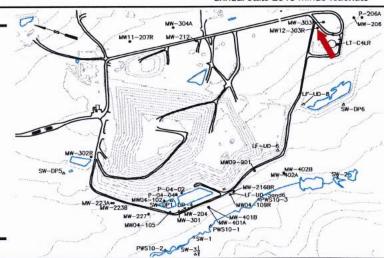
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|---------------|---------------|----------------|------------|------------------|----------------|------------|---|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Water Level Elevation (Feet) | | 183.37 | | | No hist | torical data for | Water Level | Elevation. | 8 | |
| Dissolved Oxygen (mg/L) | | 2 | ↓ 1 | ↓ 1 | 2 | to 2 | 2 : | t 0 | 1 | |
| Bromide (mg/L) | | 0.22 | 0.3 | 0.42 | | No historical d | lata for Bromi | de. | | |
| Specific Conductance (µmhos/cm @25°C) | | 1 254 | 1 253 | 1 223 | 189 | to 189 | 190 : | t 0 | 1 | |
| pH (Standard Units) | | ↓ 6.7 | ↓ 6.6 | ↓ 6.5 | 7 | to 7 | 7 : | E 0 | 1 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 110 | 105 | 140 | 80 | to 80 | 80 : | E 0 | 1 | |
| Arsenic (mg/L) | | 1 0.01 | ↑ 0.008 | ↑ <u>0.015</u> | 0.005 U | to 0.005 U | 0.005 | t 0 | 1 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0006 U | to 0.0006 U | 0.0006 | ± 0 | 1 | |
| Calcium (mg/L) | | 121.3 | 1 24.3 | ↑ 23.7 | 16.6 | to 16.6 | 17 : | ± 0 | 1 | |
| Iron (mg/L) | | ↓ 0.05 U | ↓ 0.05 U | ↓ 0.05 U | 0.1 | to 0.1 | 0.1 | 0 | 1 | |
| Magnesium (mg/L) | | ↑ 9.5 | 10 | 10.3 | 7.8 | to 7.8 | 7.8 | 0 | 1 | |
| Manganese (mg/L) | | ↓ 0.06 | ↓ 0.05 U | ↓ 0.05 U | 0.32 | 0.32 | 0.32 | ± 0 | 1 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.005 U | o 0.005 U | 0.005 | 0 | 1 | |
| Potassium (mg/L) | | 1 2.1 | 1.5 | ↑ 1.7 | 1.5 | 0 1.5 | 1.5 | : 0 | 1 | |
| Sodium (mg/L) | | 15.9 | ↓ 8.8 ↓ | ↓ 9.2 | 10.4 | 0 10.4 | 10 ± | : 0 | 1 | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | ↑ 0.673 | ↑ 0.5 U | 0.3 U | o 0.3 U | 0.3 ± | : 0 | 1 | |
| Nitrate (N) (mg/L) | | 0.3 U | ↑ 0.5 | ↑ 0.5 | 0.3 U | o 0.3 U | 0.3 ± | : 0 | 1 | |
| Total Dissolved Solids (mg/L) | | 159 | 195 | ↑ 158 | 143 | 0 143 | 140 ± | 0 | 1 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U 1 | o 4 U | 4 ± | : 0 | 1 | |
| Sulfate (mg/L) | | ↑ 7.6 | 4.2 | ↓ 2.8 | 4.2 | 0 4.2 | 4.2 ± | : 0 | 1 | |
| Bicarbonate (CaCO3) (mg/L) | | ↑114 | 113 | ↑111 | 92 1 | 0 92 | 92 ± | : 0 | 1 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 2 U 1 | o 2 U | 2 ± | : 0 | 1 | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 10 U | o 10 U | 10 ± | : 0 | 1 | |
| Chloride (mg/L) | | ↑ 6.6 | 1 8 | ↑ 8.4 | 4.9 | 0 4.9 | 4.9 ± | 0 | 1 | |
| Turbidity (field) (NTU) | | ↓2 | ↓ 0.9 | ↓ 2.4 | 9.3 | 0 9.3 | 9.3 ± | : 0 | 1 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U t | o 0.2 U | 0.2 ± | : 0 | 1 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

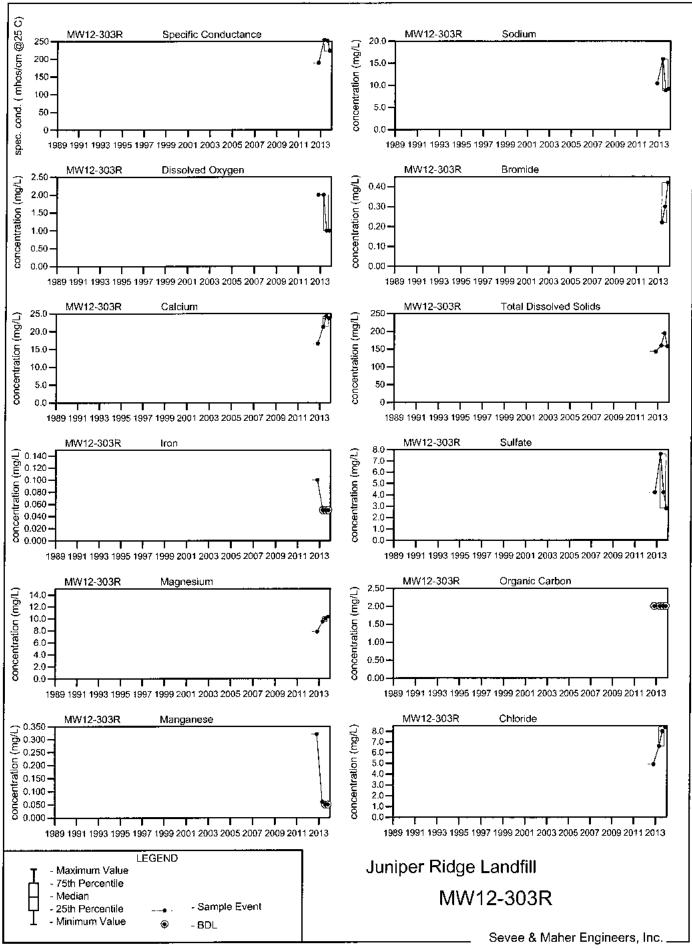
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





 $\ensuremath{\mathsf{MW}}\xspace\textsc{-204}$ 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

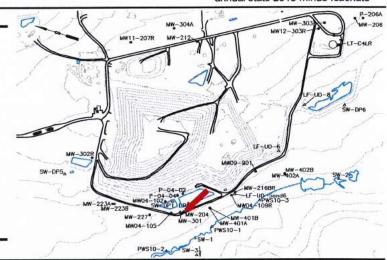
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 201 | 13 | | Historical | | | | | | |
|---------------------------------------|----|-----------|----|-------|------------|----------|--------|---------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | | |
| Water Level Elevation (Feet) | | 155.53 | | 154.8 | 150.53 | o 161.5 | 160 | ± 0.24 | 73 | | |
| Dissolved Oxygen (mg/L) | | <u>-1</u> | | 0.6 | 0.4 | 0 5.2 | 1.6 | ± 0.15 | 54 | | |
| Bromide (mg/L) | | ↑ 0.1 U | | | 0.03 U | o 0.03 U | 0.03 | ± 0 | 2 | | |
| Specific Conductance (µmhos/cm @25°C) | | 185 | | 185 | 100 | o 340 | 190 | ± 6.2 | 76 | | |
| pH (Standard Units) | | 6.7 | | 6 | 5.7 | 0 9.2 | 6.8 | ± 0.07 | 76 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 60 | | 80 | 50 | o 140 | 96 | ± 4.5 | 27 | | |
| Arsenic (mg/L) | | 0.008 | | | 0.001 U | 0.01 | 0.0036 | ± 0.000 | 28 | | |
| Cadmium (mg/L) | | 0.0006 U | | | 0.0002 U | 0.0006 | 0.0017 | ± 0.000 | 38 | | |
| Calcium (mg/L) | | 19.6 | | | 2.7 | o 39 | 23 | ± 0.76 | 62 | | |
| Iron (mg/L) | | 0.05 U | | | 0.008 | 0 2.4 | 0.11 | ± 0.04 | 68 | | |
| Magnesium (mg/L) | | 6 | | | 3.9 | 0 12 | 6.7 | ± 0.22 | 62 | | |
| Manganese (mg/L) | | 0.05 U | | | 0.002 | 0 1.2 | 0.064 | ± 0.02 | 68 | | |
| Nickel (mg/L) | | ↑ 0.005 U | | | 0.002 U | 0.004 | 0.0025 | ± 0.000 | 26 | | |
| Potassium (mg/L) | | 0.9 | | | 0.9 | 0 3.3 | 1.2 | ± 0.09 | 28 | | |
| Sodium (mg/L) | | 6.8 | | | 4 1 | 0 10.6 | 6.1 | ± 0.17 | 68 | | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.381 | | | 0.15 U | 0 4 | 0.69 | ± 0.13 | 39 | | |
| Nitrate (N) (mg/L) | | 0.3 U | | | 0.05 U | 0.3 | 0.12 | ± 0.01 | 40 | | |
| Total Dissolved Solids (mg/L) | | 134 | | | 61 | o 220 | 130 | ± 3.6 | 68 | | |
| Total Suspended Solids (mg/L) | | ↑5 | | | 4 U 1 | o 4 U | 4 | ± 0 | 28 | | |
| Sulfate (mg/L) | | 6.2 | | | 2.5 | 0 42.5 | 8.5 | ± 0.75 | 68 | | |
| Bicarbonate (CaCO3) (mg/L) | | 77 | | | 72 | o 110 | 88 | ± 1.8 | 28 | | |
| Organic Carbon (mg/L) | | 2 U | | | 0.4 | o 17 | 2.4 | ± 0.35 | 68 | | |
| Chemical Oxygen Demand (mg/L) | | 10 U | | | 2U 1 | o 240 | 13 | ± 3.9 | 68 | | |
| Chloride (mg/L) | | 5.5 | | | 10 | ∘ 8.8 ∘ | 4.5 | ± 0.34 | 68 | | |
| Turbidity (field) (NTU) | | 5.5 | | 1.7 | 0 1 | o 31 | 2.7 | ± 0.83 | 53 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | | | 0.2 U | 0.5 | 0.21 | ± 0.009 | 36 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

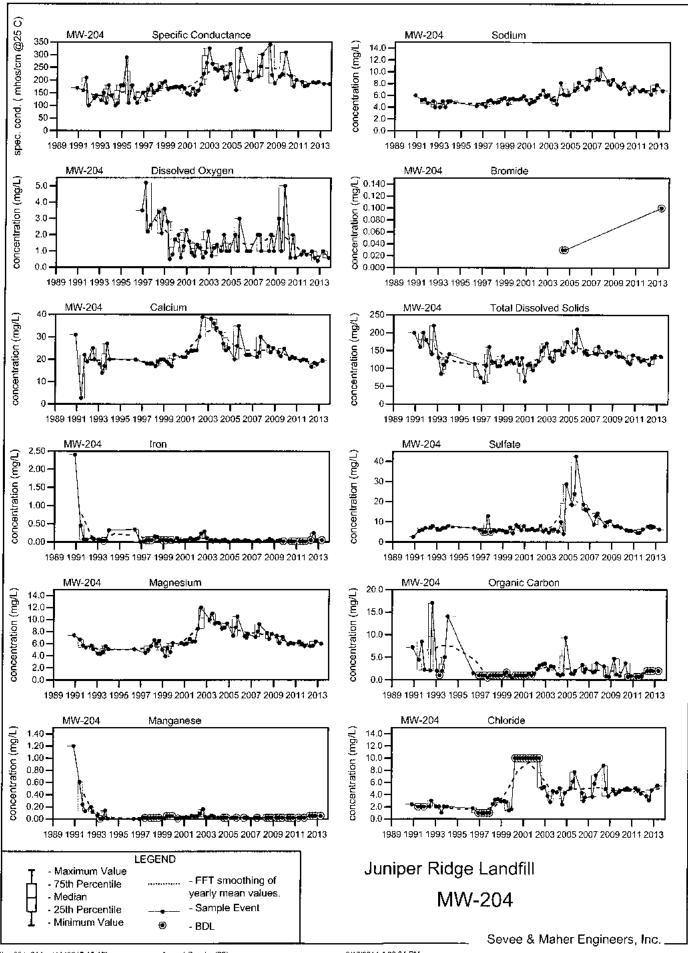
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed: 3/18/2014 13:05





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

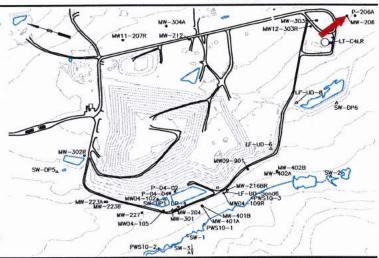
Material Screened:

Overburden

Well Condition:

Good

Sampling Method: Low Flow



Chemical Summary

| | | 20 | 013 | | 10-1112 | Hist | orical | | |
|---------------------------------------|----|-----------|-----------|-----------|----------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 199.87 | 197.89 | 196.62 | 186.1 | to 201.59 | 200 | ± 0.45 | 64 |
| Dissolved Oxygen (mg/L) | | 6 | 8 | 6 | 2 | to 10.9 | 6.6 | ± 0.29 | 53 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bron | nide. | |
| Specific Conductance (µmhos/cm @25°C) | | 141 | 146 | 135 | 89 | to 187 | 140 | ± 2.4 | 67 |
| pH (Standard Units) | | 8.1 | 7.7 | 7.9 | 6.2 | to 8.6 | 7.8 | ± 0.06 | 67 |
| Alkalinity (CaCO3) (field) (mg/L) | | 65 | 65 | 60 | 30 | to 125 | 77 | ± 3.7 | 27 |
| Arsenic (mg/L) | | 0.008 | 0.008 | 0.013 | 0.001 | to 0.015 | 0.006 | ± 0.000 | 27 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0011 | 0.0011 | ± 0.000 | 29 |
| Calcium (mg/L) | | 14.5 | 15.7 | 16 | 13 | to 27.2 | 16 | ± 0.28 | 54 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.012 | to 1.2 | 0.16 | ± 0.03 | 60 |
| Magnesium (mg/L) | | 4.8 | 4.7 | 4.9 | 2.7 | to 6.9 | 4.5 | ± 0.08 | 54 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.003 | to 0.32 | 0.03 | ± 0.005 | 60 |
| Nickel (mg/L) | | 1 0.005 U | 1 0.005 U | ↑ 0.005 U | 0.002 U | to 0.003 | 0.0025 | ± 0.000 | 24 |
| Potassium (mg/L) | | 0.8 | 0.6 | 0.9 | 0.3 | to 2.5 | 0.92 | ± 0.08 | 27 |
| Sodium (mg/L) | | 5.1 | 4.1 | 5.2 | 3.7 | to 25 | 5.8 | ± 0.34 | 60 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.311 | 0.684 | 0.5 U | 0.15 U | to 2.4 | 0.65 | ± 0.12 | 32 |
| Nitrate (N) (mg/L) | | 1 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.05 U | to 0.27 | 0.13 | ± 0.01 | 32 |
| Total Dissolved Solids (mg/L) | | 88 | 88 | 95 | 30 | to 190 | 89 | ± 3.4 | 60 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 12 | 4.9 | ± 0.4 | 27 |
| Sulfate (mg/L) | | 2.8 | 2.2 | 2.3 | 0.2 | to 4.6 | 2 | ± 0.18 | 60 |
| Bicarbonate (CaCO3) (mg/L) | | 66 | 66 | 70 | 58 | to 80 | 69 | ± 0.73 | 27 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | to 9 | 1.6 | ± 0.19 | 60 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 2 U | to 23 | 6.9 | ± 0.63 | 60 |
| Chloride (mg/L) | | 2.4 | 2 | 2.4 | 0.8 | to 2.7 | 2.9 | ± 0.42 | 60 |
| Turbidity (field) (NTU) | | 0.9 | 0.9 | 1.5 | 0 | to 40 | 2.1 | ± 0.86 | 52 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.2 U | 0.2 | ± 5E-10 | 32 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

Comments

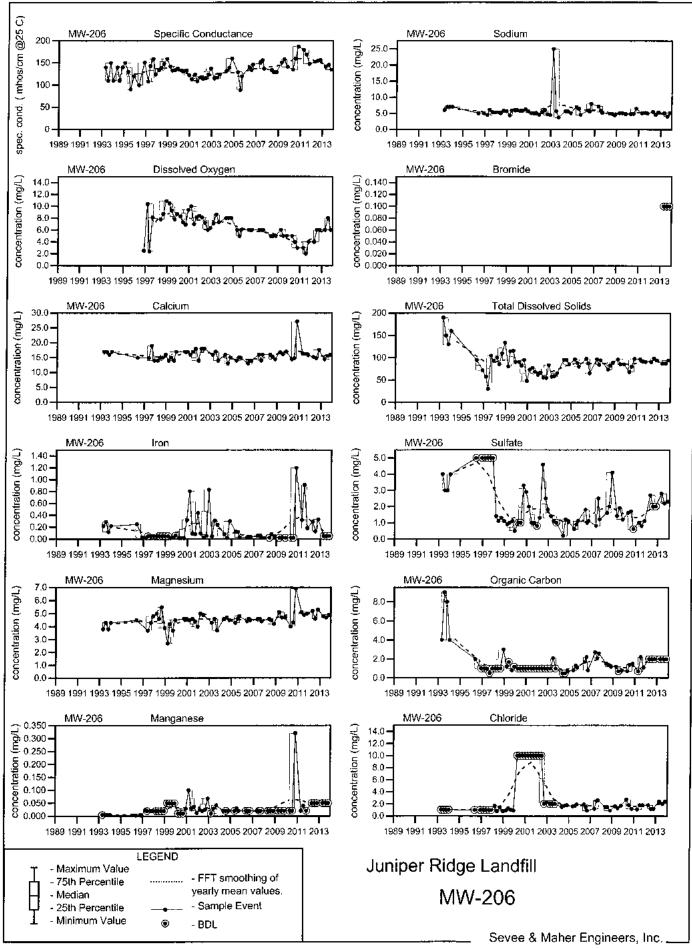
Q2= APRIL Q3= JULY Q4= OCTOBER

location could not be accessed != the sampling location was damaged or destroyed.

Data Group: 199

Printed:





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

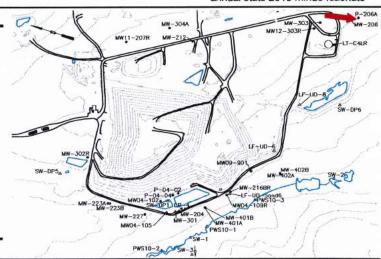
iviateriai Screeneu

Good

Well Condition: Sampling Method:

Grab

Chemical Summary



| | | 2 | 2013 | | Historical | | | | | | |
|---------------------------------------|----|----|--------|----------|---------------------------|----------------------|--------------|------|--|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean | SE | n | | | |
| Water Level Elevation (Feet) | | | 182.81 | 181.61 | No historical data | for Water Level E | levation. | | | | |
| Dissolved Oxygen (mg/L) | | | 4 | 3 | No historical dat | a for Dissolved C | xygen. | | | | |
| Bromide (mg/L) | | | 1 | | No historic | al data for Bromic | le. | | | | |
| Specific Conductance (µmhos/cm @25°C) | | | 120 | 126 | No historical data | for Specific Cond | luctance. | | | | |
| pH (Standard Units) | | | 7.6 | 7.3 | No histo | rical data for pH. | | | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | | 50 | 50 | No historical data for | r Alkalinity (CaCo | 03) (field). | | | | |
| Arsenic (mg/L) | | | 1 | 0.01 | No historic | al data for Arseni | c. | | | | |
| Cadmium (mg/L) | | | 1 | 0.0006 U | No historica | l data for Cadmiu | ım. | | | | |
| Calcium (mg/L) | | | Ĭ | 11.1 | No historic | al data for Calciur | m. | | | | |
| Iron (mg/L) | | | i | 4.26 | No histor | rical data for Iron. | | | | | |
| Magnesium (mg/L) | | | 1 | 3.5 | No historical | data for Magnesi | um. | | | | |
| Manganese (mg/L) | | | 1 | 0.2 | No historical | data for Mangane | ese. | | | | |
| Nickel (mg/L) | | | 1 | 0.005 U | No historic | cal data for Nicke | l. | | | | |
| Potassium (mg/L) | | | 1 | 1.3 | No historical | data for Potassiu | ım. | | | | |
| Sodium (mg/L) | | | 1 | 8.4 | No historic | al data for Sodiur | n. | | | | |
| Total Kjeldahl Nitrogen (mg/L) | | | 1 | | No historical data f | or Total Kjeldahl I | Nitrogen. | | | | |
| Nitrate (N) (mg/L) | | | 1 | 0.3 U | No historica | data for Nitrate (| N). | | | | |
| Total Dissolved Solids (mg/L) | | | 1 | | No historical data | or Total Dissolve | d Solids. | | | | |
| Total Suspended Solids (mg/L) | | | 1 | | No historical data for | or Total Suspende | ed Solids. | | | | |
| Sulfate (mg/L) | | | 1 | 2 U | No historio | al data for Sulfate | €. | | | | |
| Bicarbonate (CaCO3) (mg/L) | | | I . | | No historical data | for Bicarbonate (0 | CaCO3). | | | | |
| Organic Carbon (mg/L) | | | 1 | | No historical da | ita for Organic Ca | arbon. | | | | |
| Chemical Oxygen Demand (mg/L) | | | 1 | | No historical data for | Chemical Oxyger | n Demand | | | | |
| Chloride (mg/L) | | | 1 | 4.3 | No historica | al data for Chlorid | e. | | | | |
| Turbidity (field) (NTU) | | | 8.1 | 9.3 | No historical d | ata for Turbidity (f | ield). | | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | | 1 | | No historical data for Ta | annin & Lignins (* | Tannic Aci | id). | | | |

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

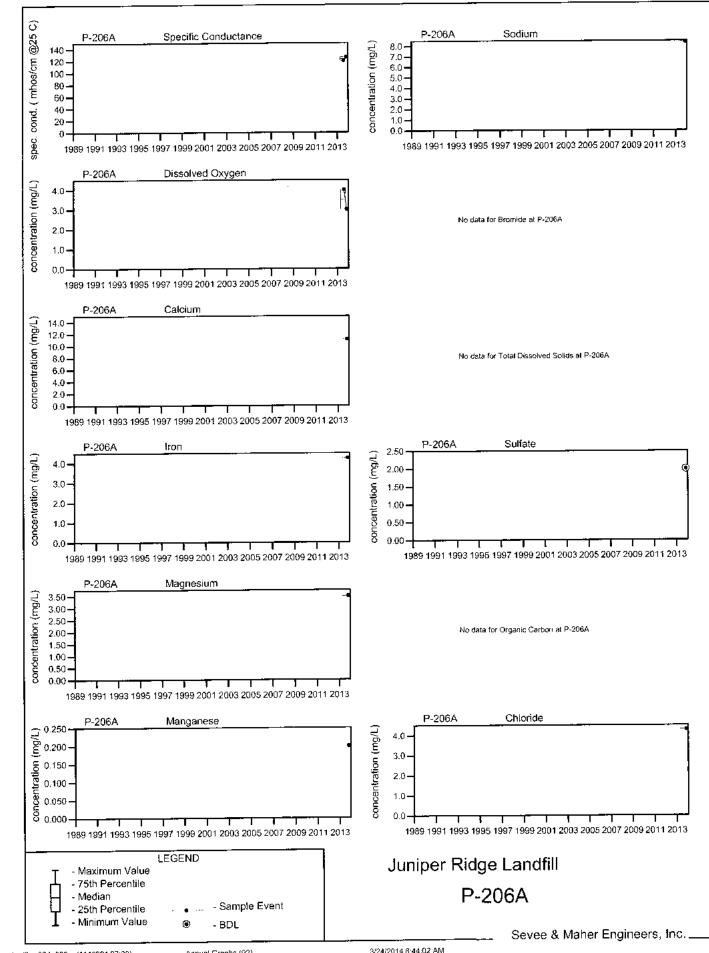
Comments

Q3= JULY Q4= OCTOBER

Data Group: 199

Printed: 3/20/2014 10:08





MW-212 monitors the overburden groundwater upgradient of the landfill.

Screen Interval:

12 ft. to 17 ft.

Sampled:

Removed from program during 2013.

Sampled Since:

11/13/90

Material Screened:

Overburden

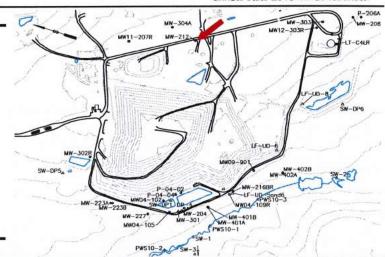
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 20 | 13 | | | Hist | orical | | |
|---------------------------------------|----|----|----|----|----------|-----------|--------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Dissolved Oxygen (mg/L) | | D | | | 3.9 | to 10.1 | 6.8 | ± 0.47 | 21 |
| Bromide (mg/L) | | D | | | 0.03 U | to 0.03 U | 0.03 | ± 0 | 1 |
| Specific Conductance (µmhos/cm @25°C) | | D | | | 20 | to 289 | 100 | ± 12 | 34 |
| pH (Standard Units) | | D | | | 5.4 | to 8.1 | 6.7 | ± 0.11 | 34 |
| Alkalinity (CaCO3) (field) (mg/L) | | D | | | 20 | to 65 | 36 | ± 4.3 | 11 |
| Arsenic (mg/L) | | D | | | 0.001 U | to 0.009 | 0.0035 | ± 0.000 | 11 |
| Cadmium (mg/L) | | D | | | 0.0002 U | to 0.006 | 0.0017 | ± 0.000 | 17 |
| Calcium (mg/L) | | D | | | 2.1 | to 23 | 7.9 | ± 1.1 | 27 |
| Iron (mg/L) | | D | | | 0.01 | to 1.77 | 0.15 | ± 0.06 | 29 |
| Magnesium (mg/L) | | D | | | 0 | to 4.6 | 1.7 | ± 0.19 | 27 |
| Manganese (mg/L) | | D | | | 0.003 | to 0.16 | 0.036 | ± 0.006 | 29 |
| Nickel (mg/L) | | D | | | 0.002 U | to 0.002 | 0.0021 | ± 9E-05 | 11 |
| Potassium (mg/L) | | D | | | 0.2 | to 1.4 | 0.72 | ± 0.1 | 11 |
| Sodium (mg/L) | | D | | | 2.6 | to 45 | 9.4 | ± 1.9 | 29 |
| Total Kjeldahl Nitrogen (mg/L) | | D | | | 0.15 U | to 3.1 | 0.8 | ± 0.22 | 15 |
| Nitrate (N) (mg/L) | | D | | | 0.06 | to 0.72 | 0.18 | ± 0.05 | 16 |
| Total Dissolved Solids (mg/L) | | D | | | 9 | to 160 | 72 | ± 7.1 | 28 |
| Total Suspended Solids (mg/L) | | D | | | 4 U | to 5 | 4.1 | ± 0.09 | 11 |
| Sulfate (mg/L) | | D | | | 1.9 | to 51 | 8.3 | ± 1.8 | 28 |
| Bicarbonate (CaCO3) (mg/L) | | D | | | 12.5 | to 53 | 28 | ± 4.2 | 11 |
| Organic Carbon (mg/L) | | D | | | 0.5 U | to 12 | 2.3 | ± 0.49 | 28 |
| Chemical Oxygen Demand (mg/L) | | D | | | 2 U | to 34 | 8.3 | ± 1.5 | 28 |
| Chloride (mg/L) | | D | | | 0.6 | to 47.2 | 6.8 | ± 2 | 28 |
| Turbidity (field) (NTU) | | D | | | 0 | to 7.1 | 1.6 | ± 0.45 | 21 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | D | | | 0.2 U | to 0.33 | 0.21 | ± 0.009 | 15 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

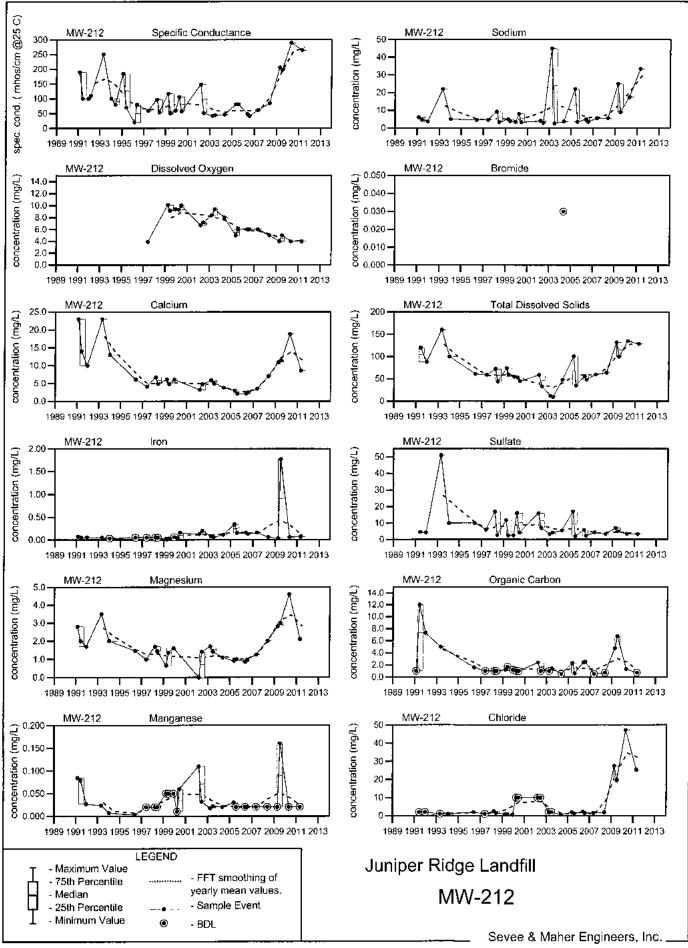
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





MW-216BR is located to the south of Cell #5 of the expansion landfill and near Manhole #5. This well monitors water quality within the overburden downgradient of the landfill.

Screen Interval:

14.6 ft. to 19.6 ft.

Sampled:

Removed from program during 2013.

Sampled Since:

12/08/2009

Material Screened:

Overburden

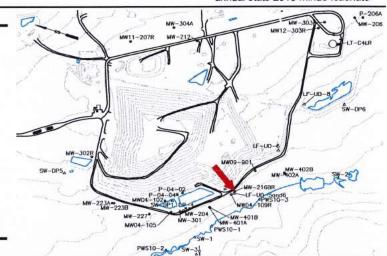
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|-------------|----------------------|----|------------|---------------|---------------------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean SE | n | | |
| Water Level Elevation (Feet) | | 153.9 | 153.61 | | 152.93 | to 154.4 | 150 ± 0.17 | 10 | | |
| Dissolved Oxygen (mg/L) | | 0.4 | 0.6 | | 0.3 | to 0.6 | 0.43 ± 0.03 | 10 | | |
| Bromide (mg/L) | | 0.18 | 0.2 | | | No historical | data for Bromide. | | | |
| Specific Conductance (µmhos/cm @25°C) | | 312 | 329 | | 278 | to 415 | 350 ± 16 | 10 | | |
| pH (Standard Units) | | 6.3 | 6.2 | | 5.9 | to 8 | 6.6 ± 0.18 | 10 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 135 | 145 | | 70 | to 200 | 120 ± 13 | 10 | | |
| Arsenic (mg/L) | | 0.019 | 0.015 | | 0.004 | to 0.021 | 0.012 ± 0.002 | 10 | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | | 0.0002 U | to 0.0008 | $0.00039 \pm 7E-05$ | 10 | | |
| Calcium (mg/L) | | 32 | 36.1 | | 24 | to 43.8 | 34 ± 2.3 | 10 | | |
| Iron (mg/L) | | ↓ 0.05 U | ↓ 0.08 | | 0.09 | to 0.25 | 0.18 ± 0.02 | 10 | | |
| Magnesium (mg/L) | | 13.1 | 13.7 | | 8.8 | to 18.2 | 13 ± 1.1 | 10 | | |
| Manganese (mg/L) | | 0.07 | 0.06 | | 0.06 | to 0.68 | 0.16 ± 0.06 | 10 | | |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | | 0.002 U | to 0.002 | 0.0029 ± 0.000 | 10 | | |
| Potassium (mg/L) | | 1.8 | 1.5 | | 1.5 | to 2.4 | 1.9 ± 0.09 | 10 | | |
| Sodium (mg/L) | | ↓ 9.2 | ↓ 8.1 | | 10.6 | to 18.8 | 14 ± 0.78 | 10 | | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | ↑ 0.5 6 5 | | 0.3 U | to 0.43 | 0.32 ± 0.01 | 10 | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | | 0.1 U | to 0.3 U | 0.16 ± 0.03 | 10 | | |
| Total Dissolved Solids (mg/L) | | 209 | 206 | | 174 | to 245 | 210 ± 8.5 | 10 | | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | | 4 U | to 4 U | 4 ± 0 | 10 | | |
| Sulfate (mg/L) | | ↑9.1 | ↑ 8.7 | | 2 U | to 8 | 5 ± 0.57 | 10 | | |
| Bicarbonate (CaCO3) (mg/L) | | 145 | 147 | | 117 | to 190 | 150 ± 9.2 | 10 | | |
| Organic Carbon (mg/L) | | 2 U | 2 U | | 0.7 U | to 2.5 | 1.6 ± 0.2 | 10 | | |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | ↑ 10 U | | 3 U | to 7 | 5.8 ± 1 | 10 | | |
| Chloride (mg/L) | | 7.3 | 9.1 | | 5.5 | to 15.3 | 9.3 ± 0.8 | 10 | | |
| Turbidity (field) (NTU) | | 0.3 | 0.1 | | 0 | to 2.6 | 0.67 ± 0.26 | 10 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | | 0.2 U | to 0.2 U | 0.2 ± 2E-09 | 10 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

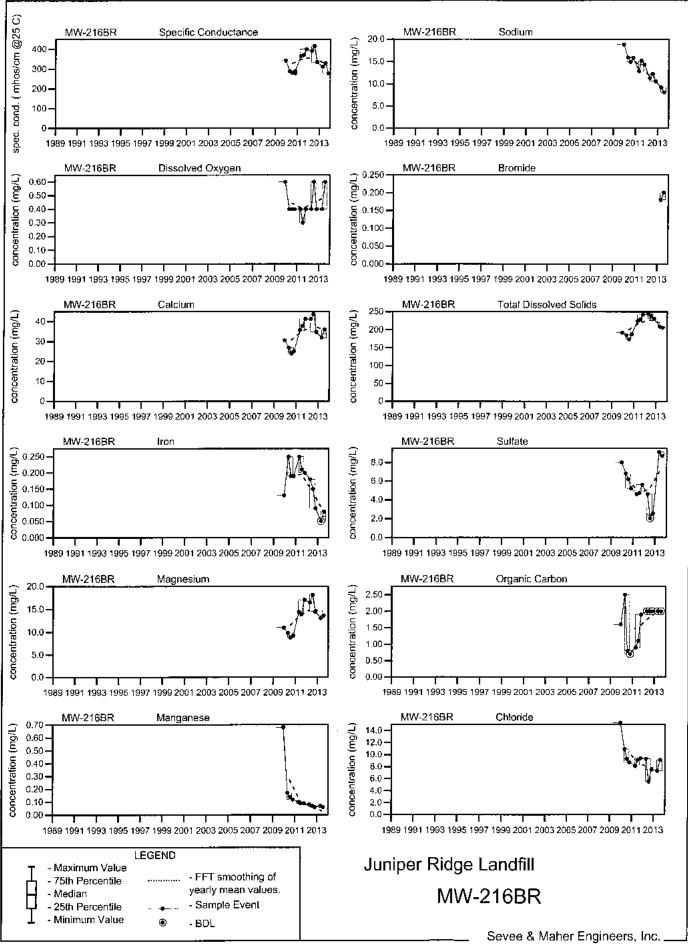
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed: 3/20/2014 10:08





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

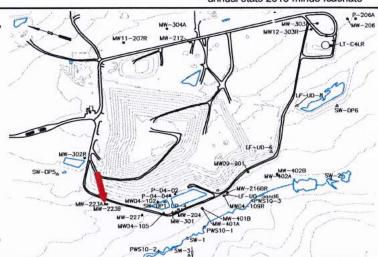
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 2 | 013 | | | Hist | orical | | |
|---------------------------------------|----|----------------|---------------|----------------|----------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 176.23 | 175.45 | 174.59 | 169.83 | to 176.31 | 170 | ± 0.14 | 66 |
| Dissolved Oxygen (mg/L) | | 1 | 1 | ↓ 0.8 | 1 | to 9.4 | 3.9 | ± 0.32 | 52 |
| Bromide (mg/L) | | 0.2 | 0.15 | 0.22 | | No historical | data for Brom | nide. | |
| Specific Conductance (µmhos/cm @25°C) | | 1 439 | 1 454 | 1 420 | 79 | to 400 | 200 | ± 9 | 69 |
| pH (Standard Units) | | 7.6 | 7.6 | 7.6 | 6.1 | to 8.4 | 7.4 | ± 0.04 | 69 |
| Alkalinity (CaCO3) (field) (mg/L) | | 180 | 180 | 180 | 65 | to 200 | 110 | ± 6.2 | 28 |
| Arsenic (mg/L) | | ↑ <u>0.012</u> | 0.01 | ↑ <u>0.013</u> | 0.001 U | to 0.011 | 0.0035 | ± 0.000 | 27 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0006 | 0.0015 | ± 0.000 | 33 |
| Calcium (mg/L) | | ↑ 68.1 | ↑ 73.8 | ↑ 74.1 | 23 | to 61.5 | 33 | ± 1.5 | 57 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.005 | to 120 | 2 | ± 2 | 61 |
| Magnesium (mg/L) | | 8 | 7.7 | ↑ 9.1 | 2.3 | to 8.2 | 3.8 | ± 0.18 | 57 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.001 | to 4 | 0.085 | ± 0.07 | 61 |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.008 | 0.0028 | ± 0.000 | 24 |
| Potassium (mg/L) | | 0.9 | 0.7 | 0.8 | 0.4 | to 1.3 | 0.68 | ± 0.04 | 27 |
| Sodium (mg/L) | | 4.7 | 4 | 4.7 | 1.8 | to 9.8 | 3.4 | ± 0.12 | 61 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.323 | 0.556 | 0.5 U | 0.15 U | to 0.8 | 0.34 | ± 0.02 | 36 |
| Nitrate (N) (mg/L) | | 0.3 U | ↑ 0.5 | 0.4 | 0.05 U | to 0.4 | 0.15 | ± 0.02 | 36 |
| Total Dissolved Solids (mg/L) | | 1 275 | 1 266 | 1 278 | 36 | to 262 | 130 | ± 6.3 | 61 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 4 U | 4 | ± 0 | 27 |
| Sulfate (mg/L) | | 19 | 1 9.3 | ↑ 8.6 | 2.9 | to 7.8 | 5 | ± 0.14 | 61 |
| Bicarbonate (CaCO3) (mg/L) | | 168 | 168 | ↑ 176 | 86 | to 155 | 110 | ± 4.7 | 27 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | to 3.4 | 1.2 | ± 0.08 | 61 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 2 U | to 18 | 6.2 | ± 0.55 | 61 |
| Chloride (mg/L) | | ↑34.9 | 1 45.2 | ↑ 36.8 | 1 U | to 25.4 | 6.5 | ± 0.93 | 61 |
| Turbidity (field) (NTU) | | 0.5 | 0.1 | 0.3 | 0 | to 999 | 25 | ± 20 | 50 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.25 | | ± 0.001 | 36 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

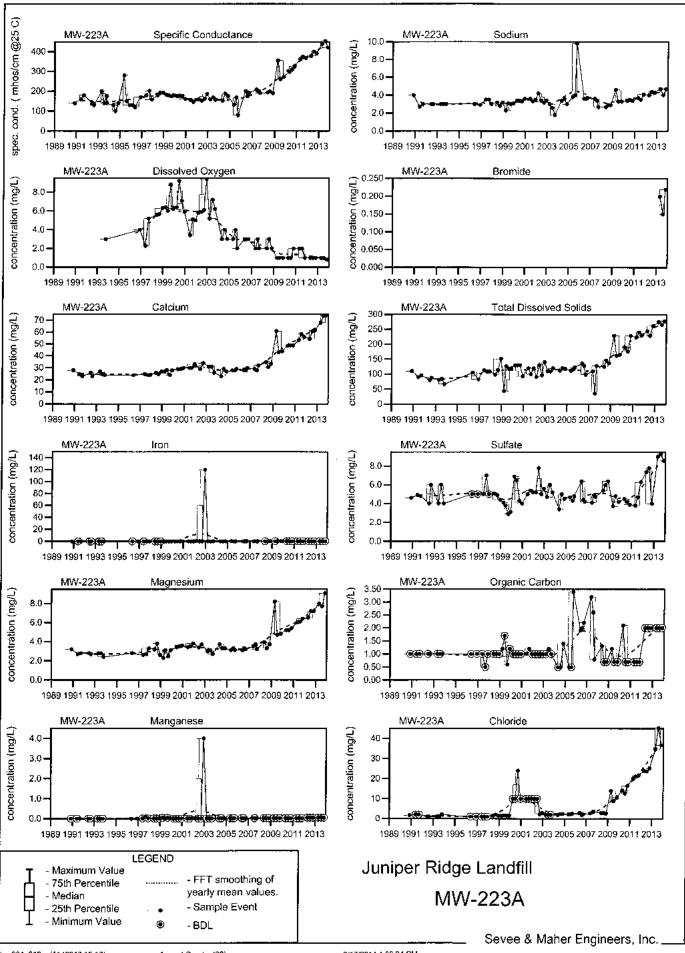
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Well Description

MW-223B monitors the overburden water quality downgradient of the landfill.

Screen Interval:

12.6 ft. to 17.6 ft.

Sampled:

3 Times Annually

Sampled Since:

11/12/90

Material Screened:

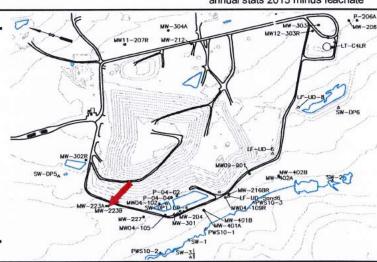
Overburden

Well Condition:

Good

Sampling Method:

Low Flow Chemical Summary



| | | 2 | 2013 | | Historical | | | | | |
|---------------------------------------|----|--------------|---------------|---------------|---------------|--------|--------|---------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Water Level Elevation (Feet) | | 173.75 | 173.16 | 172.63 | 169.03 to | 175.24 | 170 | ± 0.14 | 65 | |
| Dissolved Oxygen (mg/L) | | 1 | 2 | 0.8 | 0.4 to | 7.6 | 1.9 | ± 0.22 | 51 | |
| Bromide (mg/L) | | ↑ 0.16 | 1 0.16 | ↑ 0.2 | 0.03 to | 0.06 | 0.045 | ± 0.02 | 2 | |
| Specific Conductance (µmhos/cm @25°C) | | ↑ 344 | ↑ 363 | 336 | 100 to 3 | 343 | 200 | ± 8.3 | 68 | |
| pH (Standard Units) | | 7.3 | 7.8 | 7.5 | 6.3 to 8 | 8.2 | 7.2 | ± 0.04 | 68 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 95 | 125 | 140 | 60 to | 180 | 100 | ± 5.6 | 27 | |
| Arsenic (mg/L) | | 0.009 | 0.008 | 0.008 | 0.001 U to (| 0.013 | 0.004 | ± 0.000 | 27 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 L | 0.0006 U | 0.0002 U to (| 0.0025 | 0.0015 | ± 0.000 | 35 | |
| Calcium (mg/L) | | 41.3 | 1 46.2 | 1 44.3 | 16 to 4 | 41.9 | 27 | ± 1.1 | 57 | |
| Iron (mg/L) | | 0.06 | 0.12 | 0.09 | 0.009 to (| 0.58 | 0.12 | ± 0.02 | 61 | |
| Magnesium (mg/L) | | ↑11.1 | 11.3 | 11.5 | 3.7 to | 11 | 6.4 | ± 0.29 | 57 | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.001 U to (| 0.16 | 0.03 | ± 0.003 | 61 | |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U to (| 0.004 | 0.0025 | ± 0.000 | 26 | |
| Potassium (mg/L) | | 0.7 | 0.7 | 0.8 | 0.3 to 2 | 2 | 0.78 | ± 0.07 | 27 | |
| Sodium (mg/L) | | 4.7 | 4.3 | 4.9 | 2.1 to 5 | 5.2 | 3.9 | ± 0.08 | 61 | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.597 | 0.493 | 0.5 U | 0.15 U to | 1.5 | 0.48 | ± 0.07 | 36 | |
| Nitrate (N) (mg/L) | | 0.3 U | ↑ 0.5 | 0.4 | 0.05 U to (| 0.4 | 0.16 | ± 0.02 | 36 | |
| Total Dissolved Solids (mg/L) | | 201 | 185 | 202 | 67 to 3 | 330 | 130 | ± 6.3 | 61 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U to 4 | 4 | 4 | ± 0 | 27 | |
| Sulfate (mg/L) | | 5.6 | 5.7 | 5.5 | 2.2 to | 10 | 4.3 | ± 0.15 | 61 | |
| Bicarbonate (CaCO3) (mg/L) | | 124 | 119 | 125 | 92 to 1 | 140 | 110 | ± 2.8 | 27 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U to 8 | 8 | 1.6 | ± 0.16 | 61 | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 2 U to 3 | 30 | 6.7 | ± 0.69 | 61 | |
| Chloride (mg/L) | | 32.6 | 42.9 | 34.3 | 1 U to 5 | 50 | 6.8 | ± 1.1 | 61 | |
| Turbidity (field) (NTU) | | 0.2 | 0.4 | 0.1 | 0 to 8 | 83 | 2.7 | ± 1.7 | 49 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to (| 0.37 | 0.21 | ± 0.005 | 34 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

Comments

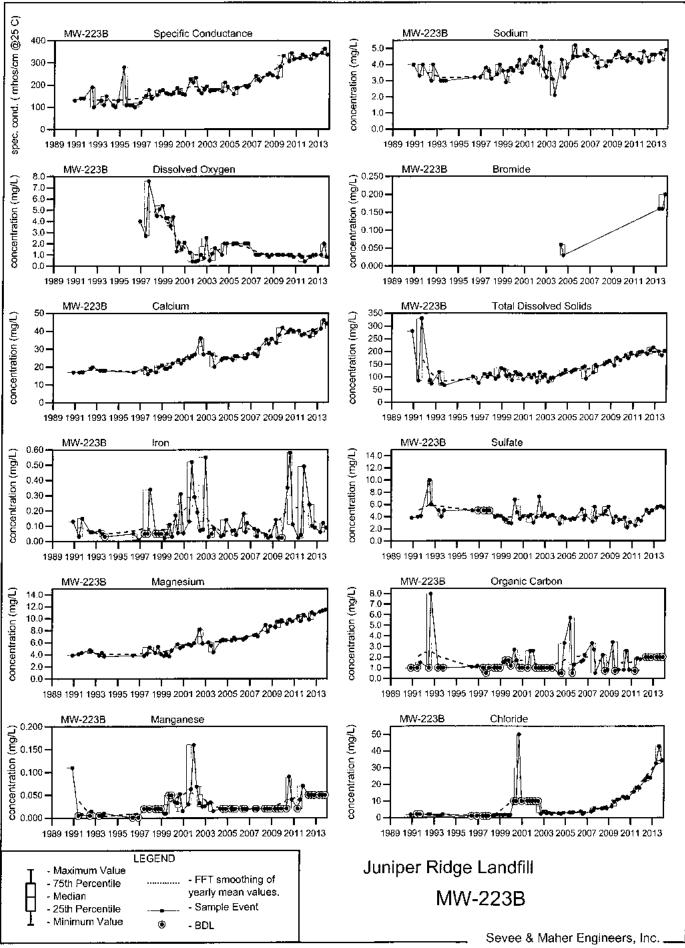
Q2= APRIL Q3= JULY Q4= OCTOBER

location could not be accessed != the sampling location was damaged or destroyed.

Data Group: 199

Printed:





Well Description

 $\ensuremath{\mathsf{MW-227}}$ 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

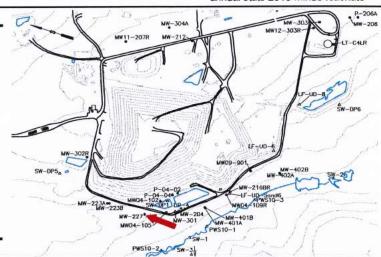
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| Indicator Parameters | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|-----------|-----------|-----------|--------------------|-----------------------|----|--|--|--|
| | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | | | |
| Water Level Elevation (Feet) | | 159.9 | 159.84 | 159.58 | 149.5 to 161.09 | 160 ± 0.28 | 67 | | | |
| Dissolved Oxygen (mg/L) | | 1 | 8.0 | 1 | 0.3 to 8.7 | 2.3 ± 0.24 | 53 | | | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | No historio | cal data for Bromide. | | | | |
| Specific Conductance (µmhos/cm @25°C) | | 189 | 192 | 177 | 90 to 310 | 180 ± 3.4 | 70 | | | |
| pH (Standard Units) | | 8.5 | ↑ 8.9 | 8.4 | 6.2 to 8.7 | 8 ± 0.06 | 70 | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 85 | 85 | 80 | 50 to 150 | 83 ± 4.9 | 27 | | | |
| Arsenic (mg/L) | | 0.018 | 0.017 | 0.017 | 0.007 to 0.019 | 0.012 ± 0.000 | 27 | | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U to 0.0026 | 0.0016 ± 0.000 | 34 | | | |
| Calcium (mg/L) | | 22.1 | 22.8 | 21 | 16 to 25 | 22 ± 0.23 | 58 | | | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.008 to 0.65 | 0.077 ± 0.01 | 64 | | | |
| Magnesium (mg/L) | | 5.5 | 5.5 | 5.5 | 3.6 to 5.9 | 5.2 ± 0.06 | 58 | | | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.004 to 0.17 | 0.026 ± 0.003 | 64 | | | |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U to 0.004 | 0.0025 ± 0.000 | 24 | | | |
| Potassium (mg/L) | | 1.1 | 0.8 | 1 | 0.6 to 1.6 | 1 ± 0.03 | 27 | | | |
| Sodium (mg/L) | | 5.4 | 4.7 | 5.5 | 3.1 to 11 | 6.7 ± 0.16 | 64 | | | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.635 | 0.5 U | 0.15 U to 1 | 0.35 ± 0.03 | 37 | | | |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.05 U to 0.2 | 0.11 ± 0.01 | 37 | | | |
| Total Dissolved Solids (mg/L) | | 118 | 103 | 114 | 59 to 222 | 110 ± 3.4 | 64 | | | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U to 4 | 4 ± 0 | 27 | | | |
| Sulfate (mg/L) | | 14.4 | 11.5 | 11 | 1.3 to 14.4 | 11 ± 0.33 | 64 | | | |
| Bicarbonate (CaCO3) (mg/L) | | 81 | 77 | 79 | 75 to 89 | 79 ± 0.59 | 27 | | | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U to 42 | 2.4 ± 0.68 | 64 | | | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 2 U to 430 | 16 ± 6.9 | 64 | | | |
| Chloride (mg/L) | | 2.4 | 2 | 2.5 | 1 U to 22.9 | 3.3 ± 0.5 | 64 | | | |
| Turbidity (field) (NTU) | | 0.2 | 0.3 | 0.7 | 0 to 962 | 20 ± 19 | 51 | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to 0.45 | 0.21 ± 0.008 | 37 | | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

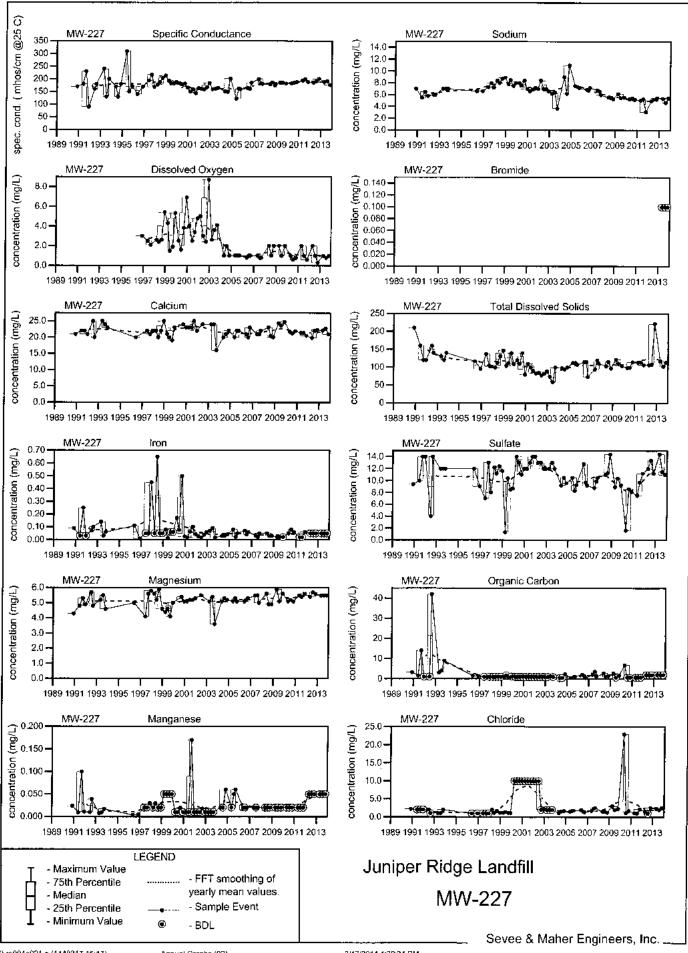
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





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

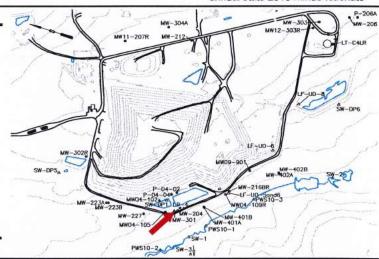
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | | 2013 | | Historical | | | | | | |
|---------------------------------------|----|----|-----------|-----------|---------------|--------------|----------------|---------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | | |
| Water Level Elevation (Feet) | | | 165.87 | 165.81 | 161.16 to | 166.36 | 160 : | ± 0.31 | 47 | | |
| Dissolved Oxygen (mg/L) | | ! | ↓ 0.4 | 0.6 | 0.6 to | 5.5 | 2.7 | ± 0.23 | 49 | | |
| Bromide (mg/L) | | ! | 0.1 U | 0.1 U | No | o historical | data for Bromi | de. | | | |
| Specific Conductance (µmhos/cm @25°C) | | ! | 209 | 198 | 82 to : | 340 | 170 | £ 5.4 | 51 | | |
| pH (Standard Units) | | 1 | ↓ 6.3 | 7 | 7 to 1 | 8.36 | 7.9 | £ 0.05 | 51 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | ! | 60 | 70 | 45 to | 120 | 79 ± | £ 4.1 | 27 | | |
| Arsenic (mg/L) | | ! | 0.01 | 0.006 | 0.001 to (| 0.012 | 0.0046 | 0.000 | 27 | | |
| Cadmium (mg/L) | | 1 | 0.0006 U | 0.0006 U | 0.0002 U to (| 0.0006 | 0.00032 ± | £ 4E-05 | 24 | | |
| Calcium (mg/L) | | ! | 19.2 | 19.3 | 14.9 to : | 31.4 | 18 ± | 0.38 | 47 | | |
| Iron (mg/L) | | ! | 0.54 | 0.13 | 0.011 to | 1.59 | 0.16 | 0.04 | 51 | | |
| Magnesium (mg/L) | | 1 | 4.8 | 4.7 | 2.5 to 5 | 5.7 | 4.3 ± | 0.07 | 47 | | |
| Manganese (mg/L) | | ! | 0.05 | 0.05 U | 0.001 to (| 0.05 | 0.024 ± | 0.002 | 51 | | |
| Nickel (mg/L) | | 1 | ↑ 0.005 U | ↑ 0.005 U | 0.002 U to (| 0.002 | 0.0024 ± | 0.000 | 24 | | |
| Potassium (mg/L) | | 1 | 0.7 | 0.6 | 0.5 to | 1.2 | 0.78 ± | 0.03 | 27 | | |
| Sodium (mg/L) | | ! | 10.4 | 10.1 | 6.8 to | 14.2 | 10 ± | 0.3 | 51 | | |
| Total Kjeldahl Nitrogen (mg/L) | | ! | 0.543 | 0.5 U | 0.15 U to (| 0.6 | 0.36 ± | 0.02 | 27 | | |
| Nitrate (N) (mg/L) | | ! | 0.3 U | 0.3 U | 0.1 U to (| 0.7 | 0.14 ± | 0.03 | 27 | | |
| Total Dissolved Solids (mg/L) | | ! | 136 | 130 | 66 to 1 | 160 | 110 ± | 2.6 | 51 | | |
| Total Suspended Solids (mg/L) | | ! | 11 | 4 | 4 U to 2 | 21 | 6.6 ± | 0.98 | 27 | | |
| Sulfate (mg/L) | | ! | 14.6 | 11.9 | 4.9 to 1 | 15.1 | 11 ± | 0.38 | 51 | | |
| Bicarbonate (CaCO3) (mg/L) | | ! | 76 | 76 | 72 to 9 | 91 | 76 ± | 0.82 | 27 | | |
| Organic Carbon (mg/L) | | ! | 2 U | 2 U | 0.5 U to 5 | 5.7 | 1.3 ± | 0.12 | 51 | | |
| Chemical Oxygen Demand (mg/L) | | ! | 10 U | 10 U | 2 U to 1 | 12 | 5.8 ± | 0.54 | 51 | | |
| Chloride (mg/L) | | ! | 2.3 | 3.1 | 1 U to 6 | 6 | 3.1 ± | 0.43 | 51 | | |
| Turbidity (field) (NTU) | | 1 | 6.2 | 3.2 | 0 to 1 | 18 | 2.1 ± | 0.56 | 48 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | ! | 11U | 0.2 U | 0.2 U to (| 0.21 | 0.2 ± | 0.000 | 27 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

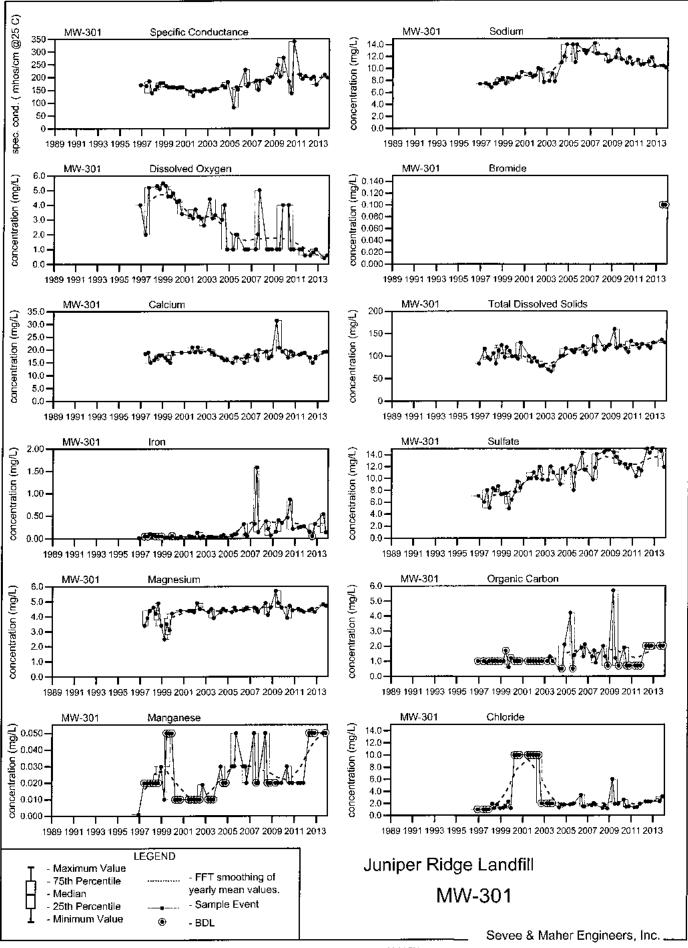
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





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

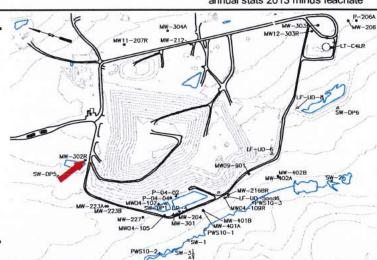
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| 16. | | 2 | 013 | | | Historical | | | | | |
|---------------------------------------|----|-----------|------------|-----------|----------|---------------|---------------|---------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | | |
| Water Level Elevation (Feet) | | 199.71 | 198.47 | 192.71 | 190.95 | to 202.74 | 200 | ± 0.77 | 15 | | |
| Dissolved Oxygen (mg/L) | | 4 | ↑ 5 | 2 | 1 | to 4 | 2.5 | ± 0.27 | 15 | | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | nide. | | | |
| Specific Conductance (µmhos/cm @25°C) | | 205 | 350 | 341 | 167 | to 502 | 330 | ± 30 | 15 | | |
| pH (Standard Units) | | 6.7 | 6.5 | 6.5 | 6 | to 6.9 | 6.5 | ± 0.08 | 15 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 180 | 80 | 180 | 60 | to 345 | 150 | ± 20 | 15 | | |
| Arsenic (mg/L) | | 0.005 | 0.005 U | 0.008 | 0.002 U | to 0.014 | 0.0057 | ± 0.000 | 15 | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0006 | 0.00036 | ± 7E-05 | 15 | | |
| Calcium (mg/L) | | 21.1 | 33 | 32.6 | 17.6 | to 66.2 | 39 | ± 3.8 | 15 | | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.19 | 0.046 | ± 0.01 | 15 | | |
| Magnesium (mg/L) | | 1.8 | 3 | 2.9 | 1.4 | to 5.3 | 3.1 | ± 0.31 | 15 | | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.06 | 0.029 | ± 0.004 | 15 | | |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U | to 0.002 | 0.0027 | ± 0.000 | 15 | | |
| Potassium (mg/L) | | 0.7 | 0.8 | 1.1 | 0.5 | to 2 | 1.1 | ± 0.1 | 15 | | |
| Sodium (mg/L) | | 11 | 17.8 | 20.3 | 6 | to 28.6 | 15 | ± 2 | 15 | | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 1 0.68 | 0.5 U | 0.3 U | to 0.64 | 0.38 | ± 0.03 | 15 | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.6 | 0.6 | 0.1 U | to 1.6 | 0.47 | ± 0.12 | 15 | | |
| Total Dissolved Solids (mg/L) | | 120 | 234 | 199 | 78 | to 327 | 210 | ± 19 | 15 | | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 4 | 4 | ± 0 | 15 | | |
| Sulfate (mg/L) | | 11.7 | 17.9 | 16 | 5.6 | to 28.8 | 14 | ± 1.8 | 15 | | |
| Bicarbonate (CaCO3) (mg/L) | | 46 | 53 | 57 | 44 | to 116 | 70 | ± 6.1 | 15 | | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.7 U | to 3.1 | 1.4 | ± 0.18 | 15 | | |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | 10 U | ↑ 10 U | 3 U | to 5 | 4.5 | ± 0.74 | 15 | | |
| Chloride (mg/L) | | 24.5 | ↑ 77.1 | 55.8 | 12.8 | to 66.1 | 41 | ± 4.7 | 15 | | |
| Turbidity (field) (NTU) | | 2.5 | 0.4 | 1.3 | 0 | to 3.1 | 1.1 | ± 0.24 | 15 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.2 U | 0.2 | ± 8E-10 | 15 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

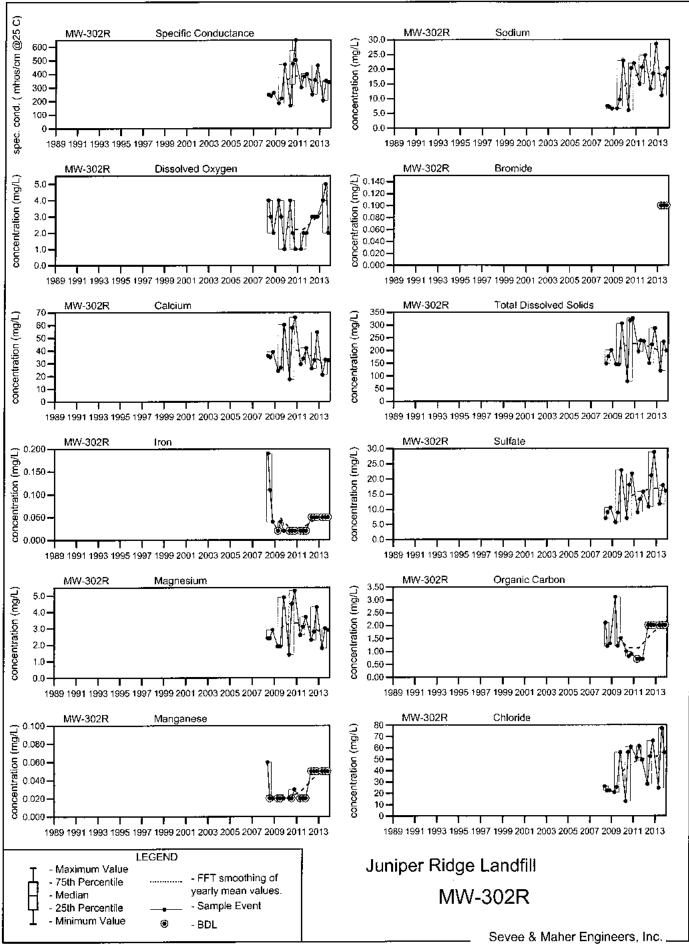
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





MW-304A monitors the water quality in the upper portion of the bedrock upgradient of the landfill.

Screen Interval:

29.5 ft. to 39.5 ft.

Sampled:

3 Times Annually

Sampled Since:

07/29/04

Material Screened:

Bedrock

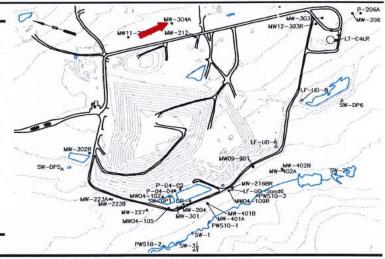
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| Indicator Parameters | | 2 | 013 | | Historical | | | | |
|---------------------------------------|----|----------|----------|----------|------------|---------------|----------------|-------|----|
| | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 187.66 | 187.85 | 187.16 | 184.5 | to 194.32 | 190 ± | 0.43 | 26 |
| Dissolved Oxygen (mg/L) | | 4 | 5 | 4 | 2 | to 6 | 4.2 ± | 0.18 | 26 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bromi | de. | |
| Specific Conductance (µmhos/cm @25°C) | | 131 | 138 | 123 | 58 | to 207 | 120 ± | 6.1 | 26 |
| pH (Standard Units) | | 7 | 6.9 | 7 | 6.3 | to 7.8 | 7 ± | 0.07 | 26 |
| Alkalinity (CaCO3) (field) (mg/L) | | 50 | 55 | 50 | 20 | to 100 | 56 ± | 3.7 | 26 |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | ↑ 0.007 | 0.001 U | to 0.006 | 0.0026 ± | 0.000 | 26 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.007 | 0.00063 ± | 0.000 | 26 |
| Calcium (mg/L) | | 13.8 | 14.3 | 13.9 | 6.2 | to 19 | 12 ± | 0.53 | 26 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.26 | 0.049 ± | 0.01 | 26 |
| Magnesium (mg/L) | | 3.7 | 3.8 | 3.8 | 2.3 | to 5.1 | 3.5 ± | 0.15 | 26 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.2 | 0.039 ± | 800.0 | 26 |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.006 | 0.0027 ± | 0.000 | 26 |
| Potassium (mg/L) | | 0.8 | 0.7 | 0.8 | 0.3 | to 3.2 | 0.93 ± | 0.11 | 26 |
| Sodium (mg/L) | | 5 | 3.7 | 4.3 | 2.9 | to 23 | 5.6 ± | 0.87 | 26 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.685 | 0.5 U | 0.15 U | to 1.2 | 0.49 ± | 80.0 | 26 |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U | to 0.2 | 0.14 ± | 0.01 | 26 |
| Total Dissolved Solids (mg/L) | | 82 | 87 | 85 | 54 | to 130 | 78 ± | 3.3 | 26 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 5 | 4 U | to 259 | 15 ± | 9.8 | 26 |
| Sulfate (mg/L) | | 6.7 | 6.3 | 5.4 | 1.5 | to 8.8 | 3.4 ± | 0.3 | 26 |
| Bicarbonate (CaCO3) (mg/L) | | 52 | 57 | 52 | 37 | to 92 | 51 ± | 2.3 | 26 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | to 4 | 1.3 ± | 0.17 | 26 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U | to 10 | 4.6 ± | 0.52 | 26 |
| Chloride (mg/L) | | 3.1 | 2.9 | 3.2 | 1 | to 3.5 | 2.2 ± | 0.13 | 26 |
| Turbidity (field) (NTU) | | 0.2 | 0.3 | 1.9 | 0 | to 9.2 | 1.2 ± | 0.39 | 26 |
| Fannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2·U | 0.2 U | to 0.45 | 0.21 ± | 0.01 | 24 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

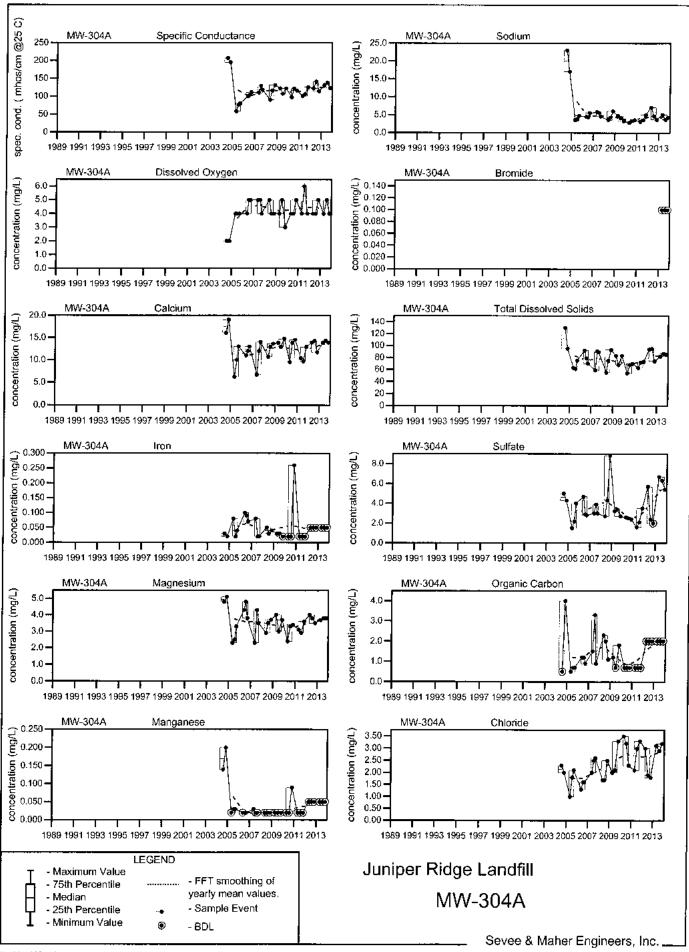
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Well Description

MW-401A monitors bedrock water quality downgradient of the landfill and leachate pond.

Screen Interval:

98.8 ft. to 108.8 ft.

Sampled:

3 Times Annually

Sampled Since:

07/29/04

Material Screened:

Bedrock

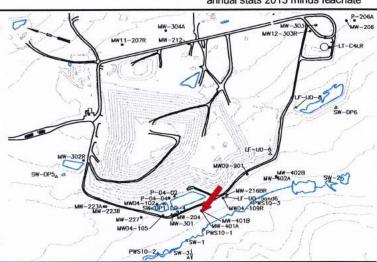
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| Indicator Parameters | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|-----------|-----------|-----------|------------|---------------|---------------|---------|----|--|
| | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Water Level Elevation (Feet) | | 153.93 | 151.23 | 150.73 | 148.6 | to 155.96 | 150 | ± 0.41 | 26 | |
| Dissolved Oxygen (mg/L) | | 5 | 6 | 5 | 3 | to 6 | 5 | ± 0.2 | 26 | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | ide. | | |
| Specific Conductance (µmhos/cm @25°C) | | 123 | 124 | 140 | 73 | to 191 | 120 | ± 4.3 | 26 | |
| pH (Standard Units) | | 7.9 | 7.2 | ↓ 6.8 | 7.1 | to 8.5 | 8 | ± 0.07 | 26 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 45 | 45 | 45 | 45 | to 140 | 75 | ± 4.3 | 26 | |
| Arsenic (mg/L) | | 0.005 | 0.005 U | 0.009 | 0.001 U | to 0.009 | 0.0042 | ± 0.000 | 26 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0023 | 0.00045 | ± 1E-04 | 26 | |
| Calcium (mg/L) | | 13.7 | 14.7 | 14 | 11 | to 15.9 | 14 | ± 0.25 | 26 | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.07 | 0.032 | ± 0.003 | 26 | |
| Magnesium (mg/L) | | 3.9 | 4.1 | 4 | 3.7 | to 4.8 | 4.1 | ± 0.06 | 26 | |
| Manganese (mg/L) | | ↑ 0.05 U | 1 0.05 U | ↑ 0.05 U | 0.02 U | to 0.03 | 0.025 | ± 0.002 | 26 | |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U | to 0.004 | 0.0025 | ± 0.000 | 26 | |
| Potassium (mg/L) | | 0.7 | 0.6 | 0.7 | 0.3 | to 1.4 | 0.75 | ± 0.05 | 26 | |
| Sodium (mg/L) | | 4 | 3.3 | 3.7 | 3.2 | to 5.2 | 4.1 | ± 0.11 | 26 | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.572 | 0.5 U | 0.3 U | to 1.1 | 0.43 | ± 0.04 | 26 | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U | to 0.3 | 0.13 | ± 0.01 | 26 | |
| Total Dissolved Solids (mg/L) | | 85 | 86 | 87 | 68 | to 116 | 88 | ± 2 | 26 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 4 U | 4 | ± 0 | 26 | |
| Sulfate (mg/L) | | 14.9 | 4.3 | 4.3 | 2 U | to 4.7 | 3 | ± 0.14 | 26 | |
| Bicarbonate (CaCO3) (mg/L) | | 58 | 57 | 57 | 51 | to 64 | 57 | ± 0.57 | 26 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | to 6.3 | 1.8 | ± 0.3 | 26 | |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | 10 U | ↑ 10 U | 3 U | to 9 | 4.3 | ± 0.49 | 26 | |
| Chloride (mg/L) | | 2.4 | 2.2 | 2.8 | 1 | to 3.2 | 1.7 | ± 0.1 | 26 | |
| Turbidity (field) (NTU) | | 1.4 | 1.6 | 0.2 | 0 | to 4.9 | 0.55 | ± 0.22 | 26 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.41 | 0.21 | ± 0.009 | 24 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

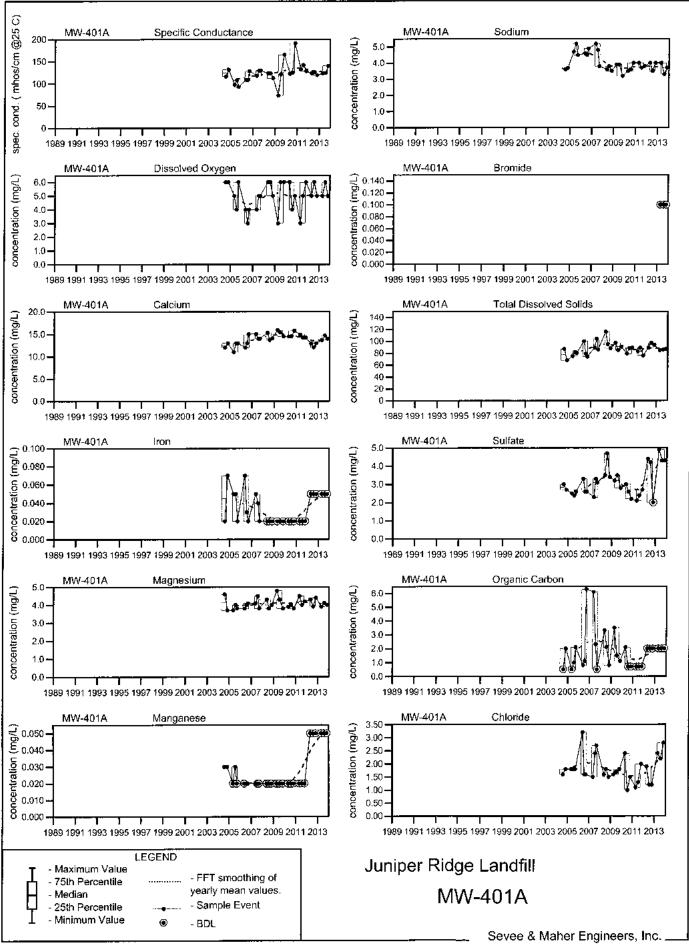
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





MW-401B is located downgradient of the landfill and 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

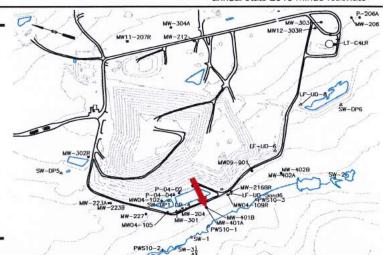
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 20 | 013 | | Historical | | | | |
|---------------------------------------|----|----------|----------|----------------|------------|---------------|----------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 150.62 | 150.38 | 150.12 | 148.47 | to 150.97 | 150 ± | 0.12 | 26 |
| Dissolved Oxygen (mg/L) | | 8.0 | 0.4 | 0.6 | 0.3 | to 5 | 1 ± | 0.18 | 26 |
| Bromide (mg/L) | | 0.1 | 0.1 U | 0.22 | | No historical | data for Bromi | de. | |
| Specific Conductance (µmhos/cm @25°C) | | 262 | 238 | 376 | 180 | to 699 | 400 ± | 26 | 26 |
| pH (Standard Units) | | 6.8 | 7.1 | 6.5 | 5.9 | to 7.5 | 6.7 | 0.07 | 26 |
| Alkalinity (CaCO3) (field) (mg/L) | | 90 | 95 | 100 | 60 | to 335 | 170 ± | : 15 | 26 |
| Arsenic (mg/L) | | 0.013 | 0.022 | 1 <u>0.027</u> | 0.002 | to 0.023 | 0.0096 ± | 0.001 | 26 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0019 | 0.00037 ± | : 7E-05 | 26 |
| Calcium (mg/L) | | 28.9 | 28.8 | 35.1 | 25.3 | to 100 | 45 ± | 3.7 | 26 |
| Iron (mg/L) | | 0.39 | 0.51 | 1.72 | 0.19 | to 19 | 3.7 ± | 0.83 | 26 |
| Magnesium (mg/L) | | 8.7 | 8.4 | 10.8 | 8 | to 36 | 14 ± | : 1.2 | 26 |
| Manganese (mg/L) | | 0.18 | 0.22 | 0.28 | 0.05 | to 2.9 | 0.48 ± | 0.15 | 26 |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.005 | 0.0027 ± | 0.000 | 26 |
| Potassium (mg/L) | | 1.1 | 0.9 | 1.5 | 0.9 | to 3.2 | 1.6 ± | 0.12 | 26 |
| Sodium (mg/L) | | 12.9 | 10 | 14.9 | 9.8 | to 33 | 18 ± | : 1.3 | 26 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.528 | 0.5 U | 0.24 | to 3.2 | 0.52 ± | 0.11 | 26 |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U | to 0.2 | 0.13 ± | 0.01 | 26 |
| Total Dissolved Solids (mg/L) | | 172 | 156 | 212 | 142 | to 488 | 250 ± | : 17 | 26 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 36 | 6.3 ± | : 1.3 | 26 |
| Sulfate (mg/L) | | 13.2 | 11.4 | 13 | 8 | to 69.2 | 24 ± | : 3 | 26 |
| Bicarbonate (CaCO3) (mg/L) | | 122 | ↓ 108 | 139 | 116 | to 245 | 160 ± | 8 | 26 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.7 U | to 4.6 | 2.6 ± | 0.25 | 26 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U | to 17 | 5.8 ± | 0.69 | 26 |
| Chloride (mg/L) | | 12.5 | 13 | 16.3 | 7.1 | to 40.5 | 18 ± | 2 | 26 |
| Turbidity (field) (NTU) | | 1.1 | 1.4 | 0.3 | 0 | to 4.5 | 1.4 ± | 0.25 | 26 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 3.6 | 0.48 ± | 0.16 | 24 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

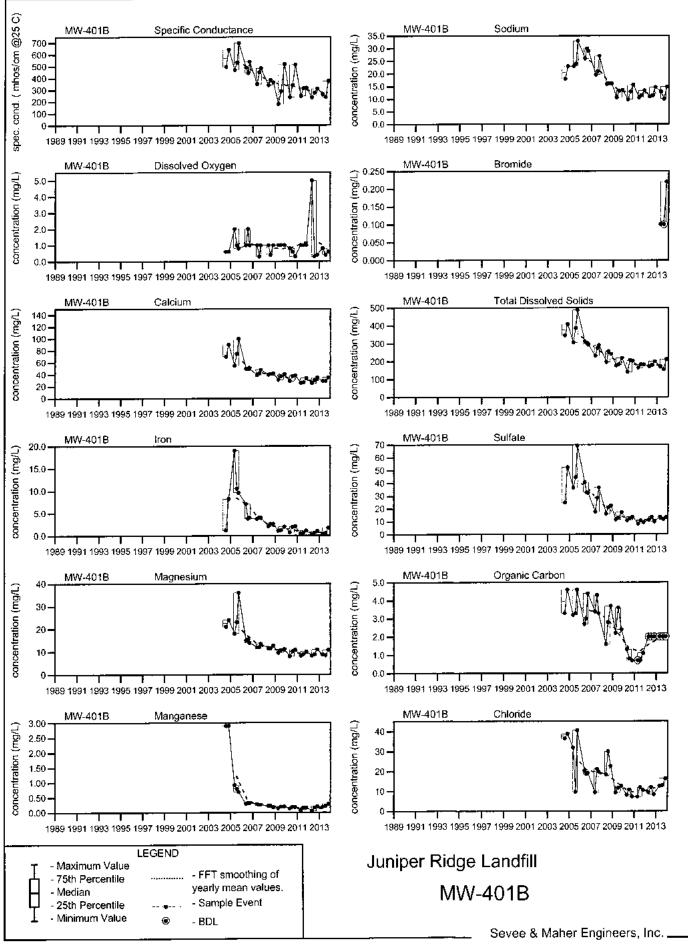
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





 $\ensuremath{\mathsf{MW}}\xspace\textsc{-402A}$ 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

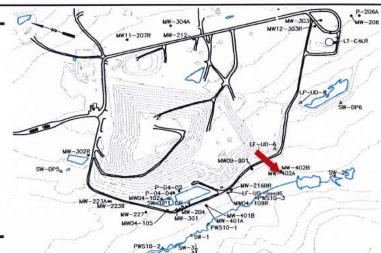
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|----------|----------|----------|------------|---------------|---------------|---------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Water Level Elevation (Feet) | | ↓ 152.07 | 152.15 | | 152.15 | 0 152.2 | 150 | ± 0.02 | 3 | |
| Dissolved Oxygen (mg/L) | | 3 | 5 | 5 | 3 t | o 6 | 4.5 | ± 0.19 | 26 | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | ide. | | |
| Specific Conductance (µmhos/cm @25°C) | | 138 | 125 | 141 | 104 | o 197 | 130 | ± 4.1 | 26 | |
| pH (Standard Units) | | 9.2 | 8.3 | 8.1 | 7.3 t | 0 9.5 | 8.1 | ± 0.11 | 26 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 50 | ↓ 25 | 30 | 30 t | o 135 | 57 | ± 4 | 26 | |
| Arsenic (mg/L) | | 0.021 | 0.024 | 0.02 | 0.012 t | 0.028 | 0.017 | ± 0.000 | 26 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U t | 0.0025 | 0.00046 | ± 0.000 | 26 | |
| Calcium (mg/L) | | 10.7 | 11.8 | 12.1 | 7.7 t | o 13.8 | 11 | ± 0.24 | 26 | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U t | 0.08 | 0.028 | ± 0.003 | 26 | |
| Magnesium (mg/L) | | 3 | 3.1 | 3 | 2.6 t | 0 3.2 | 2.9 | ± 0.03 | 26 | |
| Manganese (mg/L) | | ↑ 0.05 U | 1 0.05 U | ↑ 0.05 U | 0.02 U t | 0.03 | 0.024 | ± 0.002 | 26 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U t | 0.008 | 0.0027 | ± 0.000 | 26 | |
| Potassium (mg/L) | | 0.7 | 0.6 | 0.6 | 0.3 t | o 1.3 | 0.65 | ± 0.03 | 26 | |
| Sodium (mg/L) | | 9.1 | ↓ 7.7 | 8.2 | 7.8 t | o 11 | 8.9 | ± 0.18 | 26 | |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.3 U | 0.5 U | 0.15 U t | o 1 | 0.39 | ± 0.04 | 26 | |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U t | 0.1 | 0.12 | ± 0.01 | 26 | |
| Total Dissolved Solids (mg/L) | | ↑ 99 | 81 | 89 | 58 t | o 94 | 79 : | ± 1.6 | 26 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U t | o 4 U | 4 : | ± 0 | 26 | |
| Sulfate (mg/L) | | 1 9.3 | 7 | 7.2 | 3 t | 0 7.4 | 5.1 : | ± 0.24 | 26 | |
| Bicarbonate (CaCO3) (mg/L) | | 51 | 53 | 51 | 46 t | ∘ 56 | 52 : | ± 0.47 | 26 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U to | ∘ 8.1 | 1.7 : | ± 0.31 | 26 | |
| Chemical Oxygen Demand (mg/L) | | ↑10 U | 10 U | ↑ 10 U | 3 U t | 0 7 | 4.2 : | ± 0.46 | 26 | |
| Chloride (mg/L) | | 2.5 | 1.3 | 1.8 | 0.8 to | 0 3.1 | 1.8 : | ± 0.1 | 26 | |
| Turbidity (field) (NTU) | | 0.5 | 0.6 | 0.3 | 0 to | 0 3.7 | 0.46 : | ± 0.17 | 26 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to | 0.24 | 0.2 | ± 0.002 | 24 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

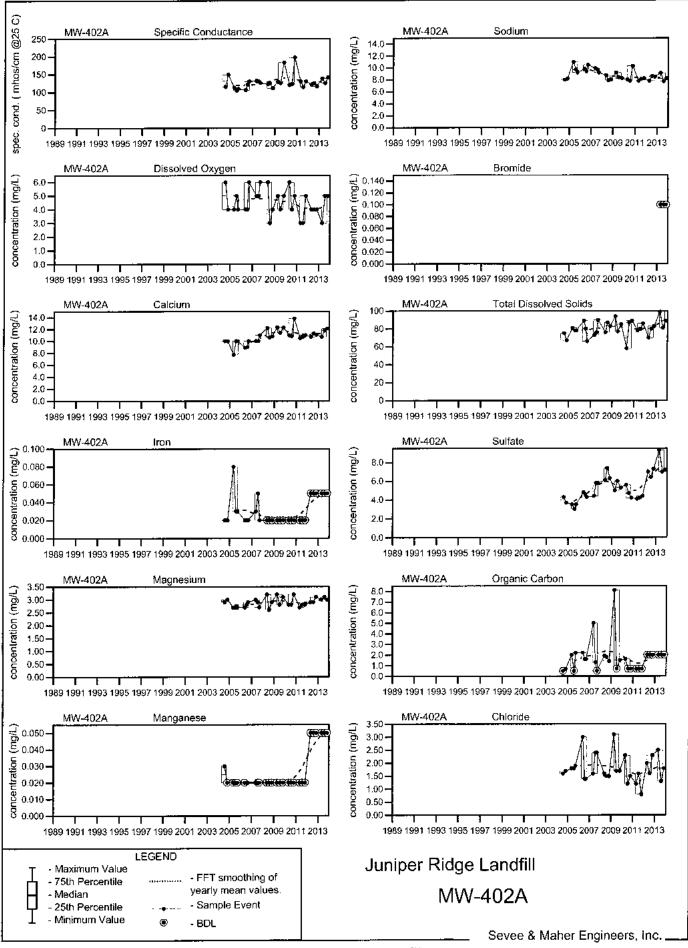
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Well Description

MW-402B monitors water quality within the overburden downgradient of the landfill.

Screen Interval:

12 ft. to 22 ft.

Sampled:

3 Times Annually

Sampled Since:

07/29/04

Material Screened:

Overburden

Low Flow

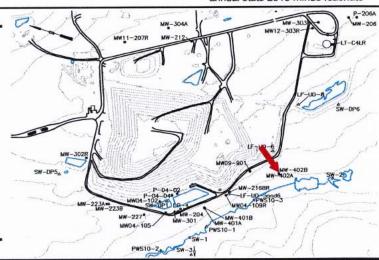
Well Condition:

Good

Sampling Method:

Ooou

Chemical Summary



| | | 20 | 013 | | | Hist | torical | | |
|---------------------------------------|----|-------------|-----------|-----------|----------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 149.74 | 148.82 | 148.94 | 147.44 | to 150.56 | 150 | ± 0.15 | 26 |
| Dissolved Oxygen (mg/L) | | 0.3 | 0.3 | 0.3 | 0.2 | to 2 | 0.85 | ± 0.09 | 26 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | ide. | |
| Specific Conductance (µmhos/cm @25°C) | | 152 | 147 | 174 | 96 | to 246 | 150 | ± 5.3 | 26 |
| pH (Standard Units) | | 19.2 | 8.2 | 8.7 | 7 | to 9.1 | 8.3 | ± 0.11 | 26 |
| Alkalinity (CaCO3) (field) (mg/L) | | 60 | 40 | 35 | 35 | to 135 | 72 : | ± 4.4 | 26 |
| Arsenic (mg/L) | | 0.019 | 1 0.024 | 0.019 | 0.01 | to 0.023 | 0.016 | ± 0.000 | 26 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.0012 | 0.00038 | ± 6E-05 | 26 |
| Calcium (mg/L) | | 13.2 | 14.9 | 15.5 | 13.2 | to 17.2 | 15 | ± 0.19 | 26 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.07 | 0.029 | ± 0.003 | 26 |
| Magnesium (mg/L) | | 4.7 | 5 | 4.9 | 4.7 | to 5.5 | 5 : | ± 0.05 | 26 |
| Manganese (mg/L) | | 1 0.05 U | 1 0.05 U | ↑ 0.05 U | 0.02 U | to 0.04 | 0.025 | ± 0.002 | 26 |
| Nickel (mg/L) | | 1 0.005 U | 1 0.005 U | ↑ 0.005 U | 0.002 U | to 0.002 | 0.0024 | ± 0.000 | 26 |
| Potassium (mg/L) | | 0.6 | 0.6 | 0.6 | 0.4 | to 2.2 | 0.77 | ± 0.07 | 26 |
| Sodium (mg/L) | | 8.4 | 7.6 | 8.1 | 7.6 | to 12 | 8.8 | ± 0.21 | 26 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.3 U | 0.3 U | 0.5 U | 0.21 | to 0.61 | 0.36 | ± 0.02 | 26 |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U | to 0.1 | 0.12 | ± 0.01 | 26 |
| Total Dissolved Solids (mg/L) | | 100 | 92 | 102 | 64 | to 124 | 94 : | ± 2.2 | 26 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U | to 5 | 4 : | ± 0.04 | 26 |
| Sulfate (mg/L) | | 9 | 8.6 | 8.4 | 2.3 | to 44.9 | 9.1 : | ± 1.5 | 26 |
| Bicarbonate (CaCO3) (mg/L) | | 60 | 68 | 67 | 34 | to 79 | 66 : | ± 1.5 | 26 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | to 5.2 | 1.6 : | ± 0.24 | 26 |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | ↑ 10 U | ↑ 10 U | 3 U | to 6 | 4.1 : | ± 0.46 | 26 |
| Chloride (mg/L) | | 2.5 | 1.4 | 1.9 | 1 | to 26.5 | 2.8 : | ± 0.95 | 26 |
| Turbidity (field) (NTU) | | 0.9 | 0.4 | 0.3 | 0 | to 3.5 | 0.66 | ± 0.22 | 26 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.26 | 0.2 | ± 0.003 | 24 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

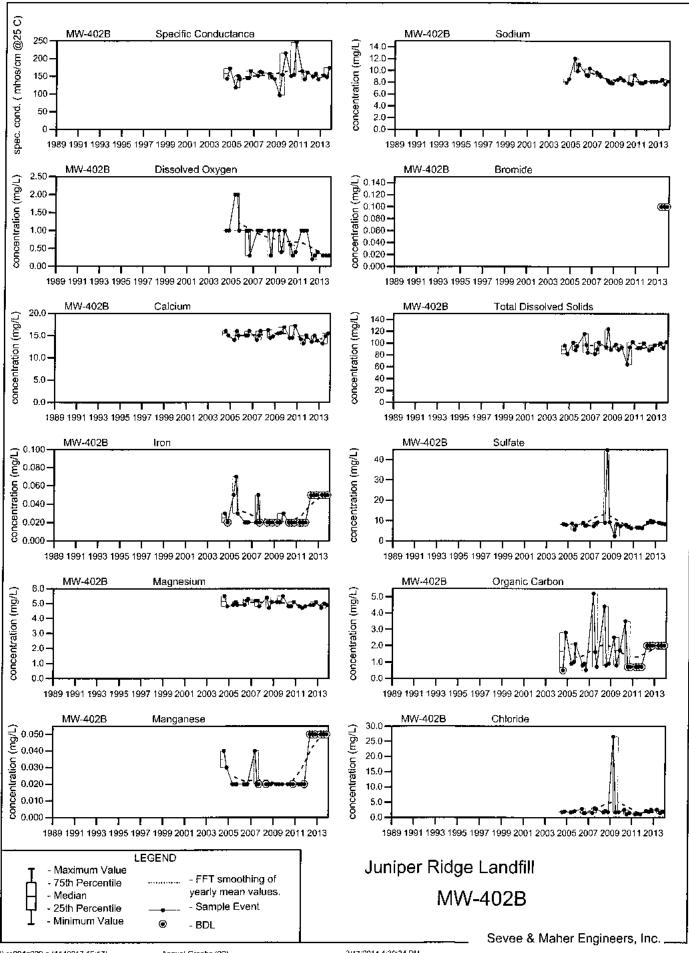
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





P-04-02 monitors the water quality in the overburden downgradient of the landfill, between the leachate pond and landfill toe.

Screen Interval:

32.11 ft. to 37.11 ft.

Sampled:

Removed from program during 2013.

Sampled Since:

02/05/04

Material Screened:

Overburden

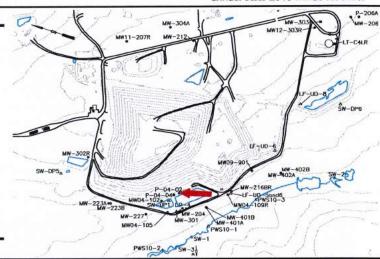
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 20 | 113 | uness of the second | 21 100 | His | torical | | |
|---------------------------------------|----|----|-----|---------------------|----------|---------------|-----------------|-------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Dissolved Oxygen (mg/L) | | ! | | | 1 1 | to 6 | 2.3 ± | 0.28 | 28 |
| Bromide (mg/L) | | 1 | | | | No historical | data for Bromid | e. | |
| Specific Conductance (µmhos/cm @25°C) | | 1 | | | 166 | to 414 | 230 ± | 9 | 28 |
| pH (Standard Units) | | ! | | | 6.2 | to 8.5 | 7.5 ± | 0.1 | 28 |
| Alkalinity (CaCO3) (field) (mg/L) | | 1 | | | 50 | to 175 | 99 ± | 5.7 | 26 |
| Arsenic (mg/L) | | 1 | | | 0.001 U | to 0.012 | 0.0056 ± | 0.000 | 29 |
| Cadmium (mg/L) | | 1 | | | 0.0002 U | 0.0006 | 0.00035 ± | 5E-05 | 24 |
| Calcium (mg/L) | | ! | | | 11 1 | o 28 | 23 ± | 0.77 | 29 |
| Iron (mg/L) | | 1 | | | 0.02 U | 1.43 | 0.19 ± | 0.07 | 29 |
| Magnesium (mg/L) | | 1 | | | 4.1 | 0 8.3 | 6.8 ± | 0.2 | 29 |
| Manganese (mg/L) | | 1 | | | 0.02 U | 0.16 | 0.048 ± | 0.008 | 29 |
| Nickel (mg/L) | | 1 | | | 0.002 U | 0.003 | $0.0026 \pm$ | 0.000 | 24 |
| Potassium (mg/L) | | 1 | | | 1.1 | 0 3.5 | 1.5 ± | 0.08 | 29 |
| Sodium (mg/L) | | ! | | | 6.5 | 0 73 | 14 ± | 2.7 | 29 |
| Total Kjeldahl Nitrogen (mg/L) | | ! | | | 0.22 | 0.73 | 0.45 ± | 0.04 | 26 |
| Nitrate (N) (mg/L) | | ! | | | 0.1 U t | 0.3 | 0.18 ± | 0.02 | 28 |
| Total Dissolved Solids (mg/L) | | ! | | | 113 1 | 0 275 | 150 ± | 6.8 | 28 |
| Total Suspended Solids (mg/L) | | ! | | | 4 U t | 0 21 | 5.5 ± | 0.72 | 28 |
| Sulfate (mg/L) | | ! | | | 8.9 t | 0 29 | 14 ± | 0.96 | 28 |
| Bicarbonate (CaCO3) (mg/L) | | ! | | | 63 t | 0 178 | 100 ± | 3.5 | 28 |
| Organic Carbon (mg/L) | | 1 | | | 0.5 U t | 0 11.9 | 2.6 ± | 0.54 | 28 |
| Chemical Oxygen Demand (mg/L) | | 1 | | | 3 U t | 0 30 | 6.4 ± | 1.4 | 28 |
| Chloride (mg/L) | | ! | | | 1 t | 0 8.8 | 2.6 ± | 0.38 | 28 |
| Turbidity (field) (NTU) | | 1 | | | 0 1 | 0.08 | 7.3 ± | 3.6 | 28 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | ! | | | 0.2 U t | 0 1.7 | 0.31 ± | 0.07 | 26 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

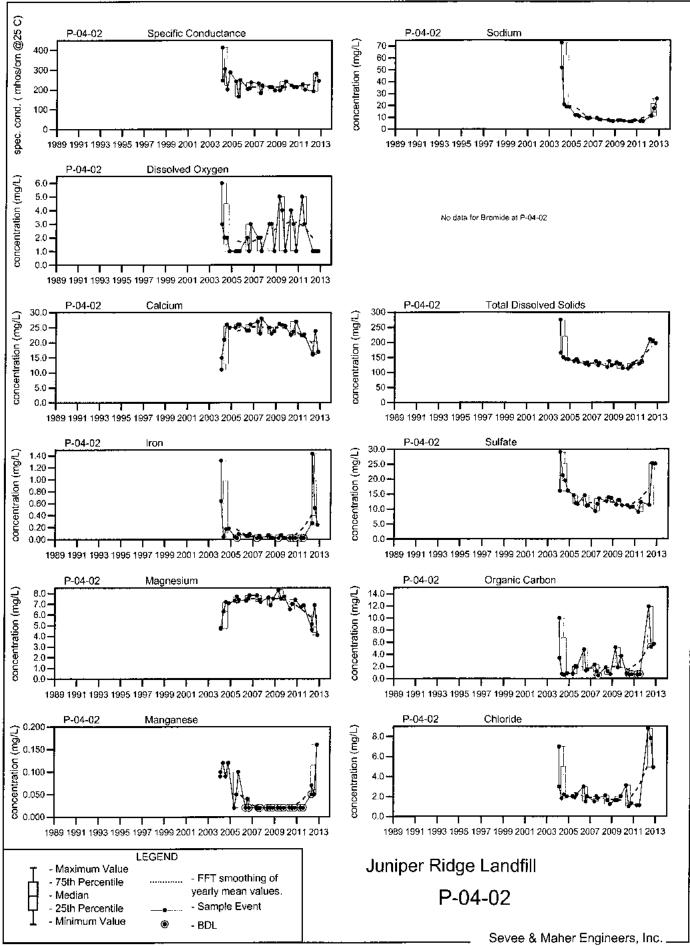
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





P-04-02 monitors the water quality in the overburden downgradient of the landfill, between the 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

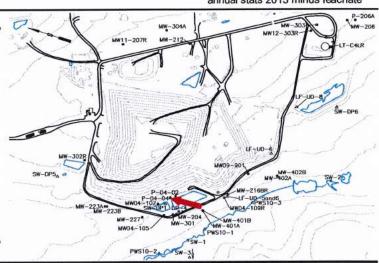
Well Condition:

Good

Sampling Method:

Low Flow

Chemical Summary



| | | 20 | 013 | | | | | | |
|---------------------------------------|----|------------|------------|------------|----------|---------------|---------------|---------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Water Level Elevation (Feet) | | 160.3 | 160.13 | 159.24 | 140.18 | to 161.85 | 160 | ± 0.85 | 29 |
| Dissolved Oxygen (mg/L) | | 5 | 4 | 3 | 1 1 | to 6 | 3.5 | ± 0.28 | 29 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Brom | ide. | |
| Specific Conductance (µmhos/cm @25°C) | | 178 | 175 | 194 | 148 | to 405 | 190 | ± 9.3 | 29 |
| pH (Standard Units) | | 8.3 | 8.1 | 7.9 | 6.2 | to 8.4 | 7.7 | ± 0.08 | 29 |
| Alkalinity (CaCO3) (field) (mg/L) | | 90 | 50 | ↓ 35 | 40 | to 150 | 84 | ± 5.8 | 27 |
| Arsenic (mg/L) | | 0.011 | 1 0.012 | 0.008 | 0.001 | to 0.011 | 0.0053 | ± 0.000 | 29 |
| Cadmium (mg/L) | | ↑ 0.0006 U | 1 0.0006 U | ↑ 0.0006 U | 0.0002 U | to 0.0005 | 0.00031 | ± 4E-05 | 24 |
| Calcium (mg/L) | | 21.7 | 22 | 21.7 | 11 1 | to 58.1 | 23 | ± 1.4 | 29 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.93 | 0.065 | ± 0.03 | 29 |
| Magnesium (mg/L) | | 5.3 | 5.5 | 5.2 | 4.8 | to 6.1 | 5.4 | ± 0.06 | 29 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | 0.12 | 0.03 | ± 0.005 | 29 |
| Nickel (mg/L) | | ↑ 0.005 U | ↑ 0.005 U | ↑ 0.005 U | 0.002 U | to 0.003 | 0.0025 | ± 0.000 | 24 |
| Potassium (mg/L) | | 1.4 | 1.2 | 1.2 | 0.9 | to 4.6 | 1.6 | ± 0.12 | 29 |
| Sodium (mg/L) | | 4.1 | 3.7 | ↓ 3.6 | 3.7 | to 73 | 8.7 | ± 2.4 | 29 |
| Total Kjeldahl Nitrogen (mg/L) | | 0.479 | 0.613 | 0.5 U | 0.17 | to 0.7 | 0.4 | ± 0.03 | 27 |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U | 0 2.5 | 0.26 | ± 0.08 | 29 |
| Total Dissolved Solids (mg/L) | | 115 | 100 | 115 | 92 1 | o 287 | 120 | ± 6.4 | 29 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U 1 | io 21 | 4.7 | ± 0.59 | 29 |
| Sulfate (mg/L) | | 9.2 | 7.8 | 7.7 | 5.5 | 0 28.8 | 9.9 | ± 1 | 29 |
| Bicarbonate (CaCO3) (mg/L) | | 80 | 76 | 76 | 72 | o 153 | 84 | ± 2.9 | 29 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.5 U | 0 3.8 | 1.3 | ± 0.14 | 29 |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U 1 | 0 13 | 4.2 | ± 0.51 | 29 |
| Chloride (mg/L) | | 1.3 | 1.4 | 1.8 | 0.9 | 0 7.2 | 1.9 | ± 0.21 | 29 |
| Turbidity (field) (NTU) | | 0.4 | 1.2 | 0.8 | 0 1 | o 162 | 6.7 | ± 5.6 | 29 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 | ± 0 | 27 |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

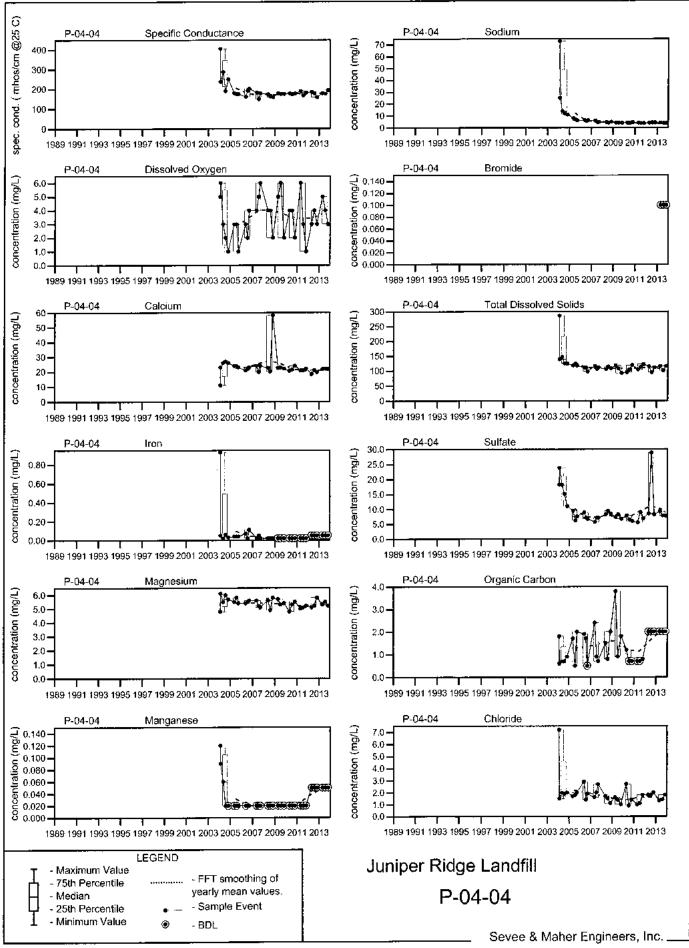
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





PWS-1 is a pore water sampling location along the unnamed tributary to Pushaw stream. PWS-1 is downgradient of the landfill.

Screen Interval:

Sampled:

3 Times Annually

Sampled Since:

04/26/2010

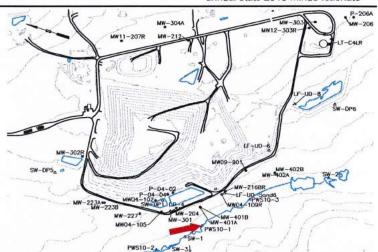
Material Screened:

Well Condition:

NA

Sampling Method: Low Flow

Chemical Summary



| | | 2 | 013 | | Historical | | | | | |
|---------------------------------------|----|-------------|--------------|----------|--------------------|---------------------|---|--|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | r | | | |
| Dissolved Oxygen (mg/L) | | 1 | 1 | 4 | 0.3 to 5 | 1.7 ± 0.49 | 9 | | | |
| Bromide (mg/L) | | 0.1 | 0.1 U | 0.1 U | No historica | l data for Bromide. | | | | |
| Specific Conductance (µmhos/cm @25°C) | | 278 | 207 | 119 | 104 to 438 | 220 ± 36 | 9 | | | |
| pH (Standard Units) | | ↓ 5.7 | ↓ 5.5 | 6.3 | 5.8 to 6.5 | 6.1 ± 0.08 | 9 | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 50 | 75 | 25 | 10 to 200 | 76 ± 22 | 9 | | | |
| Arsenic (mg/L) | | 0.011 | 0.005 U | 0.005 U | 0.002 U to 0.015 | 0.008 ± 0.001 | ę | | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U to 0.0016 | 0.00049 ± 0.000 | 9 | | | |
| Calcium (mg/L) | | 30.9 | 18.9 | ↓ 9.5 | 9.8 to 35.2 | 21 ± 2.9 | 9 | | | |
| Iron (mg/L) | | 1.35 | 4.66 | 1.56 | 0.48 to 30.3 | 5.8 ± 3.1 | ç | | | |
| Magnesium (mg/L) | | 9.3 | 6.3 | 3.4 | 3.2 to 12.2 | 6.8 ± 0.9 | ç | | | |
| Manganese (mg/L) | | 0.09 | 0.31 | 0.09 | 0.05 to 0.72 | 0.28 ± 0.08 | ç | | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.034 | 0.0086 ± 0.004 | ç | | | |
| Potassium (mg/L) | | 1.8 | 1.3 | 0.7 | 0.4 to 2.8 | 1.2 ± 0.26 | 9 | | | |
| Sodium (mg/L) | | 1 10 | 7.2 | 5.6 | 5.1 to 9.6 | 7.6 ± 0.47 | 9 | | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U to 0.5 | 0.19 ± 0.05 | 9 | | | |
| Phosphate Phosphorus (mg/L) | | 0.06 | ↑ 0.32 | 0.06 | 0.03 to 0.26 | 0.11 ± 0.02 | 9 | | | |
| Total Dissolved Solids (mg/L) | | 177 | 148 | ↓ 90 | 104 to 176 | 140 ± 7.5 | 9 | | | |
| Total Suspended Solids (mg/L) | | 4 U | 95 | 25 | 4 U to 786 | 100 ± 85 | 9 | | | |
| Sulfate (mg/L) | | 3.1 | 2 U | 2.5 | 1 to 10 | 3.3 ± 0.98 | 9 | | | |
| Bicarbonate (CaCO3) (mg/L) | | 113 | 82 | 45 | 41 to 125 | 78 ± 9.4 | 9 | | | |
| Organic Carbon (mg/L) | | ↓ 4.5 | 12.6 | 9.8 | 7.5 to 19.7 | 11 ± 1.3 | 9 | | | |
| Chemical Oxygen Demand (mg/L) | | 20 | 46 | 33 | 20 to 58 | 34 ± 3.6 | 9 | | | |
| Chloride (mg/L) | | 16.4 | 8.9 | 7 | 3.5 to 14.6 | 9.7 ± 1.1 | 9 | | | |
| Turbidity (field) (NTU) | | 3.2 | 12.6 | 5.7 | 2.1 to 20 | 7.2 ± 2.1 | 9 | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | ↓ 0.75 | 2.6 | 5 U | 1 to 5 | 2.1 ± 0.44 | 9 | | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

↑ indicates a value greater than the historical maximum value; ↓ in

indicates a value less than the historical minimum value.

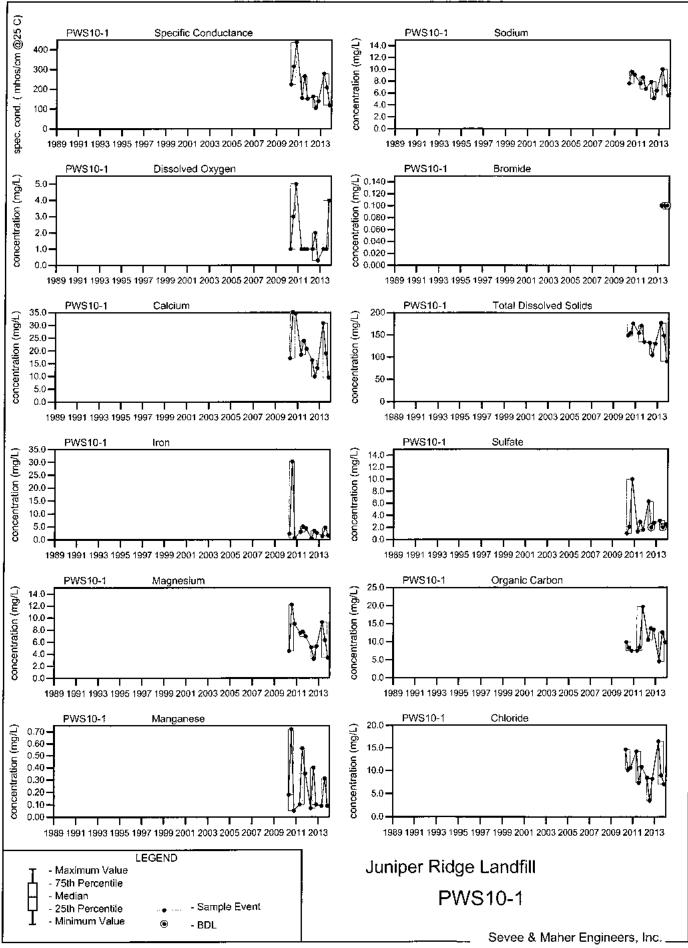
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





PWS-2 is a pore water sampling location along the unnamed tributary to Pushaw stream. PWS-2 is downgradient of the landfill.

Screen Interval:

Sampled:

3 Times Annually

Sampled Since:

04/26/2010

Material Screened:

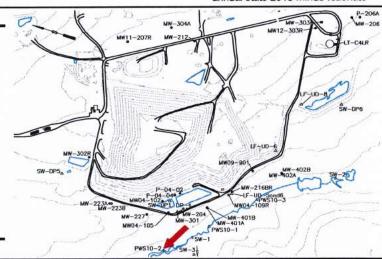
Well Condition:

NA

Sampling Method:

Low Flow

Chemical Summary



| | | 20 | 013 | | Hi | storical | |
|---------------------------------------|----|----------|-------------|---------------|--------------------|----------------------|---|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n |
| Dissolved Oxygen (mg/L) | | 3 | 1 | 5 | 1 to 8 | 3.3 ± 0.83 | 9 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | No historica | al data for Bromide. | |
| Specific Conductance (µmhos/cm @25°C) | | 100 | 127 | 107 | 66 to 157 | 100 ± 11 | 9 |
| pH (Standard Units) | | ↓ 5.5 | ↓ 5.4 | ↑ 6.7 | 5.6 to 6.6 | 5.9 ± 0.12 | 9 |
| Alkalinity (CaCO3) (field) (mg/L) | | 15 | 30 | 15 | 15 to 135 | 43 ± 12 | 9 |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.006 | 0.0041 ± 0.000 | 9 |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U to 0.0014 | 0.00048 ± 0.000 | 9 |
| Calcium (mg/L) | | 9.2 | 13.9 | 8.9 | 5.7 to 15.2 | 9 ± 1.1 | 9 |
| Iron (mg/L) | | 2.34 | 2.42 | ↑ <u>6.07</u> | 0.32 to 3.06 | 1.5 ± 0.32 | 9 |
| Magnesium (mg/L) | | 3.1 | 3.2 | 1.9 | 1.4 to 3.9 | 2.3 ± 0.27 | 9 |
| Manganese (mg/L) | | 0.05 U | 0.05 U | ↑ 0.44 | 0.02 U to 0.43 | 0.088 ± 0.04 | 9 |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.007 | 0.0037 ± 0.000 | 9 |
| Potassium (mg/L) | | 0.3 U | 0.5 | 0.8 | 0.3 U to 1.1 | 0.66 ± 0.1 | 9 |
| Sodium (mg/L) | | 4.4 | 5.1 | 3.2 | 2.8 to 5.1 | 3.9 ± 0.27 | 9 |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U to 0.4 | 0.19 ± 0.04 | 9 |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.05 | ↑ 0.1 | 0.02 to 0.08 | 0.038 ± 0.006 | 9 |
| Total Dissolved Solids (mg/L) | | 82 | 111 | 78 | 59 to 107 | 79 ± 5 | 9 |
| Total Suspended Solids (mg/L) | | 5 | 62 | 43 | 4 U to 182 | 32 ± 20 | 9 |
| Sulfate (mg/L) | | 3.8 | 2 U | 4.3 | 1.6 to 8.4 | 4.3 ± 0.9 | 9 |
| Bicarbonate (CaCO3) (mg/L) | | 30 | 28 | 28 | 9.3 to 62 | 26 ± 5.8 | 9 |
| Organic Carbon (mg/L) | | ↓ 6.4 | 11.8 | ↓ 5.5 | 7.3 to 14.7 | 10 ± 0.77 | 9 |
| Chemical Oxygen Demand (mg/L) | | 26 | ↑ 55 | 29 | 18 to 40 | 29 ± 2.7 | 9 |
| Chloride (mg/L) | | 8.4 | 19.8 | 5.1 | 3.2 to 12.6 | 6.4 ± 1 | 9 |
| Turbidity (field) (NTU) | | 2.5 | 3.1 | 6.2 | 1.6 to 6.5 | 3.5 ± 0.55 | 9 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 1.1 | 1.8 | 2.5 U | 1 U to 5.1 | 2 ± 0.43 | 9 |

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

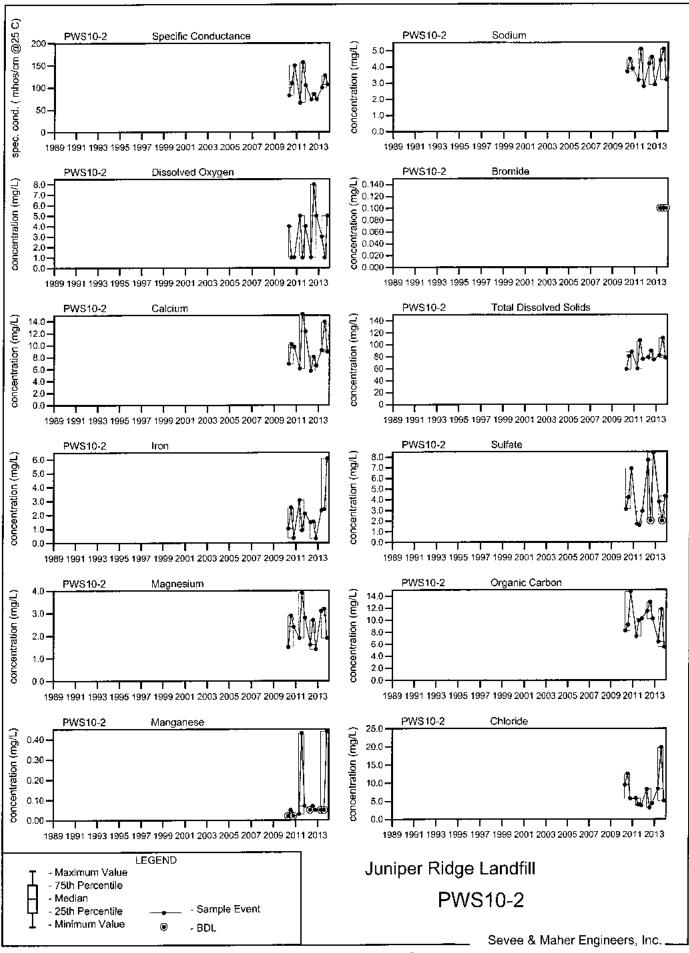
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





PWS-3 is a pore water sampling location along the unnamed tributary to Pushaw stream. PWS-3 is downgradient of the landfill.

Screen Interval:

Sampled:

3 Times Annually

Sampled Since:

04/26/2010

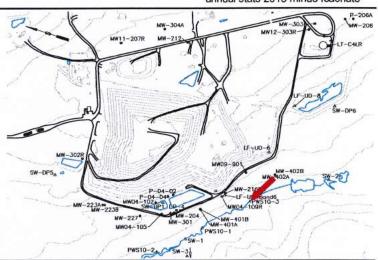
Material Screened:

Well Condition:

NA

Sampling Method: Low Flow

Chemical Summary



| | | 2013 Historical | | | | | | al | | |
|---------------------------------------|----|-----------------|---------------|----------|----------|---------------|----------------|---------|---|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Dissolved Oxygen (mg/L) | | ↑ 5 | 1 | 4 | 0.8 | to 4 | 2.3 | ± 0.42 | 9 | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bromi | ide. | | |
| Specific Conductance (µmhos/cm @25°C) | | 62 | 180 | 80 | 59 | to 222 | 130 | ± 21 | 9 | |
| pH (Standard Units) | | ↓ 5 | 5.5 | 6.6 | 5.3 | to 7 | 5.9 | ± 0.18 | 9 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 15 | 90 | 20 | 15 | to 145 | 67 | ± 16 | 9 | |
| Arsenic (mg/L) | | 0.005 U | 0.005 | 0.006 | 0.002 U | to 0.011 | 0.0049 | ± 0.000 | 9 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U | to 0.001 | 0.00042 : | ± 1E-04 | 9 | |
| Calcium (mg/L) | | 4.9 | 13.3 | 6.2 | 4.4 | to 25 | 12 : | ± 2.3 | 9 | |
| Iron (mg/L) | | 1.42 | 11.4 | 1.53 | 0.34 | to 20.8 | 4.3 | ± 2.1 | 9 | |
| Magnesium (mg/L) | | 1.8 | 3.9 | 2.3 | 1.7 | to 4.3 | 2.9 | ± 0.28 | 9 | |
| Manganese (mg/L) | | 0.05 | 0.51 | 0.09 | 0.02 | to 1.48 | 0.31 | ± 0.16 | 9 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.005 U | 0.003 | ± 0.000 | 9 | |
| Potassium (mg/L) | | 0.4 | 1.1 | 0.5 | 0.1 | to 1.3 | 0.49 | ± 0.13 | 9 | |
| Sodium (mg/L) | | 3.9 | 5.6 | 4.5 | 2.5 | to 5.8 | 4 : | ± 0.31 | 9 | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.1 U | to 0.5 | 0.2 | ± 0.05 | 9 | |
| Phosphate Phosphorus (mg/L) | | 0.08 | ↑ 0.5 | 0.08 | 0.03 | to 0.48 | 0.13 | ± 0.05 | 9 | |
| Total Dissolved Solids (mg/L) | | 72 | 141 | 73 | 66 | to 124 | 99 : | ± 5.9 | 9 | |
| Total Suspended Solids (mg/L) | | 8 | 39 | 29 | 4 U | to 101 | 31 : | ± 11 | 9 | |
| Sulfate (mg/L) | | 2 | 2 U | 2 U | 0.6 U | to 6.3 | 2.5 | ± 0.64 | 9 | |
| Bicarbonate (CaCO3) (mg/L) | | 21 | 56 | 22 | 11.8 | to 87 | 42 : | ± 9.3 | 9 | |
| Organic Carbon (mg/L) | | 11 | 1 21.6 | 11.9 | 2.1 | to 19.3 | 12 : | ± 2 | 9 | |
| Chemical Oxygen Demand (mg/L) | | 46 | 62 | 43 | 11 | to 251 | 72 : | ± 24 | 9 | |
| Chloride (mg/L) | | 4.1 | 5.4 | 6.2 | 1.7 | to 7.7 | 3.4 | £ 0.59 | 9 | |
| Turbidity (field) (NTU) | | 5.6 | 5.9 | 8.1 | 3.5 | to 18.3 | 6.5 | ± 1.5 | 9 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 1.6 | ↑ 5.2 | 2.5 U | 0.45 | to 4.6 | 2.4 | ± 0.46 | 9 | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

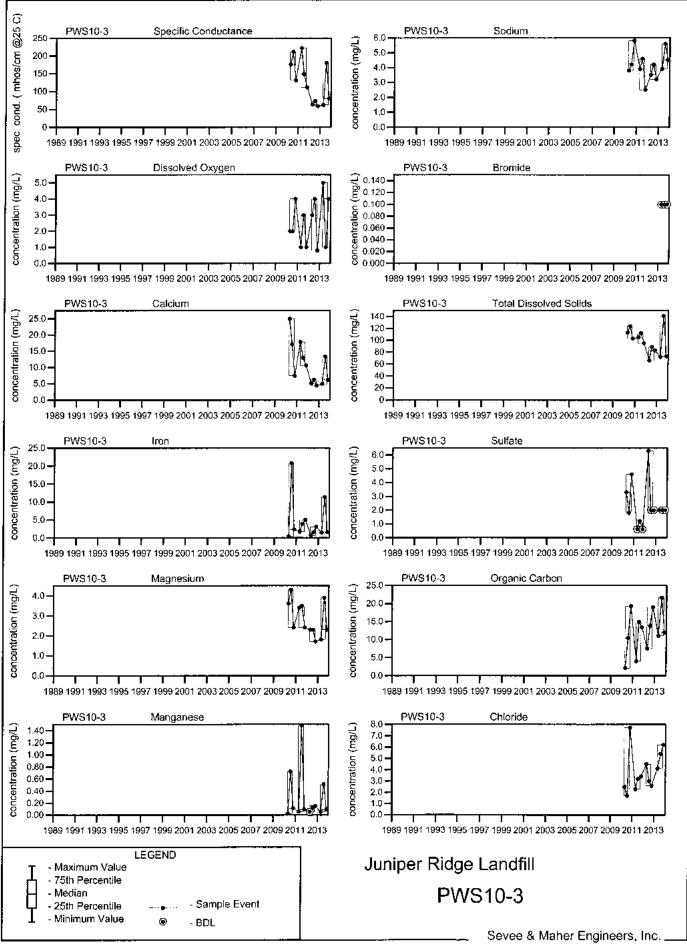
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





SW-1 is located downgradient of the landfill and monitors surface water quality in an unnamed tributary to Pushaw Stream.

Sampled:

3 Times Annually

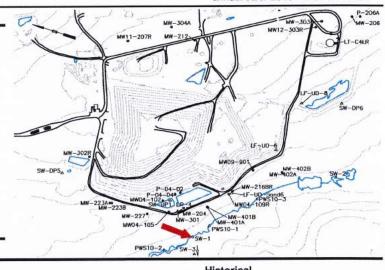
Sampled Since:

11/13/90

Sampling Method:

Grab

Chemical Summary



| | | 20 | 13 | | Historical | | | | |
|---------------------------------------|----|---------|---------|---------|---------------------|--------------------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | | |
| Dissolved Oxygen (mg/L) | | 6 | 6 | 6 | 0.6 to 13.2 | 4.8 ± 0.32 | 66 | | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | No historical | data for Bromide. | | | |
| Specific Conductance (µmhos/cm @25°C) | | 80 | 83 | 99 | 10 to 345 | 96 ± 7 | 68 | | |
| pH (Standard Units) | | 6.6 | 6.5 | 7.2 | 5.8 to 8.1 | 6.9 ± 0.07 | 68 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 15 | 25 | 20 | 10 to 135 | 45 ± 6.1 | 25 | | |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.001 to 0.01 | 0.0039 ± 0.000 | 26 | | |
| Cadmium (mg/L) | | 0.00006 | 0.00006 | 0.00006 | 0.00002 U to 0.0005 | 0.0017 ± 0.000 | 35 | | |
| Calcium (mg/L) | | 5.2 | 9.6 | 7.2 | 3.1 to 48 | 9.7 ± 1 | 56 | | |
| Iron (mg/L) | | 0.24 | 2.92 | 0.57 | 0.1 to 19.4 | 2.1 ± 0.4 | 61 | | |
| Magnesium (mg/L) | | 1.9 | 3.2 | 2.7 | 0.21 to 10.7 | 2.7 ± 0.22 | 56 | | |
| Manganese (mg/L) | | 0.05 U | 0.12 | 0.05 U | 0.001 to 4.8 | 0.23 ± 0.08 | 61 | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.01 | 0.0032 ± 0.000 | 23 | | |
| Potassium (mg/L) | | 1 | 0.4 | 0.4 | 0.1 to 5 | 1.2 ± 0.22 | 26 | | |
| Sodium (mg/L) | | 6.3 | 3.6 | 4.3 | 2.9 to 12 | 5.6 ± 0.24 | 61 | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | 0.3 U | 0.05 U to 0.3 | 0.1 ± 0.01 | 38 | | |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.05 | 0.04 U | 0.01 U to 0.81 | 0.087 ± 0.02 | 38 | | |
| Total Dissolved Solids (mg/L) | | 60 | 81 | 73 | 30 to 230 | 85 ± 4.6 | 61 | | |
| Total Suspended Solids (mg/L) | | 4 U | 41 | 4 U | 4 U to 1490 | 74 ± 57 | 26 | | |
| Sulfate (mg/L) | | 3.1 | 2 U | 2.2 | 0.2 to 17 | 3.1 ± 0.36 | 61 | | |
| Bicarbonate (CaCO3) (mg/L) | | 15.3 | 34 | 30 | 10.6 to 148 | 38 ± 7.1 | 26 | | |
| Organic Carbon (mg/L) | | 7.4 | 16.8 | 10.1 | 5.2 to 34 | 12 ± 0.55 | 61 | | |
| Biochemical Oxygen Demand (mg/L) | | 4 U | 3 U | 1 U | 1 U to 12 | 4.7 ± 0.34 | 38 | | |
| Chemical Oxygen Demand (mg/L) | | 23 | 46 | 38 | 15 to 752 | 60 ± 13 | 61 | | |
| Chloride (mg/L) | | 12.7 | 5.1 | 6.2 | 1 U to 22.7 | 7.3 ± 0.53 | 61 | | |
| Turbidity (field) (NTU) | | 3.6 | 2.3 | 1.5 | 0 to 175 | 6.7 ± 3.7 | 47 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 1.4 | 3.2 | 2.5 U | 0.2 U to 4.5 | 2.3 ± 0.12 | 61 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Chloride MFCCC=230 mg/L, Nickel MFCCC=0.0134 mg/L, Iron MFCCC=1 mg/L, Cadmium MFCCC=0.00008 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.

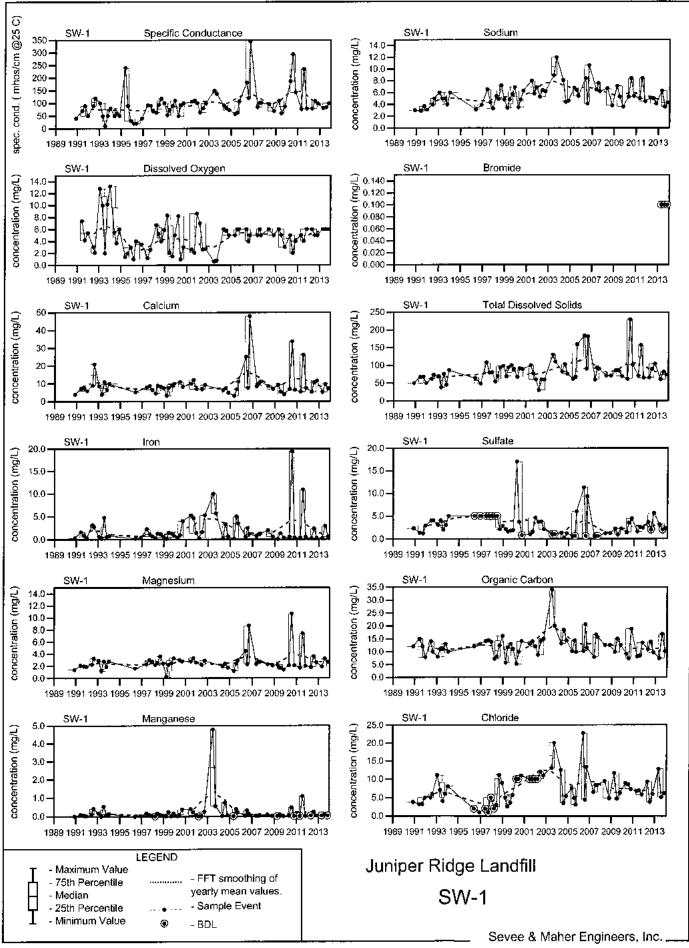
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





LF+UD

MW-304A

MW11-207R

P-206A

Well Description

SW-2 is located upgradient of the landfill and monitors surface water quality in an unnamed tributary to Pushaw Stream.

Sampled:

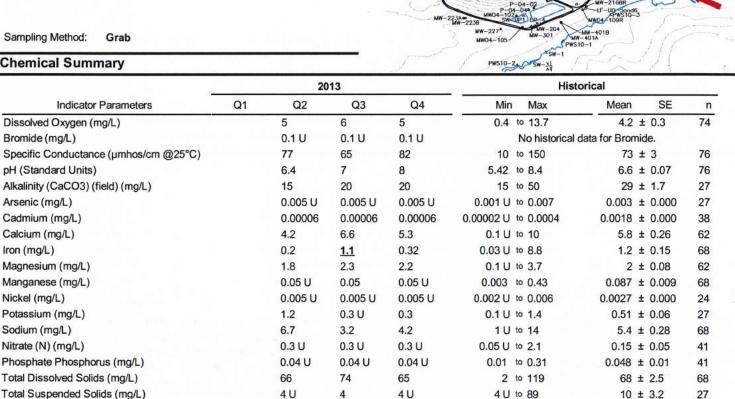
3 Times Annually

Sampled Since:

11/13/90

Sampling Method:

Chemical Summary



0

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Sulfate (mg/L)

Chloride (mg/L)

Bicarbonate (CaCO3) (mg/L)

Biochemical Oxygen Demand (mg/L)

Tannin & Lignins (Tannic Acid) (mg/L)

Chemical Oxygen Demand (mg/L)

Organic Carbon (mg/L)

Turbidity (field) (NTU)

Chloride MFCCC=230 mg/L, Nickel MFCCC=0.0134 mg/L, Iron MFCCC=1 mg/L, Cadmium MFCCC=0.00008 mg/L, Arsenic MFCCC=0.15

2 U

13

7.6

4 U

29

13.6

4.1

2 U

25

1 24.1

3 U

54

4.5

2.2

5 U

2 U

22

↓1U

40

6.6

1.2

2.5 U

11.8

indicates a value greater than the historical maximum value;

indicates a value less than the historical minimum value.

0.1 U to 8

8.5 to 35

1 U to 22

1.7 to 16

9.6 to 100

2 U to 23

0 to 10

0.8 to 5.4

Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

location could not be accessed != the sampling location was damaged or destroyed. April 2013 and October 2013 Cadmium results are non-detect above the laboratory reporting limit (0.00006U mg/l).

Data Group: 199

Printed:

3/18/2014 13:05



 2 ± 0.21

19 ± 1.3

14 ± 0.55

 5.1 ± 0.35

43 ± 1.8

 7.7 ± 0.54

1.5 ± 0.27

 3 ± 0.12

68

27

68

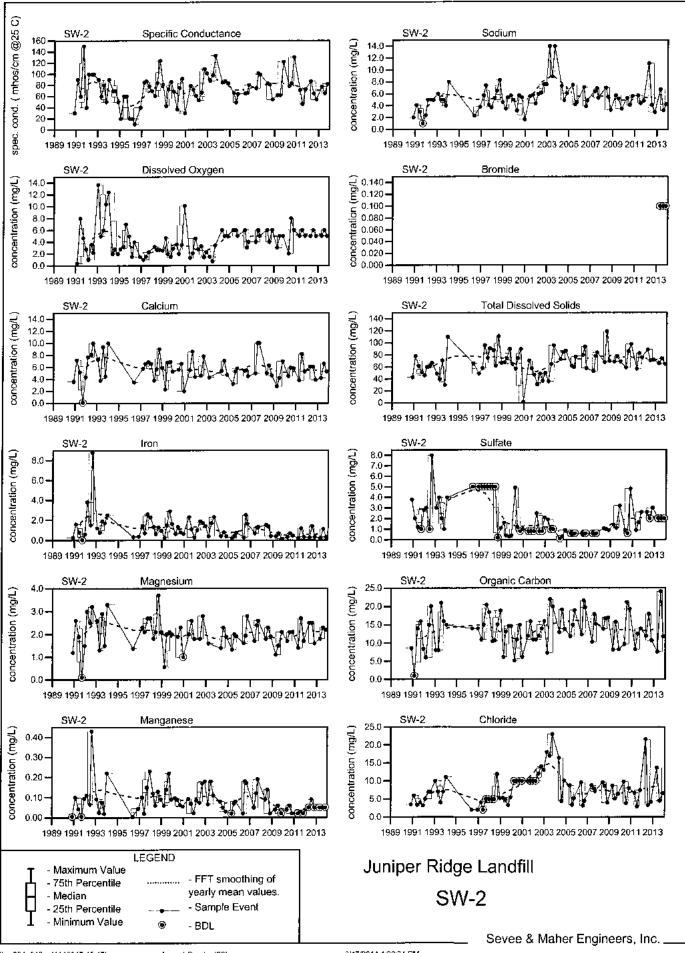
40

68

68

50

68



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

| Camping Motion. Clab | | | | - | MH04-105* | PWS SW-1 | 10-1 | 111 | |
|---------------------------------------|----|-----------|-----------|-----------|------------|---------------|---------------|---------|----|
| Chemical Summary | | | | | PWS10- | 2-W-3 | 1-1 | ~/\ | |
| _ | | 2 | 013 | | Historical | | | | |
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Dissolved Oxygen (mg/L) | | 6 | 6 | 4 | 1 | to 12.1 | 5.5 | ± 0.32 | 59 |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bron | nide. | |
| Specific Conductance (µmhos/cm @25°C) | | 71 | 81 | 108 | 20 | to 151 | 79 | ± 3.5 | 60 |
| pH (Standard Units) | | 6.5 | 7.9 | 7.7 | 5.4 | to 8.2 | 6.6 | ± 0.07 | 60 |
| Alkalinity (CaCO3) (field) (mg/L) | | 20 | 25 | 15 | 15 | to 100 | 33 | ± 3.4 | 27 |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.001 U | to 0.005 | 0.0026 | ± 0.000 | 27 |
| Cadmium (mg/L) | | 0.00006 | 0.00006 | 0.00006 | 0.00002 U | to 0.0003 | 0.0016 | ± 0.000 | 33 |
| Calcium (mg/L) | | 4.8 | 8.4 | 7.5 | 2.8 | to 11.2 | 6.8 | ± 0.28 | 53 |
| Iron (mg/L) | | ↓ 0.17 | 0.8 | 0.46 | 0.2 | to 3.5 | 0.95 | ± 0.09 | 60 |
| Magnesium (mg/L) | | 1.6 | 2.2 | 2.6 | 0.47 | to 3.1 | 1.9 | ± 0.08 | 53 |
| Manganese (mg/L) | | 0.05 U | 0.07 | 0.05 | 0.004 | to 1.3 | 0.15 | ± 0.03 | 60 |
| Nickel (mg/L) | | 1 0.005 U | ↑ 0.005 U | 1 0.005 U | 0.002 U | to 0.003 | 0.0025 | ± 0.000 | 24 |
| Potassium (mg/L) | | 0.7 | 0.3 U | 0.5 | 0.2 | to 1.6 | 0.68 | ± 0.07 | 27 |
| Sodium (mg/L) | | 4.7 | 3.1 | 4.5 | 2.4 | to 9.3 | 4.7 | ± 0.17 | 60 |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.05 U | to 0.2 | 0.11 | ± 0.01 | 36 |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.04 U | 0.04 U | 0.01 U | to 0.4 | 0.043 | ± 0.01 | 36 |
| Total Dissolved Solids (mg/L) | | 56 | 67 | 74 | 31 | to 210 | 72 | ± 3.3 | 60 |
| Total Suspended Solids (mg/L) | | 4 U | 5 | 4 U | 4 U | to 16 | 4.8 | ± 0.5 | 27 |
| Sulfate (mg/L) | | 3.1 | 2.4 | 2.7 | 0.4 | to 35 | 3.9 | ± 0.65 | 60 |
| Bicarbonate (CaCO3) (mg/L) | | 14.8 | 28 | 29 | 10 | to 40 | 22 | ± 1.7 | 27 |
| Organic Carbon (mg/L) | | 7 | 13.7 | 7.8 | 5.7 | to 40 | 13 | ± 0.6 | 60 |
| Biochemical Oxygen Demand (mg/L) | | 4 U | 3 U | ↓1U | 2 U | to 6 U | 5.1 | ± 0.19 | 36 |
| Chemical Oxygen Demand (mg/L) | | 27 | 39 | 26 | 18 | to 61 | 36 | ± 1.2 | 60 |
| Chloride (mg/L) | | 9.8 | 5.2 | 7.7 | 1 U | to 12 | 6 | ± 0.38 | 60 |

0

MW-227

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Turbidity (field) (NTU)

Chloride MFCCC=230 mg/L, Nickel MFCCC=0.0134 mg/L, Iron MFCCC=1 mg/L, Cadmium MFCCC=0.00008 mg/L, Arsenic MFCCC=0.15 mg/L

1.5

1.3

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

0 to 16

0.5 U to 4.7

Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Tannin & Lignins (Tannic Acid) (mg/L)

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed != the sampling location was damaged or destroyed. April 2013, July 2013, and October 2013 Cadmium results are non-detect above the laboratory reporting limit (0.00006U mg/l).

1.2

1.6

1.2

1.5

Data Group: 199

Printed:

3/20/2014 10:08

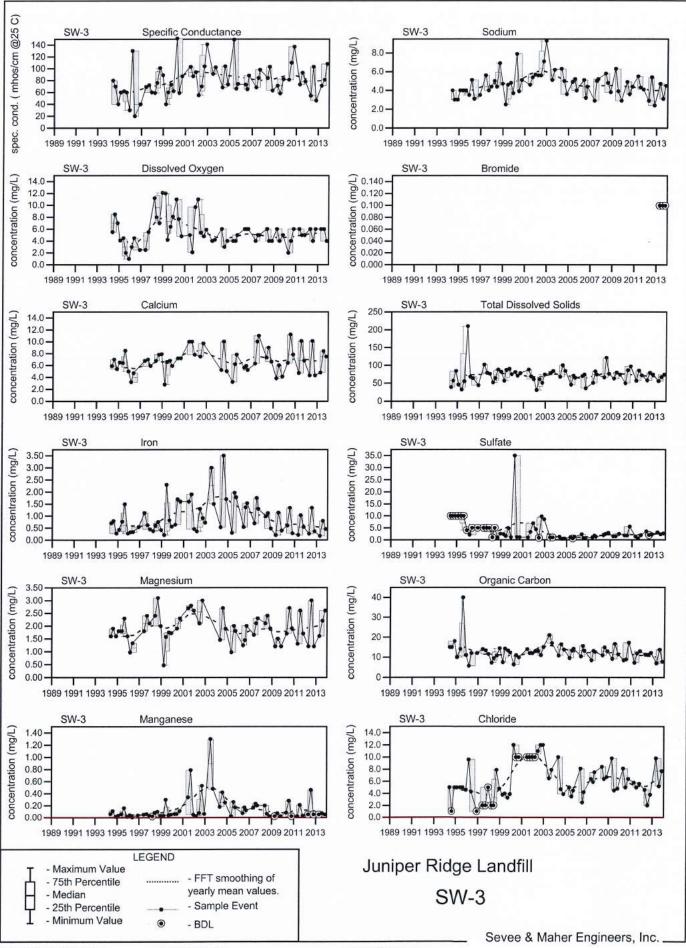


 1.8 ± 0.4

 2.2 ± 0.09

48

60



SW-DP1 is located in Detention Pond #1 which is situated to the north of the leachate pond.

Sampled:

3 Times Annually

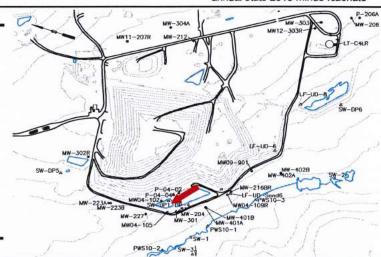
Sampled Since:

05/03/04

Sampling Method:

Grab

Chemical Summary



| 7= | | 2 | 2013 | | HI | storical | | | | | |
|---------------------------------------|----|-------------|---------|---------|---------------------|----------------------|----|--|--|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | | | | |
| Dissolved Oxygen (mg/L) | | 6 | 6 | 6 | 0.8 to 8 | 5.7 ± 0.24 | 27 | | | | |
| Bromide (mg/L) | | 0.13 | 0.1 U | 0.1 U | No historica | al data for Bromide. | | | | | |
| Specific Conductance (µmhos/cm @25°C) | | 195 | 82 | 204 | 66 to 400 | 170 ± 14 | 27 | | | | |
| pH (Standard Units) | | 7.3 | 6.7 | 7.4 | 6.3 to 9.4 | 7.6 ± 0.16 | 27 | | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | ↓ 20 | 30 | ↓ 20 | 25 to 175 | 64 ± 7.2 | 27 | | | | |
| Arsenic (mg/L) | | 0.005 | 0.007 | 0.005 | 0.001 U to 0.012 | 0.0033 ± 0.000 | 27 | | | | |
| Cadmium (mg/L) | | 0.00006 | 0.00006 | 0.00006 | 0.00002 U to 0.0008 | 0.0002 ± 5E-05 | 24 | | | | |
| Calcium (mg/L) | | 27.8 | 11 | 24.2 | 10.4 to 40 | 21 ± 1.5 | 27 | | | | |
| Iron (mg/L) | | 0.42 | 0.27 | 0.24 | 0.05 to 2.94 | 0.52 ± 0.13 | 27 | | | | |
| Magnesium (mg/L) | | 3.4 | ↓ 1.1 | 3.6 | 1.4 to 7.6 | 3.3 ± 0.31 | 27 | | | | |
| Manganese (mg/L) | | 0.13 | 0.1 | 0.21 | 0.02 to 0.88 | 0.097 ± 0.03 | 27 | | | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.005 | 0.0025 ± 0.000 | 24 | | | | |
| Potassium (mg/L) | | 2.7 | 0.9 | 1.8 | 0.4 to 25 | 3.6 ± 1 | 27 | | | | |
| Sodium (mg/L) | | 4.9 | 1.4 | 3.5 | 1.2 to 25 | 5.4 ± 0.96 | 27 | | | | |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U to 0.1 | 0.12 ± 0.01 | 27 | | | | |
| Phosphate Phosphorus (mg/L) | | 0.06 | 0.04 U | 0.04 | 0.01 U to 0.15 | 0.047 ± 0.008 | 27 | | | | |
| Total Dissolved Solids (mg/L) | | 118 | 55 | 90 | 51 to 262 | 110 ± 8.9 | 27 | | | | |
| Total Suspended Solids (mg/L) | | 12 | 4 U | 12 | 4 U to 115 | 14 ± 4.7 | 27 | | | | |
| Sulfate (mg/L) | | 27.4 | 7.2 | 9.1 | 0.2 to 30 | 9.7 ± 1.1 | 27 | | | | |
| Bicarbonate (CaCO3) (mg/L) | | 57 | 27 | 69 | 16 to 170 | 59 ± 6.7 | 27 | | | | |
| Organic Carbon (mg/L) | | ↓2U | 2.6 | 2.8 | 2.2 to 13.3 | 4.8 ± 0.6 | 27 | | | | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 13 | 3 to 45 | 14 ± 2 | 27 | | | | |
| Chloride (mg/L) | | 15.2 | 4.4 | 5.5 | 1.5 to 12.5 | 5.9 ± 0.6 | 27 | | | | |
| Turbidity (field) (NTU) | | 3.1 | 0.7 | 1.6 | 0 to 28.1 | 5.2 ± 1.3 | 27 | | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.4 U | 0.4 U | 0.2 U | 0.2 U to 2 | 0.5 ± 0.08 | 27 | | | | |

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:

Chloride MFCCC=230 mg/L, Nickel MFCCC=0.0134 mg/L, Iron MFCCC=1 mg/L, Cadmium MFCCC=0.00008 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.

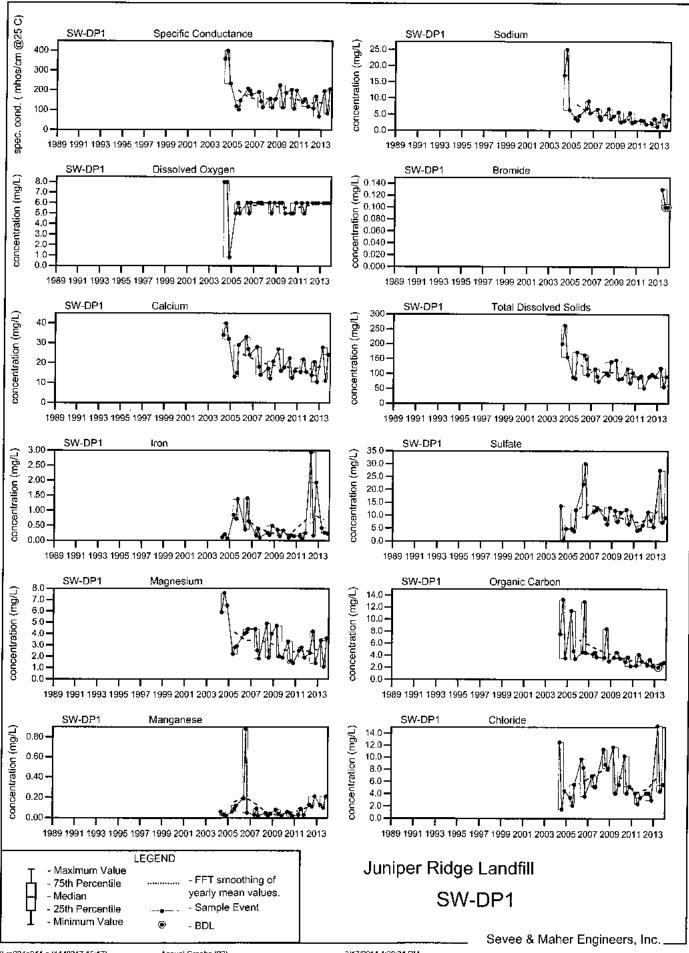
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:





Sample collected from outfall on the west side of detention pond number five.

Screen Interval:

Sampled:

3 Times Annually

Sampled Since:

4/23/2013

Material Screened:

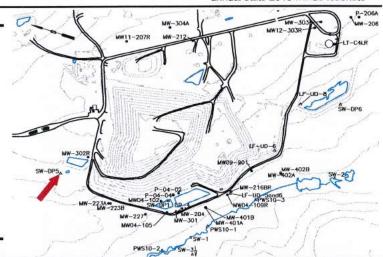
Well Condition:

Good

Sampling Method:

Grab

Chemical Summary



| 4- | | 20 | 13 | | Historical | | | | | |
|---------------------------------------|----|---------|---------|----|---|----|--|--|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max Mean SE | n | | | | |
| Dissolved Oxygen (mg/L) | | 6 | 6 | D | No historical data for Dissolved Oxygen. | | | | | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | D | No historical data for Bromide. | | | | | |
| Specific Conductance (µmhos/cm @25°C) | | 162 | 150 | D | No historical data for Specific Conductance. | | | | | |
| pH (Standard Units) | | 7.6 | 8 | D | No historical data for pH. | | | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 20 | 50 | D | No historical data for Alkalinity (CaCO3) (field). | | | | | |
| Arsenic (mg/L) | | 0.005 U | 0.006 | D | No historical data for Arsenic. | | | | | |
| Cadmium (mg/L) | | 0.00006 | 0.00007 | D | No historical data for Cadmium. | | | | | |
| Calcium (mg/L) | | 22.4 | 14.4 | D | No historical data for Calcium. | | | | | |
| Iron (mg/L) | | 0.32 | 0.33 | D | No historical data for Iron. | | | | | |
| Magnesium (mg/L) | | 1.8 | 0.8 | D | No historical data for Magnesium. | | | | | |
| Manganese (mg/L) | | 0.06 | 0.05 U | D | No historical data for Manganese. | | | | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | D | No historical data for Nickel. | | | | | |
| Potassium (mg/L) | | 1.9 | 1 | D | No historical data for Potassium. | | | | | |
| Sodium (mg/L) | | 4.7 | 1.9 | D | No historical data for Sodium. | | | | | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.3 U | D | No historical data for Nitrate (N). | | | | | |
| Phosphate Phosphorus (mg/L) | | 0.06 | 0.05 | D | No historical data for Phosphate Phosphorus. | | | | | |
| Total Dissolved Solids (mg/L) | | 110 | 71 | D | No historical data for Total Dissolved Solids. | | | | | |
| Total Suspended Solids (mg/L) | | 7 | 5 | D | No historical data for Total Suspended Solids. | | | | | |
| Sulfate (mg/L) | | 32.1 | 12.3 | D | No historical data for Sulfate. | | | | | |
| Bicarbonate (CaCO3) (mg/L) | | 37 | 9 | D | No historical data for Bicarbonate (CaCO3). | | | | | |
| Organic Carbon (mg/L) | | 2 U | 4.8 | D | No historical data for Organic Carbon. | | | | | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 21 | D | No historical data for Chemical Oxygen Demand. | | | | | |
| Chloride (mg/L) | | 10.7 | 2.3 | D | No historical data for Chloride. | | | | | |
| Turbidity (field) (NTU) | | 2.6 | 1.5 | D | No historical data for Turbidity (field). | | | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.4 U | 0.5 U | D | No historical data for Tannin & Lignins (Tannic Acid) |). | | | | |

<u>underlined/bold</u> - values exceed a regulatory standard listed below.

Applicable Limits:

Nitrate (N) MCL=10 mg/L, MEG12=10 mg/L, Sodium MEG12=20 mg/L, Nickel MEG12=0.02 mg/L, Manganese MEG12=0.5 mg/L, Iron MEG12=5 mg/L, Cadmium MCL=0.005 mg/L, MEG12=0.001 mg/L, Arsenic MCL=0.01 mg/L, MEG12=0.01 mg/L

† indicates a value greater than the historical maximum value;

↓ indicates a value less than the historical minimum value.

Comments

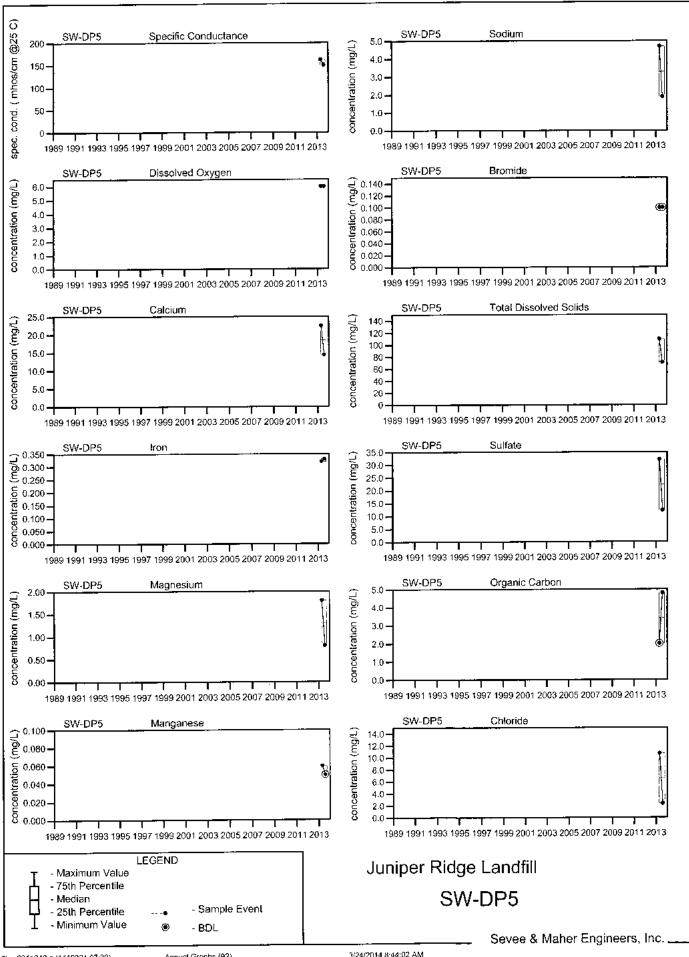
Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:

3/20/2014 10:08





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

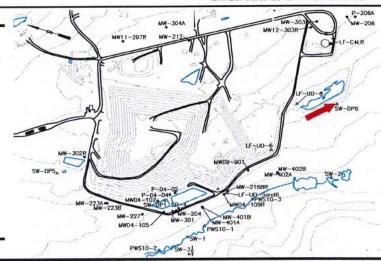
Sampled Since:

10/27/2009

Sampling Method:

Grab

Chemical Summary



| Indicator Parameters | | 2013 | | | | Historical | | | | |
|---------------------------------------|--|----------|-----------|----------|-----------|---------------|--------------------|----|--|--|
| | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean SE | n | | |
| Dissolved Oxygen (mg/L) | de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la | 6 | 6 | 5 | 5 | to 6 | 5.6 ± 0.16 | 10 | | |
| Bromide (mg/L) | | 0.1 U | 0.1 U | 0.1 U | | No historical | data for Bromide. | | | |
| Specific Conductance (µmhos/cm @25°C) | | ↓ 62 | 87 | 113 | 65 | to 427 | 220 ± 35 | 10 | | |
| pH (Standard Units) | | 6.6 | 7 | 7.3 | 6.3 | to 7.5 | 7 ± 0.16 | 10 | | |
| Alkalinity (CaCO3) (field) (mg/L) | | 15 | 25 | 25 | 15 | to 100 | 56 ± 11 | 9 | | |
| Arsenic (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.011 | 0.0051 ± 0.001 | 10 | | |
| Cadmium (mg/L) | | 10.00006 | ↑ 0.00006 | 10.00006 | 0.00002 U | to 0.00002 | 3.2E-05 ± 6E-06 | 10 | | |
| Calcium (mg/L) | | ↓ 5.6 | 10.2 | 10.6 | 6.6 | to 63.3 | 25 ± 5.4 | 10 | | |
| Iron (mg/L) | | 1.39 | 0.31 | 0.23 | 0.1 | to 3.05 | 1.1 ± 0.34 | 10 | | |
| Magnesium (mg/L) | | ↓ 1.3 | ↓ 1.4 | ↓ 1.6 | 1.9 | to 7.3 | 3.2 ± 0.53 | 10 | | |
| Manganese (mg/L) | | 0.05 | 0.05 | 0.05 U | 0.05 U | to 0.96 | 0.27 ± 0.11 | 10 | | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U | to 0.005 | 0.0031 ± 0.000 | 10 | | |
| Potassium (mg/L) | | 1.6 | ↓ 1.1 | ↓ 1.1 | 1.5 | to 3.4 | 2.3 ± 0.21 | 10 | | |
| Sodium (mg/L) | | 3 | 1.8 | 1.9 | 1.4 | to 7.5 | 4.6 ± 0.69 | 10 | | |
| Nitrate (N) (mg/L) | | ↑ 0.3 U | ↑ 0.3 U | ↑ 0.3 U | 0.1 U | to 0.1 | 0.17 ± 0.03 | 10 | | |
| Phosphate Phosphorus (mg/L) | | 0.07 | 0.04 U | 0.04 | 0.03 | to 0.14 | 0.07 ± 0.01 | 10 | | |
| Total Dissolved Solids (mg/L) | | ↓ 60 | ↓ 73 | ↓ 71 | 81 | to 323 | 150 ± 23 | 10 | | |
| Total Suspended Solids (mg/L) | | 35 | 4 | 4 U | 4 U | to 54 | 14 ± 5.2 | 10 | | |
| Sulfate (mg/L) | | 10.7 | 20.4 | 23.2 | 3.9 | to 155 | 31 ± 14 | 10 | | |
| Bicarbonate (CaCO3) (mg/L) | | ↓ 7.8 | ↓ 13.1 | ↓ 12.6 | 16.8 | to 75 | 43 ± 7.1 | 10 | | |
| Organic Carbon (mg/L) | | 4.4 | 4.9 | 3.8 | 3.1 | to 11.9 | 6.5 ± 1 | 10 | | |
| Chemical Oxygen Demand (mg/L) | | 16 | 15 | 15 | 8 | to 37 | 20 ± 3.3 | 10 | | |
| Chloride (mg/L) | | 7 | 4.6 | 4.9 | 1.1 | to 22.3 | 12 ± 2.4 | 10 | | |
| Turbidity (field) (NTU) | | 3.2 | 0.8 | 0.6 | 0 | to 12 | 4.5 ± 1.1 | 10 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.4 | 0.5 U | 0.4 U | 0.31 | to 0.93 | 0.78 ± 0.2 | 10 | | |

underlined/bold - values exceed a regulatory standard listed below.

Applicable Limits:

Chloride MFCCC=230 mg/L, Nickel MFCCC=0.0134 mg/L, Iron MFCCC=1 mg/L, Cadmium MFCCC=0.00008 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.

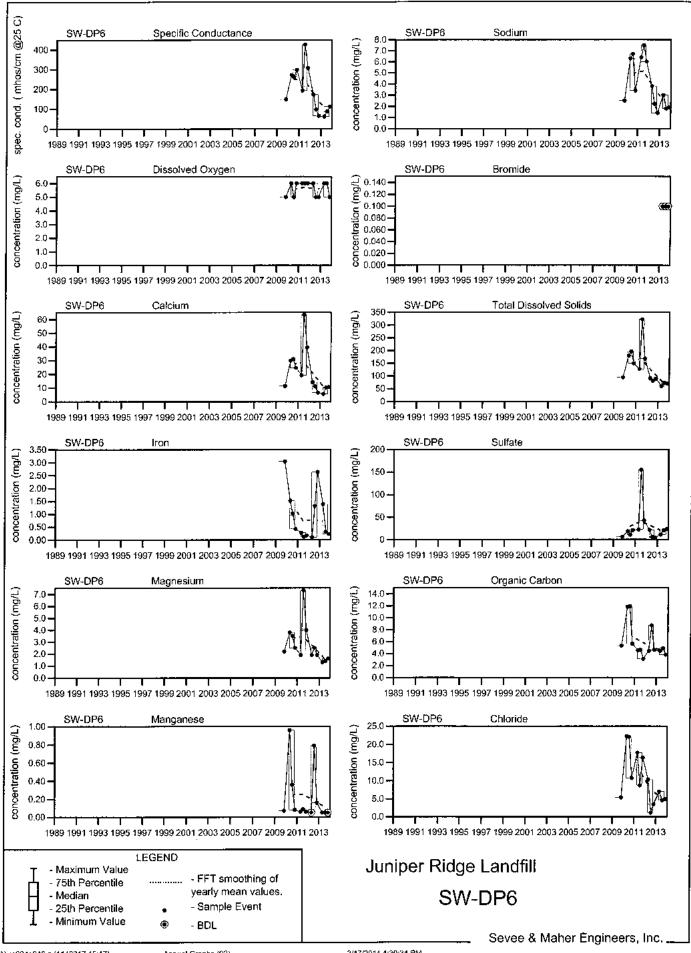
Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

Data Group: 199

Printed: 3/20/2014 10:08

SWE
Sevee & Maher Engineers, Inc.



LF-UD-7 LF-UD-4 LF-UD-JAB

INSIDE MANHOLE #

INSIDE MANHOLE #5

Well Description

Manhole #5 composite sample

Sampled:

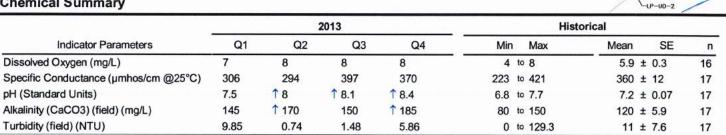
Sampled Since:

See comments below

Sampling Method:

Grab

Chemical Summary



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

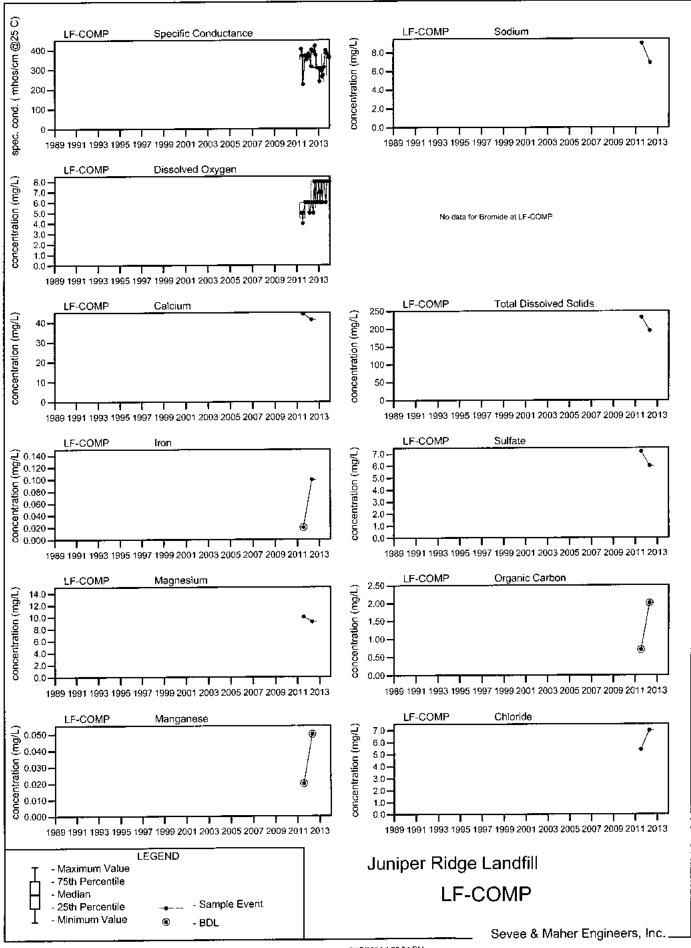
This location is monitored monthly for field parameters only when the water level is higher than the LF sample location pipes in Manhole #5.

location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed: 3/18/2014 13:05





Well Description

LF-UD-1 monitors the landfill underdrain from Cell #1 at Manhole #5.

Sampled:

Monthly & 3 Times Annually

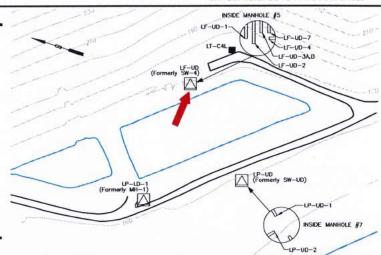
Sampled Since:

07/28/04

Sampling Method:

Grab

Chemical Summary



| | 2013 | | | | Historical | | | | |
|---------------------------------------|------|-------------|----------|------|------------|--------------|---------------------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean SE | n | |
| Dissolved Oxygen (mg/L) | 6 | 8 | 8 | ↑10 | 2 | to 8 | 5.7 ± 0.13 | 77 | |
| Bromide (mg/L) | | 0.16 | 0.14 | F6 | | No historica | l data for Bromide. | | |
| Specific Conductance (µmhos/cm @25°C) | 298 | 358 | 362 | 317 | 102 | to 611 | 310 ± 9 | 77 | |
| pH (Standard Units) | 7.5 | 8.1 | 7.9 | 7.5 | 6.3 | to 8.3 | 7.2 ± 0.06 | 77 | |
| Alkalinity (CaCO3) (field) (mg/L) | 145 | 150 | 175 | 160 | 75 | to 485 | 140 ± 6.4 | 77 | |
| Arsenic (mg/L) | | 0.012 | ↑ 0.015 | F6 | 0.001 | to 0.014 | 0.0039 ± 0.000 | 19 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | F6 | 0.0002 U | to 0.001 | 0.00036 ± 7E-05 | 17 | |
| Calcium (mg/L) | | 44.4 | 49.7 | F6 | 25 | to 53.6 | 38 ± 1.8 | 19 | |
| Iron (mg/L) | | 0.05 U | 0.05 U | F6 | 0.02 U | to 0.3 | 0.046 ± 0.02 | 19 | |
| Magnesium (mg/L) | | 10.5 | 10.8 | F6 | 7.4 | to 12.2 | 9.6 ± 0.31 | 19 | |
| Manganese (mg/L) | | ↑ 0.05 U | ↑ 0.05 U | F6 | 0.02 U | to 0.02 | 0.022 ± 0.002 | 19 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | F6 | 0.002 U | to 0.01 | 0.0028 ± 0.000 | 17 | |
| Potassium (mg/L) | | 3.7 | 3.2 | F6 | 1.8 | to 4.1 | 2.6 ± 0.16 | 19 | |
| Sodium (mg/L) | | 7.9 | 7.1 | F6 | 5.8 | to 9.4 | 7.8 ± 0.24 | 19 | |
| Nitrate (N) (mg/L) | | 0.3 U | 0.4 | F6 | 0.1 | to 0.6 | 0.31 ± 0.03 | 19 | |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.04 U | F6 | 0.01 U | to 0.05 | 0.017 ± 0.002 | 19 | |
| Total Dissolved Solids (mg/L) | | 230 | 232 | F6 | 130 | to 232 | 180 ± 6.4 | 19 | |
| Total Suspended Solids (mg/L) | | 4 | 4 U | F6 | 4 U | to 40 | 6.4 ± 1.9 | 19 | |
| Sulfate (mg/L) | | 7.8 | 9.9 | F6 | 4.1 | to 11 | 7.1 ± 0.4 | 19 | |
| Bicarbonate (CaCO3) (mg/L) | | 164 | 156 | F6 | 110 | to 175 | 140 ± 5.6 | 19 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | F6 | 0.5 U | to 6.4 | 1.9 ± 0.31 | 19 | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | F6 | 3 U | to 14 | 4.6 ± 0.71 | 19 | |
| Chloride (mg/L) | | 11.5 | 1 22.5 | F6 | 1.9 | to 7.7 | 3.6 ± 0.3 | 19 | |
| Turbidity (field) (NTU) | 0.7 | 1.1 | 0.9 | 3.52 | 0 | to 4.9 | 1.2 ± 0.14 | 77 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | F6 | 0.2 U | to 0.21 | 0.24 ± 0.04 | 19 | |

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= APRIL Q3= JULY Q4= OCTOBER

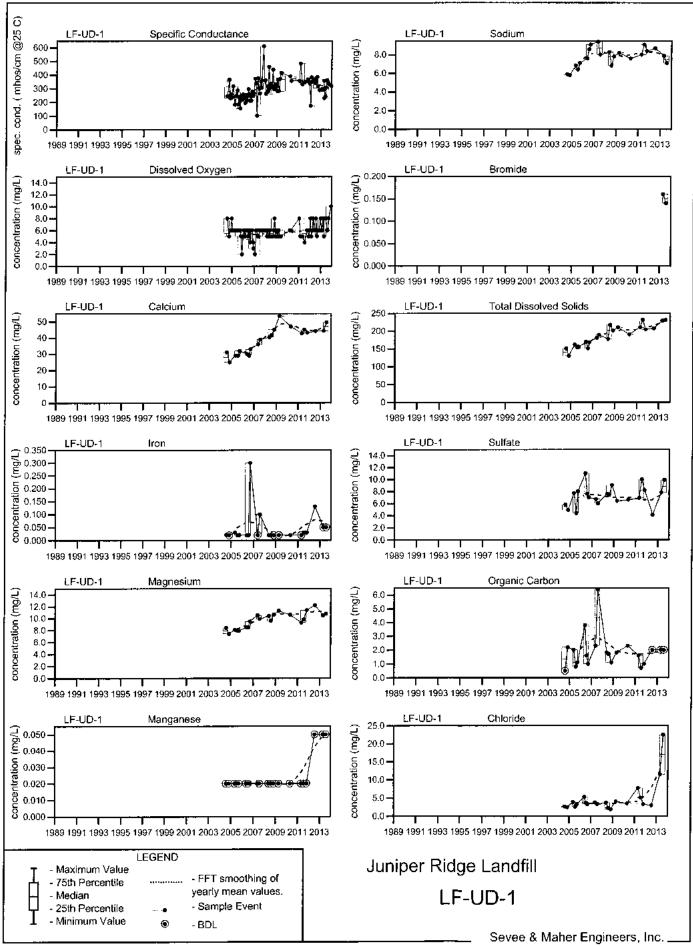
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow. Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed:





Well Description

LF-UD-2 monitors the landfill underdrain from Cell #2 at Manhole #5.

Sampled:

Monthly & 3 Times Annually

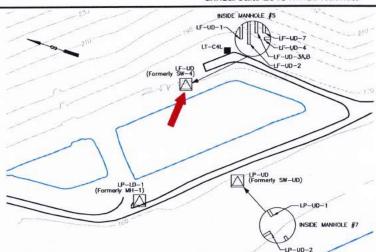
Sampled Since:

07/28/04

Sampling Method:

Grab

Chemical Summary



| | | 2 | 013 | | Historical | | | | |
|---------------------------------------|-----|------------|------------|-------------|------------|---------------|------------------|-------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n |
| Dissolved Oxygen (mg/L) | 6 | 8 | 8 | 8 | 2 | to 9 | 5.7 ± | 0.11 | 90 |
| Bromide (mg/L) | | 0.19 | 0.12 | 0.18 | | No historical | data for Bromide | €. | |
| Specific Conductance (µmhos/cm @25°C) | 277 | 304 | 348 | 404 | 134 | to 709 | 280 ± | 8.2 | 91 |
| pH (Standard Units) | 7.7 | 8.2 | 8.2 | ↑ 8.4 | 6 | to 8.3 | 7.5 ± | 0.06 | 91 |
| Alkalinity (CaCO3) (field) (mg/L) | 85 | 90 | 135 | 150 | 35 | to 350 | 120 ± | 4.5 | 91 |
| Arsenic (mg/L) | | 0.011 | 0.012 | 0.008 | 0.001 U | to 0.014 | $0.0047 \pm$ | 0.000 | 23 |
| Cadmium (mg/L) | | 1 0.0006 U | 1 0.0006 U | ↑ 0.0006 U | 0.0002 U | to 0.0005 | 0.00031 ± | 5E-05 | 21 |
| Calcium (mg/L) | | 36.3 | 40.3 | 50.5 | 20 | to 64.3 | 34 ± | 2 | 23 |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U | to 0.18 | 0.039 ± | 0.008 | 23 |
| Magnesium (mg/L) | | 9.6 | 10.3 | 10.7 | 6.1 | to 12.3 | 8.6 ± | 0.32 | 23 |
| Manganese (mg/L) | | ↑ 0.05 U | 1 0.05 U | ↑ 0.05 U | 0.02 U | to 0.02 | 0.023 ± | 0.002 | 23 |
| Nickel (mg/L) | | 1 0.005 U | 1 0.005 U | ↑ 0.005 U | 0.002 U | to 0.002 | $0.0023 \pm$ | 0.000 | 21 |
| Potassium (mg/L) | | 3 | 2.6 | 3.4 | 1.9 | to 5 | 2.7 ± | 0.14 | 23 |
| Sodium (mg/L) | | 6.8 | 6.2 | 7.3 | 5.2 | to 18.1 | 6.6 ± | 0.56 | 23 |
| Nitrate (N) (mg/L) | | 0.3 U | 0.4 | 0.4 | 0.1 U | to 0.4 | 0.25 ± | 0.02 | 23 |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.04 U | 0.04 U | 0.01 U | to 0.66 | 0.048 ± | 0.03 | 23 |
| Total Dissolved Solids (mg/L) | | 207 | 208 | 228 | 132 | to 290 | 170 ± | 7.7 | 23 |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 12 | 4 U | to 39 | 6.9 ± | 2 | 23 |
| Sulfate (mg/L) | | 4.6 | 4.8 | 9.9 | 2 U | to 17.5 | 4.6 ± | 8.0 | 23 |
| Bicarbonate (CaCO3) (mg/L) | | 134 | 127 | 162 | 92 | to 213 | 130 ± | 5.4 | 23 |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.6 | to 12 | 1.7 ± | 0.48 | 23 |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | 10 U | ↑ 10 U | 3 U | to 7 | 4.1 ± | 0.45 | 23 |
| Chloride (mg/L) | | 18.5 | ↑ 35.2 | 15.3 | 1.7 | to 12.6 | 4.2 ± | 0.58 | 23 |
| Turbidity (field) (NTU) | 4.1 | 1 | 0.63 | 1.48 | 0 | to 8.5 | 1.1 ± | 0.16 | 91 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U | to 0.3 | 0.2 ± | 0.004 | 23 |

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= APRIL Q3= JULY Q4= OCTOBER

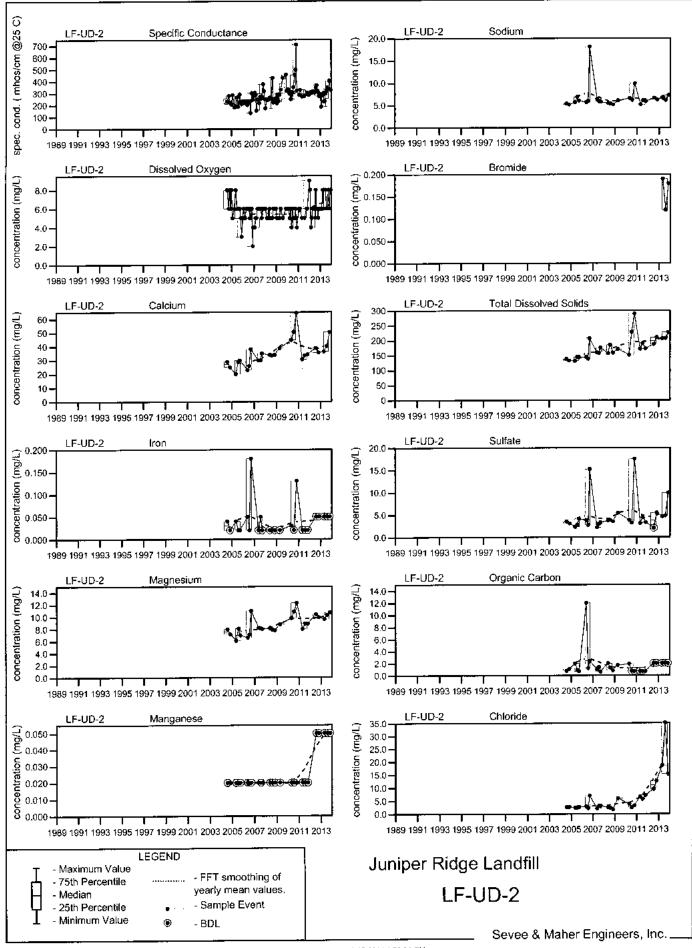
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed:





Well Description

LF-UD-3A, B monitors the landfill underdrains from cell 3A and cell 3B at Manhole #5.

Sampled:

3 Times Annually

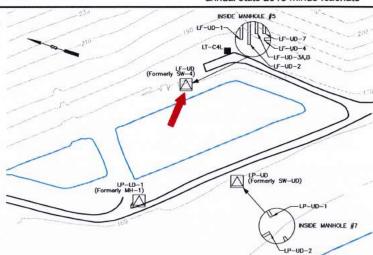
Sampled Since:

July 2011

Sampling Method:

Grab

Chemical Summary



| | 2013 | | | | Historical | | | |
|---------------------------------------|------|----|----|----|------------|---------------|-------------------|-----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean SE | n |
| Dissolved Oxygen (mg/L) | H8 | H8 | Н8 | H8 | 4 | to 8 | 5.6 ± 0.14 | 27 |
| Bromide (mg/L) | | F6 | F6 | F6 | | No historical | data for Bromide. | |
| Specific Conductance (µmhos/cm @25°C) | H8 | H8 | H8 | H8 | 126 | to 565 | 370 ± 19 | 27 |
| pH (Standard Units) | Н8 | H8 | Н8 | Н8 | 6.2 | to 8.4 | 7.6 ± 0.12 | 27 |
| Alkalinity (CaCO3) (field) (mg/L) | H8 | Н8 | Н8 | Н8 | 85 | to 475 | 180 ± 17 | 27 |
| Arsenic (mg/L) | | F6 | F6 | F6 | 0.003 U | to 0.01 | 0.0048 ± 0.00 | 1 5 |
| Cadmium (mg/L) | | F6 | F6 | F6 | 0.0002 U | to 0.0004 | 0.00044 ± 0.00 | 0 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-1 | 0 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 |
| Nickel (mg/L) | | F6 | F6 | F6 | 0.002 U | to 0.003 U | 0.0022 ± 0.00 | 0 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 |
| Nitrate (N) (mg/L) | | F6 | F6 | F6 | 0.1 | to 1.3 | 0.6 ± 0.2 | 5 |
| Phosphate Phosphorus (mg/L) | | F6 | F6 | F6 | 0.01 U | 0.01 | 0.01 ± 7E-1 | 1 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 t | to 4 U | 4 ± 0 | 5 |
| Sulfate (mg/L) | | F6 | F6 | F6 | 8.3 | 16.3 | 13 ± 1.3 | 5 |
| Bicarbonate (CaCO3) (mg/L) | | F6 | F6 | F6 | 123 t | 0 201 | 160 ± 15 | 5 |
| Organic Carbon (mg/L) | | F6 | F6 | F6 | 1.2 | 0 4.8 | 3.4 ± 0.66 | 5 |
| Chemical Oxygen Demand (mg/L) | | F6 | F6 | F6 | 3 U t | o 10 | 5.6 ± 1.6 | 5 |
| Chloride (mg/L) | | F6 | F6 | F6 | 2.4 t | 0 12.6 | 7.8 ± 1.7 | 5 |
| Furbidity (field) (NTU) | Н8 | Н8 | Н8 | Н8 | 0 t | o 5 | 0.9 ± 0.2 | 27 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | F6 | F6 | F6 | 0.2 U t | 0 0.24 | 0.21 ± 0.00 | |

underlined/bold - values exceed a regulatory standard listed below.

↓ indicates a value less than the historical minimum value.

Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

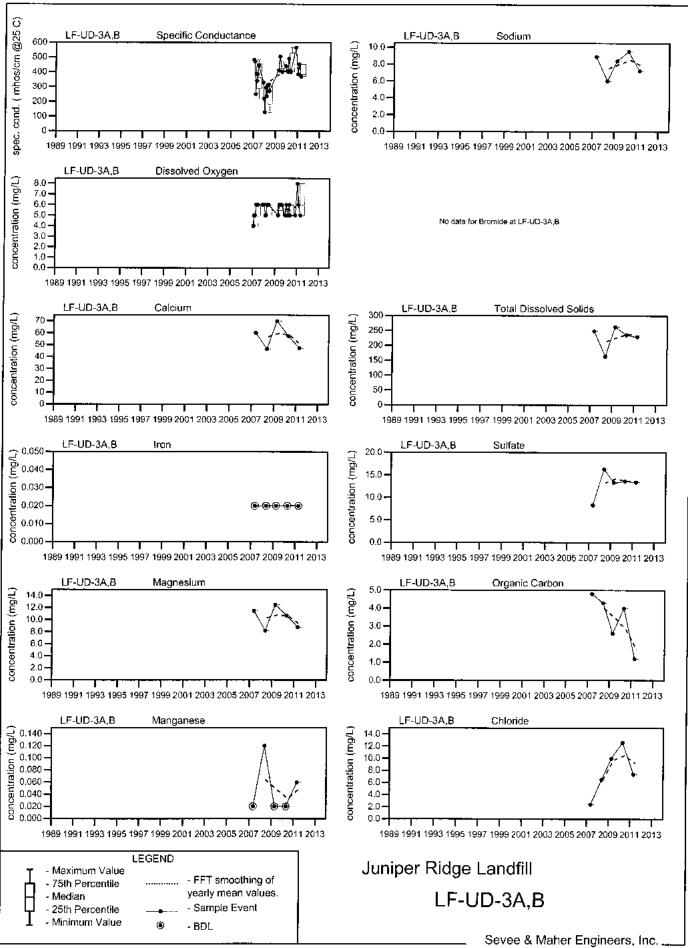
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

Data Group: 199

Printed:



[†] indicates a value greater than the historical maximum value;



Well Description

LF-UD-4 monitors the landfill underdrain from Cell #4 at Manhole #5.

Sampled:

Monthly & 3 Times Annually

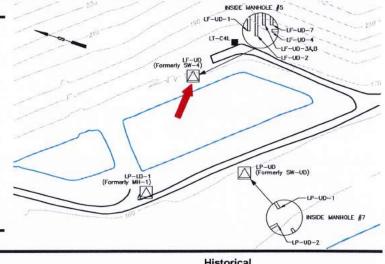
Sampled Since:

03/11/2009

Sampling Method:

Grab

Chemical Summary



| | | 20 | 13 | | Hist | orical | |
|---------------------------------------|------|----------------|------|--------------|----------------------|---------------------|----|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n |
| Dissolved Oxygen (mg/L) | 6 | 8 | 8 | 8 | 4 to 8 | 5.6 ± 0.24 | 19 |
| Bromide (mg/L) | | 0.14 | F6 | 0.1 U | No historical | data for Bromide. | |
| Specific Conductance (µmhos/cm @25°C) | 402 | ↓ 352 | 480 | 440 | 362 to 562 | 430 ± 11 | 19 |
| pH (Standard Units) | 7.3 | 7.3 | 8 | 8.2 | 6.9 to 8.3 | 7.4 ± 0.09 | 19 |
| Alkalinity (CaCO3) (field) (mg/L) | 175 | ↓ 92 | 215 | 210 | 110 to 300 | 170 ± 11 | 19 |
| Arsenic (mg/L) | | 1 0.012 | F6 | 0.009 | 0.002 to 0.011 | 0.0067 ± 0.003 | 3 |
| Cadmium (mg/L) | | 0.0006 U | F6 | 0.0006 U | 0.0002 U to 0.0006 U | 0.00047 ± 0.000 | 3 |
| Calcium (mg/L) | | ↓ 44.8 | F6 | 49.4 | 48.6 to 63.5 | 55 ± 4.5 | 3 |
| Iron (mg/L) | | 0.05 U | F6 | 0.05 U | 0.02 U to 0.05 U | 0.04 ± 0.01 | 3 |
| Magnesium (mg/L) | | ↓ 10.6 | F6 | ↓ 10.9 | 11.1 to 12.1 | 12 ± 0.3 | 3 |
| Manganese (mg/L) | | 0.05 U | F6 | 0.05 U | 0.02 U to 0.05 U | 0.04 ± 0.01 | 3 |
| Nickel (mg/L) | | 0.005 U | F6 | 0.005 U | 0.002 U to 0.005 U | 0.004 ± 0.001 | 3 |
| Potassium (mg/L) | | ↓ 3.7 | F6 | ↓ 3.4 | 3.8 to 5.8 | 4.8 ± 0.58 | 3 |
| Sodium (mg/L) | | ↓ 8.2 | F6 | ↓ 7.4 | 8.4 to 10.6 | 9.7 ± 0.68 | 3 |
| Nitrate (N) (mg/L) | | 0.3 U | F6 | 0.4 | 0.3 U to 0.6 | 0.4 ± 0.1 | 3 |
| Phosphate Phosphorus (mg/L) | | 0.04 U | F6 | 0.04 U | 0.01 U to 0.04 U | 0.03 ± 0.01 | 3 |
| Total Dissolved Solids (mg/L) | | 235 | F6 | 234 | 206 to 263 | 240 ± 17 | 3 |
| Total Suspended Solids (mg/L) | | 4 U | F6 | 4 U | 4 U to 5 | 4.3 ± 0.33 | 3 |
| Sulfate (mg/L) | | 8.8 | F6 | 11.1 | 2 U to 14.8 | 8.2 ± 3.7 | 3 |
| Bicarbonate (CaCO3) (mg/L) | | 166 | F6 | 168 | 136 to 207 | 170 ± 21 | 3 |
| Organic Carbon (mg/L) | | 2 U | F6 | 2 U | 2 U to 5.1 | 3 ± 1 | 3 |
| Chemical Oxygen Demand (mg/L) | | ↑ 10 U | F6 | ↑ 10 U | 6 to 6 | 8.7 ± 1.3 | 3 |
| Chloride (mg/L) | | 11.8 | F6 | 13.2 | 3.1 to 9 | 6.7 ± 1.8 | 3 |
| Turbidity (field) (NTU) | 0.43 | 1.1 | 0.41 | 1.67 | 0 to 9.1 | 1.1 ± 0.47 | 19 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | F6 | 0.2 U | 0.2 U to 0.2 U | 0.2 ± 0 | 3 |

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= APRIL Q3= JULY Q4= OCTOBER

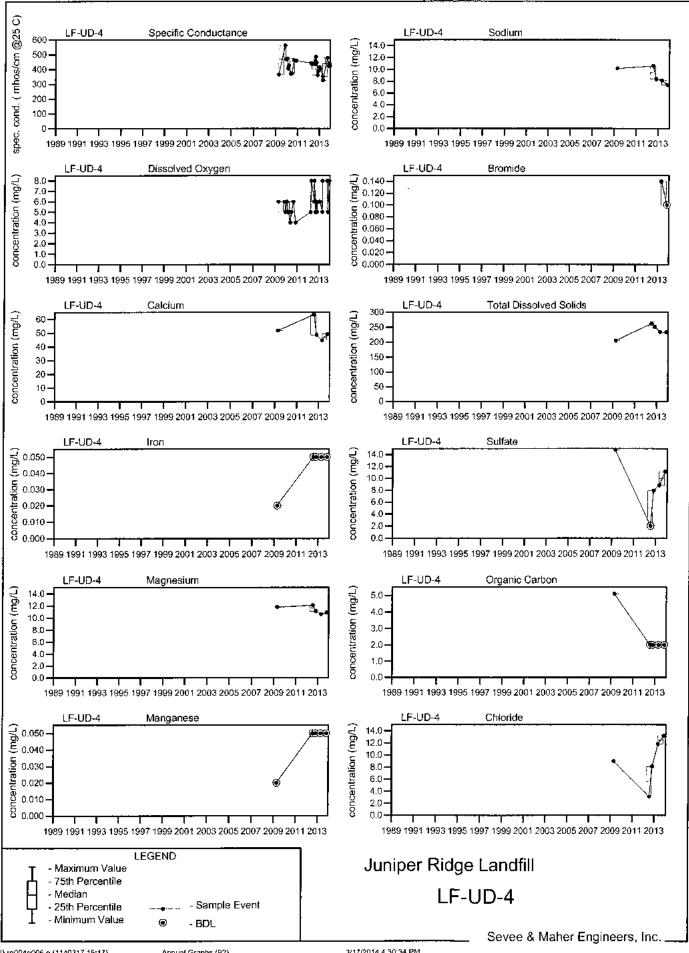
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed:





MW-304A

MW11-207R

P-206A

Juniper Ridge Landfill

Well Description

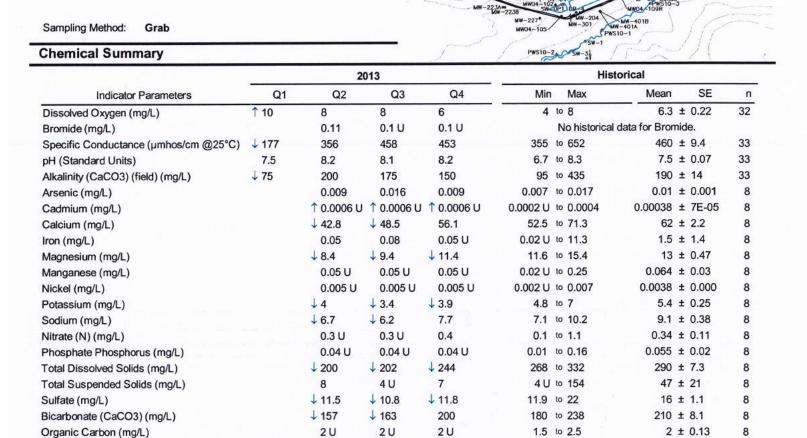
LF-UD-5and6 monitors the landfill underdrain from Cell #5 and Cell #6(composite). This underdrain pipe is located south of MW-216BR.

Sampled:

3 Times Annually and Monthly

Sampled Since:

July 2011



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.

3 U to 5

0.2 U to 3.2

2.5 to 6.2

0 to 30.88

Comments

Chloride (mg/L) Turbidity (field) (NTU)

Chemical Oxygen Demand (mg/L)

Tannin & Lignins (Tannic Acid) (mg/L)

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

10 U

3.4

1.7

0.2 U

10 U

3.3

8.0

0.2 U

10 U

3.6

2.6

0.2 U

9.79

Data Group: 199

Printed:

3/18/2014 13:05



6 ± 1.2

 3.4 ± 0.42

5.2 ± 1.2

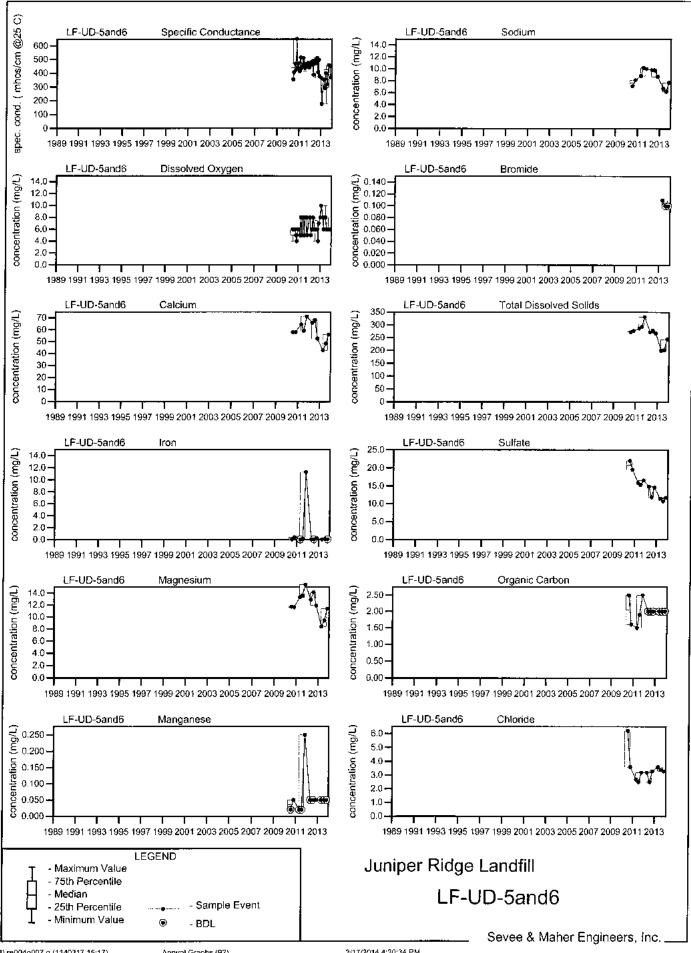
 0.58 ± 0.38

8

8

33

8



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

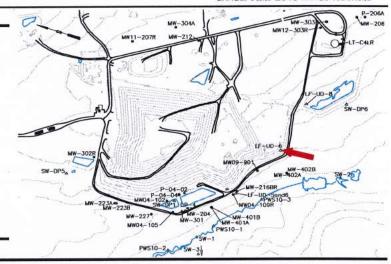
Sampled Since:

02/03/2011

Sampling Method:

Grab

Chemical Summary



| | | 20 | 013 | | Historical | | | | |
|---------------------------------------|--------------|--------------|---------------|---------------|--------------------|--------------------|----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | | |
| Dissolved Oxygen (mg/L) | 6 | 8 | 6 | 6 | 4 to 8 | 5.4 ± 0.19 | 25 | | |
| Bromide (mg/L) | | 0.1 | 0.1 U | 0.12 | No historical | data for Bromide. | | | |
| Specific Conductance (µmhos/cm @25°C) | 704 | 572 | ↑ 919 | ↑ 913 | 431 to 773 | 610 ± 17 | 26 | | |
| pH (Standard Units) | ↑ 7.6 | ↑ 7.7 | 7.4 | ↑ 7.7 | 6.9 to 7.5 | 7.2 ± 0.03 | 25 | | |
| Alkalinity (CaCO3) (field) (mg/L) | 250 | 225 | 275 | 300 | 88 to 490 | 210 ± 17 | 26 | | |
| Arsenic (mg/L) | | 0.015 | 0.023 | 0.019 | 0.003 to 0.025 | 0.012 ± 0.004 | 6 | | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U to 0.0007 | 0.00055 ± 7E-05 | 6 | | |
| Calcium (mg/L) | | ↓ 62 | 86.3 | 85.6 | 75.7 to 96.4 | 86 ± 3.2 | 6 | | |
| ron (mg/L) | | 0.05 U | 0.05 U | 0.06 | 0.02 U to 6.28 | 1.1 ± 1 | 6 | | |
| Magnesium (mg/L) | | ↓ 14.7 | 1 24.2 | ↑ 25.4 | 15.9 to 23.7 | 19 ± 1.3 | 6 | | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U to 0.17 | 0.06 ± 0.02 | 6 | | |
| lickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.013 | 0.0062 ± 0.002 | 6 | | |
| Potassium (mg/L) | | ↓ 3.3 | ↓ 4.3 | ↓ 4.4 | 4.7 to 5.9 | 5.2 ± 0.16 | 6 | | |
| odium (mg/L) | | 39.7 | ↑ 74.3 | ↑ 73.6 | 7.9 to 64.1 | 21 ± 9 | 6 | | |
| litrate (N) (mg/L) | | 0.6 | 1 | ↑ 1.2 | 0.3 U to 1 | 0.55 ± 0.12 | 6 | | |
| hosphate Phosphorus (mg/L) | | 0.05 | 0.04 U | 0.04 U | 0.01 to 0.17 | 0.053 ± 0.02 | 6 | | |
| otal Dissolved Solids (mg/L) | | 357 | 554 | 552 | 309 to 563 | 390 ± 37 | 6 | | |
| otal Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U to 102 | 20 ± 16 | 6 | | |
| Sulfate (mg/L) | | 84.9 | 143 | 116 | 2 U to 107 | 32 ± 16 | 6 | | |
| sicarbonate (CaCO3) (mg/L) | | ↓ 222 | 338 | 343 | 263 to 359 | 300 ± 15 | 6 | | |
| organic Carbon (mg/L) | | 2 U | 3.3 | 3.1 | 2 U to 3.6 | 3.1 ± 0.26 | 6 | | |
| hemical Oxygen Demand (mg/L) | | 10 U | 10 U | ↑ 14 | 3 U to 10 | 8 ± 1.1 | 6 | | |
| chloride (mg/L) | | 8.9 | 18.2 | 14.1 | 2.1 to 11.6 | 4.1 ± 1.5 | 6 | | |
| urbidity (field) (NTU) | 5.3 | 5 | 10.3 | 2.2 | 0.3 to 27.87 | 5.8 ± 1.6 | 26 | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to 0.33 | 0.22 ± 0.02 | 6 | | |

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= APRIL Q3= JULY Q4= OCTOBER

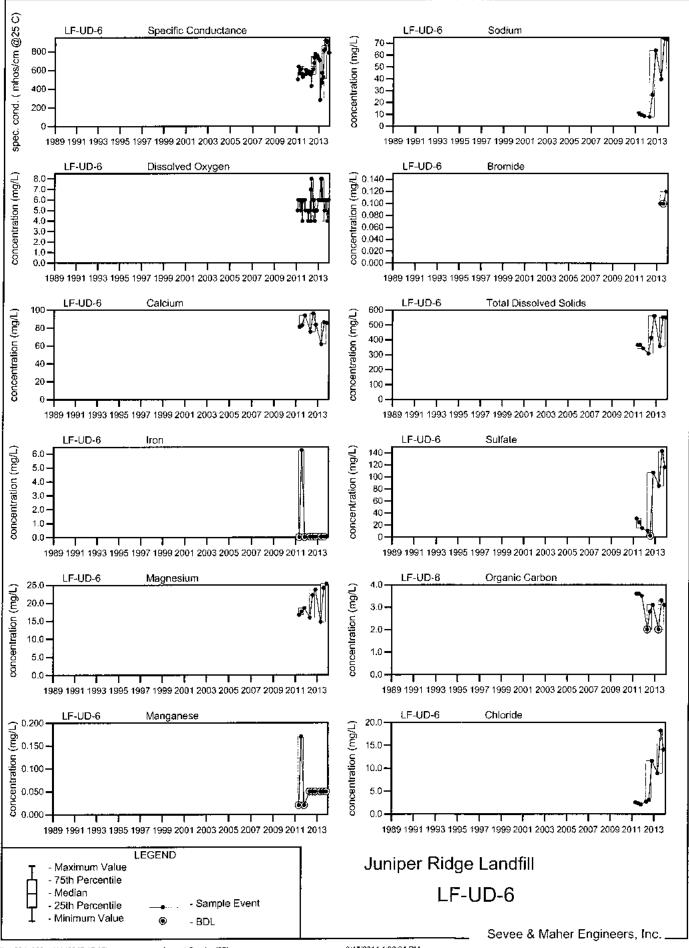
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed:





Well Description

LF-UD-7 monitors the landfill underdrain from Cell #7 and Manhole #5.

Sampled:

Monthly and 3 Times Annually

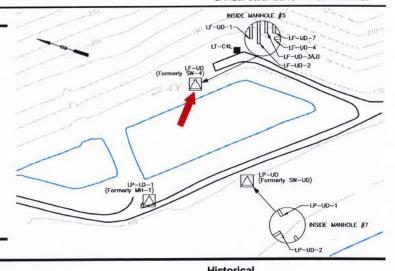
Sampled Since:

11/30/2011

Sampling Method:

Grab

Chemical Summary



| | | 2 | 013 | | Historical | | | |
|---------------------------------------|----|----|-----|----|--|-----|--|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max Mean SE | n | | |
| Dissolved Oxygen (mg/L) | H8 | Н8 | H8 | H8 | No historical data for Dissolved Oxygen. | | | |
| Bromide (mg/L) | | F6 | F6 | F6 | No historical data for Bromide. | | | |
| Specific Conductance (µmhos/cm @25°C) | H8 | H8 | H8 | Н8 | No historical data for Specific Conductance. | | | |
| pH (Standard Units) | H8 | Н8 | H8 | H8 | No historical data for pH. | | | |
| Alkalinity (CaCO3) (field) (mg/L) | H8 | H8 | H8 | H8 | No historical data for Alkalinity (CaCO3) (field). | | | |
| Arsenic (mg/L) | | F6 | F6 | F6 | No historical data for Arsenic. | | | |
| Cadmium (mg/L) | | F6 | F6 | F6 | No historical data for Cadmium. | | | |
| 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. | | | |
| Nickel (mg/L) | | F6 | F6 | F6 | No historical data for Nickel. | | | |
| Potassium (mg/L) | | F6 | F6 | F6 | No historical data for Potassium. | | | |
| Sodium (mg/L) | | F6 | F6 | F6 | No historical data for Sodium. | | | |
| Nitrate (N) (mg/L) | | F6 | F6 | F6 | No historical data for Nitrate (N). | | | |
| Phosphate Phosphorus (mg/L) | | F6 | F6 | F6 | No historical data for Phosphate Phosphorus. | | | |
| 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 (CaCO3) (mg/L) | | F6 | F6 | F6 | No historical data for Bicarbonate (CaCO3). | | | |
| Organic Carbon (mg/L) | | F6 | F6 | F6 | No historical data for Organic Carbon. | | | |
| Chemical Oxygen Demand (mg/L) | | F6 | F6 | F6 | No historical data for Chemical Oxygen Demand | | | |
| Chloride (mg/L) | | F6 | F6 | F6 | No historical data for Chloride. | | | |
| Turbidity (field) (NTU) | Н8 | Н8 | Н8 | H8 | No historical data for Turbidity (field). | | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | F6 | F6 | F6 | No historical data for Tannin & Lignins (Tannic Ac | d). | | |

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= APRIL Q3= JULY Q4= OCTOBER

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken. H8=No flow from pipe. See LF-COMP for readings. F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed:



MW-304A

MW11-207R

Well Description

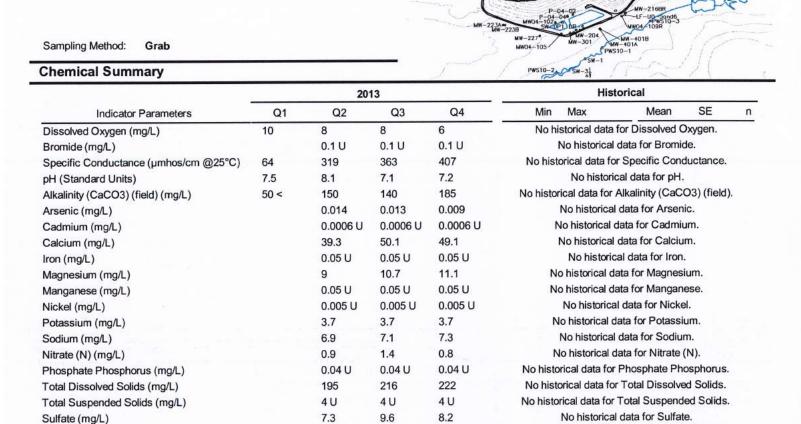
LF-UD-8 monitors the landfill underdrain from Cell #8. This underdrain pipe is located along the southern perimeter of the landfill.

Sampled:

3 Times Annually

Sampled Since:

4/23/2013



172

2 U

10 U

4

0.8

0.2 U

152 2 U

10 U

3.5

1.2

0.2 U

180

211

10 U

3.5

0.64

0.2 U

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

Bicarbonate (CaCO3) (mg/L)

Chemical Oxygen Demand (mg/L)

Tannin & Lignins (Tannic Acid) (mg/L)

Organic Carbon (mg/L)

Turbidity (field) (NTU)

Chloride (mg/L)

Q2= APRIL Q3= JULY Q4= OCTOBER

J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection. U= sample below PQL or MDL

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

24.35

Data Group: 199

Printed:

3/20/2014 10:08



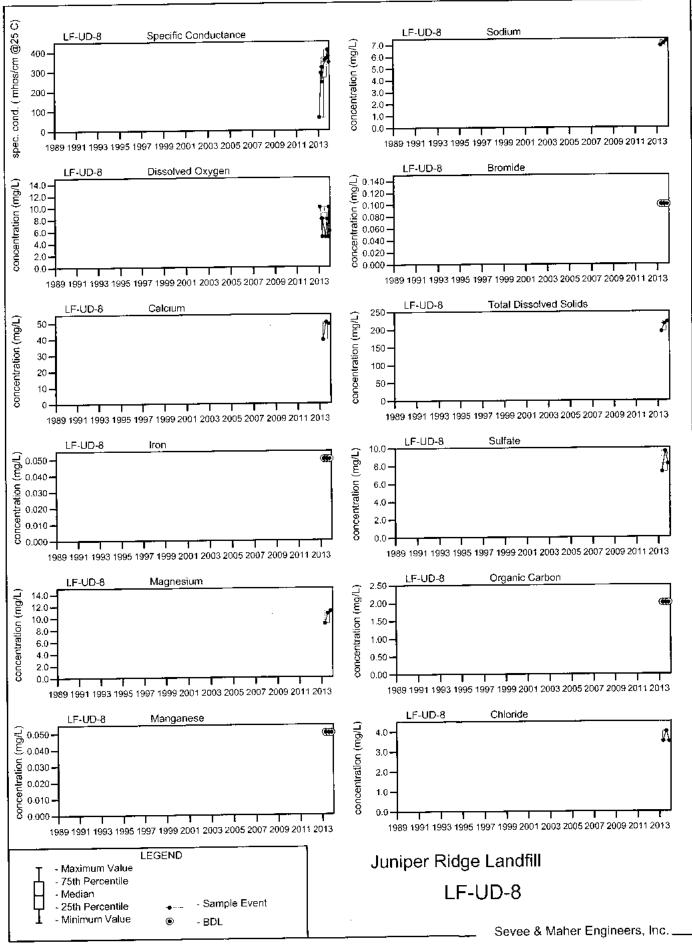
No historical data for Bicarbonate (CaCO3).

No historical data for Organic Carbon.

No historical data for Chemical Oxygen Demand.

No historical data for Chloride.

No historical data for Turbidity (field). No historical data for Tannin & Lignins (Tannic Acid).



Well Description Manhole #7 composite sample Sampled: See comments below Sampled Since: 10/27/04 Sampling Method: Grab Chemical Summary

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

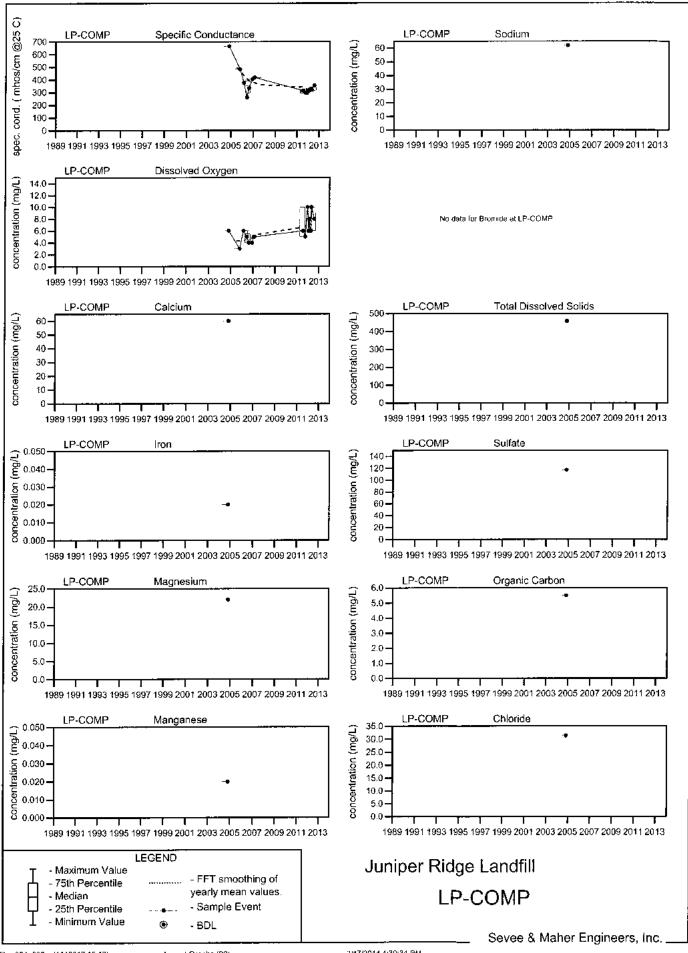
This location is monitored monthly for field parameters only when the water level is higher than the LP sample location pipes in Manhole #7.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen l=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow.

Data Group: 199

Printed: 3/18/2014 13:05





LF-UD-3AB

-LP-UD-2

INSIDE MANHOLE #5

Well Description

LP-LD-1 is located at Manhole #1 and monitors the leak detection layer beneath the leachate pond.

Sampled:

Removed from program in 2013.

Sampled Since:

07/28/04

Sampling Method:

Grab

Chemical Summary

| | | 2 | 2013 | | His | listorical | | |
|---------------------------------------|----|-----|------|----|------------|----------------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | |
| Dissolved Oxygen (mg/L) | | 6 | 3 | | 3 to 8 | 5.2 ± 0.11 | 75 | |
| Specific Conductance (µmhos/cm @25°C) | | 238 | 191 | | 56 to 944 | 370 ± 25 | 75 | |
| pH (Standard Units) | | 7.9 | 7.3 | | 5.8 to 8.6 | 7.3 ± 0.06 | 75 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 85 | 65 | | 25 to 425 | 130 ± 10 | 75 | |
| Turbidity (field) (NTU) | | 1.3 | 1.3 | | 0 to 25 | 2.8 ± 0.48 | 75 | |

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= APRIL Q3= JULY Q4= OCTOBER

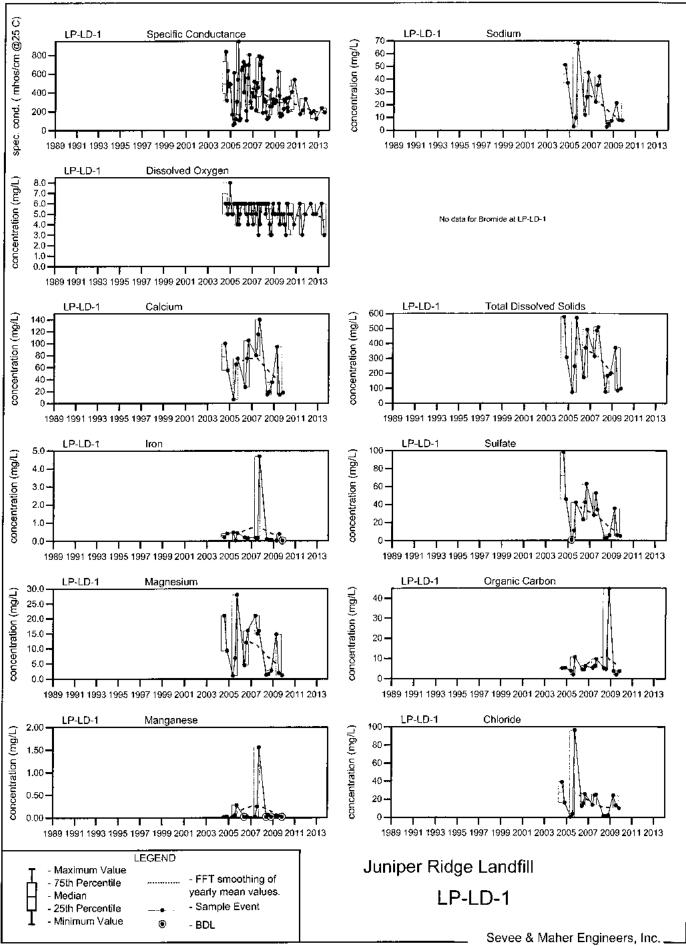
This location is monitored monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen I=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow. H9=No flow from pipe, See LP-COMP for readings.

Data Group: 199

Printed: 3/18/2014 13:05





Well Description

LP-UD-1 is located at Manhole #7 and monitors the leachate underdrain from the southern end of the leachate pond.

Sampled:

Monthly and 3 Times Annually

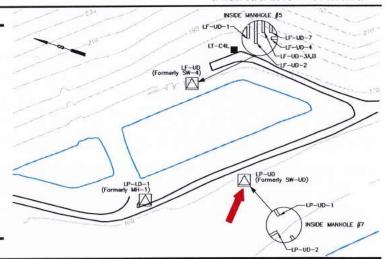
Sampled Since:

07/28/04

Sampling Method:

Grab

Chemical Summary



| | | 2 | 013 | | Historical | | | |
|---------------------------------------|----|----|-----|----|-----------------------------|--------------------|---------|-------|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean | SE | n |
| Dissolved Oxygen (mg/L) | F6 | F6 | F6 | F6 | 5 to 5 | 5 ± 0 | | 1 |
| Bromide (mg/L) | | F6 | F6 | F6 | No historical d | ata for Bromide. | | |
| Specific Conductance (µmhos/cm @25°C) | F6 | F6 | F6 | F6 | 517 to 517 | 520 ± 0 | | _ 1 |
| pH (Standard Units) | F6 | F6 | F6 | F6 | 6.8 to 6.8 | 6.8 ± 0 | | 1 |
| Alkalinity (CaCO3) (field) (mg/L) | F6 | F6 | F6 | F6 | 125 to 125 | 130 ± 0 | | 1 |
| Arsenic (mg/L) | | F6 | F6 | F6 | No historical of | lata for Arsenic. | | |
| Cadmium (mg/L) | | F6 | F6 | F6 | No historical da | ata for Cadmium. | | |
| Calcium (mg/L) | | F6 | F6 | F6 | No historical d | ata for Calcium. | | |
| Iron (mg/L) | | F6 | F6 | F6 | No historica | l data for Iron. | | |
| Magnesium (mg/L) | | F6 | F6 | F6 | No historical dat | a for Magnesium | ٦. | |
| Manganese (mg/L) | | F6 | F6 | F6 | No historical dat | a for Manganese | э. | |
| Nickel (mg/L) | | F6 | F6 | F6 | No historical | data for Nickel. | | |
| Potassium (mg/L) | | F6 | F6 | F6 | No historical da | ta for Potassium | | |
| Sodium (mg/L) | | F6 | F6 | F6 | No historical d | lata for Sodium. | | |
| Nitrate (N) (mg/L) | | F6 | F6 | F6 | No historical da | ta for Nitrate (N) | | |
| Phosphate Phosphorus (mg/L) | | F6 | F6 | F6 | No historical data for F | hosphate Phosp | ohorus. | |
| Total Dissolved Solids (mg/L) | | F6 | F6 | F6 | No historical data for | Total Dissolved S | Solids. | |
| Total Suspended Solids (mg/L) | | F6 | F6 | F6 | No historical data for T | otal Suspended | Solids. | |
| Sulfate (mg/L) | | F6 | F6 | F6 | No historical of | data for Sulfate. | | |
| Bicarbonate (CaCO3) (mg/L) | | F6 | F6 | F6 | No historical data for | Bicarbonate (Ca | CO3). | |
| Organic Carbon (mg/L) | | F6 | F6 | F6 | No historical data f | or Organic Carb | on. | |
| Chemical Oxygen Demand (mg/L) | | F6 | F6 | F6 | No historical data for Ch | emical Oxygen [| Deman | d. |
| Chloride (mg/L) | | F6 | F6 | F6 | No historical d | ata for Chloride. | | |
| Turbidity (field) (NTU) | F6 | F6 | F6 | F6 | 0 to 0 | 0 ± 0 | | 1 |
| Tannin & Lignins (Tannic Acid) (mg/L) | | F6 | F6 | F6 | No historical data for Tann | in & Lignins (Ta | nnic A | cid). |

underlined/bold - values exceed a regulatory standard listed below.

indicates a value less than the historical minimum value.

Comments

Q2= APRIL Q3= JULY Q4= OCTOBER

This location is monitored triannually for field and lab parameters and monthly for field parameters only.

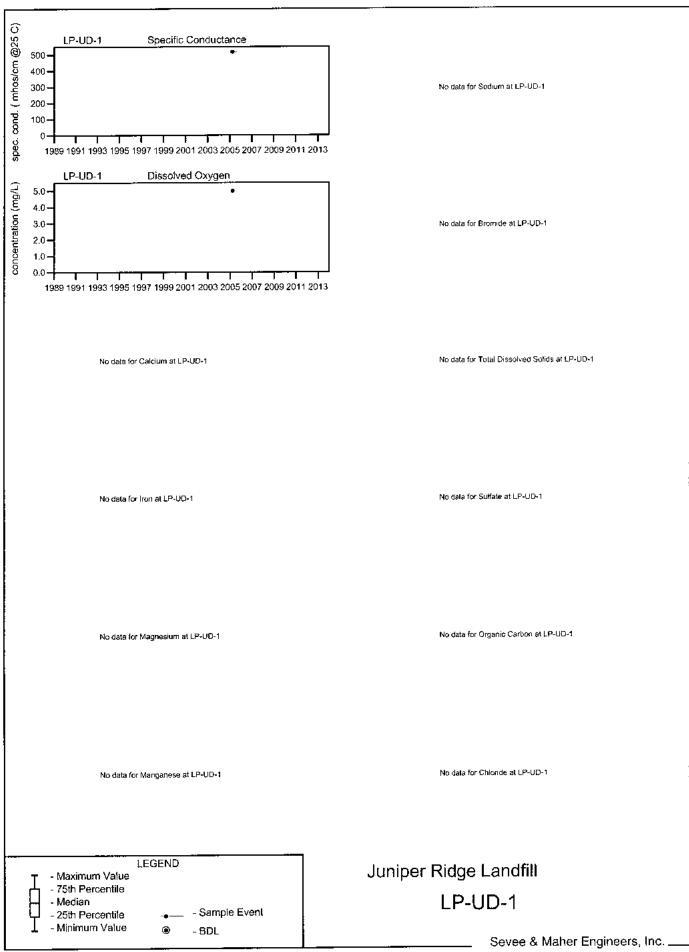
U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen l=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow. H9=No flow from pipe, See LP-COMP for readings.

Data Group: 199

Printed:



[↑] indicates a value greater than the historical maximum value;



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 leachate pond.

Sampled:

Monthly and 3 Times Annually

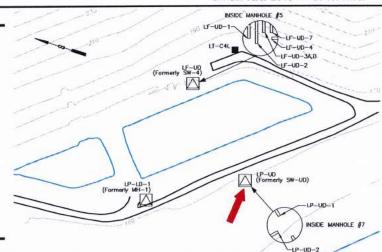
Sampled Since:

07/28/04

Sampling Method:

Grab

Chemical Summary



| | 2013 | | | | Historical | | | |
|---------------------------------------|------|----------|----------|----------|--------------------|---------------------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean SE | n | |
| Dissolved Oxygen (mg/L) | 6 | 6 | 8 | 8 | 1 to 10 | 5.7 ± 0.12 | 89 | |
| Bromide (mg/L) | | 0.11 | 0.1 U | 0.11 | No historica | I data for Bromide. | | |
| Specific Conductance (µmhos/cm @25°C) | 289 | 299 | 337 | 361 | 110 to 834 | 350 ± 11 | 89 | |
| pH (Standard Units) | 7.7 | 7.9 | 7.2 | 7.6 | 5.9 to 8 | 7.1 ± 0.04 | 89 | |
| Alkalinity (CaCO3) (field) (mg/L) | 130 | 85 | 150 | 125 | 50 to 350 | 140 ± 5.4 | 88 | |
| Arsenic (mg/L) | | 0.011 | 0.011 | 0.01 | 0.001 U to 0.012 | 0.0039 ± 0.000 | 26 | |
| Cadmium (mg/L) | | 0.0006 U | 0.0006 U | 0.0006 U | 0.0002 U to 0.0016 | 0.00038 ± 7E-05 | 24 | |
| Calcium (mg/L) | | 33.9 | 37.1 | 36.4 | 28.8 to 60 | 37 ± 1.5 | 26 | |
| Iron (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U to 2.86 | 0.18 ± 0.11 | 26 | |
| Magnesium (mg/L) | | 10.4 | 10.8 | 11.4 | 7.7 to 21 | 11 ± 0.51 | 26 | |
| Manganese (mg/L) | | 0.05 U | 0.05 U | 0.05 U | 0.02 U to 0.36 | 0.04 ± 0.01 | 26 | |
| Nickel (mg/L) | | 0.005 U | 0.005 U | 0.005 U | 0.002 U to 0.007 | 0.0028 ± 0.000 | 24 | |
| Potassium (mg/L) | | 2.3 | 2.5 | ↓ 2.2 | 2.3 to 25 | 4.4 ± 0.88 | 26 | |
| Sodium (mg/L) | | 8 | 8.1 | 7.9 | 7 to 58 | 14 ± 2 | 26 | |
| Nitrate (N) (mg/L) | | 0.4 | 0.6 | 0.5 | 0.1 to 2.3 | 0.39 ± 0.08 | 26 | |
| Phosphate Phosphorus (mg/L) | | 0.04 U | 0.04 U | 0.04 U | 0.01 U to 0.11 | 0.022 ± 0.005 | 26 | |
| Total Dissolved Solids (mg/L) | | 185 | 182 | 194 | 151 to 455 | 220 ± 12 | 26 | |
| Total Suspended Solids (mg/L) | | 4 U | 4 U | 4 U | 4 U to 73 | 6.9 ± 2.7 | 26 | |
| Sulfate (mg/L) | | 12.2 | 12.1 | 10.4 | 2.7 to 116 | 19 ± 4.4 | 26 | |
| Bicarbonate (CaCO3) (mg/L) | | 137 | 136 | 153 | 90 to 228 | 140 ± 5 | 26 | |
| Organic Carbon (mg/L) | | 2 U | 2 U | 2 U | 0.7 U to 6.3 | 1.9 ± 0.24 | 26 | |
| Chemical Oxygen Demand (mg/L) | | 10 U | 10 U | 10 U | 3 U to 18 | 5.8 ± 0.8 | 26 | |
| Chloride (mg/L) | | 6.7 | 7.2 | 6.2 | 2.3 to 31.1 | 9.6 ± 1.1 | 26 | |
| Turbidity (field) (NTU) | 0.35 | 1 | 1.1 | 0.62 | 0 to 60 | 1.9 ± 0.68 | 89 | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | 0.2 U | 0.2 U | 0.2 U | 0.2 U to 0.29 | 0.2 ± 0.004 | 26 | |

<u>underlined/bold</u> - 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= APRIL Q3= JULY Q4= OCTOBER

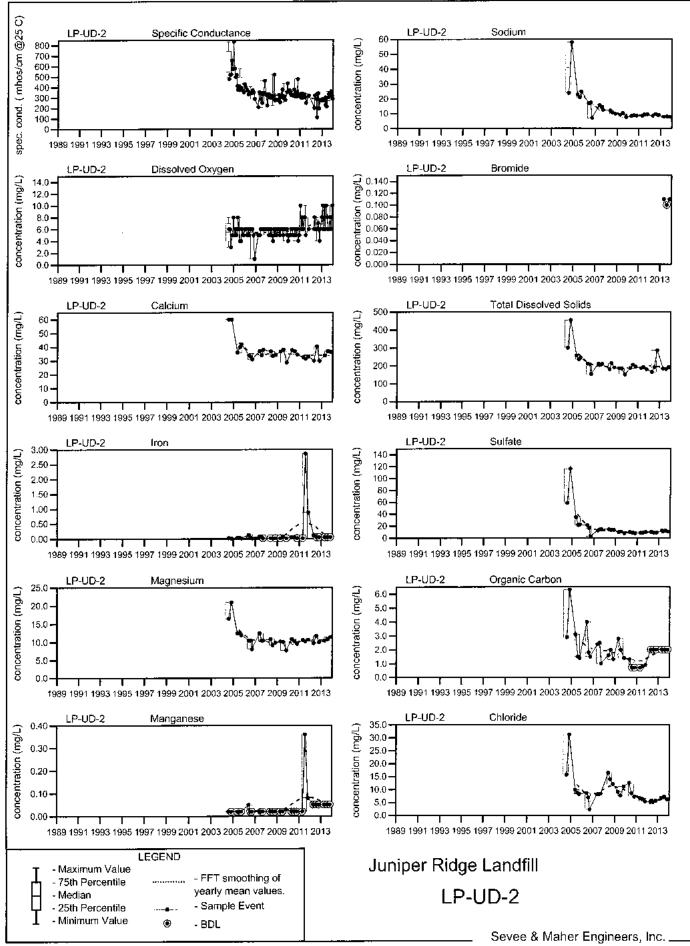
This location is monitored triannually for field and lab parameters and monthly for field parameters only.

U= sample below PQL or MDL J= estimated quantity D= location dry F= location frozen l=insufficient water for sample collection A=sample location could not be accessed H2= water level higher than pipes. See LF-COMP for readings. F6= No flow.Sample not taken F-12= Pipe under water, no sample taken. G7= Field measurements elevated due to recent cleaning of underdrain pipe. H6= Pipe under water, could not measure flow. H9=No flow from pipe, See LP-COMP for readings.

Data Group: 199

Printed:





Well Description

Leachate collection location for cells #1, #2, #3A, #3B, #4 and #7.

Sampled:

Replaced by leach. stor. tank (LT-C4LR) 2013.

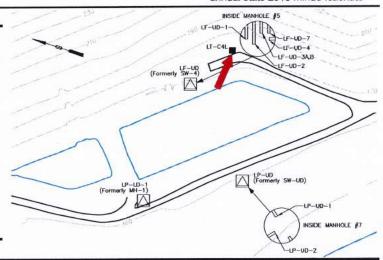
Sampled Since:

4/15/2009

Sampling Method:

Grab

Chemical Summary



| | 2013 | | | | | Historical | | | | |
|---------------------------------------|------|--------|----|----|--------|------------|--------|---------|----|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min | Max | Mean | SE | n | |
| Dissolved Oxygen (mg/L) | | 1 | | | 1 | to 8 | 2.9 | ± 0.88 | 7 | |
| Bromide (mg/L) | | 73.3 | | | 23.3 | to 188 | 84 | ± 38 | 4 | |
| Specific Conductance (µmhos/cm @25°C) | | 18590 | | | 11470 | to 30700 | 23000 | ± 1700 | 12 | |
| pH (Standard Units) | | 7.1 | | | 6.7 | to 7.6 | 7.1 | ± 0.07 | 12 | |
| Alkalinity (CaCO3) (field) (mg/L) | | 1500 | | | 688 | to 1813 | 1300 | ± 200 | 6 | |
| Arsenic (mg/L) | | 0.102 | | | 0.059 | to 0.177 | 0.1 | ± 0.009 | 12 | |
| Cadmium (mg/L) | | 0.0013 | | | 0.0009 | to 0.012 | 0.0043 | ± 0.001 | 12 | |
| Calcium (mg/L) | | 474 | | | 305 | to 1759 | 750 | ± 130 | 12 | |
| Iron (mg/L) | | 30.3 | | | 9.61 | to 82 | 33 | ± 6.6 | 12 | |
| Magnesium (mg/L) | | 301 | | | 179 | to 514 | 360 | ± 31 | 12 | |
| Manganese (mg/L) | | 8.03 | | | 1.8 | to 26 | 7.7 | ± 2.5 | 12 | |
| Nickel (mg/L) | | 0.079 | | | 0.03 | to 0.153 | 0.089 | ± 0.01 | 12 | |
| Potassium (mg/L) | 18 | 1237 | | | 714 | to 1982 | 1500 | ± 120 | 12 | |
| Sodium (mg/L) | | 1844 | | | 1024 | to 2612 | 2100 | ± 140 | 12 | |
| Total Kjeldahl Nitrogen (mg/L) | | 697 | | | 290 | to 910 | 670 | ± 55 | 12 | |
| Nitrate (N) (mg/L) | | ↑ 30 U | | | 5 U | to 17.9 | 14 | ± 2.3 | 12 | |
| Total Dissolved Solids (mg/L) | | 10700 | | | 6080 | to 19816 | 14000 | ± 1200 | 12 | |
| Total Suspended Solids (mg/L) | | 34 | | | 5 | to 230 | 73 | ± 19 | 12 | |
| Sulfate (mg/L) | | 200 U | | | 50.2 | to 342 | 130 | ± 24 | 12 | |
| Bicarbonate (CaCO3) (mg/L) | | 2950 | | | 1370 | to 3630 | 2700 | ± 210 | 12 | |
| Organic Carbon (mg/L) | | 935 | | | 182 | to 2120 | 890 | ± 220 | 12 | |
| Biochemical Oxygen Demand (mg/L) | | 1750 | | | 39 | to 4050 | 1300 | ± 420 | 12 | |
| Chemical Oxygen Demand (mg/L) | | 3280 | | | 959 | to 6700 | 3400 | ± 590 | 12 | |
| Chloride (mg/L) | | 5610 | | | 2560 | to 21500 | 12000 | ± 1900 | 12 | |
| Turbidity (field) (NTU) | | 18.9 | | | 6.1 | to 1100 | 220 | ± 120 | 9 | |

<u>underlined/bold</u> - 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

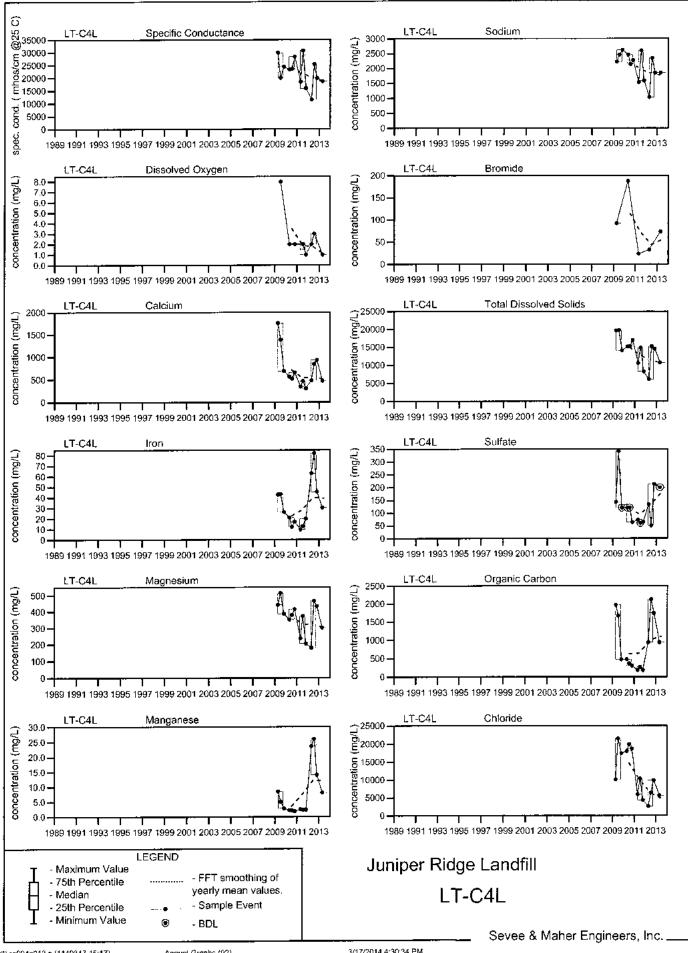
Q2= APRIL

Data Group: 199

Printed:

3/20/2014 10:08





Well Description

Leachate collection location at leachate storage tank.

Sampled:

3 Times Annually

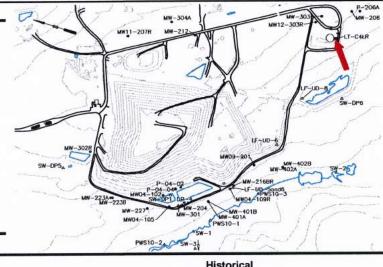
Sampled Since:

07/30/2013

Sampling Method:

Grab

Chemical Summary



| | | 2 | 013 | | Historical | | | | |
|---------------------------------------|----|----|--------|-------|------------------------|----------------------|--------------|------|--|
| Indicator Parameters | Q1 | Q2 | Q3 | Q4 | Min Max | Mean | SE | n | |
| Dissolved Oxygen (mg/L) | | | D2 | D2 | No historical d | ata for Dissolved | Oxygen. | | |
| Bromide (mg/L) | | | 38.8 | 95 | No histori | cal data for Bromi | ide. | | |
| Specific Conductance (µmhos/cm @25°C) | | | 23400 | 24100 | No historical data | a for Specific Con | ductance. | | |
| pH (Standard Units) | | | 6.7 | 6.8 | No his | torical data for pH | | | |
| Alkalinity (CaCO3) (field) (mg/L) | | | D3 | D3 | No historical data | for Alkalinity (CaC | O3) (field). | | |
| Arsenic (mg/L) | | | 0.137 | 0.16 | No histor | ical data for Arser | nic. | | |
| Cadmium (mg/L) | | | 0.0146 | 0.004 | No historio | cal data for Cadmi | ium. | | |
| Calcium (mg/L) | | | 958 | 860 | No histori | cal data for Calciu | um. | | |
| Iron (mg/L) | | | 179 | 100 | No hist | orical data for Iron | 1. | | |
| Magnesium (mg/L) | | | 433 | 532 | No historica | al data for Magnes | sium. | | |
| Manganese (mg/L) | | | 23.4 | 16.7 | No historica | al data for Mangar | nese. | | |
| Nickel (mg/L) | | | 0.304 | 0.23 | No histo | rical data for Nick | el. | | |
| Potassium (mg/L) | | | 1234 | 1622 | No historic | al data for Potass | ium. | | |
| Sodium (mg/L) | | | 1910 | 2290 | No histor | ical data for Sodiu | ım. | | |
| Total Kjeldahl Nitrogen (mg/L) | | | 742 | 880 | No historical data | for Total Kjeldah | l Nitrogen. | | |
| Nitrate (N) (mg/L) | | | 1210 | 5 | No historio | al data for Nitrate | (N). | | |
| Phosphate Phosphorus (mg/L) | | | 1.39 | 0.79 | No historical data | for Phosphate Ph | nosphorus. | | |
| Total Dissolved Solids (mg/L) | | | 15050 | 17400 | No historical data | a for Total Dissolv | ed Solids. | | |
| Total Suspended Solids (mg/L) | | | 625 | 140 | No historical data | for Total Suspend | ded Solids. | | |
| Sulfate (mg/L) | | | 400 U | 10.4 | No histor | rical data for Sulfa | ite. | | |
| Bicarbonate (CaCO3) (mg/L) | | | 3700 | 3980 | No historical dat | a for Bicarbonate | (CaCO3). | | |
| Organic Carbon (mg/L) | | | 2560 | 2450 | No historical | data for Organic O | Carbon. | | |
| Biochemical Oxygen Demand (mg/L) | | | 4850 | 855 | No historical data for | Biochemical Oxy | gen Deman | ıd. | |
| Chemical Oxygen Demand (mg/L) | | | | | en Demand | | | | |
| Chloride (mg/L) | | | 24300 | 5970 | No histor | cal data for Chlor | ide. | | |
| Turbidity (field) (NTU) | | | D3 | D3 | No historical | data for Turbidity | (field). | | |
| Tannin & Lignins (Tannic Acid) (mg/L) | | | 480 | 102 | No historical data for | Tannin & Lignins | (Tannic Ac | id). | |

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

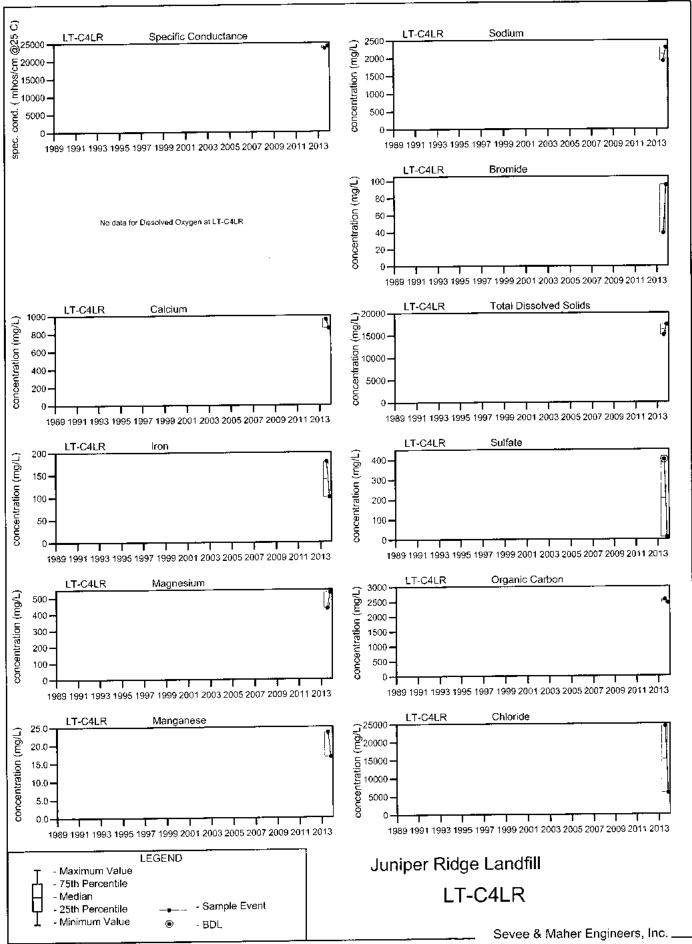
Q3= JULY Q4= OCTOBER

Data Group: 199

Printed:

3/24/2014 08:42





APPENDIX C MANN-KENDALL TREND ANALYSIS RESULTS

| | Increasir | ng Trends | Decreasi | ng Trends | No Ti | rends |
|----------------------|--|--------------------------------------|--|--|---|--|
| Location | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr |
| DP-4 | Fe, Mg, Na, TKN, SO4, CI, TURB | Na | | Eh, DO, Ca, Fe, TSS, HCO3, OC | Spec Cond, pH, Temp, Water Elev., Eh. DO, As, Cd, Ca, Mn, K. TDS, TSS, HCO3. ALK (fld). OC, TANNIC. (Cu, Ni, NH3-N, NO3-N, COD) | Water Elev , Spec Cond, pH, Temp, As, Cd, Cu, Mg, Mn, Ni, K, TKN, NO3-N, TDS, SO4, ALK (fld), COD, Ci, TURB (fld), TANNIC (NH3-N) |
| LF-COMP | pH, DO, ALK (fld) | Insufficient Data | Temp | Insufficient Data | Spec Cond, Eh, TURB (fld) | Insufficient Data |
| LF-UD-1 | DO | Temp, DO | Spec Cond | Spec Cond, HCO3 | pH, Temp. Eh, As, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, NH3- N, NO3-N, P, TDS, TSS, SO4, HCO3, ALK (fld), OC, COD, Cl, TURB (fld), TANNIC | pH, En, As, Cd, Ca, Cu, Fe, Mg, K, Na, NO3-N, P, TDS, TSS, SO4, ALK (fid), OC, COD, Cl, TURB (fid), TANNIC (Mo, Ni, NH3-N) |
| LF-UD-2 | Spec Cond, DO, Ca, Mg, Na, NO3-N, TD\$, SO4, CI, TURB (fld) | Temp, Eh, DÓ, CI | | TURB (fld) | pH, Temp, Eh. As, Cd, K, NH3-N, P, TSS, HCO3, ALK (fld), TANNIC (Cu, Fe, Mn, Ni, OC, COD) | Spec Cond. pH, As. Ca, Fe, Mg, K, Na, NO3-N, NH3-N, P, TDS, TSS, SO4, HCO3, ALK (fld), OC, COD, TANNIC (Cd, Cu, Mn, Ni, NH3-N) |
| LF-UD-3A,B | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data |
| LF-UD-4 | Insufficient Data | DO, ALK (fid) | Insufficient Data | K, Na | Insufficient Data | Spec Cond, pH, Temp Eh, As, Cd, Ca, Fe, Mg, Mn, Ni, NO3-N, P, TDS, TSS, SO4, HCO3, OC, COD, CI, TURB (fld), TANNIC |
| LF-UD-5and6 | CI | Insufficient Data | Spec Cond, Mg. K, Na, TDS, SO4, HCO3, TURB (fld) | Insufficient Data | pH, Temp Eh, DO, As, Cd, Ca, Cu, Fe, Mn, Ni, NO3-N, P, TSS, ALK (fld), OC, TANNIC (NH3-N, COD) | Insufficient Data |
| LF-UD-6 | Spec Cond, pH, Mg, Na, HCO3, ALK (fid), CI | Insufficient Data | TURB (fld) | Insufficient Data | Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mn, Ni, K, NO3-N, P, TDS, TSS, SO4, OC, COD, TANNIC (NH3- N) | Insufficient Data |
| LF-UD-7 | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data |
| LF-UD-8 | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Date | Insufficient Data |
| LP-COMP LP-LD-1 ' | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data Spec Cond, pH Temp, Eh, DO ALK (fld), TUR8 (fld) | Insufficient Date Spec Cond. pH, Temp, Eh. DO. ALK (fid), TURB (fid) |
| LP-UD-1 LP-UD-2 | Insufficient Data SO4, TURB (fld) | Insufficient Date Temp, Eh, As, HCOS | Insufficient Data | Insufficient Data pH. CI | Insufficient Data Spec Cond, pt. Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, NO3- N, P, TDS, TSS, HCO3, ALK (fld), COD, Cl. TANNIC (NH3-N, OC) | Insufficient Date Spec Cond, DO, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K. Na, NO3-N, P, TDS, TSS, SO4, ALK (fld), OC, COD, TURB (fld), TANNIC (NH3-N) |
| LT-C4L | BODS | | | pH, Eh, Ni, TDS, TSS, CI, TURB (Ad) | Spec Cond, pH. Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, TKN, NH3-N, NO3-N, TDS, TSS, SO4, S=, HCO3, ALK (fld), OC, COD, Cl, TURB (fld) | Al, Sb, Spec Cond, Temp, DO, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fo, Pb, Mg, Mn, Hg, K, Sa, Ag, Na, Tl, V, Zn, Sn, TKN, NH3-N, NO3-N, SO4, Sa, Hard (CaMg), HCO3, ALK, OC, BOD5, COD, Bromide CN |
| LT-C4LR | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data |
| MW04-102 | | As, ALK (f'd), TURB (fld) | Spec Cond | Water Elev., Spec cond. Ca | pH, Temp, Water Elev Eh, DO, As. Ca. Fe, Mg, Ni. K. Na, TKN, TDS, TSS, SO4. HCO3, ALK (rid), CI, TURB (rid), TANNIC (Cd, Cu, Mn, NH3-N, NO3-N, OC, COD) | pH, Temp, Eh, DO, Cu, Mg, K, Na, TKN, NO3-N, TDS, TSS, SO4, HCO3, OC, COD, CI, TANNIC (Cd, Fe, Mn, Ni, NH3-N) |

| | Increasir | g Trends | Decreasi | ng Trends | No Trends | | |
|--------------------|--|---|---------------------------------|--|--|---|--|
| Location | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr | |
| MW04-105 | Mn | TURB (fld) | Na | Spec Cond, Ca, Mg. Na, TDS, \$04. HC03, CI | Spec Cond, pH, Temp, Water Elev, Eh, DO, As, Cd, Ca. Fe, Mg, Ni, K, TKN, TDS, TSS, SO4. HCO3. ALK (fld). OC Cl, TURB (fld). TANNIC (Cu, NH3-N, NO3-N, COD) | Water Elev , pH, Temp, Eh, DO, As, Cd, Cu, Fe, Mn, N, K, TKN, NO3-N; TSS, ALK (fld), OC, COD, TANNIC (NH3-N) | |
| MW04-109R | Mn, SO4, ALK (fld) | | Spec Cond, K | Water Elev., Spoc Cond, Mg, K, TDS, OC | pH, Temp, Water Elev., Eh, DO, As, Cd, Ca. Mg, Na, TKN, TDS, TSS, HCO3, OC, COD, C1, TURB (fld), TANNIC (Cu, Fe, Ni, NH3-N, NO3-N) | pH, Tomp, Eh, DÖ, As, Cd, Ca, Fe, Mn, Na, TKN, TSS, SO4, HCO3, ALK (fld), Cl, TURB (fld), TANNIC (Cu, Ni, NH3-N, NO3-N, COD) | |
| MVV09-901 | As | | К | Spec Cond, Ca, Mg, K, Na, TDS, HCO3 | Spec Cond, pH, Temp, Water Elev . Eh, DO, Cd, Ca, Mg, Ni, Na, TKN, TDS, TSS, SO4, HCO3, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, Fe, Mn, NH3-N, NO3-N, COD) | Water Elev., pH, Temp, Eh, DO As, Cd, Fe, Mn, TKN, TSS, SO4, ALK (fld), OC, CI, TURB (fld), JANNIC (Cu, Ni, NH3-N, NO3-N, COD) | |
| MW11-207R | ĐÓ, ĈI | Insufficient Data | | Insufficient Data | Spec Cond. pH, Temp, Water Elev., Eh, As, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, TKN, NH3-N, NO3-N, TDS, TSS, SO4, HCO3, ALK (fld), OC, COD. TURB (fld), TANNIC | Insufficient Data | |
| MW12-303R | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | |
| MW-204 | | TURB (fld) | | Spec Cond. Eh, DO. Ca. HCO3 | Spec Cond, pH, Temp, Water Elev., Eh, DO, As, Cd. Ca, Fe, Mg, Ni, K, Na FKN, 10S, FSS, SO4, HCO3, ALK (fld), Cl. TURB (fld), TANNIC (Cu, Mn, NH3-N, NO3-N, OC, COD) | Water Elev., pH, Temp, As, Cd, Fe, Mg, K, Na, TKN, NO3-N, TDS, TSS, SO4, ALK (fld), OC, CI, TANNIC (Cu, Mn, NI, NH3-N, COD) | |
| MW-206 | DO | | Spec Cond, Fe, TSS | | pH, Temp, Water Elov., Eh, As, Cd, Ca, Cu, Mg, Mn, Ni, K, Na, TKN, TDS, SO4, HCO3, ALK (fld), OC, COD, Cl, TURB (fld), TANNIC (NH3-N, NO3-N) | Water Elev Spec Cond, pH, Temp, Eh, DO, As, Cd, Ce, Fe, Mg, K, Ne, TKN, NH3-N, NO3-N, YDS, TSS SO4, HCO3, ALK (fld), OC, COD, Cl, TURB (fld), TANNIC (Cu, Mn, Ni) | |
| MW-212 MW-216BR | Insufficient Data | Insufficient Data | Insufficient Data Fe, Mn, Na | Insufficient Data pH, Fe, Mn, Na, Cl | Insufficient Data Spec Cond, pH, | Insufficient Data Water Elev., Spec | |
| | | ALK (fld) | | pm, ru, rent, rea, Ci | Temp, Water Elev., Eh, DO, As, Cd, Ca, Mg, K, TKN, TDS, TSS, SO4, HCO3, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, NI, NH3-N, NO3-N, COD) | Cond, Temp, Eh, DO, As, Ca, Mg, K, TKN, TDS, TSS, SO4, HCO3, OC, COD, TURB (IId), TANNIC (Cd, Cu, Ni, NH3-N, NO3-N) | |
| MW-223A | Spec Cond, Ca, Mg, Na, TKN, TDS, SO4, HCO3, CI | Spec Cond, pH, As, Ca, Mg, K, Na, TDS, SO4, HCO3, ALK (fld.), CI | DO | | pH, Temp, Water Elev., Eh, As, Cd, Cu, K, NH3-N, NO3- N, TSS, ALK (fld), TURB (fid), TANNIC (Fe, Mn, Ni, OC, COD) | Water Elev., Temp, Eh. DO, Fe, TKN, NO3-N, TSS, OC, TURB (fld), TANNIC (Cd, Cu, Mn, Ni, NH3-N, COD) | |
| MW-223B | Ca, Mg, NO3-N, SO4, ALK (fld). Cl | Spec Cond, pH, Ca, Mg, NO3-N, TDS, SO4, CI | | | Spec Cond. pH, Tamp, Water Elev , Eh, DO, As, Cd. Cu. Fe, Mh, K, Na, TKN, NH3-N, TDS, TSS, HCO3, OC, COD, TURB (fd), TANNIC (Ni) | Water Elev Temp, Eh, DO, As, Fe, Mn, K, Na, TKN, NH3N, TSS, HCO3, ALK (Id), OC, TURB (Id), LANNIC (Cd, Cu, Ni, COD) | |

2013jrl_Mann-Kendall (2) Sevee & Maher Engineers, Inc. March 20, 2014

| | Increasir | ng Trends | Decreasi | ng Trends | No T | rends |
|--------------------|------------------------|-------------------------|--|-------------------------------------|--|--|
| Location | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr | Trend Analysis 3-yr | Trend Analysis 5-yr |
| MW-227 | | As, SO4, ALK (fld) | | 3-31 | Spec Cond. pH. Temp. Water Elev. En, DO, As, Cd, Ca. Fe, Mg, K, Na, TKN. TDS, TSS, SO4. HCO3, ALK (fid.), Ct, TURB (fid.), TANNIC (Cu, Mn, Ni, NH3-N, | Water Elev., Spec Cond, pH, Temp, Eh, DO, Ca, Fe, Mg, K, Na, TKN, TDS, TSS, HCO3, OC, CI, TURB (fld), TANNIC (Cd, Cu, Mn, Ni, NH3-N, NO3-N, |
| MW-301 | CI | TURB (fld) | pH | ρH, DO, K, Na | NO3-N, OC, COD) Spec Cond, Water Elev., Temp, Eh, DO, As, Cd, Ca, Fe, Mg, K, Na, TKN, TDS, TSS, SO4, HCO3, ALK (fid), TURB (fid), TANNIC (Mn, Ni, NO3-N, OC, COD) | Water Elev., Spec Cond, Temp, Eh, As, Ca, Fe, Mg, TKN, NO3-N, TDS, TSS, SO4, HCO3, ALK (fld), OC, COD, CI, TANNIC (Cd, Mn, Ni) |
| M4V-302R | DO | рН, TURB (Ñd) | | | Spec Cond, pH. Temp, Water Elev., Eh, As, Cd. Ca, Cu, Mg. K, Na. TKN, NO3-N, TDS, TSS, SO4. HCO3, ALK (fld), Cl. TURB (fld), TANNIC (Fe, Mn, Ni, NH3-N, OC, COD) | Water Elev , Spec Cond, Temp, Eh. DO, As, Ca, Fe, Mg, K, Na, TKN, NO3-N, TDS, TSS, SO4, HCO3, ALK (fld), OC. COD, CI, TANNIC (Cd, Cu, Mn, NI, NH3-N, TURB (fld)) |
| MV-304A | Ca, TDS | Spec Cond, As, TDS | Water Elev | | Spec Cond, pH, Temp, Eh, DO, As, Cd, Mg, K, Na, TKN, TSS, SO4, HCO3, ALK (fid), CI, TURB (fid), TANNIC (Cu, Fe, Mn, Ni, NH3-N, OC, COD) | Water Elev , pH. Temp, Eh, DO, Cd, Ca, Fe, Mg. K, Na, TKN, NO3-N, TSS, SO4, HCO3, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, Mn, Ni, NH3-N, COB) |
| MW-401A | Ci | | ALK (fld) | ρΗ, Eh, Ca | Spoc Cond pH, Temp, Water Elov . Eh. DO, As, Cd, Ca, Mg, K, Na. TKN, NO3-N, TDS, TSS, SO4, HCO3, TURB (fld), TANNIC (Cu, Fe, Mn, Ni, NH3-N, OC, COD) | Water Flev., Spec Cond, Temp, DO, As, Cd, Mg, K, Na, TKN, TDS, TSS, SO4, HCO3, ALK (fld), OC, CI, TURB (fld), TANNIC (Cu, Fe, Mn, Ni, NH3-N, NO3- N, COD) |
| MW-4018 | Mn, \$04, CI | Temp | | | Spec Cond, pH, Temp, Water Elev . Eh, DO, As, Cd, Ca, Fe, Mg, K, Na, TKN, TDS TSS, HCO3, ALK (fld), OC, TURB (fld), TANNIC (Cu, Ni, NH3-N, NO3-N, COD) | Water Elev., Spec Cond, pH, Eh, DO. As, Cd. Ca, Fe, Mg, Mn, K, Na, TKN. NO3-N, TDS, TSS, SO4, HCO3, ALK (Ild), OC, Cl, TURB (Ild), TANNIC (Cu, Ni, NH3-N, COD) |
| MW-402A | Ca, Mg. SO4 | As | | нсоз | Spec Cond, pH, Temp, Eh, DO, As, Cd, Cu, K, Na, TKN, TDS, TSS, HCO3, ALK (fld), COD, Cl, TURB (fld), TANNHC (Fe, Mn, Ni, NH3-N, NO3-N, OC) | Spec Cond, pH. Temp, Eh, DO, Cd, Ca, Mg, K, Na, YKN, TDS, TSS, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, Fe, Mn, Ni, NH3-N, NO3- N, COD) |
| MW-402B | | As | Cd, ALK (fid) | DO | Spec Cond. pH, Temp, Water Elev., Eh, DO, As, Ca, Mg, Mn, K, Na, TKN, TDS, TSS, SO4. HCO3, CI, TURB (fld), TANNIC (Cu, Fe, Ni, NH3-N, NO3- N, OC, COD) | Water Elev., Spec Cond, pH, Temp, Eh. Cd, Ca, Fe, Mg, K, Na, TKN, TDS, TSS, SO4, HCO3, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, Mn, Ni, NH3-N, NO3- N, COD) |
| P-04-02 P-04-04 | Insufficient Data Mg | Insufficient Data As | Insufficient Data Water Elev., ALK (fld) | Insufficient Data Water Elev , K | Insufficient Data Spec Cond, pl1, Temp, Eb, DO, As, Cd, Ca, K, Na, TKN, NO3-N, TDS, TSS, SO4, HCO3, Cl, TURB (fld), TANNIC (Cu, Fe, Mn, Ni, NH3-N, OC, COD) | Insufficient Data Spec Cond, pH, Temp, Eh, DO, Cd, Ca, Mg, Na. TKN, NH3-N, NO3-N, TDS, TSS, SO4, HCO3, ALK (fld), OC, Cl, TURB (fld), TANNIC (Cu, Fe, Mn, NI, COD) |

| | | ng Trends | Decreasi | ng Trends | No T | rends |
|----------|-------------------|-------------------|--|--|--|---|
| | Trend Analysis | Trend Analysis | Trend Analysis | Trend Analysis | Trend Analysis | Trend Analysis |
| Location | 3-yr | 5-yr | 3-yr | 5-yr | 3-уг | 5-yr |
| PW\$10-1 | | Insufficient Data | ALK (fld) | Insufficient Data | Spec Cond, pH, Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mg, Mn, K, Na, NO3-M, P, TDS, TSS, SO4, HCO3, OC, COD, CI, TURB (fid), TANNIC (Ni, NH3-M) | Insufficient Data |
| PW\$10-2 | | Insufficient Data | ALK (fld) | Insufficient Data | Spec Cond, pH, Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, NO3- N, P, TDS, TSS, SO4, HCO3, OC, COD, Cl, TURB (fld), TANNIC (MH3-N) | Insufficient Data |
| PWS10-3 | CI | Insufficient Data | ALK (fld) | Insufficient Data | Spec Cond, pH, Temp, Eh, DO, As, Cd, Ca, Cu, Fe, Mg, Mn, K, Na, NH3-N, NO3-N, P, TDS, TSS, SO4, HCO3, OC, COD, TURB (fld), TANNIC (Ni) | Insufficient Data |
| SW-1 | | DO - | | | Spec Cond, pH, Temp, Eh, DO, As, Ca, Fe, Mg, Mn, Ni, K, Na, NO3-N, P, TDS, TSS, SO4 HCO3, ALK (fld), OC, BOD5, COD, CI, TURB (fld), TANNIC (Cd, Cu, NH3-N) | Spec Cond, pH. Temp, Eh, As. Ca, Cu, Fe, Mg, Mn, Ni, K, Na, NH3-N, P, TDS, TSS, SO4, HCO3, ALK (fld), OC. BOD5, COD, Ct, TURB (fld), TANNIC (Cd, NO3-N) |
| SW-2 | | | ALK (fid) | | Spec Cond, pH. Temp, Eh. DO, As. Cd, Ca, Fe, Mg, Mn, Ni, K, Na, NO3-N, P, TDS, TSS, SO4, HCO3, OC, BOD5, COD, Cl, TURB (fld), TANNIC (Cu, NH3-N) | Spec Cond, pH, Temp, Eh, DO, As, Ca, Cu, Fe, Mg, Mn, Ni, K, Na, NH3-N, P, TDS, TSS, SO4, HCO3, ALK (fld), OC, COD, CI, TUJRB (fld), TANNIC (Cd, NO3- N, BOD5) |
| SW-3 | рН | pΗ | | Eh | Spec Cond, Temp, Eh. DO, As, Ca, Fe, Mg, Mn, Ni, K, Na. P, TDS, TSS, SO4. HCO3, ALK (fid.), OC, BODS, COD, TURB (fid.), TANNIC (Cd, Cu, NH3-N, NO3-N) | Spac Cond, Temp, DO, As, Cd, Ca, Fe, Mg, Mn, K, Na, NH3- N, P, TDS, TSS, SO4, HCO3, ALK (fld), OC, BOD5, COD, CI, TURB (fld), TANNIC (Cu, Ni, NO3.N) |
| SW-DP1 | Mn, SO4 | As, Mn | ALK (fld) | oc | Spec Cond, pH, Temp, Eh, DO, As, Ca, Cu, Fe, Mg, Mi, K, Na, P, TDS, TSS, HCO3, OC, COD, CI, TURB (fld), TANNIC (Cd, NH3-N, NO3-N) | Spac Cond, pH. Temp, Eh, DO, Ca, Cu, Fe, Mg, K, Na, NH3-N, P, TDS, TSS, SO4, HCO3, ALK (fld), COD, Cl, TURB (fld), TANNIC {Cd, Ni, NO3-Ni |
| SW-DP5 | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data | Insufficient Data |
| SW-DP6 | | | Spec Cond, Ca, Mg, K, Na, TDS, HCO3 | Spec Cond, Ca, Mg, Mn, Na, TDS, HCO3, OC, Ct | pH, Temp, Eh, DO, As, Cu, Fe, Mn, Ni, P, TSS, SO4, ALK (fid), OC, COD, Cl, TURB (fid), TANNIC (Cd, NH3-N, NO3-N) | pH, Temp, Eh, DO, As, Cu, Fe, Ni, K, P, TSS, SO4, ALK (fld), COD, TURB (fld), TANNIC (Cd, NH3-N, NO3-N) |

| Key | ALK = Alkalinity (CaCO3) | BOD5 = Biological Oxygen |
|---|--|------------------------------|
| ALK (fld) = Alkalinity (Ca CO3) (field) | CI = Chloride | Demand |
| COD = Chemical Oxygen Demand | DO = Dissolved Oxygen | Eh = Corrected Eh |
| NO3-N = Nitrate (N) | HCO3 = Bicarbonate (CaCO3) | NH3-N = Ammonia (N) |
| pH = pH | OC = Organic Carbon | P = Phosphate Phosphorus |
| Spec Cond = Specific Conductance | S= = Sulfide | SO4 = Sulfate |
| Temp = Temperature | TANNIC =Tannin & Lignins (Tannic Acid) | TDS = Total Dissolved Solids |
| TURB (fld) = Turbidity (field) | TKN = Total Kjeldahl Nitrogen | TSS = Total Suspended Solids |
| | · | · |
| | | |

- 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 after the detection limit.

Notes:

Parameters in parentheses and bold text were excluded from statistical screen due to all or most data values being non-detect with variable laboratory detection limits. These parameters were identified with statistically significant trends (95% confidence level), but are considered for the purposes of this analysis to have no discernible statistically significant trends.

Footnotes

1. Sufficient data for field parameters only.

RÉFERENCES:

State of Wisconsin, Department of Natural Resources, Remediation and Redevelopment Program Mann-Kendall Statistical Test, Form 4400-215 (2/2001).

Gilbert, R.O., Statistical Methods for Environmental Pollution Monitoring, Van Nostrand Reinhold, 1987, pp.204-240 and 272.

Hollander, M. and Wolfe, A.M., Nonparametric Statistical Methods, John Wiley Sons, 1999.

APPENDIX D

DETECTED 2013 VOCs, SVOCs, PESTICIDES, HERBICIDES, AND PCBs FOR LEACHATE

| REPORT PREPARED: 3/17/2014 10:06 FOR: Juniper Ridge Landfill | CONCENTRATION VOA, Ser | TONS EXCÉEDING LABORATORY REPORTIN Semi-VOA, Pesticide, Herbicide, and PCB Hits | .BORATOR Herbicide, a | CONCENTRATIONS EXCEEDING LABORATORY REPORTING LIMIT VOA, Semi-VOA, Pesticide, Herbicide, and PCB Hits | | SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBER AND CENTER, ME 04021 |
|---|-------------------------|--|--------------------------|--|----------------------|--|
| LOCATION PARAMETER NAME | DATE CO | CONCENTRATION/ QUALIFIER | UNITS | SAMPLEID | ANALYTICAL METHOD | |
| LT-C4L Acetone | 4/23/2013 | 1310 | ng/t | LTC4LX5HG | SW8260B | |
| Methyl Ethyl Ketone | 4/23/2013 | 4110 | ng/L | LTC4LX5HG | SW8260B | |
| Phenol | 4/23/2013 | 140 | ng/L | LTC4LX5HG | SW8270 | |
| 3&4-Methylphenol | 4/23/2013 | 1000 | ng/L | LTC4LX5HG | SW8270 | |
| LT-C4LR | | | : | | | |
| Acetone | 7/30/2013 10/29/2013 | 4400 4000 | ug/L ug/L | LTC4LX641 LTC4LX66E | 8260C SW8260 | |
| Methyl Ethyl Ketone | 7/30/2013 | 23000 E 20000 | ug/L ug/L | LTC4LX641 LTC4LX66E | 8260C SW8260 | |

Concentration Qualifier Notes:

The sampling location was damaged or destroyed.
 Compound exceeded upper level of calibration range and required dilution.
 No flow. Sample not taken.

APPENDIX E 2013 AND HISTORICAL GAS MEASUREMENT DATA

Page 1 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report Hydrogen Sulfide Hydrogen Sulfide Carbon Dioxide Methane Methane Oxygen (Antbient) Equivalent Equivalent (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm ppm

| | | %6 VOI. | 76 VDI. | | | | | |
|-------|-------------------------|--------------------------|-----------------------------|----------------|--------------------|-----------------|-------------------------------|-------------|
| | | | | | | anto nand and - | conitore groundwater excelit. | |
| DP-4 | | DP-4 is fo within the | ocated downg overburden. | radient of the | jangtili and leact | тате ропо апо п | nonitors groundwater quality | |
| | 5/5/2004 | 0.1 US | | | | | | |
| | 8/4/2004 | 0.1 ยร | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 | | 0 | | 20.3 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 9/20/2005 | 0.1 US | | 0 | | 20.8 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 21 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 21.1 | O | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 18.6 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/19/2008 | 0.1 US | | 0 | | 21.1 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | 21 | 0 | |
| | 10/29/2008 | 0.1 US | | 0 | | M | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 21 | 0 | |
| | 7/6/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 10/26/2009 | 0.1 US | | 0 | | 20.4 | 0 | |
| | 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 0 | |
| | 7/18/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.3 20.8 | 0 | |
| | 10/24/2011 | 0.1 US | 0.1 US | 0 | 0 0 | 20.8 | 0 | |
| | 4/25/2012 | 0.1 US | 0.1 US | 0 | 0 | 20.7 | 0 | |
| | 7/25/2012 10/24/2012 | 0.1 US 0.1 US | 0.1 US 0.1 US | 0 0 | Ō | 20.9 | 0 | |
| | 4/24/2013 | 0.1 US | 0.1 US | 0 | Ŏ | 20.8 | 0 | |
| | 7/31/2013 | 0.1 US | 0.1 US | ō | ŏ | 20.5 | 0 | |
| | 10/30/2013 | 0.1 US | 0.1 US | 0 | 0 | 21.1 | 0 | |
| LEUD | 10/00/2010 | Manhole | | | | | | |
| LF-UD | | | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 | | 0 | | 20.7 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 19.8 | | |
| | 9/21/2005 | 0.1 US | | 0 | | 20.6 | ^ | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.5 20 | 0 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 18.6 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US 0.1 US | | 0 | | 19.9 | Ö | |
| | 7/28/2008 10/29/2008 | 0.1 US | | 0 | | M | 0 | |
| | 10/29/2000 | V.1 00 | | Ū | | *** | • | |
| | | | | | | | | |

Page 2 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report CUMBERLAND CENTER, ME 04021 Hydrogen Sulfide Hydrogen Sulfide Oxygen Carbon Dioxide Methane Methane Equivalent (Ambient) Equivalent (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm ppm Manhole LF-UD 0 20.4 0 0.1 US 4/15/2009 0 20.6 0 0.1 US 7/7/2009 20.2 ø 0 0.1 US 10/27/2009 0 0 20.5 0.1 US 4/27/2010 20.1 0 7/21/2010 0.1 US 0 0.1 US 0.1 US 0 0 21 0 10/19/2010 0 0 20.8 0 0.1 US 0.1 US 4/26/2011 0 19.8 0 0.1 US 0 0.1 US 7/19/2011 20.6 0 0 0 0.1 US 0.1 US 10/26/2011 0 0 0 20.5 0.1 US 0.1 US 4/24/2012 0 0 20.2 0 7/24/2012 0.1 US 0.1 US 0 0.1 US 0.1 US 0 0 21.1 10/23/2012 0 0 0 20.6 4/23/2013 0.1 US 0.1 US 0 0 20.9 0 0.1 US 0.1 US 7/30/2013 0 0 20.5 0 10/29/2013 0.1 US 0.1 US Manhole LP-LD 0.1 US 8/4/2004 0.1 US 10/27/2004 20.7 0 5/9/2005 0.1 20.2 0.1 US 0 8/1/2005 0 20.8 9/21/2005 0.1 US 20.8 0 0 0.1 US 12/27/2005 20.5 0 0 5/22/2006 0.1 US 0 0 20 0.1 US 7/26/2006 Q 20.5 0.1 US 0 9/11/2006 0 18.6 0 0.1 US 10/4/2006 20.2 0 0 0.1 US 5/15/2007 20.4 0 0 7/25/2007 0.1 US 0 20.3 0.1 US 0 9/10/2007 0 0 20.9 5/20/2008 0.1 US 0 0 20.8 0.1 US 7/28/2008 М 0 0 0.1 US 10/29/2008 0 0 19.8 0.1 US 4/15/2009 0 20.6 0.1 US 0 7/7/2009 0 0 20.1 10/27/2009 0.1 US 0 0 20.6 0.1 US 4/27/2010 20.4 0 0 7/19/2010 0.1 US 0 0 21 0.1 US 0 0.1 US 10/19/2010 0 0 20.8 0.1 US 0 0.1 US 4/26/2011 0 0 19.9 0 7/19/2011 0.1 US 0.1 US 0 0 0 20.6 0.1 US 10/26/2011 0.1 US 0 0 20.3 0.1 US 0.1 US 0 4/24/2012 0 0 0 20.7 0.1 US 7/24/2012 0.1 US 0 0 20.9 0.1 US 0 10/23/2012 0.1 US 20.6 0 0 0 0.1 US 4/23/2013 0.1 US

LP-UD

LP-UD is a composite sample from the leachate pond underdrain.

0

0

20.6

20.7

0

0

8/4/2004 0.1 US

7/30/2013

10/29/2013

0.1 US

0.1 US

0,1 US

0

0

REPORT PREPARED: 3/17/2014 10:02

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Methane - H2S - Oxygen - CO2 - Report

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SEVEE & MAHER ENGINEERS, INC. 4 8LANCHARD ROAD CUMBERLAND CENTER, ME 04021

| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
|----------|------------|-----------------------|------------------------------------|--------------------|-------------------------------|---------------|-------------------|------------------|
| | Date | % Vol. | % Vol. | p pm | ppm | % Vol. | % Vol. | |
| LP-UD | | LP-UE |) is a composi | te sample from th | ne leachate pond | l underdrain. | | |
| II U | 10/27/2004 | 0.1 US | • | • | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.7 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 19.8 | | |
| | 9/21/2005 | 0.1 US | | 0 | | 20.8 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 ปร | | 0 | | 20.9 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 18.3 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/28/2008 | 0.1 US | | 0 | | 19.8 | 0 | |
| | 10/29/2008 | 0.1 U\$ | | 0 | | M | 0 | |
| | 4/15/2009 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 7/7/2009 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 10/27/2009 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 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 | ٥ | 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 | |
| | 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 | ٥ | 20.8 | 0 | |
| LT-C4L | | Leac | hate collection | location for cells | #1, #2, #3A, #3 | B, #4 and #7. | • | |
| | 4/14/2009 | 0.1 US | | 0 | | 21.2 | 0 | |
| | 7/7/2009 | 0.1 US | | ō | | 20.7 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 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 | 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 | o | 0 | 20.3 | 0 | |
| | 10/25/2011 | 0.1 US | 0.1 US | ō | 0 | 20.2 | 0 | |
| | 4/24/2012 | | 0.1 US | 0 | 0 | 20.3 | ō | |
| | 7/25/2012 | | 0.1 US | ō | o | 20.7 | 0 | |
| | 10/23/2012 | | 0.1 US | 0 | 0 | 21.1 | Ō | |
| | 4/23/2012 | | 0.1 US | 0 | Ö | 20.6 | 0 | |
| LT-C4LR | 7/20/2010 | | | location at leach | | | <u></u> | |
| DI-CADK | | | | | | | ^ | |
| | 7/30/2013 | | 0.1 US | 0 | 0 | 20.6 | 0 | |
| | 10/29/2013 | | 0.1 US | 0 | 0 | 21.4 | 0 | |
| MW04-102 | | | 4-102 monitor water Detenti | | the overburden | downgradient | of the landfill a | nd upgradient of |

Page 4 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report Hydrogen Sulfide Hydrogen Sulfide (Ambient) Methane Equivalent Oxygen Carbon Dioxide Methane Equivalent (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm ppm

| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | . <u></u> |
|----------|------------|-----------------|-----------------------------------|--------------------------|----------------|-----------------------|-------------------------|--|
| | | | | | | | | |
| MW04-102 | | MW04- Stormw | 102 monitors g vater Detention | roundwater in Pond-1. | the overburden | downgradient o | f the landfill and upg | radient of |
| | 3/25/2005 | 0.1 US | | | | | | |
| | 7/25/2005 | 0.1 US | | 0 | | 20.5 | | |
| | 9/20/2005 | 0.1 US | | 4 | | 20.6 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.4 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.8 | 0 | |
| | 5/15/2007 | 0.1 US | | ٥ | | 19.8 | O | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 9/10/2007 | 0.1 U\$ | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 21.2 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 10/27/2008 | 0.1 US | | 0 | | M | 0 | |
| | 4/14/2009 | Q.1 US | | 0 | | 19.7 | 0 | |
| | 7/7/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 10/27/2009 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 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 | |
| MW04-105 | | MW04- | -105 monitors g | roundwater in | the overburden | downgradient o | of the landfill and Sto | ormwater |
| | 3/25/2005 | 0.1 US | | | | | | |
| | 7/25/2005 | 0.1 US | | 0 | | 20.1 | | |
| | 9/20/2005 | 0.1 US | | 9 | | 20.9 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 7/26/2006 | 0.1 US | | ō | | 20.3 | 0 | |
| | 9/11/2006 | 0.1 US | | ŏ | | 20.2 | 0 | |
| | 10/4/2006 | 0.1 US | | Ö | | 19.7 | 0 | |
| | 5/15/2007 | 0.1 US | | ō | | 21.3 | 0 | |
| | 7/25/2007 | 0.1 US | | ō | | 20.5 | 0 | |
| | | 0.1 US | | Ö | | 20.3 | D | |
| | 9/10/2007 | | | 0 | | 21 | 0 | |
| | 5/19/2008 | 0.1 US | | | | 20.9 | ő | |
| | 7/29/2008 | 0.1 US | | 0 | | 20. 9 M | 0 | |
| | 10/27/2008 | 0.1 US | | 0 | | | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 20 | | |
| | 7/6/2009 | 0.1 US | | 0 | | 19.8 | 0 | |
| | 10/26/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 4/27/2010 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/19/2010 | 0.1 US | | 0 | | 20.5 | 0 | |
| | | | | | | | | المستحدين والمستحدين والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد |

| REPORT PREPARED: FOR: | 3/17/2014 10:02 Juniper Ridge Landf | iO | | Mathan | SUMMARY REP te - H2S - Oxygen | | iort ! | Page 5 of 21 SEVEE & MAHER ENGINEERS, IN 4 BLANCHARD ROAD |
|--------------------------|--|-----------------------|------------------------------------|------------------|--|---------------|---------------------------------------|---|
| | | | | ivietnan | ө - н25 - Oxygen | - CO2 • Rep | | CUMBERLAND CENTER, ME 0402 |
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfid | e Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
| | Date | % Vol. | % Vot. | ppm | ppm | % Val. | % Vol. | |
| MW04-105 | | | | groundwater in | the overburden d | owngradien | t of the landfill ar | nd Stormwater |
| | 40400040 | | tion Pond-1. | ^ | 0 | 21.2 | 0 | |
| | 10/18/2010 | 0.1 US | 0.1 US 0.1 US | 0 | 0 | 20.9 | 0 | |
| | 4/26/2011 | 0.1 US 0.1 US | 0.1 US | 0 | 0 | 20.2 | 0 | |
| | 7/18/2011 10/25/2011 | 0.1 US | 0.1 US | 0 | 0 | 21 | 0 | |
| | 4/25/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.3 | 0 | |
| | 7/23/2012 | 0.1 US | 0.1 US | 0 | o | 20.2 | 0 | |
| | 10/22/2012 | 0.1 US | 0.1 US | 0 | Ö | 21.1 | o | |
| | 4/24/2013 | 0.1 US | 0.1 US | 0 | ŏ | 20.8 | 0 | |
| | 7/30/2013 | 0.1 US | 0.1 US | 0 | ō | 20.5 | 0 | |
| | 10/29/2013 | 0.1 US | 0.1 US | 0 | 0 | 21.5 | 0 | |
| MW04-109 | 10/23/23/0 | MW04 | | | n the overburden o | | t of the landfill a | nd Stormwater |
| | 3/25/2005 | 0.1 US | | | | | | |
| | 7/26/2005 | 0.1 US | | 0 | | 19.2 | | |
| | 9/20/2005 | 0.1 US | | 5 | | 20.9 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 19.5 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.8 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/19/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/29/2008 | 0.1 U\$ | | 0 | | 20.9 | 0 | |
| | 10/28/2008 | 0.1 US | | 0 | | M | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.9 | 0 | |
| | 7/6/2009 | DE | | DE | | DE | DE | |
| MW04-109R | | MW0- | 4-109R is local | ted to the south | of Cell #5 of the one overburden dow | expansion la | indfill and near N f the landfill. | lanhole #5. This |
| | 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 | |
| | 4/26/2011 | 0.1 US | 0.1 US | 0 | 0 | 21 | ٥ | |
| | 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 | |
| MW09-901 | | MW0: | 9-901 is locate | ed to the south | of Cell #5 and dete ne overburden dov | ention pond : | #2 of the expans | sion landfill. This |
| | 4/27/2010 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/20/2010 | 0.1 US | | 0 | | 20.3 | ő | |
| | 10/19/2010 | 0.1 US | 0.1 US | 0 | 0 | 21.3 | ō | |
| | 4/26/2011 | 0.1 US | 0.1 US | 0 | 0 | 21 | Ö | |
| | 7/19/2011 | 0.1 US | 0.1 US | ů. | 0 | 20.2 | 0 | |
| | 10/25/2011 | 0.1 US | 0.1 US | 0 | 0 | 21 | 0 | |
| | . 414014011 | J J. | | - | - | | | |

Page 6 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report Hydrogen Sulfide Hydrogen Sulfide Carbon Dioxide Methane Methane Oxygen Equivalent (Ambient) Equivalent (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm MW09-901 is located to the south of Cell #5 and detention pond #2 of the expansion landfill. This MW09-901 well monitors water quality within the overburden downgradient of the landfill 0 0 4/25/2012 0.1 US 0.1 US 0 0 0 0 20.3 0.1 US 0.1 US 7/23/2012 0 21.1 0 0 10/23/2012 0.1 US 0.1 US O 0.1 US 0.1 US 0 0 20.7 4/23/2013 0 0 20.8 0 7/30/2013 0.1 US 0.1 US O 0 0 21.2 10/29/2013 0.1 US 0.1 US MW11-207R monitors bedrock groundwater quality upgradient of the landfill. This well replaced MW11-207R MW-207. 0 20.2 0 7/20/2011 0.1 US 0 0.1 US Û 0.1 US 0.1 US 0 0 20.8 10/24/2011 n 20.3 0 4/25/2012 0.1 US 0.1 US ٥ 0.1 US 0 0 20.1 0 0.1 US 7/23/2012 0 0 21.2 0 10/22/2012 0.1 US 0.1 US 0 0 20.6 0 0.1 US 4/22/2013 0.1 US 20.7 0 0 0 7/31/2013 0.1 US 0.1 US 0 20.8 10/29/2013 0.1 US 0.1 US 0 0 MW12-303R was installed in September 2012 to replace MW-303. MW12-303R monitors the MW12-303R background water quality at the site upgradient of the landfill. 0 0.1 US 21.1 10/22/2012 0.1 US 0 0 20.6 0 0.1 US 0.1 US 4/22/2013 0 20.6 0 0 0.1 US 0.1 US 7/29/2013 21.2 0 0 0 0.1 US 0.1 US 10/28/2013 MW-204 monitors the overburden water quality downgradient from the landfill. MW-204 5/5/2004 0.1 US 8/4/2004 23 0.1 US 10/27/2004 20.3 Û 5/9/2005 0.1 20.1 0 8/1/2005 0.1 US 0 20.8 9/20/2005 0.1 US 0 20.9 0 12/27/2005 0.1 US 0 20.9 0 0.1 US 5/22/2006 19.7 1.7 0 7/26/2006 0.9 18.9 0 0 9/11/2006 0.1 US 0 10/4/2006 0.1 US 0 19.1 20.8 0 0 5/15/2007 0.1 US 0 0 20.2 0.1 US 7/25/2007 0 20.4 0 0.1 US 9/10/2007 0 20.4 0 0.1 US 5/21/2008 1.9 18.7 0 7/30/2008 8.0 0 М 2.9 10/28/2008 5.3 0 20.9 4/13/2009 0.1 US 0 0 19.7 0 7/6/2009 0.1 US 0 0 20.6 0.1 US 10/26/2009 0 0 20.5 4/27/2010 0.1 US 20.4 0 0 7/19/2010 0.1 US 0 0 0 21.2 10/19/2010 0.1 US 0.1 US 0 20.9 0 0 4/27/2011 0.1 US 0.1 US 0 0.1 US 0 0 20.4 0.1 US

0

0

20

0

7/19/2011

10/25/2011

3/17/2014 10:02:50 AM

0.1 US

0.1 US

REPORT PREPARED: 3/17/2014 10:02

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Methane - H2S - Oxygen - CO2 - Report

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| FOK. | R: Juniper Ridge Landfill | ! | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 | | | | | |
|--------------|---------------------------|-----------------------|---|-----------------|-------------------------------|----------------|-----------------|---|
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfid | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | |
| MW-204 | <u>.</u> | MW-2 | 04 monitors th | e overburden v | rater quality downs | gradient fron | n the landfill. | |
| | 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 U\$ | 0 | 0 | 20.6 | 0 | |
| <u> </u> | 10/30/2013 | 0.1 US | 0.1 US | 0 | 0 | 21.1 | 0 | |
| MW-206 | | MW-2 | :06 monitors o | verburden wate | r quality upgradier | nt of the land | Ifill. | |
| | 5/5/2004 | 0.1 US | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 21.6 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 9/19/2005 | 0.1 US | | 5 | | 20.5 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.4 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.2 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | 20.9 | 0 0 | |
| | 10/27/2008 | 0.1 US | | 0 | | M 20 | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 7/6/2009 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.4 | ٥ | |
| | 4/26/2010 | 0.1 US | | 0 | | 20.4 | 0 | |
| | 7/19/2010 | 0.1 US | 0.4.110 | | 0 | 21.1 | 0 | |
| | 10/18/2010 | 0.1 US | 0.1 US | 0 | 0 | 20.4 | 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 | 20.6 | 0 | |
| | 10/24/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.3 | 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 | | 21.1 | 0 | |
| | 10/22/2012 | 0.1 US | 0.1 US | 0 | 0 | 20.5 | 0 | |
| | 4/22/2013 | 0.1 US | 0.1 US | 0 | 0 | 20.6 | 0 | |
| | 7/31/2013 10/28/2013 | 0.1 US 0.1 US | 0.1 US 0.1 US | 0 | 0 | 20.8 | 0 | |
| MW-207 | 18/28/2015 | | | | water quality upgra | | landfill. | · |
| .*2 TT =#U / | E IE IO OO A | | | | | | | |
| | 5/5/2004 | 0.1 U\$ 0.1 U\$ | | | | | | |
| | 8/4/2004 | 0.1 US 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US 0.1 US | | 0 | | 20.2 | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.4 | | |
| | 8/1/2005 | 0.1 US | | ٥ | | 20.6 | | |
| | 9/19/2005 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 12/27/2005 | 0.1 US | | 0 | | 21.1 | Ŏ | |
| | 5/22/2006 7/26/2006 | | | 0 | | 20.6 | 0 | |
| | 112012000 | 0.100 | | J | | | - | |

| | 3/17/2014 10:02 | | ! | | SUMMARY REF | OKI | ! | SEVEE & MAHER ENGINEERS, IN- |
|-------------|------------------------|-----------------------|------------------------------------|------------------|-------------------------------|----------------|----------------|--|
| FOR: | Juniper Ridge Landfi | 1 | : | Methane | - H2S - Oxygen | - CO2 - Rep | ort | 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 0402 |
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
| <u></u> . | Date | % Vol. | % Vol. | p pπ | | % Vol. | % Vol. | |
| 3437 207 | · | MW-20 | 7 monitors be | edrock groundwa | nter quality upgra | dient of the I | andfill, | |
| MW-207 | | | 57 (((d)((d)5) <u>5</u> | | | 19.9 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 19.2 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0.5 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 9/10/2007 | 0.1 U\$ 0.1 US | | 0 | | 20.4 | 0 | |
| | 5/19/2008 7/29/2008 | 0.1 US | | Ö | | 20.8 | 0 | |
| | 10/28/2008 | 0.1 US | | ő | | M | 0 | |
| | 4/14/2009 | 0.1 US | | ŏ | | 20.1 | 0 | |
| | 7/6/2009 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 10/26/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 4/26/2010 | 0.1 US | | o | | 20.2 | 0 | |
| | 7/19/2010 | 0.1 US | | ō | | 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 | 20.2 | 0 | |
| MW-212 | ., | | 12 monitors th | ie overburden gr | oundwater upgra | dient of the | andfill. | |
| 141 44 -212 | 615/0004 | | | - | | | | |
| | 5/5/2004 | 0.1 US | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | 0 | | 20.2 | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.7 | | |
| | 9/20/2005 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 12/27/2005 | 0.1 US | | 0 | | 21.1 | ō | |
| | 5/22/2006 | 0.1 US | | 0 | | 19.5 | 0.5 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.8 | 0 | |
| | 9/11/2006 | 0.1 US 0.1 US | | 0 | | 19.3 | Õ | |
| | 10/4/2006 | | | 0 | | 22.1 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.4 | ō | |
| | 5/19/2008 | 0.1 US | | | | 20.8 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | Z0.0 | Ô | |
| | 10/28/2008 | 0.1 US | | 0 | | 20.2 | Ō | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.3 | 0.6 | |
| | 7/6/2009 | 0.1 | | _ | | 20.5 | 0.0 | |
| | 10/26/2009 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 4/26/2010 | 0.1 US | | 0 | | 19.9 | 0 | |
| | 7/19/2010 | 0.1 US | 0.4.110 | 0 | 0 | 21 | 0 | |
| | 10/18/2010 | 0.1 US | 0.1 US | 0 | 0 | 19.9 | 0 | |
| | 4/25/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.1 | 0 | |
| | 7/18/2011 | 0.1 US | 0.1 US | 0 | | 17.2 | 3.6 | |
| | 10/24/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.2 | 0 | |
| | 4/25/2012 | 0.1 US | 0.1 US | 0 | 0 | | 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 20.5 | 0 | |
| | 4/22/2013 | 0.1 US | 0.1 US | | water quality do | | | <u></u> |
| MW-216B | | | a rop monitors | the overburgen | water doain's noi | migration (| . are remember | |
| | 5/5/2004 | 0.1 US 0.1 US | | | | | | |
| | 8/4/2004 | | | | | | | |

SUMMARY REPORT

Page 9 of 21 REPORT PREPARED. 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report

| | | | <u>. </u> | | - 1125 - Oxygen | | | CUMBERLAND CENTER, ME 0402 | | | |
|---------------|------------|-----------------------|--|---|-------------------------------|---------------|-----------------|----------------------------|--|--|--|
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | | | | |
| | Date | % Vol. | % Vol. | ppm | | % Vol. | % Vol. | | | | |
| | | | 100 | the overburden w | rator quality days | naradient of | the landfill | | | | |
| MW-216B | | | 16B monitors | the overburden w | vater quality down | ngradient of | the fanding. | | | | |
| | 10/27/2004 | 0.1 US | | _ | | 00.4 | | | | | |
| | 5/9/2005 | 0.1 | | 0 | | 20.1 | | | | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 20.7 | | | | | |
| | 9/22/2005 | 0.1 US | | 0 | | | Α | | | | |
| | 12/27/2005 | Α | | A | | A 20.9 | A 0 | | | | |
| | 5/22/2006 | 0.1 US | | 0 | | 14.5 | 7.1 | | | | |
| | 7/26/2006 | 0.1 US | | 0 0 | | 17.5 | 6.5 | | | | |
| | 9/11/2006 | 0.1 US | | 0 | | 19.5 | 0 | | | | |
| | 10/4/2006 | 0.1 US | | | | 16.5 | 3.3 | | | | |
| | 5/15/2007 | 0.1 US | | 0 0 | | 15.3 | 6.7 | | | | |
| | 7/25/2007 | 0.1 US | | | | 20.4 | 0 | | | | |
| | 9/10/2007 | 0.1 US | | 0 0 | | 20.9 | Ö | | | | |
| | 5/20/2008 | 0.1 US | | 0 | | 21.1 | ő | | | | |
| | 7/28/2008 | 0.1 US 0.1 US | | 0 | | M | o | | | | |
| | 10/28/2008 | 0.1 US | | 0 | | 19.9 | ō | | | | |
| | 4/14/2009 | 0.1 03 DE | | DE | | DE | DE | | | | |
| | 7/6/2009 | | tenn is less | ed to the south o | f Call #5 of the o | | | sphole #5. This | | | |
| MW-216BR | | MVV-2 well m | onitors water | ea to the south o quality within the | overburden dow | ngradient o | f the landfill. | annois aro. This | | | |
| | 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 | a | 0 | 21.2 | 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 | 20.4 | 0 | | | | |
| | 10/25/2011 | 0.1 US | 0.1 US | 0 | 0 | 20.4 | 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 | 21.2 | 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 | 19.8 | 0 | | | | |
| | 10/29/2013 | 0.1 US | 0.1 US | 0 | 0 | 21.1 | 0 | | | | |
| MW-223A | | | 23A monitors | the bedrock wat | er quality downg | radient of th | e landfill. | | | | |
| 141 44 -22011 | 5/5/2004 | 0.1 US | | | | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.5 | | | | | |
| | 8/1/2005 | 0.1 US | | ő | | 20.6 | | | | | |
| | 9/21/2005 | 0.1 US | | 3 | | 20.9 | | | | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | | | | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.7 | 0 | | | | |
| | 7/26/2006 | 0.1 US | | ō | | 20.3 | 0 | | | | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.5 | ō | | | | |
| | | 0.1 US | | 0 | | 19.4 | ō | | | | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.9 | 0 | | | | |
| | 5/15/2007 | | | 0 | | 20.6 | o | | | | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.4 | o | | | | |
| | 9/10/2007 | 0.1 US | | 0 | | 19.8 | a | | | | |
| | 5/20/2008 | 0.1 US | | 0 | | 21 | 0 | | | | |
| | 7/30/2008 | 0.1 US | | 0 | | M | 0 | | | | |
| | 10/28/2008 | 0.1 US 0.1 US | | 0 | | 19.6 | 0 | | | | |
| | 4/14/2009 | 5.1 03 | | port 007.0.30 | | | | e 9 of 21 | | | |

Page 10 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Methane - H2S - Oxygen - CO2 - Report CUMBERLAND CENTER, ME 04021 Hydrogen Sulfide Hydrogen Sulfide Carbon Dioxide Methane Oxygen Methane (Ambient) Equivalent Equivalent (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm ppm MW-223A monitors the bedrock water quality downgradient of the landfill. MW-223A 20.5 0 0.1 US 0 7/7/2009 20.5 0 Q 0.1 US 10/27/2009 20.7 0 0 0.1 US 4/27/2010 0 0 20.4 0.1 US 7/20/2010 0 21.2 0 10/19/2010 0.1 US 0.1 US 0 0 0.1 US 0.1 US 0 0 21.1 4/26/2011 0 0 20.1 0 0.1 US 0.1 US 7/19/2011 0.1 US 0 0 20.9 ٥ 0.1 US 10/25/2011 0 20.2 0 0 4/25/2012 0.1 US 0.1 US O 20.1 0 0 0.1 US 0.1 US 7/23/2012 0 0 21.3 0 10/23/2012 0.1 US 0.1 US 0 0.1 US 0.1 US 0 0 20.8 4/23/2013 0 0.1 US 0 0 19.9 7/30/2013 0.1 US 0.1 US 0 0 21.2 0 0.1 US 10/29/2013 MW-223B monitors the overburden water quality downgradient of the landfill. MW-223B 0.1 US 5/5/2004 0.1 US 8/4/2004 10/27/2004 0.1 US 20.6 0 5/9/2005 0.1 US 20.5 0.1 US 0 8/1/2005 5 20.9 9/21/2005 0.1 US 20.7 0 0 0.1 US 12/27/2005 0 20.7 0 5/22/2006 0.1 US 0 20.2 0 7/26/2006 0.1 US 0 0 20.5 9/11/2006 0.1 US 0 19.3 0 10/4/2006 0.1 US 19.9 0 0 0.1 US 5/15/2007 0 20.7 0 7/25/2007 0.1 US 0 0 20.4 0.1 US 9/10/2007 0 0 19.8 5/20/2008 0.1 US 0 0 21 0.1 US 7/30/2008 0 M 0 10/28/2008 0.1 US 0 0 19.4 4/14/2009 0.1 US 0 0 20.6 7/7/2009 0.1 US 20.6 0 0.1 US 0 10/27/2009 20.7 0 0 4/27/2010 0.1 US 0 20.4 7/20/2010 0.1 US 0 21.2 0 0 0 0.1 US 10/19/2010 0.1 US 0 ٥ 21.1 0 0.1 US 0.1 US 4/26/2011 0 0 0 20 7/19/2011 0.1 US 0.1 US 0 0 0 20.9 0.1 US 0.1 US 10/25/2011 0 20.2 0 0 4/25/2012 0.1 US 0.1 US 0 0.1 US 0 0 20.1 0.1 US 7/23/2012 0 21.3 0 0 0.1 US 10/23/2012 0.1 US 0 20.7 0 0 0.1 US 4/23/2013 0.1 US 0 0 0 20 0.1 US 0.1 US 7/30/2013 21.2 0 0 0.1 US 0.1 US 10/29/2013 MW-227 monitors water quality in the overburden downgradient of the landfill. MW-227

5/5/2004

0.1 US

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Methane - H2S - Oxygen - CO2 - Report

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

| | | | j | | | | | CUMBERLAND CENTER, ME 04021 |
|--------|------------|-----------------------|------------------------------------|---------------------|-------------------------------|----------------|--------------------|-----------------------------|
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | · <u></u> · · · |
| | | | 07 | | e overburden dov | maradient A | f the landfill | |
| MW-227 | | | 27 monitors w | rater quality in th | e overbuiden dov | viigiauleiit o | i ide istidilit. | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | _ | | 20.5 | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.5 20.3 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 9/21/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 19.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | | 0 | |
| | 7/30/2008 | 0.1 US | | 0 | | 21.2 M | 0 | |
| | 10/27/2008 | 0.1 US | | 0 | | | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.7 | | |
| | 7/7/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 10/27/2009 | 0.1 US | | 0 | | 20.4 | 0 | |
| | 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 | 00 | 21.4 | 0 | |
| MW-301 | | MW- | 301 monitors t | he water quality | within the bedroo | k downgradi | ent of the landfil | l. |
| | 5/5/2004 | 0.1 US | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 | | 0 | | 20.1 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 19.9 | | |
| | 9/22/2005 | 0.1 US | | 7 | | 20.1 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 21.1 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 9/11/2006 | 0.1 US | | ō | | 20.1 | 0 | |
| | 10/4/2006 | | | 0 | | 19.3 | 0 | |
| | 5/15/2007 | | | 0 | | 20.6 | 0 | |
| | 7/25/2007 | | | 0 | | 19.8 | 0.01 | |
| | | | | 0 | | 20.3 | 0 | |
| | 9/10/2007 | | | 0 | | 20.9 | 0 | |
| | 5/19/2008 | | | 0 | | 20.5 | ō | |
| | 7/30/2008 | | | 0 | | 20.0 M | 0 | |
| | 10/28/2008 | | | 0 | | 21.1 | 0 | |
| | 4/14/2009 | 0.1 US | | | | | | <u></u> |
| | | | | port 007 0 30 | | | n | 11 of 21 |

Page 12 of 21 REPORT PREPARED: 3/17/2014 10:02 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill 4 BLANCHARD ROAD Methane - H2S - Oxygen - CO2 - Report CUMBERLAND CENTER, ME 04021 Carbon Dioxide Hydrogen Sulfide Hydrogen Sulfide Oxygen Methane Methane Equivalent Equivalent (Ambient) (Ambient) Date % Vol. % Vol. % Vol. % Vol. ppm ppm MW-301 monitors the water quality within the bedrock downgradient of the landfill. MW-301 0 19.7 0 7/6/2009 0.1 US 0 0 20.4 10/26/2009 0.1 US 0 0 19.8 4/26/2010 0.1 US 0 0 20.4 0.1 US 7/19/2010 0 10/19/2010 0.1 US 0.1 US 0 0 21.2 n 0 20.9 0 0.1 US 4/27/2011 0.1 US 0 0 0 20.1 7/20/2011 0.1 US 0.1 US ٥ 20.1 0 0 0.1 US 10/25/2011 0.1 US 0 0 20.2 0 4/25/2012 0.1 US 0.1 US 0 0 0 20.7 7/25/2012 0.1 US 0.1 US 0.1 US 0 0 20.9 0 10/24/2012 0.1 US 0 0 20.8 0 4/22/2013 0.1 US 0.1 US 0 20.5 0 0.1 US 0.1 US 0 7/31/2013 0 0 21.2 Ó 10/30/2013 0.1 US 0.1 US MW-302 monitors the water quality in the shallow bedrock beside the landfill, but not directly MW-302 downgradient of the landfill. 5/5/2004 0.1 US 8/4/2004 0.1 US 0.1 US 10/27/2004 21.4 5/9/2005 0.1 US 0 0 19.9 0.1 US 8/1/2005 20.7 3 9/19/2005 0.1 US 0 20.7 0 12/27/2005 0.1 US 0 0 20.8 5/22/2006 0.1 US 20.2 0 0 0.1 US 7/26/2006 0 9/11/2006 0.1 US 0 21.1 0 19.5 0 10/4/2006 0.1 US 0 0 22.5 0.1 US 5/15/2007 20.6 0 0.1 US 0 7/25/2007 DE DE DË 9/10/2007 DE MW-302R monitors the water quality in the shallow bedrock beside the landfill, but not directly MW-302R downgradient of the landfill. 0.1 US 0 21.1 0 5/20/2008 20.9 0 0.1 US 0 7/29/2008 0 0 Μ 0.1 US 10/27/2008 0 0 20.2 4/14/2009 0.1 US 0 0 19.8 7/6/2009 0.1 US 0 10/27/2009 0 21 0.1 US 0 20.2 0 4/26/2010 0.1 US 0 0 20.4 7/19/2010 0.1 US 0 0 21 0 10/18/2010 0.1 US 0.1 US 0 20.4 0 0.1 US 0 4/25/2011 0.1 US 20.5 0 7/18/2011 0.1 US 0.1 US 0 0 0 0 0 20.5 10/24/2011 0.1 US 0.1 US 0 0 20.2 0 0.1 US 4/25/2012 0.1 US 0 0.1 US 0 0 20.3 7/23/2012 0.1 US 0 0 21.2 0 10/22/2012 0.1 US 0.1 US 20.5 0 0.1 US 0.1 US 0 0 4/22/2013 0 0 20.7 0 7/31/2013 0.1 US 0.1 US 0 21 0 0.1 US 0.1 US 0 10/28/2013

3/17/2014 10:02:50 AM

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FOR: Juniper Ridge Landfill
Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - Hydrogen Sulfide - Oxygen - Carbon Dioxide

Equivalent - (Ambient)

Date % Vol. % Vol. ppm - ppm % Vol. % Vol. % Vol.

| | _ | -4, | (Ambient) | | , , | | | |
|---------|-------------------------|------------------|--|-----------------------------------|-----------------------------------|---------------------------------------|--|-----------|
| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | – |
| | | | | | | | | |
| MW-303 | | MW-3 MW-3 | 303 monitors the t 303 was not samp | background ov pled after the A | verburden wate April 2012 roun | r quality at the s d and was repla | ite upgradient of the landfill, ced with MW12-303R in 2012. | |
| | 5/5/2004 | 0.1 US | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 21.4 | | |
| | 8/1/2005 | 0.1 US | | ٥ | | 20.3 | | |
| | 9/19/2005 | 0.1 US | | 0 | | 20.9 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.3 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/19/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 10/27/2008 | 0.1 US | | 0 | | М | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/6/2009 | 0.1 US | | 0 | | 19.6 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 4/26/2010 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/19/2010 | 0.1 US | | 0 | | 20.3 | 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 | ō | 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 | 0.100 | 1 | ! | 1 | ! | 1 | |
| | 772072012 | | | | in the upper of | ortion of the her | trock upgradient of the landfill | - |
| MW-304A | | MVV- | 304A monitors the | e water quality | in the upper p | obilion of the oed | drock upgradient of the landfill. | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 21.4 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.2 | | |
| | 9/19/2005 | 0.1 US | | 5 | | 20.5 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 21 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 20.8 | O | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.4 | 0 | |
| | 5/15/2007 | 0.1 US | | ō | | 20.1 | 0 | |
| | | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/25/2007 9/10/2007 | 0.1 US | | 0 | | 20.4 | 0 | |
| | | 0.1 US | | 0 | | 21.2 | 0 | |
| | 5/20/2008 | | | 0 | | 20.9 | 0 | |
| | 7/29/2008 | 0.1 US | | 0 | | 20.5 M | 0 | |
| | 10/27/2008 | 0.1 US | | | | 20.1 | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 7/6/2009 | 0.1 US | | 0 | | | | |
| | 4 - 4 - 4 - 4 - 4 | | | | | 20.0 | Λ | |
| | 10/27/2009 4/26/2010 | 0.1 US 0.1 US | | 0 0 | | 20.8 19.9 | 0 0 | |

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|------------------|------------------------|-----------------------|------------------------------------|------------------|---------------------------------|---------------|--------------------|--|
| | Juniper Ridge Landfill | | | Methan | e - H2S - Oxygen | | ort | SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfid | e Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | |
| <u> </u> | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | |
| MW-304A | <u></u> | MW-3 | 04A monitors | the water qualit | ty in the upper port | ion of the be | edrock upgradier | nt of the landfill. |
| 1111 00 121 | 7/19/2010 | 0.1 US | | 0 | | 19.9 | 0 | |
| | 10/18/2010 | 0.1 US | 0.1 US | 0 | 0 | 21 | 0 | |
| | 4/25/2011 | 0.1 US | 0.1 US | Õ | 0 | 20.3 | 0 | |
| | 7/18/2011 | 0.1 US | 0.1 US | Ō | 0 | 20.5 | 0 | |
| | 10/24/2011 | 0.1 ปร | 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 | ٥ | |
| | 4/22/2013 | 0.1 US | 0.1 US | 0 | 0 | 20.6 | 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 | 20.9 | 0 | |
| MW-401A | | MW-4 | 01A monitors | bedrock water | quality downgradie | nt of the lan | dfill and leachate | e pond. |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 U\$ | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 21.4 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.7 | | |
| | 9/21/2005 | 0.1 US | | 0 | | 20.8 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | O | | 19.9 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/28/2008 | 0.1 US | | 0 | | 21.2 | 0 | |
| | 10/29/2008 | 0.1 US | | 0 | | M | Đ | |
| | 4/13/2009 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/7/2009 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.2 | 0 0 | |
| | 4/27/2010 | 0.1 US | | 0 | | 20.5 20.1 | 0 | |
| | 7/21/2010 | 0.1 US | 0.4.110 | 0 | 0 | 20.1 | 0 | |
| | 10/20/2010 | 0.1 US | 0.1 US | 0 | 0 | 20.5 | 0 | |
| | 4/25/2011 | 0.1 US | 0.1 US | 0 | ٥ | 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 0.1 US | 0 | 0 | 20.3 | 0 | |
| | 7/23/2012 | 0.1 US | | 0 | 0 | 20.3 | 0 | |
| | 10/22/2012 | 0.1 US 0.1 US | 0.1 US 0.1 US | 0 | 0 | 20.5 | 0 | |
| | 4/22/2013 7/29/2013 | 0.1 US | 0.1 US | 0 | 0 | 20.4 | 0 | |
| | 10/28/2013 | 0.1 US 0.1 US | 0.1 US | 0 | 0 | 21.2 | 0 | |
| MW-401B | 10,20,2010 | | | | of the landfill and | | | groundwater |
| 111 11-7011 | | qualit | y in the overb | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 21.4 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.5 | | |
| | 9/21/2005 | 0.1 US | | 8 | | 20.9 | | |

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FOR: Juniper Ridge Landfill

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - H2S - Oxygen - CO2 - Report

Methane - Hydrogen Sulfide (Ambient)

Date % Vol. % Vol. ppm ppm ppm % Vol. % Vol. % Vol.

| | Date | % Vol. | (Ambient) % Vol. | ppm | ppm | % Vol. | % Val. | |
|---------|------------|--------------------|--------------------------------------|------------------|--------------------|-----------------|-------------------------|------------|
| · | · | | 45 : 1: | | the lendfill and | Neachate nord | and monitors groundwate | er |
| MW-401B | | MW-40 quality i | 1B is located do in the overburde | em, | r the landilli and | i leachate pond | and monitors groundwar | . . |
| | 12/27/2005 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.7 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.9 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/28/2008 | 0.1 US | | 0 | | 21.2 | 0 | |
| | 10/29/2008 | 0.1 US | | 0 | | M | 0 | |
| | 4/13/2009 | 0.1 US | | 0 | | 21 | 0 | |
| | 7/7/2009 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 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 | ٥ | 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 | 20.4 | 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 | ٥ | 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 | |
| MW-402A | | MW-40 | 02A monitors wa | ater quality wit | hin the bedrock | downgradient (| of the landfill. | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.6 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 9/21/2005 | 0.1 US | | 3 | | 20.6 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.5 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.4 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/28/2008 | 0.1 US | | 0 | | 21.1 | 0 | |
| | 10/29/2008 | 0.1 US | | 0 | | М | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.4 | 0 | |
| | 7/8/2009 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 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 | O. | |
| | 10/20/2010 | 3., 00 | 5., 00 | • | | | | |

REPORT PREPARED: 3/17/2014 10:02

FOR: Juniper Ridge Landfill

SUMMARY REPORT

Methane - H2S - Oxygen - CO2 - Report

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| 7011. 41 | nulbėt Kioda carioi | | | оп | CUMBERLAND CENTER, ME 04021 | | | |
|---------------|---------------------|-----------------------|------------------------------------|-------------------|-------------------------------|--------------|--------------------|--------|
| | <u>-</u> | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | · |
| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | |
| MW-402A | | MW-4 | 02A monitors | water quality wit | thin the bedrock d | lowngradient | of the landfill. | |
| | 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 | |
| MW-402B | | MW-4 | 02B monitors | water quality wi | thin the overburde | en downgrad | ient of the landfi | II. |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.7 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.3 | | |
| | 9/21/2005 | 0.1 US | | 3 | | 20.6 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.8 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 7/26/2006 | 0.1 US | | 0 | | 19.5 | 0 | |
| | 9/11/2006 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 10/4/2006 | 0.1 US | | 0 | | 19.4 | 0 | |
| | 5/15/2007 | 0.1 US | | 0 | | 20.2 | 0 | |
| | 7/25/2007 | 0.1 US | | 0 | | 20.6 | 0 | |
| | 9/10/2007 | 0.1 US | | 0 | | 20.3 | 0 | |
| | 5/20/2008 | 0.1 US | | 0 | | 20.9 | 0 | |
| | 7/28/2008 | 0.1 US | | 0 | | 21.2 | 0 | |
| | 10/29/2008 | 0.1 US | | 0 | | M | 0 | |
| | 4/14/2009 | 0.1 US | | 0 | | 19.4 | 0 | |
| | 7/8/2009 | 0.1 US | | 0 | | 20.5 | 0 | |
| | 10/28/2009 | 0.1 US | | 0 | | 20.1 | 0 | |
| | 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 | |
| NE Property I | ine | | | | | | | |
| | 8/4/2004 | 0.1 US | | | | | | |
| | 10/27/2004 | 0.1 US | | | | | | |
| | 5/9/2005 | 0.1 US | | 0 | | 20.7 | | |
| | 8/1/2005 | 0.1 US | | 0 | | 20.1 | | |
| | 9/19/2005 | 0.1 US | | 0 | | 20.8 | | |
| | 12/27/2005 | 0.1 US | | 0 | | 20.7 | 0 | |
| | 5/22/2006 | 0.1 US | | 0 | | 20.8 | 0 | |
| | | | | -4 007 0 00 | | | | 16-631 |

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FOR: Juniper Ridge Landfill

SUMMARY REPORT

Methane - H2S - Oxygen - CO2 - Report

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SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD

| FOR: Juniper | DK: Juniper Kloge Candrill | | | Methane - H2S - Oxygen - CO2 - Report | | | | | | |
|-------------------------------------|---|--|------------------------------------|---------------------------------------|---------------------------------|---|----------------------------|-------------|--|--|
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | e Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | | | |
| | Date | % Vol. | % Vol. | ppm | ppm | % Vol. | % Vol. | | | |
| NIE D I i | | | | | | | <u></u> | | | |
| NE Property Line | 2010000 | 04115 | | 0 | | 19.8 | 0 | | | |
| | 26/2006 | 0.1 US | | 0 | | 20.9 | ō | | | |
| | 11/2006 | 0.1 US | | 0 | | 19.3 | 0 | | | |
| | /4/2006 | 0.1 US | | 0 | | | | | | |
| | 15/2007 | 0.1 US | | 0 | | 20.2 | 0 | | | |
| | 25/2007 | 0.1 US | | 0 | | 20.3 | 0 | | | |
| 9/ | 10/2007 | 0.1 US | | 0 | | 20.3 | 0 | | | |
| | 21/2008 | 0.1 US | | 0 | | 20.8 | 0 | | | |
| 7/3 | 30/2008 | 0.1 U\$ | | 0 | | 20.8 | 0 | | | |
| 10/3 | 28/2008 | 0.1 US | | 0 | | М | 0 | | | |
| 4/ | 14/2009 | 0.1 US | | ٥ | | 20.8 | 0 | | | |
| 7 | /6/2009 | 0.1 US | | 0 | | 19.6 | 0 | | | |
| 10/ | 28/2009 | 0.1 US | | 0 | | 20.2 | 0 | | | |
| 4/ | 27/2010 | 0.1 US | | 0 | | 20.5 | 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 | 20.8 | 0 | | | |
| 7/ | 20/2011 | 0.1 US | 0.1 US | 0 | 0 | 20 | 0 | | | |
| 10/ | 26/2011 | 0.1 US | 0.1 US | C | 0 | 20.6 | 0 | | | |
| | 24/2012 | 0.1 US | 0.1 US | 0 | 0 | 20.5 | 0 | | | |
| | 25/2012 | 0.1 US | 0.1 US | 0 | 0 | 20.6 | 0 | | | |
| | 24/2012 | 0.1 US | 0.1 US | 0 | 0 | 20.9 | 0 | | | |
| | 24/2013 | 0.1 US | 0.1 US | 0 | 0 | 20.7 | C | | | |
| | 30/2013 | 0.1 US | 0.1 US | 0 | 0 | 20.7 | 0 | | | |
| | 29/2013 | 0.1 US | 0.1 US | Ŏ | 0 | 21.2 | 0 | | | |
| 1 | 23/2010 | | | | in the overburden | | nt of the landfill, | between the | | |
| P-04-02 | | | ate pond and | | | v | | | | |
| | 5/5/2004 | 0.1 US | | | | | | | | |
| į | 3/4/2004 | 0.1 US | | | | | | | | |
| 10/ | 27/2004 | 0.1 US | | | | | | | | |
| ļ | 5/9/2005 | 0.1 | | 0 | | 20 | | | | |
| ; | 3/1/2005 | 0.1 US | | 0 | | 20.3 | | | | |
| 9/ | 22/2005 | 0.1 US | | 6 | | 20.4 | | | | |
| 12 | 27/2005 | 0.1 US | | 0 | | 20.8 | 0 | | | |
| 5 | 22/2006 | 0.1 US | | 0 | | 21.3 | 0 | | | |
| 7: | 26/2006 | 0.1 US | | 0 | | 19.9 | 0 | | | |
| 9. | 11/2006 | 0.1 US | | 0 | | 20.3 | 0 | | | |
| 1 | 0/4/2006 | 0.1 US | | 0 | | 18.5 | 0 | | | |
| | /15/2007 | 0.1 US | | 0 | | 20.5 | 0 | | | |
| | /25/2007 | 0.1 US | | 0 | | 20.1 | 0 | | | |
| | /10/2007 | 0.1 US | | 0 | | 20.3 | 0 | | | |
| - | ,4.240 | • | | | | | 0 | | | |
| 5 | /21/2008 | 0.1118 | | 0 | | 19.9 | • | | | |
| | /21/2008 | 0.1 US 0.1 US | | | | | | | | |
| 7. | /30/2008 | 0.1 US | | 0 | | 20.6 | 0 | | | |
| 7. 10 | /30/2008 /29/2008 | 0.1 US 0.1 US | | 0 | | 20.6 M | 0 0 | | | |
| 7 10 4 | /30/2008 /29/2008 /1 <mark>4/200</mark> 9 | 0.1 US 0.1 US 0.1 US | | 0 0 0 | | 20.6 M 21 | 0 0 0 | | | |
| 7 10 4 | /30/2008 /29/2008 /14/2009 7/6/2009 | 0.1 US 0.1 US 0.1 US 0.1 US | | 0 0 0 | | 20.6 M 21 20.7 | 0 0 0 | | | |
| 7. 10 4 10 | /30/2008 /29/2008 /14/2009 7/6/2009 /27/2009 | 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US | | 0 0 0 0 | | 20.6 M 21 20.7 20.3 | 0 0 0 0 | | | |
| 7. 10 4 10 4 | /30/2008 /29/2008 /14/2009 7/6/2009 /27/2009 /26/2010 | 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US | | 0 0 0 0 | | 20.6 M 21 20.7 20.3 20 | 0 0 0 0 0 | | | |
| 7. 10 4 10 4 7 | /30/2008 /29/2008 /14/2009 /7/6/2009 /27/2009 /26/2010 /21/2010 | 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US | | 0 0 0 0 0 | 2 | 20.6 M 21 20.7 20.3 20 20.1 | 0 0 0 0 0 0 | | | |
| 7. 10 4 10 4 7 10 | /30/2008 /29/2008 /14/2009 7/6/2009 /27/2009 /26/2010 | 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US 0.1 US | 0.1 US 0.1 US | 0 0 0 0 | 0 0 | 20.6 M 21 20.7 20.3 20 | 0 0 0 0 0 | | | |

Page 18 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report CUMBERLAND CENTER, ME 04021 Carbon Dioxide Methane Methane Hydrogen Sulfide Hydrogen Sulfide Oxygen Equivalent (Ambient) Equivalent (Ambient) Date % Vol. % Vol. % Vol. ppm ppm % Vol. P-04-02 monitors the water quality in the overburden downgradient of the landfill, between the P-04-02 leachate pond and landfill toe. 0 0 19.9 7/20/2011 0.1 US 0.1 US Q 0 0 20.6 0.1 US 0.1 US 10/26/2011 0 0 20.4 0 4/25/2012 0.1 US 0.1 US 0 0.1 US 0.1 US 0 0 20.9 7/25/2012 0 20.9 0 0 10/24/2012 0.1 US 0.1 US 4/22/2013 1 P-04-02 monitors the water quality in the overburden downgradient of the landfill, between the P-04-04 leachate pond and landfill toe. 0.1 US 5/5/2004 0.1 US 8/4/2004 10/27/2004 0.1 US 0 19.9 0.1 5/9/2005 0 20.4 8/1/2005 0.1 US 4 20.6 9/22/2005 0.1 US 0 20.8 0 12/27/2005 0.1 US 0 0 21.3 5/22/2006 0.1 US 0 0 7/26/2006 0.1 US 19.8 0 20.3 0 9/11/2006 0.1 US 0 0 18.5 10/4/2006 0.1 US 0 20.1 0 5/15/2007 0.1 US 0 0 20.1 7/25/2007 0.1 US 20.4 0 0.1 US 0 9/10/2007 0 0 20.3 5/21/2008 0.1 US 0 20.8 0 7/30/2008 0.1 US 0 0 М 0.1 US 10/29/2008 0 21 4/14/2009 0.1 US 0 0 20.6 0 7/6/2009 0.1 US 20.3 0 0 10/27/2009 0.1 US 0 20 0 4/26/2010 0.1 US 20.2 0 0.1 US 0 7/21/2010 0 0.1 US 0 0 21.3 10/20/2010 0.1 US 0 0 20.8 0 4/27/2011 0.1 US 0.1 US 0 0 19.9 0 7/20/2011 0.1 US 0.1 US 0 0 0 20.6 10/26/2011 0.1 US 0.1 US 0 0 4/25/2012 0.1 US 0.1 US 0 20.4 0 0 0 20.9 7/25/2012 0.1 US 0.1 US 0 0.1 US 0 0 21 10/24/2012 0.1 US 0 0 0 20.8 4/24/2013 0.1 US 0.1 US 0 0 0 20.4 0.1 US 7/31/2013 0.1 US 0 0 20.7 0.1 US 0 10/30/2013 0.1 US P-206A 0 0 20.5 0 7/31/2013 0.1 US 0.1 US 0 20.8 0 0.1 US 0 10/28/2013 0.1 US S Property Line 5/5/2004 0.1 US 8/4/2004 0.1 US 10/27/2004 0.1 US 20.7 5/9/2005 0.1 US 0

Page 19 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report Hydrogen Sulfide Hydrogen Sulfide Oxygen Carbon Dioxide Methane Methane (Ambient) Equivalent Equivalent (Ambient) Date % Vol. % Vol. % Vol. ppm ppm % Vol. S Property Line 0 20.4 8/1/2005 0.1 US 0 20.8 0.1 US 9/19/2005 0 20.6 0 12/27/2005 0.1 US 0 20.7 0 0.1 US 5/22/2006 0 0 19.9 7/26/2006 0.1 US 0 20.8 9/11/2006 0.1 US 0 19.2 0 0 10/4/2006 0.1 US 0 0 20.2 0.1 US 5/15/2007 0 20.4 0 7/25/2007 0.1 US 20.1 0 0 0.1 US 9/10/2007 20.7 0 0 5/21/2008 0.1 US 0 20.8 7/30/2008 0.1 US 0 0 0 М 10/28/2008 0.1 US 0 20.7 0 4/14/2009 0.1 US 19.6 0 0 7/6/2009 0.1 US 0 20.2 0 0.1 US 10/28/2009 20.6 0 0 4/27/2010 0.1 US 0 20.2 0 7/20/2010 0.1 US 0 21 0 0.1 US 0 0.1 US 10/20/2010 0 20.7 0 0 0.1 US 4/27/2011 0.1 US 0 0 20 0.1 US 0 7/20/2011 0.1 US 20.6 0 0 0 10/26/2011 0.1 US 0.1 US 0 0 0 20.5 0.1 US 4/24/2012 0.1 US 0 0 0 20.6 0.1 US 7/25/2012 0.1 US 0 20.9 0 0 0.1 US 10/24/2012 0.1 US 0 0 20.7 4/24/2013 0.1 US 0.1 US 0 0 0 20.6 0 0.1 US 7/30/2013 0,1 US 0 0 21.2 0 10/29/2013 0.1 US 0.1 US W Property Line A 5/5/2004 0.1 US 0.1 US 8/4/2004 10/27/2004 0.1 US 20.7 0 5/9/2005 0.1 US 0 20.1 8/1/2005 0.1 US 20.8 9/19/2005 0.1 US 0 20.7 0 0 12/27/2005 0.1 US 0 20.7 0.1 US 0 5/22/2006 0 0 19.7 7/26/2006 0.1 US 0 0 20.8 9/11/2006 0.1 US 0 0 19.3 10/4/2006 0.1 US 0 0 20.1 0.1 US 5/15/2007 0 20.3 0 0.1 US 7/25/2007 0 0 20.3 9/10/2007 0.1 US 0 20.6 0 5/21/2008 0.1 US 20.8 0 0 7/30/2008 0.1 US 0 0 М 0.1 US 10/28/2008 0 20.7 0 4/14/2009 0.1 US 0 0 19.6 0.1 US 7/6/2009 0 20.1 0 10/28/2009 0.1 US 20.5 0 0 4/27/2010 0.1 US

Page 20 of 21 SUMMARY REPORT REPORT PREPARED: 3/17/2014 10:02 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 FOR: Juniper Ridge Landfill Methane - H2S - Oxygen - CO2 - Report Carbon Dioxide Hydrogen Sulfide Hydrogen Sulfide Oxygen Methane Methane Equivalent (Ambient) Equivalent (Ambient) % Vol. Date % Vol. % Vol. % Vol. ppm ppm W Property Line A 20.1 0 0 0.1 US 7/20/2010 0 0 0 21.1 0.1 US 10/20/2010 0.1 US 0 20.8 0 0 0.1 US 0.1 US 4/27/2011 0 0 0 20 0.1 US 7/20/2011 0.1 US 0 0 20.6 0 10/26/2011 0.1 US 0.1 US 0 0.1 US 0 0 20.5 4/24/2012 0.1 US 0 0 0 20.6 0.1 US 0.1 US 7/25/2012 0 0 0 20.9 0.1 US 10/24/2012 0.1 US 0 20.7 0 0 0.1 US 0.1 US 4/24/2013 0 20.7 0 0 0.1 US 7/30/2013 0.1 US 0 0 0 21.3 10/29/2013 0.1 US 0.1 US W Property Line B 5/5/2004 0.1 US 8/4/2004 0.1 US 10/27/2004 0.1 US 20.7 0 5/9/2005 0.1 US 0 20.3 8/1/2005 0.1 US 20.8 0 9/19/2005 0.1 US 20.6 0 0 12/27/2005 0.1 US 0 0 20.7 0.1 US 5/22/2006 0 19.7 0 7/26/2006 0.1 US 0 0 20.9 9/11/2006 0.1 US 0 19.3 0 10/4/2006 0.1 US 0 20 0 5/15/2007 0.1 US 0 20.3 0 0.1 US 7/25/2007 0 20.2 0 9/10/2007 0.1 US 20.7 0 0 0.1 US 5/21/2008 0 20.9 0 7/30/2008 0.1 US 0 М 10/28/2008 0 0.1 US 0 20.6 0 4/14/2009 0.1 US 0 0 19.7 0.1 US 7/6/2009 20.1 0 0 10/28/2009 0.1 US 0 20.5 0 4/27/2010 0.1 US Ð ٥ 20.1 0.1 US 7/20/2010 0 21 0 0.1 US 0.1 US 0 10/20/2010 0 0 20.7 0 0.1 US 4/27/2011 0.1 US 0 20 0 0.1 US 0.1 US 0 7/20/2011 20.6 0 0 0 0.1 US 0.1 US 10/26/2011 0 0 0 20.5 0.1 US 0.1 US 4/24/2012 0 0 20.6 0 0.1 US 0.1 US 7/25/2012 0 0 0 20.9 0.1 US 0.1 US 10/24/2012 0 20.7 0 0.1 US 0 4/24/2013 0.1 US 0 0 0 20.7 0.1 US 7/30/2013 0.1 US 0 21.3 0 0 0.1 US 10/29/2013 0.1 US

| REPORT PREPARED: FOR: | 3/17/2014 10:02 Juniper Ridge Lar | ndfill | | | SUMMARY REP | | ort | Page 21 of 21 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 |
|--------------------------|--------------------------------------|-----------------------|------------------------------------|------------------|-------------------------------|--------|----------------|---|
| | | Methane Equivalent | Methane Equivalent (Ambient) | Hydrogen Sulfide | Hydrogen Sulfide (Ambient) | Oxygen | Carbon Dioxide | , |
| | Date | % Vol. | % Vol | ppm | ppm | % Vol. | % Vol. | |

Notes:

TYPE - Sample Type Qualifier where \mathbf{D} = Duplicate Sample.

Concentration Qualifier Notes:

- ! The sampling location was damaged or destroyed.
- A The sampling location was Inaccessible
- DE Decommissioned Location
- 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.

APPENDIX F

2013 AND HISTORICAL FALL SPECIFIC CONDUCTIVITY DATA (EXPANDED LOCATIONS)

| | | | | | | | | LACY DEC | | | - - | | | Page 1 c | of G | |
|---------------------------------------|--------------------------|-------------------------|----------------------|--------------------------|----------------|---------|-------------|-------------|---------------|------------------|-------------------------|--------------|--------------|--|---|----------------|
| REPORT PRE | PARED: 4/11/2014 | | | | | | | IMARY REP | | | | | | SEVEE | MAHER ENG | INEERS, INC. |
| | FOR: Juniper R | idge Earloisi | | | | | Conducti | vity and Wa | ter Levels | | | | | | CHARD ROAD RLAND CENTE | R, ME 04021 |
| (DP-4) | · | Specific Conductance | Water Level Depth | Water Level Elevation | Well Depth | | | | | | | - | | | | |
| (52 4) | | μmhos/cm | Feet | Feet | Feet | | | | | | | | | | | |
| Date | | @25°C | | | | | | | | | | | | | | |
| DP-4 | | | | | | | | | | | | | | | | |
| | 10/26/2009 | 409 | 13.68 | 155.69 | 27.05 | | | | | ĭ | | | | |] | <u> </u> |
| | 10/18/2010 | 401 | 14.98 | 154.39 | 27.1 | | _ | 1 | | | | | | | - | |
| | 10/24/2011 | 256 | 16.95 | 152.42 | 27.06 | | | | | · | | | <u> </u> | ļ | | - |
| | 10/24/2012 | 302 | 14.08 | 155.29 154.47 | 27.06 27.06 | | | | | | | | | 1 | | + |
| | 10/30/2013 | 273 | 14.9 | 154.47 | 27.06 | | | | | | | l | | | | |
| MW04-101 | | | _ | | | | | | | | | | | | | |
| | 10/28/2008 | 176 | | | | | | | | | | | | 1 | | |
| | 10/27/2009 | 191 | 41 | 163.82 | 23.75 | | | + | + | | | 1 | | - | ļ · | + |
| | 10/18/2010 | 198 | 5.1 | 162.82 | 23.75 | | | 1 | | . | + | 1 | | ļ.—— | + | 1 |
| · · · · · · · · · · · · · · · · · · · | 10/25/2011 | 177 | 5.7 | 162.22 162.47 | 23.75 23.75 | · · · — | | | | | | + | | · | + | 1 |
| | 10/22/2012 10/28/2013 | 196 186 | 6.42 | 161.5 | 23.82 | | + | + | | -+ | | + | | | · · | 1 |
| 3 5 3 3 7 0 4 1 0 0 | | 100 | 0.42 | 101.0 | 20.02 | | | | l | | | | | | 1 | - |
| MW04-102 | 2 | | | | , | | | | | | · | | | | ı· · | |
| | 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 7.1 | 164.44 163.12 | 17.98 18.05 | | | | | + | | | ···· | ł | | |
| | 10/28/2013 | 207 | 1 7.3 | | 18.03 | | l | | | | 1 | | <u></u> | | | <u> </u> |
| MW04-10- | 4 | | | | | | | , | | | | | | | , | ·- |
| | 10/28/2008 | 192 | | | | | | | | | | <u> </u> | | | - | |
| | 10/27/2009 | 213 | 7.3 | 160.76 | 28 | | | | | | | | | | | + |
| | 10/18/2010 | 229 | 8 | 160.06 | 28 | | | | | · | | | · • | | | |
| | 10/25/2011 | 206 | 8 | 160.06 160.56 | 28 28 | | | | | + | | | | | | |
| | 10/22/2012 | 231 | 7.5 | 159.06 | 28.05 | | | + | | | - | - | | | - | |
| | 10/29/2013 | 1 209 | .i 9 | 159.00 | 20.03 | | | | | L | | 1 | | | | |
| MW04-10: | 5 | _ | | | | | | | | | 1. | | , | | | 1 |
| | 10/26/2009 | 528 | 5.8 | 159.79 | 22.75 | | | | | | | | | | + | |
| | 10/18/2010 | 306 | 6.9 | 158.69 | 22.75 | | | İ | | | | | | + | <u> </u> | ···- |
| | 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 | | l | | - | L | | | | | | |
| MW04-10 | 9R | | | | | | | | | | | | | | | |
| | 10/19/2010 | 488 | 6.6 | 153.53 | 22.92 | | | | | | | | | <u> </u> | | <u> </u> |
| | 10/25/2011 | 416 | 6.62 | 153.51 | 22.95 | | | | | | | | | | | - { |
| | 10/23/2012 | 404 | 6.4 | 153.73 | 22.92 | | <u> </u> | | <u> </u> | <u> </u> | | | · ·——— | | | |
| | 10/29/2013 | 397 | 7.41 | 152.72 | 22.97 | | | | | _1 | | | ·- | ــــ | | |
| MW09-90 | 1 | | | | | | | | | | | | | | | |
| <u> </u> | 10/19/2010 | 300 | 9.25 | 155.85 | 22.75 |] | 1 | | - i | - 1 | | | | | | |
| · · · · · · · · · · · · · · · · · · · | 10/23/2012 | 197 | 8.8 | 156.3 | 22.73 | | | | | | | | | | | |
| | 10/29/2013 | 195 | 10.63 | 154.47 | 22.8 | | | | | | | | l | | | |
| MW11-20 | | | • | | | • | • | | | | | | | | | |
| 171 77 11-20 | | 1 22 | T 7.72 | 900.00 | T ,, | | | | | | | | | | T | |
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| | 10/22/2012 | 88 | <u>. 5.5/</u> | ∠08.50 | 44.2 | L | | | | | | | | | 1 | |

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| | FOR: Juniper R | | | | | | | vity and Wate | | | | | | 4 BLAN | & MAHER ENG CHARD ROAD RLAND CENT | |
| (MW11-207R) | | Specific Conductance | Water Level Depth | Water Level Elevation | Well Depth | | | | | | | | | ***** | | , |
| Date | | μmhos/cm @25°C | Feet | Feet | Feet | | | | | | | | | | | |
| | 10/28/2013 | 82 | 14.54 | 200.59 | 44.11 | Т | ! | | 1 | 1 | | | | 1 | I | |
| MW12-303R | | 02 | 14.04 | 250.55 | .1 | <u>i </u> | | | .L | I. | 1 | | | 1 | | <u> </u> |
| 141 44 12-303 N | | 1 | 07.47 | | 43 32 | 1 | | 1 | | | | 1 | 1 | | - | |
| | 10/23/2012 | 189 223 | 27.47 27.43 | | 43.38 | | | | | | | 1 | | | | · - |
| MW-204 | 10/20/2010 | J <u>223</u> | 21.40 | | J. 10.00 | | | | | | | | | | | |
| | | | | - 1 ··· | | т | 1 | | | | 1 | | 1 | | -, | 1 |
| | 10/26/2009 | 309 200 | 9.32 | <u>156.05</u> 155.43 | 24.42 | | | | | | | | + | | | |
| | 10/19/2010 10/26/2011 | 180 | 9.32 | 155.65 | 24.45 | | + | | - | | | | | + | | |
| | 10/24/2012 | 193 | 9 05 | 155.7 | 24.45 | <u> </u> | | | | | | | - | - | | |
| | 10/30/2013 | 185 | 9.95 | 154.8 | 24.43 | 1 | | | T | | | | | | | |
| MW-216BR | | | | | | | • | | | | | | | | | |
| | | 700 | 5.51 | 153.89 | 22.46 | 1 | | | | | | 1 | | :, | | |
| | 10/19/2010 10/25/2011 | 289 400 | 5.48 | 153.92 | 22.48 | 1 | <u> </u> | | | | | 1 | | | | |
| | 10/23/2012 | 334 | 52 | 154.2 | 22.45 | | | | | | | - | | | - | 1 |
| | 10/29/2013 | 278 | 6.35 | 153.05 | 22.53 | | | | | | ŀ | | | | | |
| MW-223A | | ' | | | | | | | | | | | | | | |
| | | ·T | 1 | 175.19 | 35.44 | Т | 1 | | 1 | · · | | | | | I | |
| | 10/27/2009 | 271 326 | 1.35 | 174.34 | 35.42 | <u> </u> | | | | · | | + | | 1 | - | |
| | 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 | | | 1 | | | | | | <u> </u> | _l | |
| MW-223B | | | | | | | | | | | | | | | | |
| | 10/27/2009 | 331 | 2.65 | 173.28 | 19.95 | | _[| | Ţ :— = | 1 | | | | | | |
| | 10/19/2010 | 316 | 3.45 | 172.48 | 20 | | | | Ι | | | | | | 1 | |
| | 10/25/2011 | 327 | 2.2 | 173.73 | 19.93 | <u> </u> | | | | | | | | | | |
| | 10/23/2012 | 333 | 2 1 | 173.83 | 20.05 | ļ | | | | | <u> </u> | -i | <u> </u> | | - | |
| | 10/29/2013 | 336 | 3.3 | 172.63 | 20.07 | i | | | | | | | | | ـــــ لــ | |
| MW-227 | | | | | | | | | | | | | | | | |
| | 10/27/2009 | 182 | 4.1 | 160.13 | 22.2 | T | . | | 1 | | | | | | <u> </u> | |
| | 10/19/2010 | 189 | 4.42 | 159.81 | 22.3 | | | | <u> </u> | | | | | | <u> </u> | |
| | 10/25/2011 | 188 | 4.05 | 160.18 | 22.28 | | 1 | | | | | | | | | <u>:</u> |
| | 10/23/2012 | 201 | 4.23 | 160 | 22.3 | + | | | ···- | | | | | | + | : |
| | 10/29/2013 | 177 | 4.65 | 159.58 | 22.28 | | | | ! | | | | | | | |
| MW-301 | | | | | , | | <u> </u> | | | | | – r· ––– | | 1 | | _T |
| | 10/26/2009 | 276 | 4.25 | 162.11 | 185.15 | | | | l | | | | | | | |
| | 10/19/2010 | 340 | 4.96 | 161.4 | 182.45 | | + | | | | | | | | + | |
| | 10/26/2011 | 204 | 4.11 | 162.25 161.8 | 185.1 179.61 | -: | + | | + | | | | | | 1 | |
| | 10/24/2012 | 171 198 | 0.1 | 165.81 | 184.1 | | .: | + | | | | | <u> </u> | | | |
| | 10/30/2013 | 1 150 | J 0.1 | 195.61 | 1 104.1 | <u>'</u> | | | ⊥ – | | | | | - | | |
| MW-302R | | , | | , | | | | | - ₁ | | | | | | | |
| | 10/27/2009 | 470 | 8.46 | 198.4 | 32.25 | | | | ļ | | | | <u> </u> | ļ | + | <u> </u> |
| | 10/18/2010 | 649 | 8.05 | 198.81 | 32.22 | + | | · | | | | + | | | + | |
| | 10/24/2011 10/22/2012 | 400 463 | 6.6 | 200.26 | 32.2 | + | | | | | + | | + | | + | |
| | 10/22/2012 | 403 | | £02.14 | 32.2 | | _ 1 | | | | | | | | | |

Page 3 of 6 REPORT PREPARED: 4/11/2014 14:54 SUMMARY REPORT SEVEE & MAHER ENGINEERS, INC. FOR: Juniper Ridge Landfill Conductivity and Water Levels 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021 Specific Water Level Water Level Well Depth (MW-302R) Conductance Depth Elevation µmhos/cm Feet Feet Feet @25°C Date 10/28/2013 341 14.15 192.71 32.22 MW-401A 10/28/2009 4.12 152.71 111.98 165 10/20/2010 5.52 151.31 112.1 191 10/24/2011 128 3.62 153.21 112.02 10/22/2012 0.93 155.9 112.02 119 10/28/2013 140 6.1 150.73 112.04 MW-401B 150.72 520 6.6 23.2 10/28/2009 23,1 10/20/2010 514 6.82 150.5 10/24/2011 319 6.63 150.69 23.12 23.13 10/22/2012 310 6.35 150.97 10/28/2013 376 7.2 150.12 23.11 MW-402A 10/28/2009 F1 108.45 183 10/20/2010 197 F1 108,35 152.2 10/26/2011 0 108.35 130 108.35 10/24/2012 116 F1 10/30/2013 141 0 152.2 108.35 MW-402B 149.76 25.26 2.98 10/28/2009 215 10/20/2010 246 3.4 149.34 25.18 149.79 10/26/2011 160 2.95 25.18 10/24/2012 2.9 149.84 25.2 141 174 3.8 148.94 25 18 10/30/2013 P-04-04 7.96 161 39 32.21 10/27/2009 175 160 35 32.25 10/20/2010 177 9 10/26/2011 181 9.3 160.05 323 8.9 160,45 32,33 10/24/2012 158 194 10.01 159.24 32.26 10/30/2013 P-201A 10/29/2008 123 F1 70.25 328 F1 10/27/2009 10/19/2010 287 2.46 147.09 a 131 1.92 147.63 21.84 10/25/2011 7.5 Q 10/23/2012 118 1.8 147.75 10/30/2013 232 2.65 146.9 22 95 P-201B 10/29/2008 146 195 10/27/2009 F1 68.1 10/19/2010 248 F1 67.92 0.05 10/25/2011 150 152 13 68.1 120 F1 71.1 10/23/2012 10/30/2013 147 0 152.18 69.3

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| | FOR: Juniper Ri | dge Landfill | | | | Conductivity and Water Levels 4 BLANCHARD ROAD CUMBERLAND CENTE | R, ME 0402 | | | |
| (P-201C) Date | .,, - | Specific Conductance µmhos/cm @25°C | Water Level Depth Feet | Water Lovel Elevation Feet | Well Depth Feet | | | | | |
| P-201C | | | | | ·· | | | | | |
| | 10/29/2008 | 136 | 1 | | TL | | | | | |
| | 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 | | i | | | |
| P-201D | | | ą. · · · | | - | | | | | |
| | 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 | 143 128 | F1 3.1 | 148.23 | 43.02 | | | | | |
| • | 10/23/2012 10/30/2013 | 279 | 2.57 | 148.76 | 49.8 | | | | | |
| P-201E | | | | | | i distriction of the second of | | | | |
| | | | | γ | | | [| | | |
| | 10/29/2008 | 249 532 | 2.2 | 450.00 | a | | | | | |
| | 10/27/2009 10/19/2010 | 286 | F1 | 150,06 | 71.1 | | | | | |
| · | 10/19/2010 | 225 | F1 | + | 69.8 | | | | | |
| | 10/23/2012 | 135 | F1 | | 67.93 | | | | | |
| | 10/30/2013 | 281 | 1.11 | 151.15 | 44.15 | | | | | |
| P-202A | | | | | | | | | | |
| | 10/27/2008 | 162 | | i | T | | | | | |
| <u> </u> | 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 | | _i | | | |
| P-202B | - | | | | | | | | | |
| | 10/27/2008 | 155 | | | | | | | | |
| | 10/27/2009 | 250 | 2.2 | 147.17 | 0 | | | | | |
| | 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 | | | | | |
| P-206A | | | | | | | · | | | |
| | 10/28/2013 | 126 | 22.9 | 181.61 | 93.5 | | | | | |
| P-209A | | | | | | | - , | | | |
| | 10/29/2008 | 69 | | Τ — | | | | | | |
| | 10/27/2009 | 93 | 3.85 | 174.94 | 55.95 | | | | | |
| | 10/19/2010 | 282 | 6.58 | 172.21 | 55.9 | | i | | | |
| | 10/25/2011 | 124 | F1 | | 55.9 | | | | | |
| | 10/23/2012 | 45 | F1 | | 55.91 | | <u> </u> | | | |
| | 10/29/2013 | 84 | 9.3 | 169.49 | 56.1 | | | | | |

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| | FQR: Juniper R | idge Landfill | | | | Conductivity and Wat | | | | | | SEVEE 8 4 BLANC CUMBER | MAHER ENGI CHARD ROAD RLAND CENTER | NEERS, INC R, ME 04021 |
| (P-209B) | | Specific Conductance | Water Level Depth | Water Level Elevation Feet | Well Depth Feet | | | | | | | | | |
| Date | | μπhos/cm @25°C | Feet | rea | reei | | | | | | | | | |
| P-209B | | | | | - | | | | | | | | | |
| | 10/29/2008 | 100 | | | 1 1 | | | | | | | | <u> </u> | |
| | 10/27/2009 | 70 | 4.25 | 174.57 | 30.75 | | | | | | | | <u> </u> | |
| | 10/19/2010 | 240 | 6.85 | 171.97 | 30.71 | | 1 | | | | | Ĺ | <u> </u> | l |
| | 10/25/2011 | 69 | 0.15 | 178.67 | 30.66 | - | | | | i | Ϊ΄ | | L | |
| | 10/23/2012 | 76 | F1 | ┪ | 30.75 | | | | | | 1 | l | | <u>.</u> |
| | 10/29/2013 | 124 | 94 | 169.42 | 30.83 | | | | | | T | | |] |
| P-209C | | | . | J | · | | | | | | | | | |
| | 10/29/2008 | 71 | | |] | | | | T | | | T |][| |
| | 10/27/2009 | D | <u>D</u> | + | 12.75 | | | | T | | | | | |
| | 10/19/2010 | D | <u>D</u> | | 12.76 | | _1 | | T - | | T |] | | Ĺ |
| | 10/25/2011 | 95 | 3.15 | 175.73 | 12.82 | | | | | | | T | | |
| | 10/23/2012 | 55 | 3.2 | 175 68 | 12.75 | | | | | | | T | | |
| | 10/29/2013 | D | 12.61 | 166.27 | 12.63 | | - | | | | i | | Ī | |
| P-211A | | 1 - | | | 1 | , | ' | | | | | | ,,, | |
| 1-2117 | | | | | | | | | | | | T | · · · · · · · · · · · · · · · · · · · | 1 |
| | 10/27/2008 | 73 | | | 95.0 | | | <u> </u> | + | | + | | | |
| | 10/27/2009 | 83 | 5.5 | 17B.07 | 25.6 | <u> </u> | + | | | ł | + | . — | | · · — |
| | 10/18/2010 | 87 | 6 | 177.57 | 25.6 | | | | +- · · | | | | | |
| | 10/25/2011 | 140 | 5.4 | 178.17 | 25.6 | | | | + | | + | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | ! |
| | 10/22/2012 | 176 | 3.6 | 179.77 | 25.62 | | <u>-</u> | | ļ | · — | | | · | i |
| | 10/29/2013 | 215 | 7.4 | 176.17 | 25.63 | 1 1 | L | J | | | | _! | | |
| P-211B | | | | | | | | | _ | | | | | |
| | 10/27/2008 | 115 | | T "- | | | . | ļ | · · | | | <u>],</u> | · | |
| | 10/27/2009 | 96 | 6.1 | 177.87 | 13.43 | | | _ i | 1 | | | | j | |
| | 10/18/2010 | 101 | 6.4 | 177.57 | 13.42 | | | | | | | | <u> </u> | |
| | 10/25/2011 | 123 | 6.1 | 177.87 | 13.45 | | | | | | | | | ļ |
| | 10/22/2012 | 165 | 4.3 | 179.67 | 13,43 | | | | | | 1 | |] | |
| | 10/29/2013 | 194 | 7.8 | 176.17 | 13.5 | ! | | | | | l | | . l <u></u> | |
| P-220A | | | | · | | | | | | | | | | |
| 1 -44UA | | | | | ¬ • · | | | 1 | | 1 | 1 | 1 | 1 . | . 1 |
| | 10/29/2008 | 170 | J | | 40.0 | <u>_</u> | | | + | · · | 1 | | | + |
| | 10/27/2009 | 223 | F1 | | 40.9 | | . — | | | 1 | + | + | | |
| | 10/18/2010 | 264 | F1 | _ · | 40.95 | | | | · | 1 | | + | + | |
| | 10/26/2011 | 172 | F1 | - | 40.91 | ···· — — — — — — — — — — — — — — — — — | | | + | | ·- | | - | |
| | 10/22/2012 | 157 | F1 | | 40.82 | | | | - | + | + | | + | + |
| | 10/28/2013 | 186 | F1 | 147.99 | 41.02 | | 1 | | | Т | | -i | | |
| P-220B | | | | | | | | | | , | | ~ | | 1 |
| | 10/29/2008 | 157 | | | <u> </u> | | | | <u> </u> | | <u> </u> | | <u> </u> | . |
| | 10/27/2009 | 239 | F1 | T | 22.85 | | | | | <u> </u> | 1 | <u> </u> | | |
| | 10/18/2010 | 309 | F1 | | 22.85 | | | | | | <u> </u> | | . 1 | |
| | 10/26/2011 | 202 | F1 | | 22.82 | | | | | | | | | |
| <u></u> ,, | 10/22/2012 | 233 | F1 | | 22.85 | | | | 1 | | | | | |
| | 10/28/2013 | 205 | F1 | 148.05 | 22.88 | | | 1 | | 1 | | | | |
| | 10/20/2013 | | | 1,40.00 | | ! | | | | | | | | • |

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|--|---|---|
| Specific Water Level Water Level We (P-220B) Specific Water Level We Conductance Depth Elevation | ll Depth | |
| μπολος/cm Feet Feet @25°C | Feet | |

Notes:

TYPE - Sample Type Qualifier where D = Duplicate Sample.

Concentration Qualifier Notes:

- D The sampling location was dry.
- F1 Well was flowing
- Q An obstruction prevented the collection of data.

ATTACHMENT G Landfill Gas Monitoring Evaluation

JUNIPER RIDGE LANDFILL

2013 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 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 the past year, including a comparison of the past year's results to the previous years' results is provided below.

Regular landfill gas monitoring activities occurred on site during 2013, including: (1) gas composition measurements at collection trenches and wells during well tuning, (2) continuous flow measurements at the gas combustion flare, and (3) gas composition measurements at the gas combustion flare during well-tuning activities.

2 Well Field Activity

During 2013, well field activities included the addition of new infrastructure, as well as discontinuing older infrastructure due to malfunction or construction related activities. Anomalies to the normal operation of the well field were recorded and monitored. A summary of anomalies within the JRL is provided below.

2.1 Active, New, and Discontinued Well Heads

At the beginning of 2013, the JRL well field consisted of 128 active gas collection wells and trenches. During the course of the year, 18 new wells and trenches were installed. These included 11 gas collection trenches and 7 vertical wells. A total of 146 well heads were monitored over the course of the year, and by the end of the year, 142 remained active. A total of 2 gas collection trenches, 1 vertical well and 1 condensate trap were discontinued during 2013. These wells were discontinued due to low methane production over a two year period or longer. Table 2-1 shows all the well heads that were monitored during 2013 and displays their status as of the end of 2013.

2.2 Changes and Anomalies in Well Field

More than 2500 measurements of flow, methane content, and gas temperatures in the JRL well field during 2013 and only four notable changes or anomalies were found in these measurements. These consist of single elevated gas temperature readings over 150 degrees Fahrenheit in gas wells JRGCT509, JRGCT511, JRGCT707, and JR-GW--P. The highest reading measured was 160 degrees Fahrenheit. Subsequent to the single measurements, the temperature values in these wells returned to the normal levels. All four readings were not atypical of temperatures present in construction and demolition debris landfills. The same can be said about JRL historically.

Table 2-1 All Well Heads Monitored at JRL, 2013

| Well ID | Well Type | Well Status | Well ID | Well Type | Well Status | Well ID | Well Type | Well Status |
|----------------------|-----------------|---------------|----------|------------|-------------|----------|------------|---------------------|
| JR-CT002 | Condensate Trap | Discontinued | JRGCT506 | Horizontal | Active | JR-GW-47 | Gas Well | Active |
| JR-GCT09 | Horizontal | Discontinued | JRGCT507 | Horizontal | Active | JR-GW-48 | Gas Well | Active |
| JR-GW-17 | Gas Well | Discontinued | JRGCT508 | Horizontal | Active | JR-GW-54 | Horizontal | Active |
| JR-LPC-3 | Horizontal | Discontinued | JRGCT509 | Horizontal | Active | JR-GW-55 | Gas Well | Active |
| JR7SOUTH | Horizontal | Added in 2013 | JRGCT510 | Horizontal | Active | JR-GW-56 | Gas Well | Active |
| JRGCT801 | Horizontal | Added in 2013 | JRGCT511 | Horizontal | Active | JR-GW-57 | Gas Well | Active |
| JRGCT802 | Horizontal | Added in 2013 | JRGCT512 | Horizontal | Active | JR-GW6 | Gas Well | Active |
| JRGCT803 | Horizontal | Added in 2013 | JRGCT513 | Horizontal | Active | JR-GW-64 | Gas Well | Active |
| JRGCT804 | Horizontal | Added in 2013 | JRGCT514 | Horizontal | Active | JR-GW-65 | Gas Well | Active |
| JRGCT805 | Horizontal | Added in 2013 | JRGCT601 | Horizontal | Active | JR-GW-66 | Gas Well | Active |
| JRGCT806 | Horizontal | Added in 2013 | JRGCT602 | Horizontal | Active | JR-GW7 | Gas Well | Active |
| JRGCT807 | Horizontal | Added in 2013 | JRGCT603 | Horizontal | Active | JR-GW-74 | Gas Well | Active |
| JRGCT808 | Horizontal | Added in 2013 | JRGCT604 | Horizontal | Active | JR-GW-75 | Gas Well | Active |
| JRGCT809 | Horizontal | Added in 2013 | JRGCT605 | Horizontal | Active | JR-GW-82 | Gas Well | Active |
| JRGCT810 | Horizontal | Added in 2013 | JRGCT606 | Horizontal | Active | JR-GW-83 | Gas Well | Active |
| JR-GW-13 | Gas Well | Added in 2013 | JRGCT607 | Horizontal | Active | JR-GW-90 | Gas Well | Active |
| JR-GW-14 | Gas Well | Added in 2013 | JRGCT608 | Horizontal | Active | JR-GW-91 | Gas Well | Active |
| | | Added in 2013 | | | | | | |
| JR-GW-16 JR-GW-22 | Gas Well | | JRGCT609 | Horizontal | Active | JR-GW-A | Gas Well | Active Town Diggt'd |
| | Gas Well | Added in 2013 | JRGCT610 | Horizontal | Active | JR-GW-B | Gas Well | Temp Disct'd |
| JR-GW-23 | Gas Well | Added in 2013 | JRGCT701 | Horizontal | Active | JR-GWD | Gas Well | Active |
| JR-GW-25 | Gas Well | Added in 2013 | JRGCT702 | Horizontal | Active | JR-GWE | Gas Well | Active |
| JR-GW-32 | Gas Well | Added in 2013 | JRGCT703 | Horizontal | Active | JR-GWF | Gas Well | Active |
| JR-3W-01 | Horizontal | Active | JRGCT704 | Horizontal | Active | JR-GW-G2 | Gas Well | Active |
| JRGC401A | Horizontal | Active | JRGCT705 | Horizontal | Active | JR-GW-H2 | Gas Well | Active |
| JRGC402A | Horizontal | Active | JRGCT706 | Horizontal | Active | JR-GWI | Gas Well | Active |
| JRGC404A | Horizontal | Active | JRGCT707 | Horizontal | Active | JR-GWJ | Gas Well | Active |
| JRGC405A | Horizontal | Active | JRGCT708 | Horizontal | Active | JR-GWK | Gas Well | Active |
| JRGC406A | Horizontal | Active | JRGCT709 | Horizontal | Active | JR-GWL | Gas Well | Active |
| JR-GCT01 | Horizontal | Active | JRGCT710 | Horizontal | Active | JR-GWM | Gas Well | Active |
| JR-GCT18 | Horizontal | Active | JR-GW-02 | Gas Well | Active | JR-GWN | Gas Well | Active |
| JRGCT2A1 | Horizontal | Active | JR-GW-03 | Gas Well | Active | JR-GWO | Gas Well | Active |
| JRGCT2A2 | Horizontal | Active | JR-GW-04 | Gas Well | Active | JR-GWP | Gas Well | Active |
| JRGCT2A3 | Horizontal | Active | JR-GW-05 | Gas Well | Active | JR-GWS | Gas Well | Active |
| JRGCT3A1 | Horizontal | Active | JR-GW-09 | Gas Well | Active | JR-GWT | Gas Well | Active |
| JRGCT3A2 | Horizontal | Active | JR-GW-10 | Gas Well | Active | JRL7WEST | Horizontal | Active |
| JRGCT3A3 | Gas Well | Active | JR-GW-11 | Gas Well | Active | JR-LC5 | Horizontal | Active |
| JRGCT3A4 | Horizontal | Active | JR-GW-12 | Gas Well | Active | JR-LC6 | Horizontal | Active |
| JRGCT3A5 | Horizontal | Active | JR-GW-15 | Gas Well | Active | JR-LC-SE | Cleanout | Active |
| JRGCT3B1 | Horizontal | Active | JR-GW-18 | Gas Well | Active | JR-LC-SW | Cleanout | Active |
| JRGCT3B2 | Horizontal | Active | JR-GW-19 | Gas Well | Active | JRLGV401 | Horizontal | Active |
| JRGCT3B3 | Horizontal | Active | JR-GW-20 | Gas Well | Active | JRLGV402 | Horizontal | Active |
| JRGCT3B4 | Horizontal | Active | JR-GW-21 | Gas Well | Active | JRLGV403 | Horizontal | Active |
| JRGCT401 | Horizontal | Active | JR-GW-24 | Gas Well | Active | JRLGV404 | Horizontal | Active |
| JRGCT402 | Horizontal | Active | JR-GW-28 | Gas Well | Active | JR-LPC-1 | Horizontal | Active |
| JRGCT403 | Horizontal | Active | JR-GW-29 | Gas Well | Active | JR-LPC-2 | Gas Well | Active |
| JRGCT404 | Horizontal | Active | JR-GW-30 | Gas Well | Active | JR-LPC-4 | Horizontal | Active |
| JRGCT501 | Horizontal | Active | JR-GW-31 | Gas Well | Active | | | |
| JRGCT502 | Horizontal | Active | JR-GW-37 | Gas Well | Active | | | |
| JRGCT503 | Horizontal | Active | JR-GW-38 | Gas Well | Active | | | |
| JRGCT504 | Horizontal | Active | JR-GW-39 | Gas Well | Active | | | |
| JRGCT505 | Horizontal | Active | JR-GW-46 | Gas Well | Active | | | |
| | | | | | | | | |
| | l | l | | | | | | |

3 Landfill Gas Composition

During well-tuning activities, the composition of the landfill gas supplied to the flare was measured in concentrations of methane, carbon dioxide, oxygen (CH_4 , CO_2 , O_2 respectively), and balance gas. During 2013, JRL staff operated the well field with the intent of maintaining a target CH_4 concentration in the range of 40-45% (by volume) and O_2 concentration at satisfactory low level (i.e. < 5%) in the gas supplied to the flare for both odor control and greenhouse gas reduction. Keeping these parameters within these ranges maintains high efficiency in the vacuum system in terms of collecting landfill gas and prevents possible landfill complications associated with O_2 infiltration. Balance gas levels are also monitored as a confirmation of landfill gas collection efficiency and O_2 infiltration prevention. The concentration of CO_2 at the flare is not of great concern, but is measured in addition to the more important levels of CH_4 and O_2 .

Since gas composition is measured bi-weekly at the flare, monthly average gas compositions are computed from the bi-weekly measurements. The monthly average concentrations of CH₄ and O₂ are shown in Figure 3-1. The concentration of CH₄ remained within the target range of 40-45% from June to October, with January, February, March, April, May, November, and December experiencing concentrations below 40%. The average CH₄ concentration for 2013 was 39.0%, which was slightly lower, but similarly stable to the 2012 average concentration of 40.6%. O₂ concentrations increased during 2013, averaging 1.3% for the year, slightly higher than the 2012 average of 0.7%. 2013 O₂ concentrations remained below 1% for every month except January, February, March, April, and December. Flare readings recorded in December 2013 contained high O₂ from air infiltration associated with the SulfaTreat® hydrogen sulfide treatment containers located at the flare. Landfill gas is passed through these containers before it reaches the flare to reduce hydrogen sulfide concentrations to meet MEDEP air license requirements.

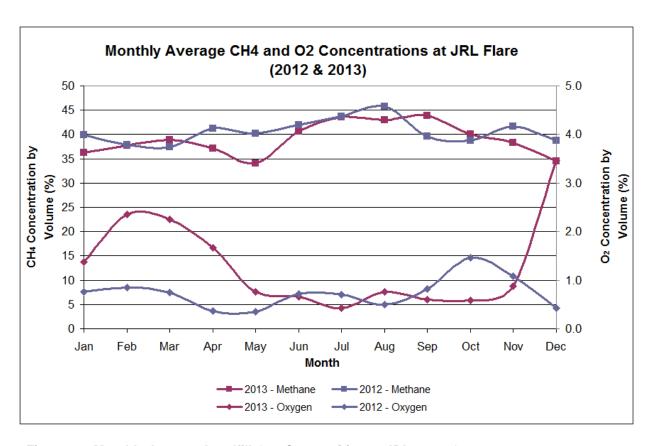


Figure 3-1 Monthly Average Landfill Gas Composition at JRL, 2012 & 2013

4 Landfill Gas Flow

The flow rate of landfill gas supplied to the flare was measured and recorded on a continuous basis. This data has been compiled into total monthly landfill gas flows. The average daily flow rate of landfill gas supplied to the flare at JRL each month during 2013 (and 2012 for comparison) is summarized in Figure 4-1. Table 4-1 shows the data reflected in Figure 4-1 and the total monthly landfill gas flows. The total flow during 2013 was 963 million standard cubic feet (MMSCF), a slight decrease of approximately 3.79% from total flow recorded in 2012.

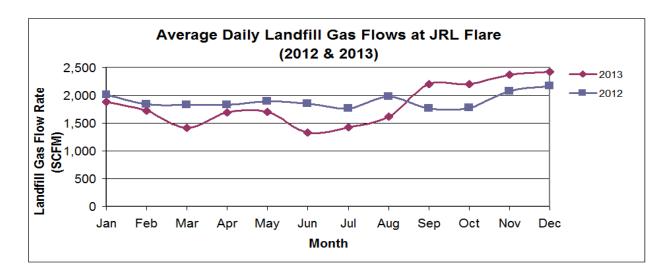


Figure 4-1 Average Landfill Gas Flow Rate at JRL, 2012 & 2013

Table 4-1 Volumetric Flow of Landfill Gas at JRL, 2012 & 2013

| | | | I Flow ISCF) | Average Flow Rate (SCFM) | | | |
|-------|---------|--------|-----------------|-----------------------------|-------|--|--|
| | Year | 2013 | 2012 | 2013 | 2012 | | |
| | Jan | 84.29 | 89.60 | 1,888 | 2,007 | | |
| | Feb | 69.38 | 76.99 | 1,721 | 1,844 | | |
| | Mar | 63.24 | 81.83 | 1,417 | 1,833 | | |
| | Apr | 73.29 | 79.06 | 1,697 | 1,830 | | |
| | May | 75.95 | 84.51 | 1,701 | 1,893 | | |
| Month | Jun | 57.40 | 79.75 | 1,329 | 1,846 | | |
| 9 | Jul | 63.75 | 79.01 | 1,428 | 1,770 | | |
| | Aug | 72.39 | 88.51 | 1,622 | 1,983 | | |
| | Sep | 95.03 | 76.20 | 2,200 | 1,764 | | |
| | Oct | 98.07 | 79.25 | 2,197 | 1,775 | | |
| | Nov | 102.34 | 89.80 | 2,369 | 2,079 | | |
| | Dec | 108.33 | 96.91 | 2,427 | 2,171 | | |
| | Totals | 963.45 | 1001.41 | | | | |
| | Average | | | 1,833 | 1,900 | | |

5 Energy Generated by Methane Combustion

JRL has a candlestick type flare which burns the CH₄ present in the landfill gas. CH₄ has an approximate heating value of 1009 BTU/SCF (BTU per standard cubic foot). Using this, heating value along with the CH₄ concentrations and landfill gas flows shown in the previous sections, the energy generated by the combustion of CH₄ in the JRL flare was calculated for 2013 and compared to the 2012 data as shown in Table 5-1. Figure 5-1 shows the monthly totals of energy generated and Figure 5-2 displays the average daily energy generated.

The total energy generated by combustion at JRL during 2013 was 374,139 MMBTUs, a decrease of 7.98% from 2012 levels. Both flow and methane concentrations decreased from 2012 to 2013, leading to a lower energy generation rate. An increase in total energy generation during August and September occurred, largely due to an increase in methane concentration at the flare. This increase in energy generation is expected to be from well tuning and well field maintenance activities.

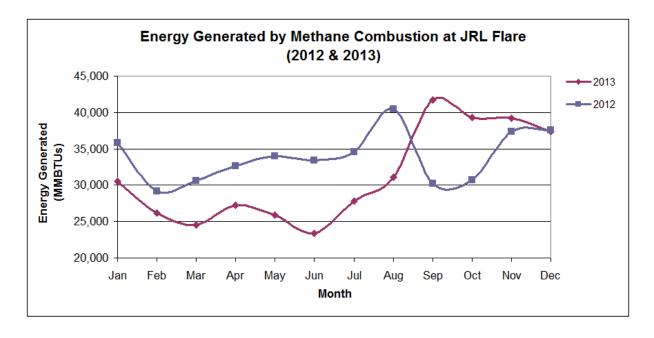


Figure 5-1 Energy Generated by CH₄ Combustion at JRL Flare, 2012 & 2013

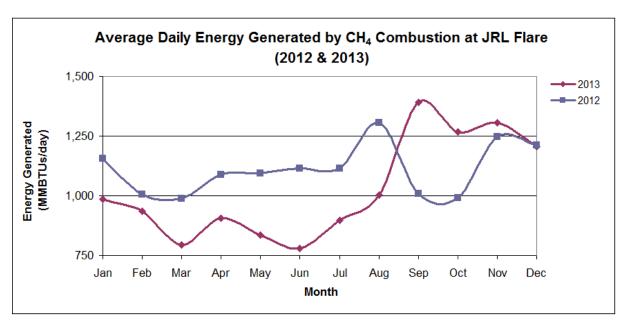


Figure 5-2 Average Daily Energy Generated by CH₄ Combustion at JRL Flare, 2012 & 2013

Table 5-1 Energy Generated by CH₄ Combustion at JRL, 2012 & 2013

| | | Energy Generated By CH ₄ Combustion | | | | | | |
|-------|---------|--|------------|-------|------------------|--|--|--|
| | | Monthly Tot | tal MMBTUs | | verage Us/day | | | |
| | Year | 2013 | 2012 | 2013 | 2012 | | | |
| | Jan | 30,502 | 35,794 | 984 | 1,155 | | | |
| | Feb | 26,174 | 29,157 | 935 | 1,005 | | | |
| | Mar | 24,575 | 30,657 793 | | 989 | | | |
| | Apr | 27,218 | 32,647 | 907 | 1,088 | | | |
| | May | 25,890 | 33,955 | 835 | 1,095 | | | |
| 뒫 | Jun | 23,360 | 33,435 | 779 | 1,114 | | | |
| Month | Jul | 27,785 | 34,549 | 896 | 1,114 | | | |
| | Aug | 31,076 | 40,478 | 1,002 | 1,306 | | | |
| | Sep | 41,711 | 30,234 | 1,390 | 1,008 | | | |
| | Oct | 39,260 | 30,709 | 1,266 | 991 | | | |
| | Nov | 39,168 | 37,407 | 1,306 | 1,247 | | | |
| | Dec | 37,420 | 37,581 | 1,207 | 1,212 | | | |
| | Totals | 374,139 | 406,602 | | | | | |
| | Average | | | 1,025 | 1,110 | | | |

6 Summary

The 2013 monitoring data associated with the landfill gas collection and treatment system indicates that the system is operating in accordance with the facility's operating manual. During the course of the year, 18 new wells and trenches were installed. These included 11 gas collection trenches and 7 vertical wells. Also, 2 gas collection trenches, 1 vertical well, and 1 condensate trap were discontinued during 2013.

Overall, average monthly CH_4 concentrations slightly decreased from 2012, remaining within the target range of 40-45% five out of the twelve months and averaging 39.0% for 2013, a decrease of 1.6% from 2012. O_2 concentrations remained low from May to November in 2013, with January, February, March, April and December averaging above 1%. The annual average O_2 concentration in 2013 was 1.3% at the landfill gas combustion flare, a slight increase from the 2012 average of 0.7%.

The total flow of landfill gas at the JRL flare remained largely unchanged from 2012, with a slight decrease in total flow of 3.79%. When comparing the last two years, 2013 month-to-month flow rates from January to the start of August were less than the flow rates recorded in 2012 until Mid-August, where the 2013 flow rates surpassed the flow rates in 2012. The total flow during 2012 was 1001 MMSCF, higher than 2013's total flow of 963 MMSCF. The total energy generated by CH₄ combustion at the JRL flare decreased from 2012 by 7.98%. and generated 374,139 MMBTUs in 2013.

ATTACHMENT H Landfill Air Monitoring Evaluation

JUNIPER RIDGE LANDFILL 2013 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. 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 2013 air monitoring results, including a comparison of the 2013 results to the previous year's results. Two types of air monitoring activities occurred at the Juniper Ridge Landfill (JRL) during 2013; (1) hydrogen sulfide (H₂S) monitoring at stationary continuous monitors; and (2) quarterly methane (CH₄) emission surface scans on the landfill's intermediate cover. The air monitoring was completed in general accordance with the procedures specified in the JRL operations manual. H₂S monitors are Honeywell® Analytics MDA Single Point Monitors (SPM) utilizing hydrides, EP Chemcassettes® also provided by Honeywell®. Readings were taken at 15 minute intervals and data-logged. Monitors are located at four different locations surrounding the landfill as shown in Figure 1-1. CH₄ scans were completed using a MicroFID® (flame ionizing detector) mobile device and completed once every quarter by taking measurements along an approximate 30 meter spacing grid on the intermediate cover Measurements were also collected at cover penetrations in the pattern (i.e. gas system. collection piping, etc.) and at noticeable punctures of the intermediate cover.

Additionally, odor complaints from the 24-hour JRL odor complaint hotline provide an opportunity to evaluate the effectiveness of odor control measures at the JRL. Odor complaints for 2012 and 2013 are compared.



Figure 1-1 Juniper Ridge Landfill H₂S Single Point Monitoring Locations

2. Stationary H₂S Monitoring Results

The Chemcassette® tapes utilized by the 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®.

Readings were taken at 15 minute intervals and data-logged. Raw data, along with associated weather data from the on-site weather station were provided to the MEDEP on a periodic basis. Routine maintenance occurred including Chemcassette® changeouts generally on a 4-6 week basis. An annual factory service was also performed. Records of these activities were submitted to the MEDEP.

The annual average H₂S readings at the Access Road, Fort James, Stage Coach Road, and West Coiley Road SPMs are presented in Figure 2-1. Due to the vast number of non-detect readings (readings below the detection limit of the instruments), the average H₂S values for all four meters were below the detection limit of 2 ppb for both 2012 and 2013. Due to this fact, these average annual readings should be used only for qualitative comparison, and serve as evidence that the average H₂S values are below the quantitation and detection limits of the Chemcassettes®. During 2013, no monthly average reading was above the detection limit, when averaging with non-detect readings or zero readings.

Of the four H₂S SPMs located around the JRL, two locations in 2013 remained relatively similar to the annual average readings obtained in 2012. The annual average readings at Fort James and West Coiley Road SPMs increased slightly from 2012. The 2013 average site wide H₂S level remained very low at 0.6 ppb in comparison to the 0.4 ppb in 2012. Both calculated average readings in 2012 and 2013 were below the detection limit of the instrument. Monthly average readings at these four monitors generally correspond well between 2012 and 2013 values, with average higher H₂S levels occurring during summer months, and lower values

occurring during colder winter months. Monthly average H_2S readings for each location are shown in Figures 2-2 through 2-5 and should be used for comparative analysis only due to their low averages, below the quantitative and detection limits of the instruments.

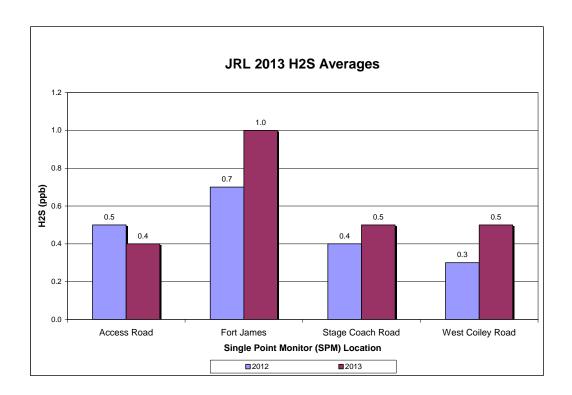


Figure 2-1 Annual average H₂S readings at all four SPM locations for 2012 & 2013

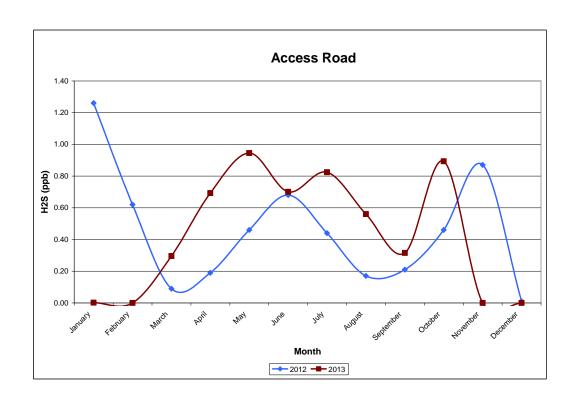


Figure 2-2 Monthly average H2S readings at the Access Road SPM location for 2012 & 2013

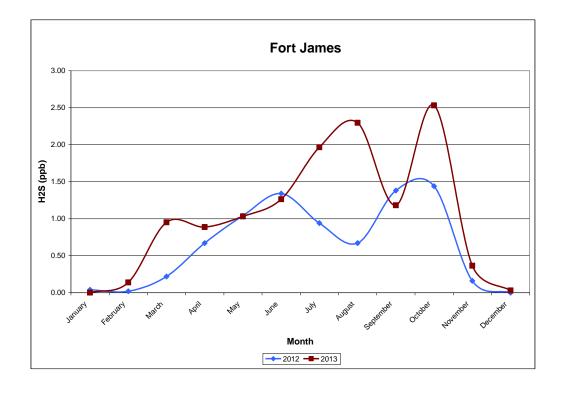


Figure 2-3 Monthly average H2S readings at the Fort James SPM location for 2012 & 2013



Figure 2-4 Monthly average H2S readings at the Stage Coach Road SPM location for 2012 & 2013

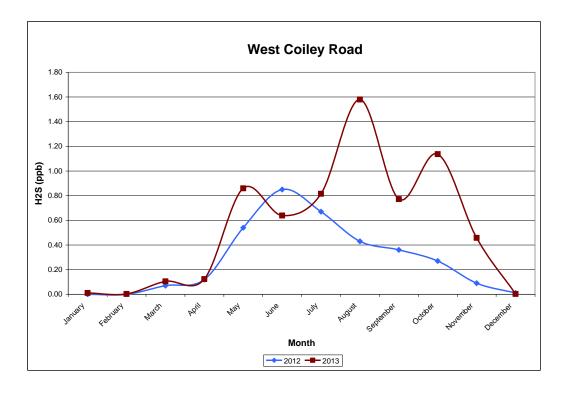


Figure 2-5 Monthly average H2S readings at the West Coiley Road SPM location for 2012 & 2013

During the months of January, April, May, July, August, September, and October 2013, at least one SPM malfunctioned or experienced erroneous readings. Malfunctions included; chemcassette failure, or full expenditure, pump failure, or meter faults. Erroneous readings are identified as readings that either fluctuate between two identical readings, or remain at a single identical reading for more than an 8 hour period of time. Since these readings remain identical for extended periods of time they are likely due to inconsistencies in the Chemcassettes, or faulty Chemcassette feed through the SPM. Data obtained from surrounding SPM's, including an on-site SPM, proved the readings to be erroneous. Diagnosis and maintenance of the malfunctioned SPM or Chemcassette corrected the problem. Table 2-1 below lists the date, duration, and number of each set of readings deemed erroneous following the above criteria. This data was excluded from the data analysis and results provided herein.

Table 2-1 Errors found within SPM readings

| Access Road SPM Error Readings | | | | | | | | |
|--------------------------------|-------------------|----------|--------------|--|--|--|--|--|
| | | | | | | | | |
| | | of | Probable | | | | | |
| Start Time | End Time | Readings | Cause | | | | | |
| 5/27/13 2:45 PM | 5/30/13 11:50 AM | 275 | Chemcassette | | | | | |
| 7/19/13 8:46 PM | 7/20/13 5:31 PM | 84 | Chemcassette | | | | | |
| 10/23/13 2:02 PM | 10/25/13 11:32 AM | 183 | Chemcassette | | | | | |

| Fort James SPM Error Readings | | | | | | | | | |
|-------------------------------|------------------|----------|--------------|--|--|--|--|--|--|
| | Number of | Probable | | | | | | | |
| Start Time | End Time | Readings | Cause | | | | | | |
| 4/3/13 12:33 PM | 4/9/13 12:48 PM | 578 | SPM | | | | | | |
| 5/27/13 11:30 AM | 5/30/13 12:50 PM | 292 | Chemcassette | | | | | | |
| 8/18/13 10:37 PM | 9/4/13 8:13 AM | 1575 | SPM | | | | | | |
| 10/17/13 1:07 PM | 10/25/13 5:32 PM | 786 | SPM | | | | | | |

| Stage Coach Road SPM Error Readings | | | | | | | | | |
|-------------------------------------|-----------------|-----------------------|-------------------|--|--|--|--|--|--|
| Start Time | End Time | Number of Readings | Probable Cause | | | | | | |
| 1/17/13 9:56 AM | 1/26/13 5:31 AM | 846 | SPM | | | | | | |
| 1/28/13 8:31 PM | 1/29/13 7:31 PM | 93 | Chemcassette | | | | | | |
| 1/29/13 9:01 PM | 1/31/13 8:58 AM | 144 | Chemcassette | | | | | | |
| 8/31/13 3:13 PM | 9/4/13 8:13 AM | 357 | Chemcassette | | | | | | |

| West Coiley Road SPM Error Readings | | | | | | | | | |
|-------------------------------------|-----------------|-----------|--------------|--|--|--|--|--|--|
| | | Number of | Probable | | | | | | |
| Start Time | End Time | Readings | Cause | | | | | | |
| 4/21/2013 4:05 | 4/22/2013 0:20 | 82 | Chemcassette | | | | | | |
| 4/27/2013 4:21 | 4/27/2013 20:32 | 64 | Chemcassette | | | | | | |
| 4/28/2013 4:17 | 4/28/2013 21:17 | 69 | Chemcassette | | | | | | |

| 4/29/2013 3:47 | 4/30/2013 0:02 | 81 | Chemcassette |
|-----------------|-----------------|------|--------------|
| 4/30/2013 4:02 | 5/1/2013 2:17 | 90 | Chemcassette |
| 5/5/2013 4:22 | 5/5/2013 19:52 | 63 | Chemcassette |
| 5/19/2013 4:28 | 5/20/2013 0:28 | 81 | Chemcassette |
| 5/22/2013 3:57 | 5/23/2013 18:57 | 157 | Chemcassette |
| 7/3/2013 3:54 | 7/4/2013 3:24 | 95 | Chemcassette |
| 7/9/2013 2:49 | 7/11/2013 2:49 | 193 | Chemcassette |
| 7/19/2013 12:46 | 7/21/2013 19:46 | 221 | Chemcassette |
| 8/23/2013 16:52 | 9/4/2013 13:13 | 1138 | SPM |

Due to the low average readings, a comparison was completed on readings above the quantitative limit (4 ppb) and detection limit (2 ppb) for 2012 and 2013. Readings above these levels were compared with total readings taken over the entirety of the year to determine the effective time at which quantifiable and detectable readings occurred. The results are shown in Table 2-2.

Table 2-2 Quantifiable (4 ppb+) and detection (2 ppb+) readings as a percentage of total annual readings

| | Access Road | | Access Road | | Fort J | ames* | | Coach oad | West Co | oiley Road | Site A | verage | Average |
|----------|-------------|--------|-------------|--------|--------|--------|-------|--------------|---------|------------|----------------------------|--------|---------|
| Above: | 4ppb | 2ppb | 4ppb | 2ppb | 4ppb | 2ppb | 4ppb | 2ppb | 4ppb | 2ppb | Number of Site Readings | | |
| 2012 | 1.40% | 14.70% | 8.01% | 26.06% | 0.10% | 15.00% | 0.60% | 9.90% | 2.53% | 16.42% | 34,718 | | |
| 2013 | 0.17% | 15.88% | 4.85% | 29.80% | 2.65% | 13.69% | 1.52% | 18.15% | 2.30% | 19.38% | 32,884 | | |
| Change** | -707% | 7% | -65% | 13% | 96% | -10% | 61% | 45% | -10% | 15% | | | |

^{*} Readings from August, September, and October were erroneous in 2012, replaced with South SPM readings

During 2013, 2.30% of total readings of all four meters were at or above the quantifiable limit of the meters and 19.38% of readings were at or above the detectable limit of the meters. In 2012, 2.53% of readings of meters were at or above the quantifiable limit, and 16.42% of readings were at or above the detectable limit. A decrease in quantifiable readings from 2012 to 2013 of 10% was observed, while an increase of 15% in detectable readings occurred. Both the Stage Coach Road and the West Coiley Road SPMs show an increase in quantifiable readings, while the Access Road and Fort James SPMs show a decrease in quantifiable readings in 2013. The Access Road, Fort James, and West Coiley Road SPMs show an increase in detectable readings, while the Stage Coach Road SPM showed a decrease in detectable readings in 2013. Overall during 2013, quantifiable readings slightly decreased, and detectable readings slightly increased, and measurable readings around the entire site remained low during 2013.

^{**} Percent Change of Overall Readings

3. Odor Complaints

Complaints recorded via the 24-hour JRL complaint hotline are provided for 2012 and 2013 in Table 3-1 below. Detailed complaint logs were submitted to the MEDEP on a monthly basis during 2013. During 2013, the JRL complaint hotline received a total of eleven landfill related complaints (all were odor related), compared to seven complaints for 2012 (all were odor related). Of these complaints, only three were confirmed as likely coming from the landfill in 2013 as opposed to one confirmed in 2012. The eleven odor related complaints in 2013 occurred over seven different months. Odor complaints were logged as they occurred. Site visits were conducted at the location of the complaints to confirm the validity of the complaints. Close attention was paid to complaints in order to determine operational effectiveness of odor control measures at the landfill and changes were made to these measures as necessary, based on complaints, and summarized in monthly reports submitted to the MEDEP.

Table 3-1 Summary of Complaints at Juniper Ridge Landfill, 2012 & 2013

| 2012 | | | -OBJEC | T OF CO | OMPLAINT- | | | MONTH |
|--------|------|-------|--------|---------|-----------|-------|-------|-------|
| MONTH | ODOR | NOISE | LIGHTS | DUST | TRAFFIC | BIRDS | OTHER | TOTAL |
| | | | | | | | | |
| JAN. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEB. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAR. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| APR. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JUN. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JUL. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AUG. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| SEP. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| OCT. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NOV. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| DEC. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TOTALS | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |

^{*} An additional 5 non-enforceable off-site traffic related complaints were received in 2012.

| 2013 | | | -OBJEC | T OF CC | MPLAINT- | | | MONTH |
|--------|------|-------|--------|---------|----------|-------|-------|-------|
| MONTH | ODOR | NOISE | LIGHTS | DUST | TRAFFIC | BIRDS | OTHER | TOTAL |
| | | | | | | | | |
| JAN. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEB. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAR. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| APR. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JUN. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| JUL. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AUG. | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| SEP. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| OCT. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| NOV. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DEC. | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TOTALS | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |

^{*} An additional 1 non-enforceable off-site traffic related complaint was received in 2013.

4. CH₄ Surface Scans

Landfill methane (CH₄) 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 2013 in accordance with the JRL Operations Manual. JRL was not subject to the requirements of the New Source Performance Standard (NSPS) for municipal solid waste (MSW) landfills contained in 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW. Copies of the 2013 surface scans are provided in Attachment A and are kept on file in the Environmental Manager's office.

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) mobile device that has a detection limit of 0.5 parts per million (ppm) and a concentration range of 0.5 to 50,000 ppm. During 2013, a total of sixteen exceedances above the 500 ppm level were detected during four surface scans, in comparison to six exceedances that were detected in 2012 during the three scans. A quarterly breakdown is provided in Table 4-1. The majority of these readings above 500 ppm occurred around intermediate cover penetrations primarily around landfill gas collection piping, where boots had been damaged or moved, due to landfill consolidation and settlement. These readings and their locations are documented, copies are provided to the site supervisor, and necessary corrective actions are taken.

Table 4-1 Readings above 500 ppm found during 2012 & 2013 CH₄ Surface Scans

| | Q1 | Q2 | Q3 | Q4 | TOTAL |
|------|-----|----|----|----|-------|
| 2012 | NC* | 5 | 1 | 0 | 6 |
| 2013 | 0 | 7 | 8 | 1 | 16 |

^{*} Not completed

A comparison of scans from 2012 and 2013 shows a seasonal fluctuation in readings above 500 ppm as seen in Figure 4-1. This is consistent with typically higher landfill anaerobic activity occurring during the warmer summer months, and less activity occurring during the colder winter months. During 2013, the average methane reading of the sixteen measurements above the 500 ppm level was 1393 ppm, as opposed to 999 ppm during 2012. A quarterly comparison of average values from 2012 and 2013 is provided in Figure 4-2.

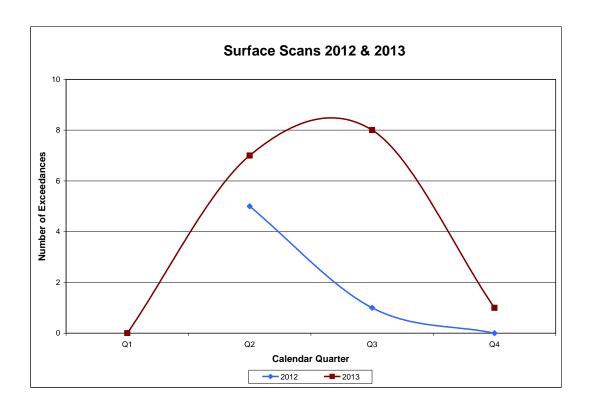


Figure 4-1 Readings above 500 ppm during quarterly CH₄ surface scans for 2012 & 2013

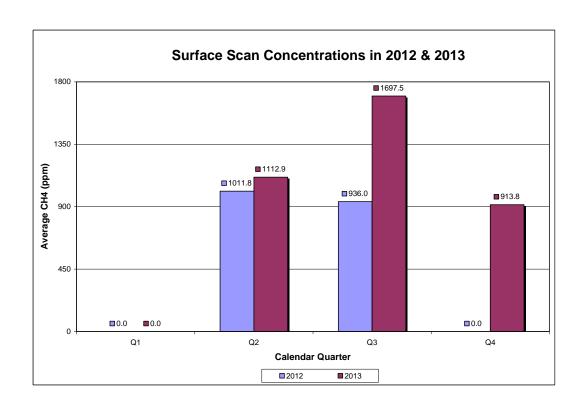


Figure 4-2 Average concentrations during quarterly CH₄ surface scans for 2012 & 2013

5. Summary

In accordance with the Juniper Ridge Landfill (JRL) operations manual, two types of air monitoring activities occurred on site during 2013; (1) hydrogen sulfide H₂S monitoring with stationary continuous monitors and, (2) quarterly methane (CH₄) emission surface scans on the landfill intermediate cover. Additionally, odor complaints from the 24-hour JRL odor complaint hotline provide an opportunity to evaluate the effectiveness of odor control measures at the JRL.

Overall, average monthly and annual H₂S concentrations remained low at the SPM's located around the landfill. A decrease in quantifiable readings (4 ppb or above) from 2012 to 2013 of 10% was observed, while an increase of 15% in detectable readings (2 ppb or above) occurred. Both the Stage Coach Road and the West Coiley Road SPMs show an increase in quantifiable readings, while the Access Road and Fort James SPMs show a decrease in quantifiable readings in 2013. The Access Road, Fort James, and West Coiley Road SPMs all show an increase in detectable readings, while the Stage Coach Road SPM showed a small decrease in detectable readings in 2013. Overall, quantifiable readings slightly decreased, and detectable readings slightly increased during 2013.

Odor-related complaints in 2013 increased from the previous year with a total of eleven odor related complaints occurring during 2013 compared to seven in 2012. Of these complaints, three complaints during 2013 were confirmed as likely coming from the landfill as opposed to only one confirmed in 2012.

Surface scan CH₄ emission results increased from 2012 to 2013 with a total of sixteen readings above 500 ppm found during 2013 during four surface scans, compared with six above that level detected in 2012 during three surface scans. The average concentration of these readings increased from 999 ppm in 2012 to 1393 ppm in 2013. Readings above 500 ppm are infrequent and continue to occur primarily around penetrations in the intermediate cover system for the gas extraction piping and are fixed upon identification. 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.

APPENDIX A 2013 Surface Scan Logs

| Date: 03-18-13 Employee: Connel O'Brion | | | Site Lo Equipn | Site Location: Juniper Richae Landfill Equipment Used: Micro FIO | | | |
|---|-----------------------|-----------|-------------------|--|--------------------|--|--|
| Time: | Location Description: | Northing: | Easting: | Exceedence: | Corrective Action: | | |
| | NO Excedences | | | | | | |
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| | 1 | 1 | | | | | |
| Autho | orized Signature: | R | ø | 20.20 | Date: 03-18-13 | | |

| Date: 06-21-13 Employee: Conner O'Brion | | | Site Loc Equipm | ation: ent Used: | Juniper fidge Landfill Micro Fid | | |
|---|---|-------------|--------------------|---------------------|-------------------------------------|--|--|
| Time: Location Description: | | Northing: | Easting: | Exceedence: | Corrective Action: | | |
| 0935 | (tear around well boot) | 479156.21 | 926013,41 | 1080 PPM | Liner needs Repaired | | |
| 1013 | GW - 55 (teer around Vaccum Side of boot) | 478244.8 | 925999,4 | 1147 PPM | Liner needs Repaired | | |
| 1024 | Hole in liner 20 ft before GW-64 | L. Commence | 925989,9 | 683 ppm | Liner reads Repaired | | |
| 1107 | Giv-64 (Hole in well Boot | 478121.2 | 925989.9 | 1500 PPM | Fix well Boot | | |
| 1121 | Hole about 20-30 ft from 6w-83 | 4778222 | 926401.2 | 1380 PPM | Fix hole in Liner | | |
| 1213 | the in Liner in the Top come of call 6 (504 above actor) | 478484.11 | 925803.9 | 1000 PPM | Fix hole in linea | | |
| 1317 | Hole intop Part of red 2 | UNKNOWN | Unknown | 1000 PPM | Find and Ax hole on top of ecu z | | |
| | | | | | | | |
| Auth | orized Signature: | 2 | | <u> </u> | Date: 06-21-13 | | |

| Date: 09-25-13 Employee: Conner O'Brion | | | Site Location: Juniper Lidge Lendfill Equipment Used: Micro FID | | | | | |
|---|---|-----------|---|-------------|--------------------|----------|--------|------------|
| Time: | Location Description: | Northing: | Easting: | Exceedence: | Corrective Action: | | | |
| 1445 | (Along beam steel white streting Out) | 478244.8 | 925999.4 | 3000 ppm | | - | to sik | Supervisor |
| 1500 | 6CT-513 (Around boot of well Pipe | | | 1500 ppm | | | Ť | • |
| 1600 | (underneath well boot is torn) | 474099.42 | 926063.25 | 1630 PPM | | | | |
| 1605 | 1504 South of GCT-513 (Hole in liner) | | | 800 PPM | | | | |
| 1635 | (Boot on Vaccum Side) | | | 3000 PPM | | | | |
| 1637 | 15 ft South of FCT-609 (Hole In liner) | | | 1600 PPM | | - | | |
| 1645 | GW-48 (well boot) | 478444.00 | 926214.00 | 1550 PPM | | | | |
| 1700 | Gw-A (tear in liner around boot) | 479047.90 | 925582.80 | 500 PPM | | 1 | | |
| | | - | | | | \dashv | | |
| | orized Signature: | 7 | | | | • | | |

| Date: 12/16/13 Employee: Kyle Whalley | | | Site Location: Juniper Ridge Landell Equipment Used: Micro FID | | | | | |
|--|-----------|----------|--|--------------------|------|---------|------------|--|
| Pime: Location Description: | Northing: | Easting: | Exceedence: | Corrective Action: | | | | |
| 11:37a 20 ft SV of Well 65 in cell 5 road | 521721.2 | 4980528 | 913.8pm | Sent | Doc | to site | Supervisor | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Authorized Signature: | KR- | | | Date: | 12/1 | 4/13 | | |

ATTACHMENT I Geotechnical Monitoring Report

2013 Annual Geotechnical Landfill Inspection Report Juniper Ridge Landfill West Old Town, Maine

April 2014

Report to:

BGS/NEWSME Landfill Operations Hampden, Maine

Casella Waste Systems, Inc. Saco, Maine



Richard E. Wardwell, P.E., Ph.D. Bethesda, MD 20815

EXECUTIVE SUMMARY

The 2013 Annual Geotechnical Landfill Inspection Report for the Juniper Ridge Landfill describes the site visit made on October 14, 2013 – one component of the ongoing landfill observations being performed in accordance with the Geotechnical Monitoring Plan (GMP, REW 2007b) as adjusted by changes described in the 2008 and 2010 Geotechnical Monitoring Reports (REW 2008a, 2011a). As stated therein, collection of electronic instrumentation data was curtailed due to logistics associated with the construction of Cell 4 and surveys of the slope displacement monuments (SDMs) and measurements of waste grade elevations at the instrument clusters were terminated to be consistent with the needs of a stable operational landfill and its resources.

During 2013, the geotechnical monitoring at JRL emphasized the routine observations of the landfill surface made during operations combined with an independent geotechnical inspection of the landfill slopes conducted on October 14, 2013. Observational methodology was used to assure that the geotechnical performance of the landfill facility was consistent with design and the goals of the Operations Manual (NEWSME 2010). This report summarizes the annual geotechnical inspection of the landfill and supplements previous Geotechnical Monitoring Reports through 2010 (REW 2005a, 2006, 2007a, 2008a, 2009, 2010a, 2011a), and the landfill inspection reports from the last two years (REW 2012, 2013).

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2013 Annual Geotechnical Landfill Inspection Report Juniper Ridge Landfill Facility West Old Town, Maine

1. INTRODUCTION

The 2013 Annual Geotechnical Landfill Inspection Report (AGLIR) has been prepared for the State of Maine's Juniper Ridge Landfill (JRL) 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, shown on Figure 1, is based on an aerial topographic survey performed on October 30, 2013. Geotechnical monitoring of this landfill was performed in accordance with the current Geotechnical Monitoring Plan (GMP, REW 2007b), as adjusted by mid-year 2008 modifications related to logistics associated with the construction of Cell 4 (REW 2008a) and modified by the termination of the survey measurements of slope displacement monuments justified in the 2010 GMR (REW, 2011).

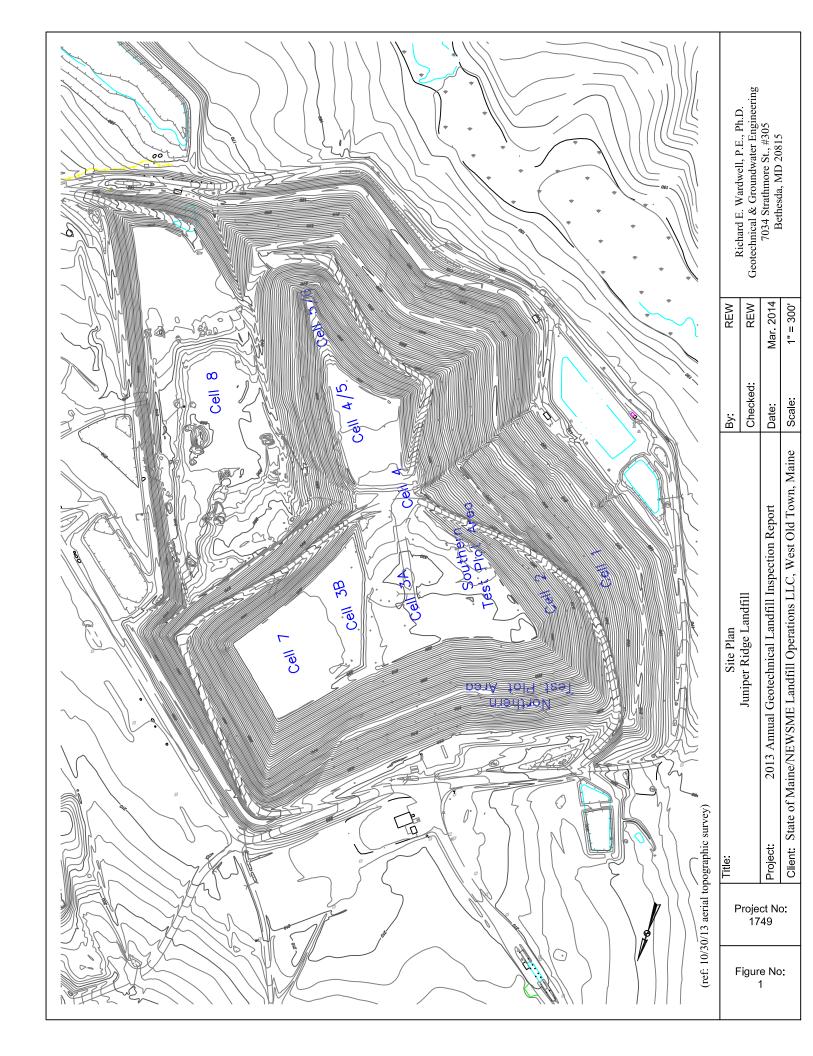
Specific activities in 2013 included photogrammetric topographic surveys of the landfill surface, periodic landfill observations, and an independent geotechnical landfill inspection. This report, presenting the results of the annual inspection made in October, supplements routine landfill observations performed by operational personnel to assure consistency with the Operations Manual (NEWSME 2010) as summarized in the yearly landfill report.

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 (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).



2.2 State of Maine Purchase and Operations

In February 2004, the State of Maine, through the State Planning Office (SPO), purchased the landfill from FJC. It selected Casella Waste Systems, Inc. (CWSI) through its subsidiary NEWSME Landfill Operations LLC, to operate the disposal of in-state wastes. Approximately 50,000 tons of sludge were initially brought to the landfill from FJC's Old Town mill before the mill closed in 2006. To improve deposit stability, SPO/NEWSME 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, 2010a, 2011) and annual geotechnical landfill inspection report (REW 2012).

Once the sludge stabilization program was completed by mid-2006, landfill operations moved into the western portion of Cell 3, depositing the mixtures of in-state waste. The remainder of the landfill capacity (i.e. Cells 5-8) has been filled with the approved in-state waste streams, which, now and in the future, are estimated to include varying percentages of construction and demolition debris, MSW materials (MSW, front-end process residue, oversized bulky waste, and MSW bypass), MSW incinerator ash, CDD wood fines for cover, contaminated soils, and other miscellaneous waste materials (SME 2013). Based on performance to date, these mixture of wastes are stable at slopes up to 2.5H:1V, but are highly compressible and subject to gas generation. Based on the experience at each site, it is expected the in-state waste mixture will be more stable and less compressible than the waste-stabilized sludge. As a result, the most critical area for stability at JRL is the area underlain by the northern test plot (composed of 60/40 sludge-to-waste ratio), which is located at the north end of Cell 2 (see Figure 1).

2.3 Overview of Geotechnical Monitoring

Historically, the critical stability issues with the landfill related to the papermill sludge previously placed by FJC. With stabilization of all the sludge (by mixing it with stable in-state waste) completed in 2006, the monitoring plan was modified in the 2007 GMP (REW 2007b) to reflect the routine needs associated with other landfills placed on firm soil foundations.

The 2007 GMP revised previous plans to reflect the fact that: 1) the previous sludge at the landfill has been stabilized and confined within the landfill by either the perimeter earthen berms or by the placement of the stable, in-state waste streams, and 2) slope stability and settlement monitoring since 2004 has accumulated a baseline of corroborative data and verified that the actual geotechnical behavior of waste-stabilized sludge in the landfill is consistent with design parameters.

Based on this, the intensity of previous program was modified to represent the monitoring needs associated with current waste mixtures placed in a landfill founded on a firm soil. 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.

Field observations were supplemented since 2007 with slope measurements of the northern slope of Cell 2 that is underlain by the highest percentage of sludge remaining at JRL, i.e. up to 60% sludge mixed with 40% in-state waste. In 2010, this labor intensive survey program to monitor the slope displacement monuments was terminated based on the stable condition of the waste-stabilized sludge measured over the previous three years and the consistency of the observed compression rates with the wealth of data collected from Casella's neighboring facility in Hampden, Maine (see 2010 GMR, REW 2011b).

During 2013, the performance of routine operational observations and the annual geotechnical inspection continued. Specifically, the remaining monitoring plan includes provisions for aerial surveys of the landfill configuration, visual observations to verify satisfactory landfill performance in terms of slope stability and settlement, and a mechanism to notify JRL and MEDEP of possible slope instabilities or detrimental strains in advance of their occurrence. The results from one component of this plan, the independent annual geotechnical landfill inspection, are summarized in the next section.

3. GEOTECHNICAL LANDFILL INSPECTION

Geotechnical monitoring during 2013 included field observations during operations and an independent geotechnical inspection of the landfill relating to waste stability and settlement performance. A description of the landfill observations, the annual inspection, and topographic aerial surveys are discussed herein.

3.1 Landfill Observations

During 2013, corroboration of landfill performance with the design conditions used in the geotechnical analysis were confirmed in the field by monitoring the type, quantity, rate, and location of waste placement in accordance with the Operations Manual (NEWSME 2010), which, in part, is based on the results of geotechnical analyses completed for the landfill design and supported by the revised stability analysis (REW 2005b). Landfill performance was verified by visual site observations of the landfill as described in the Operations Manual and documented in the annual report. As part of this, the landfill surface was observed under the direction of a qualified geotechnical engineer for overall condition, evidence of cracking, localized depressions, erosion, leachate breakout on sideslopes, areas of ponded water, and toe heaving.

3.2 Annual Inspection

To supplement routine observations, an annual geotechnical inspection of the landfill area was performed on October 14, 2013. Geotechnical observations were made to indicate that the waste placement, sideslope construction, cover performance, and other construction/filling practices are consistent with the landfill's Operations Manual. Specifically, the appearance of the landfill slope and configuration was observed by an independent geotechnical engineer with special attention paid to the area of the waste-stabilized sludge along the northwestern slope of Cell 2.

Observation reports, using the checklist presented in the 2007 GMP, were filled out and are included in the Appendix A of this report. A photographic record of the October visit is included in Appendix B.

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 In-Place

- 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. As indicated by the report from the site visit, the waste historically placed in Cells 1 through Cell 7 and the active waste placement in Cell 8 is performing as anticipated. At the time of the inspections, there were no indications of inconsistencies between site activities and the Operations Manual. In 2013, the critical area of the landfill underlain by the previous waste stabilized sludge appears to have behaved as anticipated with no indications of slope instabilities or excessive deformations.

3.3 Surveys

Topographic surveys of the landfill surface were completed in 2013 using aerial photogrammetric methods. A spot check of surface elevations at the end of October 2013 indicates that the waste slope angles are consistent with the project design and Operations Manual. Elevation contours for covered areas were visually examined for depressions, heaving, and ditch slope continuity, and, consistent with site observations, indicate that the landfill is performing as anticipated during design with no noticeable differential settlements or instabilities.

3.4 Modifications to the Geotechnical Monitoring Plan

Based on observations of landfill activities and performance during 2013, there are no proposed changes to the Geotechnical Monitoring Plan beyond those made in 2008 and 2010.

4. SUMMARY

Geotechnical monitoring of the JRL was performed to verify that the field behavior of the facility is consistent with design analyses. This program was modified in 2008 and 2010 to emphasize field observations of landfill activities in assuring consistency with the Operations Manual, and that there were no indications of potential slope instabilities or excessive settlements that might impact the performance of the facility. These modifications were made to address logistic conflicts with cell development and in recognition that the need for electronic waste settlement measurements and surveys of slope movements diminished as the waste elevation of the instrumented area approached its final grade without any discernible deformations.

In accordance with the current GMP (REW 2007b), the routine observations made during landfill operations were supplemented with the annual geotechnical inspection performed on October 14, 2013 and an aerial topographic survey of the facility made on October 30, 2013. The resulting checklist and photographic record from the site visit, included in the Appendices, documents observations that the landfill is performing as anticipated with no excessive deformations, slope movements, unexplained ponded water, or leachate breakouts. Specific site observations made of the northern slope of Cells 1 & 2 (an area of the landfill underlain with waste-stabilized sludge) indicate that this critical portion of the landfill is performing as anticipated during design.

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APPENDIX A

Geotechnical Landfill Inspection Form

Table A-1 Checklist: Annual Geotechnical Inspection 2013 Annual Geotechnical Landfill Inspection Report, Juniper Ridge Landfill, West Old Town, Maine

| Observation Date: 10 | 141 | 13 | |
|----------------------|-----|----------|---|
| Monitor Name: | 5 | WARDWORE | _ |

Weather: SUNNY, 60'S

| Observation | | | Description | | |
|---------------------------|---|---|---|---|--|
| Area Sat. Unsat | | | (location, direction, appearance, etc.) | Proposed Action | |
| Active Area | | | | | |
| location description | _ | _ | CELL 8 | n/a | |
| slope stability | V | _ | | | |
| waste lift thickness | V | - | | | |
| active slope angle | / | - | 2 21/2:1 w3:1 | | |
| erosion | 1 | _ | | | |
| leachate breakout | 1 | - | NONE OBSETUED (NO | ••••••••••••••••••••••••••••••••••••••• | |
| ponded water | / | _ | 110 10 | | |
| toe heaving | | _ | ND | | |
| overall condition | / | _ | STABLE SLOPE APPORT | | |
| Inactive Area (Synthetic) | | | VEG COVETE (LOWETE NOW SWAND SOOD | | |
| location description | _ | - | SICH OVER HOST SLOPES | n/a | |
| slope stability | V | _ | GOOD STATE COURT COURT LINE | | |
| cracking | V | - | N(0 | | |
| erosion | | - | Nlo | | |
| leachate breakout | V | _ | N10 | | |
| ponded water | / | ^ | 619 | | |
| toe heaving | / | _ | No | | |
| overall condition | V | _ | STABLE SLOTE ASPERANCE | | |
| Interim Soil Cover | | | W SOOT OF PLANE IS NOT THE | | |
| location description | - | _ | SCORE MORTHWEST | n/a | |
| overall surface condition | V | _ | GOOD GRAGE COUR | | |
| cracking | U | - | 110 | | |
| erosion of cover material | | - | P(0 | | |
| erosion of ditch linings | / | _ | | | |
| leachate breakout | | _ | | | |
| ponded water | _ | _ | LONE / UNITER SUPES | | |
| toe heaving | | - | u u | | |
| grass kills | / | | p(0 | | |
| gas venting | | _ | P(D | | |
| overall condition | / | _ | GOOD CONDITION | | |

APPENDIX B Site Photographs



looking east along northern slope of Cell 1 & 2 (foreground) Cell 3 (background)



northern slope looking west along transition slope between Cell 3 and Cell 1 & 2



crest of northern slope of Cell 1/2, looking easterly along northern slope



at the crest of northern slope looking southwesterly over the top of Cell 7



on the top of southern slope of Cell 7, looking south



south slope of Cell 7 looking east



top of Cell 7 southern slope, looking southwest on landfill top of Cell 3/4 (fore) & Cell 4/5 (aft)



at the crest of eastern interior slope of Cell 5 looking south along the eastern top of Cell 5



at the crest of eastern interior slope of Cell 5, looking south over the top of Cell 6



looking southerly along the top southwesterly slope of Cell 4/5 & Cell 4/6



bottom portion of western slope of Cell 4/5



southwestern slope of Cells 1/2/4, and western slope of Cell 4/5



crest of northwest corner of Cell 1/2 looking down onto northwestern sed pond



crest of nothwest corner of Cell 1/2 looking over the top of Cell 2



SE corner of Cell 7 looking northwesterly along the bottom of NE slope of Cell 7



SW corner of Cell 7 looking south over active Cell 8



SE corner of Cell 8 looking northerly along active Cell 8



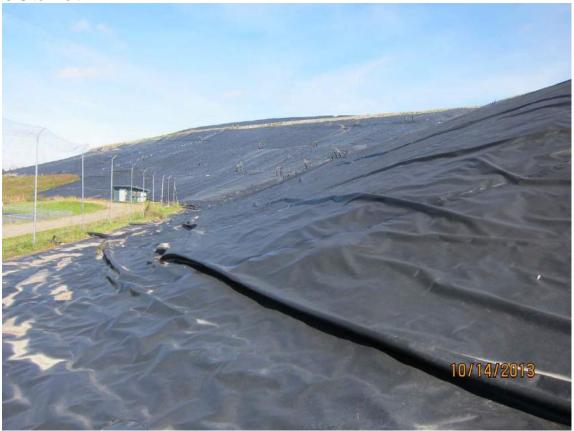
SW corner of Cell 8 looking southwesterly along lower slope of Cell 4/6



SW corner of Cell 4/6 looking southeasterly along lower slope of Cell 4/6



SW corner of Cell 4/6 looking southeasterly towards lower slope of Cell 4/5



SW point of Cell 4/5 looking northerly along lower westerly slope of Cell 4/5



Updated Closure and Post-Closure Cost Estimates



ENVIRONMENTAL . CIVIL . GEOTECHNICAL . WATER . COMPLIANCE

April 9, 2014

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Mr. Jeremy Labbe Environmental Compliance Manager Pine Tree Landfill 358 Emerson Mill Rd Hampden, ME 04444

Subject:

Update of Opinion of Capital Closure and Post-Closure Costs

For Calendar Year 2014 Juniper Ridge Landfill Old Town, Maine

Dear Jeremy:

As requested by NEWSME Landfill Operations, LLC (NEWSME), Sevee & Maher Engineers, Inc. (SME) has updated our opinions of capital closure and post-closure costs for the Juniper Ridge Landfill (JRL) in Old Town, Maine for calendar year 2014. The capital closure cost is for those cells that, as of the end of the calendar year 2014, 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, and 8. In total, these landfill cells have approximately 57.3 acres of closure area. Our opinion of the capital closure cost to close the 57.3 acres is \$11,094,943. This cost is based on a peracre 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 Regulations (SWMRs). The unit costs used to develop the closure cost are from material unit costs obtained for the 2012 Cell 8 construction project at JRL, and similar projects in central Maine adjusted for cover versus cell construction.

The post-closure monitoring and maintenance cost for the site (developed as of December 2014) is \$9,977,300 presented in Table 2. The post-closure costs assume a 30-year post-closure period and are presented on a yearly basis in 2013 dollars.

Our opinion of closure and post-closure costs is based on the following assumptions.

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 for active gas system modifications assumes the existing gas

- collection system installed as part of landfill operations will be modified to operate during the post-closure period.
- 2. The final cover of these cells will consist of the components outlined in the current SWMRs. Our opinion of closure costs are based on unit material prices developed from the construction bids for NEWSME's Cell 9 project and other similar projects in the central Maine area adjusted for closure versus cell construction. These costs are also based on our current understanding of site conditions. 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.
- 3. The post-closure costs include costs for post-closure activities including 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 the cost issues presented in this letter, please feel free to contact us.

Sincerely,

SEVEE & MAHER ENGINEERS, INC.

Michael S. Booth, P.E.

Miller

Project Engineer

Attachments

Table 1 - Opinion of Final Cover Costs for the JRL as of December 2014

Table 2 - Opinion of Post-Closure Monitoring and

Maintenance Costs for Juniper Ridge Landfill as developed in Calendar Year 2014

cc: Toni King, NEWSME

Wayne Boyd, NEWSME

TABLE 1

OPINION OF FINAL COVER COSTS FOR JUNIPER RIDGE LANDFILL FOR LANDFILL AREA DEVELOPED AS OF DECEMBER 2014

| JUNIPER RIDGE LANDFILL PER- | ACRE FI | NAL COVER | COSTS without | gas collection (Update 4/2014) |
|---------------------------------|---------|-----------|--------------------------|--------------------------------|
| ITEM | UNIT | QUANT. | UNIT COST ⁽¹⁾ | TOTAL |
| Mobilization | L.S. | 1 | \$15,000 | \$15,000 |
| Erosion Control | L.S. | 1 | \$3,000 | \$3,000 |
| Active Gas System Modifications | L.S. | 1 | \$21,700 | |
| Site Grading | L.Ş. | 1 | \$2,750 | \$2,750 |
| Drainage Terraces | L.S. | 1 | \$12,000 | \$12,000 |
| 24" compacted clay | C.Y. | 3,230 | \$16.00 | \$51,680 |
| Texture Membrane | SQ.FT. | 43,600 | \$0.60 | \$26,160 |
| 12" Sand Common Borrow | C.Y. | 1,620 | \$16 | \$25,920 |
| 12" Vegetative Cover | C.Y. | 1,620 | \$20 | \$32,400 |
| Seed & Mulch | L.S. | 1 | \$2,500 | \$2,500 |
| Engineer/Const. Monitoring | L.S. | 1 | \$19,000 | \$19,000 |
| | | | Total | \$212,110 |

| JUNIPER RIDGE LANDFILL PER- | ACRE FI | NAL COVER | COSTS w/exist | ing gas collect (Update 4/2014) |
|-----------------------------|---------|-----------|---------------|---------------------------------|
| ITEM | UNIT | QUANT. | UNIT COST(1) | TOTAL |
| Mobilization | L.S. | 1 | \$15,000 | \$15,000 |
| Erosion Control | L.S. | 1 | \$3,000 | \$3,000 |
| Site Grading | L.S. | 1 | \$2,750 | \$2,750 |
| Drainage Terraces | L.S. | 1 | \$12,000 | \$12,000 |
| 24" compacted clay | C.Y. | 3,230 | \$16.00 | \$51,680 |
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| 12" Vegetative Cover | C.Y. | 1,620 | \$20 | \$32,400 |
| Seed & Mulch | L.S. | 1 | \$2,500 | \$2,500 |
| Engineer/Const. Monitoring | L.S. | 1 | \$19,000 | \$19,000 |
| | | | | |
| | | | Total | \$190,410 |

⁽¹⁾ Unit Cost based upon Third Party Construction cost (Cell 9 bids February 2014) adjusted to reflect the cover construction on 3H to 1V sideslopes.

| | Acres | Closure Cost |
|--------------------------------------|-------|--------------|
| Area with Existing Gas Collection | 48.8 | \$9,292,008 |
| Area without Gas Collection (Cell 8) | 8.5 | \$1,802,935 |
| | Total | \$11,094,943 |

TABLE 2

OPINION OF POST-CLOSURE MONITORING AND MAINTENANCE COSTS FOR JUNIPER RIDGE LANDFILL AS DEVELOPED IN CALENDAR YEAR 2014

| ITEM | OPINION OF YEARLY COSTS | TOTAL COST FOR 30 YEAR PERIOD | ASSUMPTIONS |
|--|---|---|---|
| Leachate Collection, Transport and Disposal | | | |
| A. Electrical Costs to Operate Pump Station | \$2,200 | \$66,000 | 5 Pump Stations with 2 pumps in the 4 stations, 1 pump in 1 station . Assumes 15 Hp pumps pumping at 100 gpm for 400 hours per year |
| B. Disposal Costs for Leachate Years 1-30 C. Annual Leachate Testing | \$39,860 \$3,600 | | Leschate generation rate 1.22 inches per year, Total landfill area 57.3 acres, transport costs \$0.021/gal Annual cost for pratrieatment testing |
| C. Allited Leadrace Testing | \$3,000 | \$100,000 | Amount con pretreatment resting |
| | Subtotal Total | \$1,369,800 | |
| Post Closure Water Quality & Methane Gas Monitoring | | | |
| A.1 Collect Samples From 20 Wells,7 underdrains,1 leak detection,2 leachate & 8 Surface Waters for 3 Rounds/Year & Methane Measurements From Wells 3 Times per Year | \$34,500 | \$172,500 | Assumes 2 rounds detect, monitor pera, 1 round extended list for year 1-5 |
| A.2 Collect Samples From 20 Wells,7 underdrains,1 leak detection,2 leachate & 8 Surface Waters for 2 Rounds/Year & Methane Measurements From Wells 2 Tirnes per Year | \$23,000 | \$115,000 | Assumes 2 rounds, one detect, monitor para. & one round extended list for years 6-10 |
| A.3 Coffect Samples From 20 Wells,7 underdrains,1 leak detection,2 leachate & 8 Surface Waters for 1 Round/Year & Methane Measurements From Wells 1 Time par Year | \$11,500 | \$230,000 | Assumes one round extended list for years 11-30 |
| B.1 Analyses of 41 samples 3 Times per Year | \$47,300 | \$236,500 | Assumes 20 wells,7 underdrains,1 leak detection,2 feechate, 8 surface, 8 3 QA/QC |
| B.2 Analyses of 41 Sample 2 Times per Year | \$31,500 | \$157,500 | Assumes 20 wells,7 underdrains,1 leak datection,2 leachate, 8 surface, & 3 QA/QC |
| B.3 Analyses of 41 Sample 1 Time per Year | \$15,800 | \$316,000 | Assumes 20 weits,7 underdrains,1 leak detection,2 leachate, 8 surface, & 3 QA/QC |
| B.4 Analyses of Residential wells 1 Time per Year | \$6,000 | | Assumes 6 residential well locations |
| C. Compile Data and Submit to MDEP | \$6,000 | | Assumes Report prepared and submitted to MDEP after each sample round |
| Subtotal Yearty Cost Years 1-5 | \$93,800 | | |
| Subtotal Yearly Cost Years 6-10 | | | |
| Subtotal Yearly Cost Years 11-30 | \$39,300 | · | |
| | Subtotal Total | \$1,587,500 | |
| Landfill Inspection A. Monthly Site Walk Over & Report Generation | | | |
| | 1 000 000 1 | ሲያያል በሰቡ | Assumpció hi nor month & 675/hr |
| Subtotal | \$10,800 \$10,800 | \$324,000 \$324,000 | Assumes12 hr per morth @ \$75/hr |
| | | | |
| Subtotal | | | General equipment replacement including well heads, condensate pumps etc. |
| Subtotal Active Landfill Gas Extraction System | \$10,800 | \$324,000 \$300,000 | General equipment replacement including well heads, condensate pumps etc. Theplacement of flare parts such as flame arrestor media etc. |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance | \$10,900 \$10,000 \$5,500 \$6,000 | \$324,000 \$300,000 \$165,000 \$180,000 | General equipment replacement including well heads, condensale pumps etc. Replacement of liare parts such as flame arrestor media etc. Replacement of maintenance of blower & control system. |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection | \$10,000 \$10,000 \$5,500 \$6,000 \$5,000 | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Routine inspection and maintenance of blower & control system General system operation & maintenance |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance | \$10,900 \$10,000 \$5,500 \$6,000 | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 | General equipment replacement including well heads, condensale pumps etc. Replacement of liare parts such as flame arrestor media etc. Replacement of maintenance of blower & control system. |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning | \$10,000 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 | \$324,000 \$300,000 \$165,000 \$150,000 \$300,000 \$150,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Routine inspection and maintenance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement as ges decreases. @\$0.18/km/r |
| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring | \$10,000 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$5,000 | \$324,000 \$300,000 \$165,000 \$150,000 \$300,000 \$150,000 \$150,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of liare parts such as flame arrestor media etc. Replacement of liare parts such as flame arrestor media etc. Replacement of liare parts such as flame arrestor media etc. Routine inspection and mainterrance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying florsepper |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$5,000 | \$324,000 \$300,000 \$165,000 \$150,000 \$300,000 \$150,000 \$150,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Routine inspection and maintenance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement as gas decreases. & \$0.18kWrlt included treatment cost for 128 removat to 1000 ppm |
| Subtotal Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$5,000 \$77,000 | \$324,000 \$300,000 \$165,000 \$150,000 \$300,000 \$150,000 \$150,000 \$150,000 \$2,310,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Routine inspection and maintenance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement as gas decreases. & \$0.18kWrlt included treatment cost for 128 removat to 1000 ppm |
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| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$5,000 \$77,000 \$60,400 Subtotal Total | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 \$300,000 \$150,000 \$1,812,000 \$5,367,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Routine inspection and maintenance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement a ges decreases. \$\$0.18/kwhr included treatment cost for R2S removal to 1000 ppm using thiopag system Assumes 3 man crew 7.5 days/ year Assumes 4 hr week \$\$50 per hour |
| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance A. Cover Maintenance Include Annual Mowing & Erosion Repair | \$10,000 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$5,000 \$77,000 \$60,400 Subtotal Total | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 \$300,000 \$150,000 \$1,510,000 \$1,812,000 \$1,812,000 \$1,77,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement as pertection & maintenance of blower & control system General system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement as ges decreases. \$50.18/km/nr included treatment cost for H28 removal to 1000 ppm using thiopag system Assumes 3 man crew 7.5 days/ year Assumes 4 hr week \$50 per hour Assumes 7 per place 9 onsite pumps every 5 years at \$2,222 e piece |
| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance A. Cover Maintenance Include Annual Mowing & Erosion Repair B.1 Pump Stations Inspections | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$77,000 \$60,400 Subtotal Total \$5,900 | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 \$150,000 \$150,000 \$1,812,000 \$1,812,000 \$1,77,000 \$312,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Reciplacement of flare parts such as flame arrestor media etc. Reciplacement in specifion and maintenance of blower & control system General system operation & maintenance Well turing once per month electricity for blowers assume varying horsepper requirement as gas decreases. @\$0.18/low/nr included treatment cost for H28 removal to 1000 ppm using thropag system Assumes 3 man crew 7.5 days/ year Assumes 3 man crew 7.5 days/ year Assumes 4 hr week @ \$50 per hour Assumes reptace 9 onsite pumps every 5 years at \$2.222 e piece |
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| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Welf Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance A. Cover Maintenance Include Annual Mowing & Erosion Repair B.1 Pump Stations Inspections B.2 Pump Replacement C. General Site Maintenance D. Leachate Line Cleaning Subtotal | \$10,000 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$77,000 \$60,400 \$ubtotal Total \$5,900 \$10,400 \$4,000 \$110,400 \$4,000 | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 \$390,000 \$150,000 \$2,310,000 \$1,812,000 \$1,812,000 \$1,812,000 \$1,812,000 \$1,812,000 \$1,812,000 | General equipment replacement encluding well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Well tuning once per month electricity for blowers assume varying horsepper requirement a gas decreases. \$\$0.18/w/w/minoluded treatment cost for R2S removal to 1000 ppm using thropag system Assumes 3 man crew 7.5 days/ year Assumes 4 hr week \$\$50 per hour Assumes 4 hr week \$\$50 per hour Assumes a snow plowing 20 storms per year \$\$250 per storm Assumes leachete line cleaning 2 time per years 1-5, once per year 6-10, then every other year, years 11:30 & |
| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Well Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance A. Cover Maintenance Include Annual Mowing & Erosion Repair B.1 Pump Stations Inspections B.2 Pump Replacement C. General Site Maintenance D. Leachate Line Cleaning Subtotal Professional Services | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$77,000 \$60,400 \$ubtotal Total \$5,900 \$10,400 \$40,000 | \$324,000 \$300,000 \$165,000 \$180,000 \$150,000 \$350,000 \$350,000 \$150,000 \$1,812,000 \$1,812,000 \$1,200,000 \$1,200,000 \$1,200,000 | General equipment replacement encluding well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media system operation & maintenance Well tuning once per month requirement ages decreases \$\$0.18/ewhr included treatment cost for R28 removal to 1000 ppm using thropag system Assumes 3 man crew 7.5 days/ year Assumes 4 hr week \$\$0 per hour Assumes 4 hr week \$\$0 per hour Assumes a place 9 onsite pumps every 5 years at \$2,222 e piece Assumes isonow plowing 20 storms per year \$\$250 per storm Assumes leachete line cleaning 2 time per years 1-5, once per year 6-10, then every other year, years 11-30 \$\$18,000 per cleaning |
| Active Landfill Gas Extraction System A. Gas Collection Equipment Replacement B. Flare Maintenance C. Electrical and Blower Maintenance D. System Operation and Inspection E. Welf Tuning F. Compliance Monitoring G. Electrical Costs to Operate Blowers, Heat & Control Panel Year 1-15 H. Landfill Gas Treatment Costs Landfill Maintenance A. Cover Maintenance Include Annual Mowing & Erosion Repair B.1 Pump Stations Inspections B.2 Pump Replacement C. General Site Maintenance D. Leachate Line Cleaning Subtotal | \$10,800 \$10,000 \$5,500 \$6,000 \$5,000 \$10,000 \$77,000 \$60,400 Subtotal Total \$5,900 \$10,400 \$4,000 \$40,000 \$440,000 | \$324,000 \$300,000 \$165,000 \$165,000 \$150,000 \$300,000 \$150,000 \$310,000 \$1,812,000 \$1,812,000 \$120,000 \$150,000 \$150,000 \$120,000 \$150,000 \$1,209,000 | General equipment replacement including well heads, condensate pumps etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Replacement of flare parts such as flame arrestor media etc. Received system operation & maintenance Well tuning once per month electricity for blowers assume varying horsepper requirement a gas decreases. 4 \$0.18/kwhr included treatment cost for RI28 removal to 1000 ppm using thropag system Assumes 3 man crew 7.5 days/ year Assumes 4 hr week 4 \$50 per hour Assumes 4 hr week 4 \$50 per hour Assumes replace 9 onsite pumps every 5 years at \$2,222 e piece Assumes snow plowing 20 storms per year 4 \$250 per storm Assumes leachete line cleaning 2 time per years 1-5, once per year 6-10, then every other year, years 11-30 46 |
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