

SCS ENGINEERS

August 19, 2011
File No. 04211003.03

Mr. David Bosch
Environmental Health Specialist
Tacoma-Pierce County Health Department
3629 South D Street
Tacoma, Washington 98418-6813

Subject: Second Quarter 2011 Monitoring, Hidden Valley Landfill

Dear David:

The following provides a summary of monitoring activities performed at the closed Hidden Valley Landfill during the Second Quarter (April through June) of 2011.

Monthly rainfall totals and monthly leachate volumes pumped from Cell 1 (main sump), Cell 2 (side slope sump), and the leak detection sump (leakage flow), are summarized in Table 1. Leachate and leakage flow are recorded on a daily basis using a programmable logic controller. Leakage volumes from the side slope liner leak detection system are based on meter readings recorded by on-site personnel. Rainfall totals were recorded with an on-site rain gauge.

Landfill gas monitoring was performed on April 25, May 31, and June 17. All gas probe measurements this quarter were less than 5 percent methane by volume, with the exception of GP-3D, GP-11, GP-13A, and GP-15A, on at least one occasion. After each of these readings, LRI personnel were notified and adjustments were made to the landfill gas extraction system to recapture the gas. Additional monitoring was subsequently performed by LRI staff until methane concentrations decreased to less than 5 percent by volume. On-site buildings were monitored for the presence of landfill gas on April 25. No methane detections were reported in the buildings. A summary of monitoring data for the landfill gas probes and on-site buildings is enclosed.

The groundwater monitoring program followed the Hidden Valley Landfill Groundwater Compliance Monitoring Plan (February 2001) and was a quarterly event. Groundwater samples were collected by SCS Engineers (SCS) on April 19 through April 21. Low-flow sampling techniques were used to purge and collect samples from the monitoring wells. Field quality control samples consisted of one duplicate sample and one field blank. Water supply well samples were collected at Corliss Resources, Inc. (Corliss) and the Paul Bunyan Rifle & Sportsman Club (Paul Bunyan).

Samples were shipped to TestAmerica Laboratories, Inc. in Arvada, Colorado via FedEx the same day as collected. Groundwater data generated from the Hidden Valley Landfill during the Second Quarter of 2011 were validated and input into the Washington Department of Ecology Environmental Information Management (EIM) system.



Depths to water measurements were collected on April 21. Figures 1 through 3 display water level contour maps for; the shallow perched aquifer, upper regional aquifer, and the lower regional aquifer, respectively.

Groundwater field data and laboratory test results are summarized on the following tables: Table 2, Water Level Elevations; Table 3, Field Parameters; Table 4, Inorganic Parameters; Table 5, Dissolved Metals; Table 6, Volatile Organic Compounds; Table 7, Duplicate Samples; and Table 8, Water Supply Wells Field Sampling Data Sheets are attached. Laboratory reports for Second Quarter 2011 groundwater monitoring were provided under separate cover. Groundwater sample results are similar to previous dry-season results. An update of time series plots and groundwater statistics will be included with the 2011 Annual Report. A quality assurance review of the Second Quarter 2011 analytical data is attached.

The landfill cover system and the condensate recirculation system were inspected on April 25. The inspections found minor maintenance issues which are detailed on the attached forms and are being addressed by LRI staff.

A new landfill gas flare and blower system began operation at the Hidden Valley landfill on March 16, 2011 (see the 2011 First Quarter Monitoring Report). The new system includes a Perennial Energy flare rated for 15 million BTU per hour and a flow rate range 50 to 500 standard cubic feet per minute (scfm), assuming 50 percent methane. Since start-up, the flow rate at the new flare has been approximately 350-375 scfm at approximately 28.5 to 30 percent methane.

A portion of the landfill gas extraction system (gas wells N42, N43, N60, N61, N62, and N54) on the south slope of the landfill was taken off-line in early September 2009 to help mitigate a suspected subsurface smoldering fire (see 2009 and 2010 Annual Reports for further discussion). These extraction wells remain off-line.

Three temporary gas probes (LFG-1, LFG-2, and LFG-3) were installed in the vicinity of the suspected subsurface fire in September 2009. Probes LFG-1 and LFG-2 are located just outside the waste on the south side of the first sinkhole. Probe LFG-3 is located within the waste, north of the first sinkhole. These probes are monitored monthly for methane, carbon dioxide, and oxygen. A chart of gas trends at the temporary probes is included with the landfill gas monitoring results.

LRI and SCS are continuing to inspect the sinkhole repair area and south slope for stabilization, slope erosion, and odors. These inspections include weekly visual surveys by LRI personnel and monthly inspections by SCS personnel. Final repair of the composite geomembrane cover will occur after site inspection and monitoring data suggest the subsurface fire is extinguished. These criteria include increasing concentrations of methane and carbon dioxide in landfill gas probes and extraction wells, stabilization of the sinkhole area and south slope, and an absence of burning odors.

If you have any questions regarding the monitoring results, please call at (425) 289-5447.



Mr. David Bosch
August 19, 2011
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Sincerely,



Kevin Lakey, PE, LHG
Project Director
SCS ENGINEERS



Attachment: Data Summary Tables (Tables 1 through 8)
Groundwater Contour Maps (Figures 1 through 3)

Enclosure: Hidden Valley Leachate Treatment System Data
Field Sampling Data Sheets
Landfill Gas Monitoring Results
Site Inspection Forms
CD with .pdf of complete report

cc: Mohsen Kourehdar, Ecology
Rebecca Lawson, Ecology (w/o enclosure)
Jody Snyder, LRI (w/o enclosure)
Wes Gavett, WCI (w/o enclosure)



Groundwater Data Validation Report Second Quarter 2011 Hidden Valley Landfill

Holding Times. All analyses were performed within quality control (QC) holding times.

Surrogate Recovery. Surrogate recoveries were within USEPA guidelines.

Matrix Spike. Matrix spike recoveries were within USEPA guidelines, with the following exceptions:

- Carbon tetrachloride and tetrachloroethene in batch 280-65020 were reported with a matrix spike (MS) recovery below the acceptable limits. The associated data were below the allowable relative percent difference (RPD) of 20 percent and flagged with an “F” by TestAmerica. No further action was taken.
- Ammonia in batches 280-65001, 280-65636 and 280-65427 were reported with a MS and matrix spike duplicate (MSD) recovery below the 90 percent acceptable limit. The associated data were flagged with an “F” by TestAmerica. No further action was taken.
- In lot number F1D220572-001, sulfate was reported with a higher than acceptable recovery percentage. The associated data were flagged with an “N” by TestAmerica. No further action was taken.
- Manganese in batch 280-64152 had a higher than allowable MSD recovery. The associated data were flagged with an “F” by TestAmerica. No further action was taken.
- In batch 280-48570, barium, manganese, and zinc were reported with MS and/or MSD values outside acceptable limits. Barium and manganese were re-tested providing similar results. The associated data for barium and manganese were flagged with a “4”, and the data for zinc were flagged with an “F” by TestAmerica. No further action was taken.

Blanks. One field blank was included this quarter. De-ionized water (catalogue # W210.10.44) from Integra Chemical in Kent, Washington, was used to prepare the field blank by pumping the water through an unused bladder in the submersible bladder-pump. Trichloroethene and ammonia were detected in the field blank at a concentration of 0.66 µg/L, and 0.18 mg/L, respectively. No other detections of trichloroethene were reported. No other VOCs, dissolved metals, or inorganic compounds were reported in the field blank or laboratory method blanks.

Duplicate Samples. A field duplicate sample was collected from well MW-13S. All test results greater than five times the method reporting limit (MRL) were within 20 percent RPD.

Quantitation Limits. The reporting limits for all analyses were within the limits specified in the 2001 Groundwater Compliance Monitoring Plan.



Completeness. Samples were analyzed as requested.

Data Assessment. The data are considered acceptable for entry into the database. Ammonia test results for samples collected from monitoring wells without dedicated equipment with concentrations within 5 times the detected blank concentration were flagged with a “B.”



Table 1. 2011 Performance Monitoring Data

| 2011 Performance Monitoring Data Main Sump and Side Slope Liner Areas Hidden Valley Landfill, Pierce County, Washington | | | | |
|--|--|--|--|---------------------------------|
| Month | Cell 1 Monthly Leachate Volume (gallons) | Cell 2 Monthly Leachate Volume (gallons) | Cell 2 Monthly Leakage Flow ^(a) (gallons/month) | Monthly Rainfall (inches) |
| January | 22,438 | 12,017 | 320 | 9.9 |
| February | 44,148 | 7,305 | 0 | 4.4 |
| March | 37,193 | 3,309 | 1,083 | 12.4 |
| April | 41,457 | 6,789 | 421 | 8.5 |
| May | 13,670 | 3,399 | 0 | 5.8 |
| June | 25,381 | 6,819 | 794 | 3.1 |

^(a) Leakage is based on the volume of fluid pumped from the leak detection sump as recorded by LRI staff.

Table 2
Water Level Elevations
April 21, 2011
Hidden Valley Landfill, Pierce County, Washington

| Well Number | Well Casing Elevation | Depth to Water | Water Level Elevation |
|-------------|-----------------------|----------------|-----------------------|
| MW-10S | 460.17 | NM | NM |
| MW-10D | 460.69 | 22.10 | 438.59 |
| MW-11S | 516.44 | 76.50 | 439.94 |
| MW-11D | 516.56 | NM | NM |
| MW-11D(2) | 515.53 | 84.80 | 430.73 |
| MW-12S | 489.94 | 59.20 | 430.74 |
| MW-12D | 489.97 | 59.00 | 430.97 |
| MW-13S | 448.81 | 17.70 | 431.11 |
| MW-13D | 448.94 | 18.02 | 430.92 |
| MW-14S | 477.95 | 40.46 | 437.49 |
| MW-14D | 477.98 | 42.95 | 435.03 |
| MW-14R | 476.84 | 114.16 | 362.68 |
| MW-15S | 498.76 | 67.20 | 431.56 |
| MW-15D | 498.52 | 71.89 | 426.63 |
| MW-17S | 552.44 | 123.50 | 428.94 |
| MW-18S | 538.40 | 126.03 | 412.37 |
| MW-18D | 539.00 | 124.33 | 414.67 |
| MW-19S | 485.71 | 50.08 | 435.63 |
| MW-19D | 485.82 | 51.48 | 434.34 |
| MW-20R | 469.43 | 105.17 | 364.26 |
| MW-22U | 545.92 | NM | NM |
| MW-22L | 546.07 | NM | NM |
| MW-23S | 448.34 | 16.56 | 431.78 |
| MW-23D | 448.25 | 18.43 | 429.82 |
| MW-25S | 527.80 | 116.22 | 411.58 |
| MW-25D | 527.52 | 115.60 | 411.92 |
| MW-26R | 481.81 | NM | NM |
| MW-27S | 531.81 | 97.60 | 434.21 |
| MW-27D | 531.92 | 98.10 | 433.82 |
| MW-28S | 466.87 | 37.43 | 429.44 |
| FMW-01 | 542.59 | 135.80 | 406.79 |
| FMW-02 | 536.40 | 129.16 | 407.24 |
| BC-4S | 526.68 | 118.69 | 407.99 |
| BC-4D | 526.94 | NM | NM |

Notes:
(NM) = not measured

Table 3
Field Parameters
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

| Sample ID | Sample Number | Sample Date | Method | pH | Conductance (μ S) | Temperature ($^{\circ}$ C) |
|------------------------------|---------------|-------------|--------|------|---------------------------|--------------------------------|
| MW-10S | HVL-042011-10 | 04/20/11 | DP | 6.43 | 134 | 9.5 |
| MW-10D | HVL-042011-11 | 04/20/11 | DP | 6.46 | 151 | 9.9 |
| MW-11S | HVL-041911-02 | 04/19/11 | SP | 5.80 | 252 | 14.9 |
| MW-11D(2) | HVL-041911-03 | 04/19/11 | SP | 6.56 | 214 | 14.3 |
| MW-13S | HVL-041911-05 | 04/19/11 | SP | 6.09 | 401 | 18.0 |
| MW-13D | HVL-041911-07 | 04/19/11 | DP | 6.50 | 342 | 17.2 |
| MW-14S | HVL-042111-13 | 04/21/11 | DP | 5.92 | 122 | 12.0 |
| MW-14D | HVL-042111-12 | 04/21/11 | DP | 6.17 | 153 | 12.2 |
| MW-17S | HVL-042011-09 | 04/20/11 | SP | 6.02 | 473 | 20.3 |
| MW-28S | HVL-042111-14 | 04/21/11 | SP | 6.25 | 161 | 11.7 |
| FMW-01 | HVL-041911-01 | 04/19/11 | SP | 6.25 | 282 | 12.3 |
| FMW-02 | HVL-042011-08 | 04/20/11 | SP | 6.11 | 478 | 16.7 |
| Water Supply Well, P. Bunyan | HVL-042111-15 | 04/21/11 | Grab | 6.57 | 274 | 10.4 |
| Water Supply Well, Corliss | HVL-042111-16 | 04/21/11 | Grab | 6.81 | 215 | 32.7 |

Notes:

The groundwater cleanup level for specific conductance is 700 (μ S).

(μ S) = microsiemens

($^{\circ}$ C) = degrees Centigrade

(Grab) = collected from sampling point

(SP) = submersible bladder-pump (non-dedicated)

(DP) = dedicated bladder-pump

Table 4
Inorganic Parameters (mg/L)
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

| | MRL | Cleanup Levels | MW-10D | MW-10S | MW-11D(2) | MW-11S | MW-13D | MW-13S | MW-14D | MW-14S | MW-17S | MW-28S | FMW-01 | FMW-02 |
|------------------------|----------|--------------------|------------|--------|-----------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | Background | | | | | | | | | | | |
| Alkalinity | 5 | — | 54 | 47 | 110 | 45 | 150 | 120 | 56 | 37 | 180 | 65 | 100 | 160 |
| Bicarbonate Alkalinity | 5 | — | 54 | 47 | 110 | 45 | 150 | 120 | 56 | 37 | 180 | 65 | 100 | 160 |
| Chloride | 0.2-4.0 | 250 ^(b) | 6.0 | 5.6 | 5.9 | 13.2 | 17.4 | 31.4 | 6.4 | 6.6 | 25.1 | 7.6 | 19.1 | 23.1 |
| Ammonia as Nitrogen | 0.10 | — | * | * | 0.12 B | 0.17 B | * | 0.24 B | 1.60 | 0.18 | 1.9 B | 0.1 B | 0.13 B | 0.11 B |
| Nitrate as Nitrogen | 0.50 | 10 ^(a) | 1.1 | 0.96 | 2.0 | 10.0 | 1.7 | 6.0 | * | 1.70 | 4.4 | 1.0 | 3.4 | 9.2 |
| Sulfate | 0.5-10.0 | 250 ^(b) | 9.9 | 8.6 | 5.4 | 23.3 | 15.4 | 25.7 | 9.4 | 8.4 | 9.0 | 3.8 | 17.9 | 19.1 |
| Total Dissolved Solids | 10 | 500 ^(b) | 99 | 88 | 140 | 180 | 210 | 270 | 99 | 85 | 280 | 110 | 180 | 300 |
| Total Organic Carbon | 1.0 | — | * | * | * | 1.2 | 1.0 | 1.6 | 1.4 | 1.2 | 2.8 | * | 1.2 | 1.7 |

Notes:
Parameter concentrations that are greater than cleanup levels are shown in bold
Analyses performed by TestAmerica, Arvada, Colorado
(mg/L) = milligrams per liter
(*) indicates not reported at or above the MRL (Method Reporting Limit)
(—) indicates not analyzed or not applicable
(a) indicates Primary Drinking Water Standard
(b) indicates Secondary Drinking Water Standard

Table 5
Dissolved Metals (mg/L)
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

| | MRL | Cleanup Levels | MW-10D | MW-10S | MW-11D(2) | MW-11S | MW-13D | MW-13S | MW-14D | MW-14S | MW-17S | MW-28S | FMW-01 | FMW-02 |
|-----------|--------|---------------------|------------|--------|-----------|--------|--------|--------|--------------|--------------|--------------|--------|--------|--------------|
| | | | Background | | | | | | | | | | | |
| Arsenic | 0.1000 | — | * | * | * | * | * | * | * | * | * | * | * | * |
| Iron | 0.200 | 0.30 ^(b) | * | * | * | * | * | * | * | * | * | * | * | * |
| Manganese | 0.001 | 0.05 ^(b) | * | * | * | 0.007 | * | 0.003 | 0.510 | 0.056 | 1.300 | * | * | 0.084 |

Notes:

Parameter concentrations that are greater than cleanup levels are shown in **bold**

Analyses performed by TestAmerica, Arvada, Colorado

Metals not listed were not present at concentrations exceeding the MRL

(mg/L) = milligrams per liter

(*) indicates not reported at or above the MRL (Method Reporting Limit)

(b) indicates Secondary Drinking Water Standard

Table 6
Volatile Organic Compounds (µg/L)
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

| | MRL | Cleanup Levels | MW-10D | MW-10S | MW-11D(2) | MW-11S | MW-13D | MW-13S | MW-14D | MW-14S | MW-17S | MW-28S | FMW-01 | FMW-02 |
|--|-----|--------------------|------------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | Background | | | | | | | | | | | |
| Tetrachloroethene | 0.5 | 5.0 ^(a) | * | * | 0.53 | * | * | * | * | * | * | * | * | * |
| Notes: | | | | | | | | | | | | | | |
| Analyses performed by TestAmerica, Arvada, Colorado | | | | | | | | | | | | | | |
| Volatile organic compounds not listed were not present at concentrations exceeding the MRL | | | | | | | | | | | | | | |
| Freon 12 = Dichlorodifluoromethane | | | | | | | | | | | | | | |
| (µg/L) = micrograms per liter | | | | | | | | | | | | | | |
| (*) indicates not reported at or above the MRL (Method Reporting Limit) | | | | | | | | | | | | | | |
| (a) indicates Primary Drinking Water standard | | | | | | | | | | | | | | |

Table 7
Duplicate Samples
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

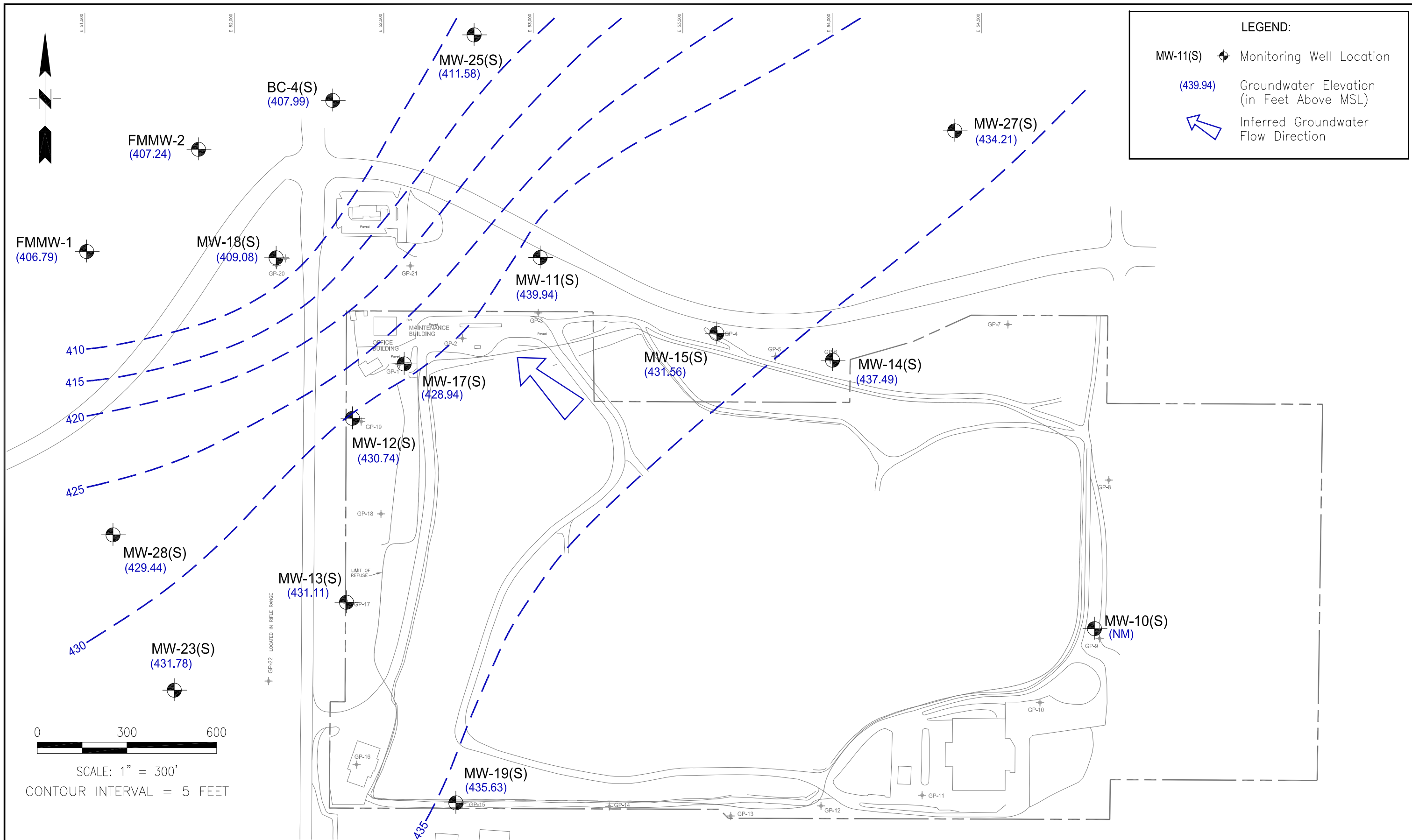
| | MRL | MW-13S | DUP (MW-13S) | RPD (%) |
|------------------------------------|-------|--------|--------------|---------|
| Volatile Organics (µg/L) | | | | |
| No Detections | — | * | * | — |
| Dissolved Metals (mg/L) | | | | |
| Arsenic | 0.005 | * | * | — |
| Iron | 0.20 | * | * | — |
| Manganese | 0.001 | 3.30 | 3.00 | 10 |
| Inorganic Parameters (mg/L) | | | | |
| Alkalinity | 5 | 120 | 120 | 0 |
| Bicarbonate Alkalinity | 5 | 120 | 120 | 0 |
| Ammonia as Nitrogen | 0.10 | ** | ** | ** |
| Total Organic Carbon | 1.0 | ** | ** | ** |
| Chloride | 4.0 | 31.4 | 31.7 | 1 |
| Nitrate as Nitrogen | 0.2 | 6.0 | 6.1 | 2 |
| Total Dissolved Solids | 10 | 270 | 260 | 4 |
| Sulfate | 0.5 | 25.7 | 26.3 | 2 |

Notes:

Analyses performed by TestAmerica, Arvada, Colorado
 Analytes not listed were not present at concentrations exceeding the MRL
 RPD = relative percent difference
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 (*) = not reported at or above the MRL (Method Reporting Limit)
 (**) = indicates less than 5X the MRL
 (—) = not applicable

Table 8
Water Supply Wells
April 2011 (Second Quarter) Groundwater Monitoring
Hidden Valley Landfill, Pierce County, Washington

| | MRL | Paul Bunyan | Corliss |
|--|---------|-------------|---------|
| Volatile Organics (µg/L) | | | |
| No Detections | — | * | * |
| Total Metals (mg/L) | | | |
| Iron | 0.200 | * | * |
| Manganese | 0.001 | * | 0.003 |
| Zinc | 0.010 | 0.011 | 0.029 |
| Inorganic Parameters (mg/L) | | | |
| Chloride | 0.2-4.0 | 4.4 | 6.1 |
| Ammonia as Nitrogen | 0.10 | * | * |
| Nitrate as Nitrogen | 0.5 | 1.6 | 1.4 |
| Nitrite as Nitrogen | 0.5 | * | * |
| Sulfate | 0.5 | 9.7 | 8.7 |
| Chemical Oxygen Demand (COD) | 20 | * | * |
| Total Organic Carbon (TOC) | 1.0 | * | * |
| Color | 5.0 | * | * |
| Notes: | | | |
| Analyses performed by TestAmerica, Arvada, Colorado | | | |
| Volatile organic compounds not listed were not present at concentrations exceeding the MRL | | | |
| Color reported in color units | | | |
| µg/L = micrograms per liter | | | |
| mg/L = milligrams per liter | | | |
| (—) = not applicable or not analyzed | | | |
| (*) = not reported at or above the MRL (Method Reporting Limit) | | | |

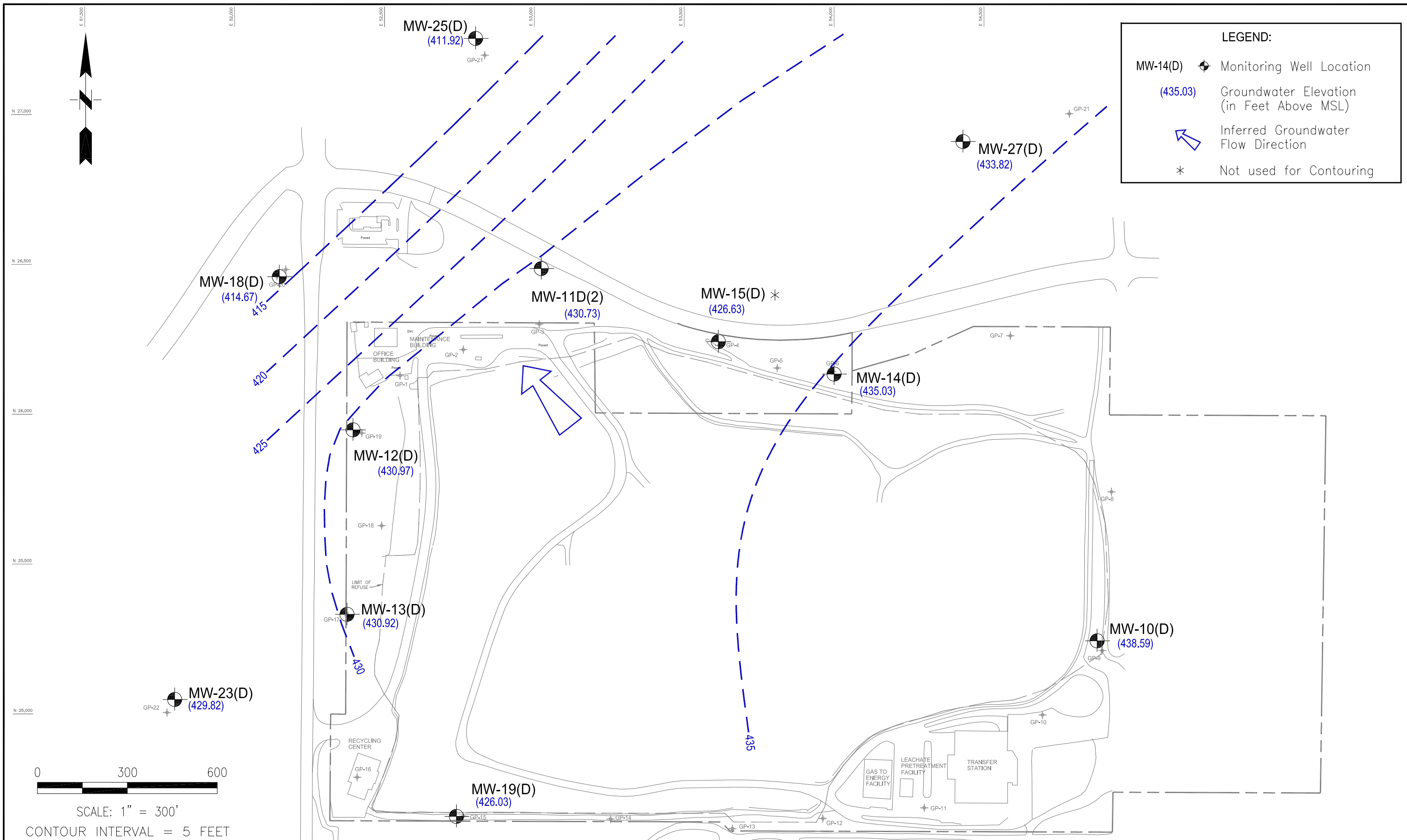


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| | | | |
|-------------|--------------|--------|-----|
| PROJECT NO. | 042110003.03 | DES BY | SA |
| SCALE | AS SHOWN | CHK BY | ES |
| CAD FILE | FIGURE 1 | APP BY | KGL |

SHALLOW PERCHED AQUIFER
 WATER LEVEL MAP
 APRIL 11, 2011
 HIDDEN VALLEY LANDFILL
 PIERCE COUNTY, WASHINGTON

DATE
 JULY 2011
 FIGURE
 1

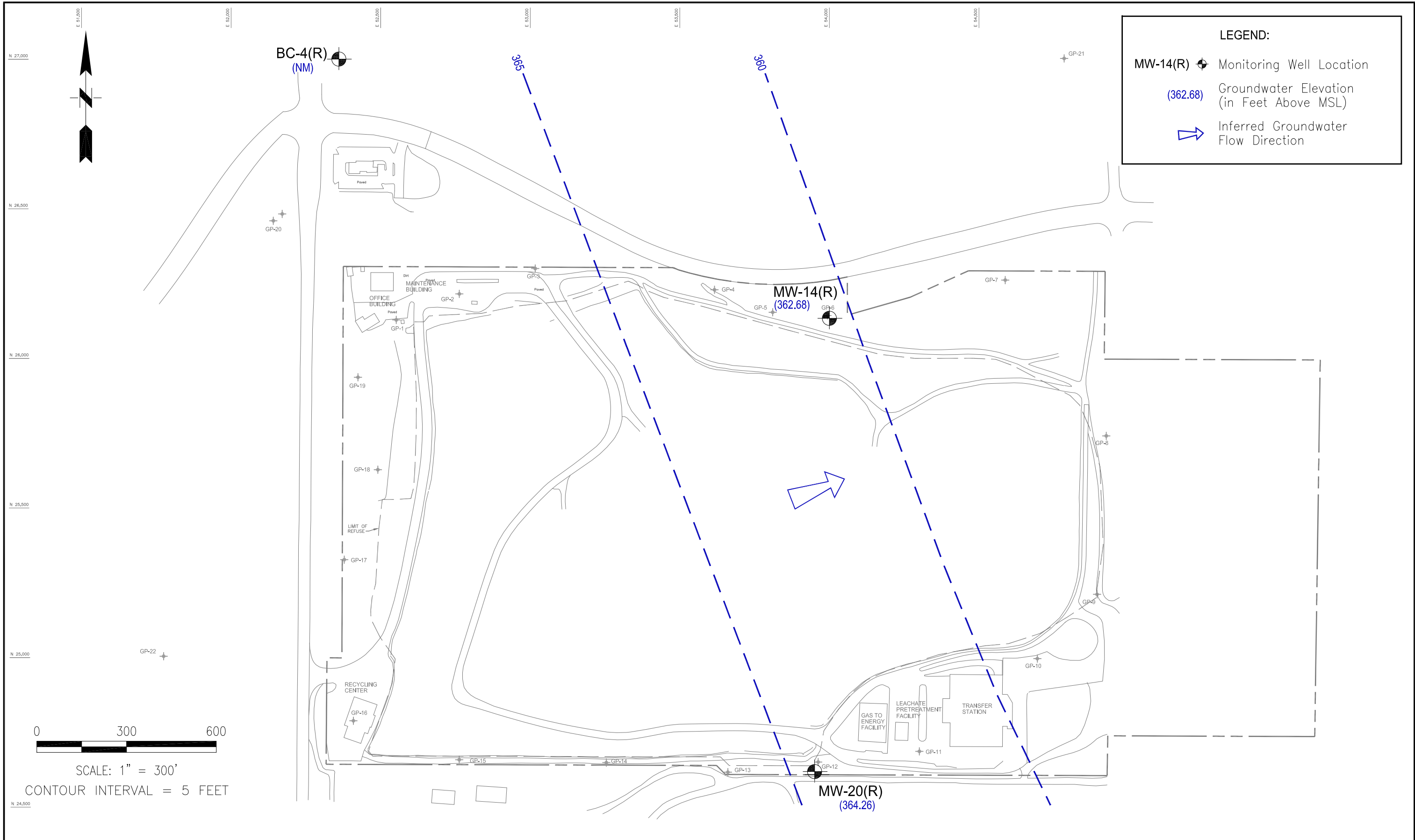


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| | | | |
|-------------|--------------|--------|-----|
| PROJECT NO. | 042110003.03 | DES BY | SA |
| SCALE | AS SHOWN | CHK BY | ES |
| CAD FILE | FIGURE 2 | APP BY | KGL |

UPPER REGIONAL AQUIFER
 WATER LEVEL MAP
 APRIL 11, 2011
 HIDDEN VALLEY LANDFILL
 PIERCE COUNTY, WASHINGTON

| | |
|--------|-----------|
| DATE | JULY 2011 |
| FIGURE | 2 |



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| | | | |
|-------------|-------------|--------|-----|
| PROJECT NO. | 04211003.03 | DES BY | KGL |
| SCALE | AS SHOWN | CHK BY | KGL |
| CAD FILE | FIGURE 3 | APP BY | KGL |

LOWER REGIONAL AQUIFER
 WATER LEVEL MAP
 APRIL 11, 2011
 HIDDEN VALLEY LANDFILL
 PIERCE COUNTY, WASHINGTON

DATE
 JULY 2011
 FIGURE
3

Hidden Valley Landfill

Month of Apr-11

| Day | Leachate Level | Cell 2 Leak Level | Cell 2 Daily Avg. GPM | Cell 2 Leak GPD | Cell 1 Influent GPD | Cell 2 Influent GPD | 304th Influent GPD | Treatment Discharge Avg GPM | Treatment Discharge GPD |
|-----|----------------|-------------------|-----------------------|-----------------|---------------------|---------------------|--------------------|-----------------------------|-------------------------|
| 31 | 16.51 | 4.17 | 0 | 0 | 0 | 0 | 31,451 | 28.84 | 29,964 |
| 1 | 16.59 | 4.26 | 0 | 0 | 0 | 0 | 32,636 | 28.47 | 30,402 |
| 2 | 16.77 | 4.52 | 0 | 0 | 0 | 0 | 30,413 | 27.73 | 28,121 |
| 3 | 17.24 | 5.26 | 0 | 0 | 4,141 | 0 | 26,245 | 26.84 | 28,316 |
| 4 | 17.51 | 5.73 | 0 | 0 | 0 | 0 | 22,658 | 26.52 | 25,642 |
| 5 | 17.90 | 6.30 | 0 | 0 | 1,155 | 0 | 23,616 | 27.41 | 26,558 |
| 6 | 18.03 | 6.52 | 0 | 0 | 16 | 0 | 31,222 | 29.22 | 29,306 |
| 7 | 18.11 | 6.78 | 0 | 0 | 0 | 0 | 25,920 | 28.38 | 27,588 |
| 8 | 18.50 | 7.25 | 0 | 0 | 2,386 | 0 | 31,959 | 28.93 | 32,888 |
| 9 | 18.59 | 7.47 | 0 | 0 | 2,892 | 0 | 32,401 | 29.04 | 30,637 |
| 10 | 18.85 | 7.86 | 0 | 0 | 1,513 | 0 | 26,695 | 28.26 | 25,380 |
| 11 | 19.03 | 8.08 | 0 | 0 | 0 | 0 | 16,255 | 29.24 | 22,102 |
| 12 | 15.12 | 8.64 | 44 | 0 | 688 | 3,659 | 23,278 | 37.29 | 28,375 |
| 13 | 15.20 | 8.64 | 0 | 0 | 4,495 | 0 | 30,926 | 38.64 | 33,308 |
| 14 | 15.42 | 8.86 | 0 | 0 | 4,190 | 0 | 28,143 | 37.52 | 30,764 |
| 15 | 15.77 | 9.30 | 0 | 0 | 0 | 0 | 33,391 | 37.07 | 33,507 |
| 16 | 15.99 | 9.43 | 0 | 0 | 0 | 0 | 26,619 | 35.76 | 27,288 |
| 17 | 16.20 | 9.73 | 0 | 0 | 2,863 | 0 | 26,425 | 34.47 | 31,955 |
| 18 | 16.38 | 9.95 | 0 | 0 | 0 | 0 | 28,492 | 35.00 | 27,652 |
| 19 | 16.72 | 10.47 | 0 | 0 | 0 | 0 | 30,165 | 36.67 | 29,886 |
| 20 | 12.81 | 10.56 | 44 | 0 | 4,936 | 3,131 | 20,097 | 35.60 | 27,589 |
| 21 | 13.07 | 10.77 | 0 | 0 | 0 | 0 | 29,790 | 36.95 | 30,890 |
| 22 | 13.55 | 11.42 | 0 | 0 | 0 | 0 | 22,328 | 35.23 | 30,965 |
| 23 | 13.73 | 11.64 | 0 | 0 | 2,893 | 0 | 32,386 | 36.66 | 35,744 |
| 24 | 14.16 | 12.25 | 0 | 0 | 9 | 0 | 29,653 | 36.61 | 28,815 |
| 25 | 14.12 | 12.42 | 0 | 0 | 1,281 | 0 | 23,418 | 36.08 | 25,798 |
| 26 | 14.51 | 13.03 | 0 | 0 | 297 | 0 | 20,601 | 35.30 | 27,607 |
| 27 | 14.77 | 13.60 | 0 | 0 | 0 | 0 | 32,810 | 36.51 | 34,978 |
| 28 | 14.86 | 4.04 | 0 | 777 | 1,974 | 0 | 26,950 | 36.07 | 30,080 |
| 29 | 15.12 | 4.21 | 0 | 0 | 2,869 | 0 | 34,498 | 36.25 | 37,732 |
| 30 | 15.51 | 4.65 | 0 | 0 | 2,859 | 0 | 27,381 | 35.21 | 30,456 |

| | | | | | |
|-----------------------|-------------|-----------------|-----------------|----------------|---------------------|
| Total Gallons: | 777 | 41,457 | 6,789 | 827,371 | 890,329 |
| | Cell 2 Leak | Cell 1 Leachate | Cell 2 Leachate | 304th Influent | Treatment Discharge |

**Hidden Valley Landfill
Apr-11**

Hour Meters

Totalizers

| Day | Discharge Pump 12 | | Cell 2 Influent Pump | | Cell 2 Daily | Pump 12 Daily | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |
|--------------|-------------------|-------|----------------------|-------|--------------|----------------|-----------------|-----------------|-------------|----------------|---------------------|
| | (hr) | (min) | (hr) | (min) | Hours | Hours | Total Gals. | Total Gals. | Total Gals. | Total Gals. | Total Gals. |
| 31 | 35,921 | 43 | 2923 | 16 | 0.00 | 17.32 | 6034696 | 3,946,780 | 98185 | 88,592,879 | 77,187,724 |
| 1 | 35,939 | 31 | 2923 | 16 | 0.00 | 17.80 | 6034696 | 3,946,780 | 98185 | 88,625,515 | 77,218,126 |
| 2 | 35,956 | 25 | 2923 | 16 | 0.00 | 16.90 | 6034696 | 3,946,780 | 98185 | 88,655,928 | 77,246,247 |
| 3 | 35,973 | 60 | 2923 | 16 | 0.00 | 17.58 | 6038837 | 3,946,780 | 98185 | 88,682,173 | 77,274,563 |
| 4 | 35,990 | 7 | 2923 | 16 | 0.00 | 16.12 | 6038837 | 3,946,780 | 98185 | 88,704,831 | 77,300,204 |
| 5 | 36,006 | 16 | 2923 | 16 | 0.00 | 16.15 | 6039992 | 3,946,780 | 98185 | 88,728,447 | 77,326,762 |
| 6 | 36,022 | 59 | 2923 | 16 | 0.00 | 16.72 | 6040008 | 3,946,780 | 98185 | 88,759,669 | 77,356,068 |
| 7 | 36,039 | 11 | 2923 | 16 | 0.00 | 16.20 | 6040008 | 3,946,780 | 98185 | 88,785,589 | 77,383,656 |
| 8 | 36,058 | 8 | 2923 | 16 | 0.00 | 18.95 | 6042394 | 3,946,780 | 98185 | 88,817,548 | 77,416,544 |
| 9 | 36,075 | 43 | 2923 | 16 | 0.00 | 17.58 | 6045285 | 3,946,780 | 98185 | 88,849,949 | 77,447,181 |
| 10 | 36,090 | 41 | 2923 | 16 | 0.00 | 14.97 | 6046799 | 3,946,780 | 98185 | 88,876,644 | 77,472,561 |
| 11 | 36,103 | 17 | 2923 | 16 | 0.00 | 12.60 | 6046799 | 3,946,780 | 98185 | 88,892,899 | 77,494,663 |
| 12 | 36,115 | 58 | 2924 | 39 | 1.38 | 12.68 | 6047487 | 3,950,439 | 98185 | 88,916,177 | 77,523,038 |
| 13 | 36,130 | 20 | 2924 | 39 | 0.00 | 14.37 | 6051982 | 3,950,439 | 98185 | 88,947,103 | 77,556,347 |
| 14 | 36,143 | 60 | 2924 | 39 | 0.00 | 13.67 | 6056172 | 3,950,439 | 98185 | 88,975,246 | 77,587,110 |
| 15 | 36,159 | 4 | 2924 | 39 | 0.00 | 15.07 | 6056172 | 3,950,439 | 98185 | 89,008,637 | 77,620,618 |
| 16 | 36,171 | 47 | 2924 | 39 | 0.00 | 12.72 | 6056172 | 3,950,439 | 98185 | 89,035,257 | 77,647,906 |
| 17 | 36,187 | 14 | 2924 | 39 | 0.00 | 15.45 | 6059035 | 3,950,439 | 98185 | 89,061,682 | 77,679,861 |
| 18 | 36,200 | 24 | 2924 | 39 | 0.00 | 13.17 | 6059035 | 3,950,439 | 98185 | 89,090,173 | 77,707,512 |
| 19 | 36,213 | 59 | 2924 | 39 | 0.00 | 13.58 | 6059035 | 3,950,439 | 98185 | 89,120,338 | 77,737,399 |
| 20 | 36,226 | 54 | 2925 | 50 | 1.18 | 12.92 | 6063972 | 3,953,569 | 98185 | 89,140,435 | 77,764,987 |
| 21 | 36,240 | 50 | 2925 | 50 | 0.00 | 13.93 | 6063972 | 3,953,569 | 98185 | 89,170,225 | 77,795,878 |
| 22 | 36,255 | 29 | 2925 | 50 | 0.00 | 14.65 | 6063972 | 3,953,569 | 98185 | 89,192,553 | 77,826,843 |
| 23 | 36,271 | 44 | 2925 | 50 | 0.00 | 16.25 | 6066865 | 3,953,569 | 98185 | 89,224,940 | 77,862,587 |
| 24 | 36,284 | 51 | 2925 | 50 | 0.00 | 13.12 | 6066874 | 3,953,569 | 98185 | 89,254,593 | 77,891,402 |
| 25 | 36,296 | 46 | 2925 | 50 | 0.00 | 11.92 | 6068154 | 3,953,569 | 98185 | 89,278,010 | 77,917,200 |
| 26 | 36,309 | 48 | 2925 | 50 | 0.00 | 13.03 | 6068451 | 3,953,569 | 98185 | 89,298,611 | 77,944,807 |
| 27 | 36,325 | 46 | 2925 | 50 | 0.00 | 15.97 | 6068451 | 3,953,569 | 98185 | 89,331,421 | 77,979,785 |
| 28 | 36,339 | 40 | 2926 | 6 | 0.27 | 13.90 | 6070426 | 3,953,569 | 98962 | 89,358,371 | 78,009,865 |
| 29 | 36,357 | 1 | 2926 | 6 | 0.00 | 17.35 | 6073295 | 3,953,569 | 98962 | 89,392,869 | 78,047,597 |
| 30 | 36,371 | 26 | 2926 | 6 | 0.00 | 14.42 | 6076153 | 3,953,569 | 98962 | 89,420,250 | 78,078,053 |
| Total | | | | | | Gallons | 41,457 | 6,789 | 777 | 827,371 | 890,329 |
| | | | | | | | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |

Hidden Valley Landfill
Month of May-11

| Day | Leachate Level | Cell 2 Leak Level | Cell 2 Daily Avg. GPM | Cell 2 Leak GPD | Cell 1 Influent GPD | Cell 2 Influent GPD | 304th Influent GPD | Treatment Discharge Avg GPM | Treatment Discharge GPD |
|-----------------------|----------------|-------------------|-----------------------|-----------------|---------------------|---------------------|--------------------|-----------------------------|-------------------------|
| 30 | 15.51 | 4.65 | 0 | 0 | 2,859 | 0 | 27,381 | 35.21 | 30,456 |
| 1 | 15.94 | 5.17 | 0 | 0 | 726 | 0 | 25,689 | 34.22 | 27,514 |
| 2 | 15.81 | 4.95 | 0 | 0 | 1,002 | 0 | 23,434 | 33.80 | 27,106 |
| 3 | 11.64 | 5.30 | 44 | 0 | 1,069 | 3,399 | 26,104 | 34.08 | 32,443 |
| 4 | 12.16 | 5.82 | 0 | 0 | 0 | 0 | 16,557 | 32.39 | 24,778 |
| 5 | 12.21 | 5.82 | 0 | 0 | 0 | 0 | 20,875 | 32.64 | 29,082 |
| 6 | 12.68 | 6.30 | 0 | 0 | 2,062 | 0 | 21,015 | 32.39 | 26,304 |
| 7 | 12.77 | 6.30 | 0 | 0 | 0 | 0 | 16,259 | 31.21 | 23,094 |
| 8 | 12.94 | 6.30 | 0 | 0 | 834 | 0 | 19,404 | 31.37 | 28,072 |
| 9 | 13.25 | 6.56 | 0 | 0 | 1,836 | 0 | 20,708 | 30.76 | 29,806 |
| 10 | 13.68 | 6.95 | 0 | 0 | 0 | 0 | 14,793 | 30.40 | 22,769 |
| 11 | 13.55 | 6.82 | 0 | 0 | 0 | 0 | 21,442 | 30.90 | 26,238 |
| 12 | 14.16 | 7.34 | 0 | 0 | 0 | 0 | 17,432 | 33.33 | 23,432 |
| 13 | 14.33 | 7.51 | 0 | 0 | 0 | 0 | 19,602 | 39.11 | 39,304 |
| 14 | 14.73 | 7.91 | 0 | 0 | 0 | 0 | 21,454 | 39.48 | 32,175 |
| 15 | 14.68 | 7.82 | 0 | 0 | 0 | 0 | 15,531 | 38.30 | 27,691 |
| 16 | 15.12 | 8.21 | 0 | 0 | 0 | 0 | 16,309 | 38.03 | 38,715 |
| 17 | 15.16 | 8.12 | 0 | 0 | 0 | 0 | 16,782 | 37.19 | 38,416 |
| 18 | 15.38 | 8.47 | 0 | 0 | 0 | 0 | 21,113 | 36.76 | 41,718 |
| 19 | 15.64 | 8.60 | 0 | 0 | 0 | 0 | 19,920 | 37.32 | 35,562 |
| 20 | 15.81 | 8.82 | 0 | 0 | 0 | 0 | 19,158 | 36.33 | 34,439 |
| 21 | 16.16 | 9.25 | 0 | 0 | 0 | 0 | 18,011 | 35.26 | 28,667 |
| 22 | 16.33 | 9.51 | 0 | 0 | 1,489 | 0 | 17,852 | 34.63 | 33,215 |
| 23 | 16.46 | 9.73 | 0 | 0 | 0 | 0 | 16,572 | 40.56 | 25,672 |
| 24 | 16.85 | 10.16 | 0 | 0 | 0 | 0 | 18,550 | 45.71 | 34,878 |
| 25 | 16.72 | 10.12 | 0 | 0 | 0 | 0 | 20,018 | 45.88 | 35,830 |
| 26 | 17.24 | 10.77 | 0 | 0 | 0 | 0 | 19,051 | 44.68 | 32,306 |
| 27 | 17.29 | 10.90 | 0 | 0 | 0 | 0 | 15,591 | 43.34 | 24,876 |
| 28 | 17.51 | 11.16 | 0 | 0 | 0 | 0 | 13,931 | 42.72 | 25,544 |
| 29 | 17.81 | 11.64 | 0 | 0 | 0 | 0 | 19,254 | 42.67 | 34,133 |
| 30 | 17.90 | 11.90 | 0 | 0 | 0 | 0 | 17,940 | 42.51 | 31,541 |
| 31 | 18.07 | 12.29 | 0 | 0 | 4,652 | 0 | 18,357 | 42.12 | 34,711 |
| Total Gallons: | | | | 0 | 13,670 | 3,399 | 588,708 | | 950,028 |
| | | | Cell 2 Leak | Cell 1 Leachate | Cell 2 Leachate | 304th Influent | | Treatment Discharge | |

**Hidden Valley Landfill
May-11**

Hour Meters

Totalizers

| Day | Discharge Pump 12 | | Cell 2 Influent Pump | | Cell 2 Daily | Pump 12 Daily | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |
|-----|-------------------|-------|----------------------|-------|--------------|----------------|-----------------|-----------------|-------------|----------------|---------------------|
| | (hr) | (min) | (hr) | (min) | Hours | Hours | Total Gals. | Total Gals. | Total Gals. | Total Gals. | Total Gals. |
| 30 | 36,371 | 26 | 2926 | 6 | 0.00 | 14.42 | 6076153 | 3,953,569 | 98962 | 89,420,250 | 78,078,053 |
| 1 | 36,384 | 50 | 2926 | 6 | 0.00 | 13.40 | 6076879 | 3,953,569 | 98962 | 89,445,940 | 78,105,567 |
| 2 | 36,398 | 12 | 2926 | 6 | 0.00 | 13.37 | 6077881 | 3,953,569 | 98962 | 89,469,374 | 78,132,673 |
| 3 | 36,414 | 4 | 2927 | 24 | 1.30 | 15.87 | 6078950 | 3,956,968 | 98962 | 89,495,478 | 78,165,116 |
| 4 | 36,426 | 49 | 2927 | 24 | 0.00 | 12.75 | 6078950 | 3,956,968 | 98962 | 89,512,035 | 78,189,894 |
| 5 | 36,441 | 40 | 2927 | 24 | 0.00 | 14.85 | 6078950 | 3,956,968 | 98962 | 89,532,910 | 78,218,976 |
| 6 | 36,455 | 12 | 2927 | 24 | 0.00 | 13.53 | 6081012 | 3,956,968 | 98962 | 89,553,925 | 78,245,280 |
| 7 | 36,467 | 32 | 2927 | 24 | 0.00 | 12.33 | 6081012 | 3,956,968 | 98962 | 89,570,184 | 78,268,374 |
| 8 | 36,482 | 27 | 2927 | 24 | 0.00 | 14.92 | 6081846 | 3,956,968 | 98962 | 89,589,588 | 78,296,446 |
| 9 | 36,498 | 36 | 2927 | 24 | 0.00 | 16.15 | 6083682 | 3,956,968 | 98962 | 89,610,296 | 78,326,252 |
| 10 | 36,511 | 5 | 2927 | 24 | 0.00 | 12.48 | 6083682 | 3,956,968 | 98962 | 89,625,089 | 78,349,022 |
| 11 | 36,525 | 14 | 2927 | 24 | 0.00 | 14.15 | 6083682 | 3,956,968 | 98962 | 89,646,531 | 78,375,259 |
| 12 | 36,536 | 57 | 2927 | 24 | 0.00 | 11.72 | 6083682 | 3,956,968 | 98962 | 89,663,963 | 78,398,691 |
| 13 | 36,553 | 42 | 2927 | 24 | 0.00 | 16.75 | 6083682 | 3,956,968 | 98962 | 89,683,564 | 78,437,995 |
| 14 | 36,567 | 17 | 2927 | 24 | 0.00 | 13.58 | 6083682 | 3,956,968 | 98962 | 89,705,019 | 78,470,170 |
| 15 | 36,579 | 20 | 2927 | 24 | 0.00 | 12.05 | 6083682 | 3,956,968 | 98962 | 89,720,550 | 78,497,861 |
| 16 | 36,596 | 18 | 2927 | 24 | 0.00 | 16.97 | 6083682 | 3,956,968 | 98962 | 89,736,859 | 78,536,575 |
| 17 | 36,613 | 31 | 2927 | 24 | #N/A | 17.22 | 6083682 | 3,956,968 | 98962 | 89,753,641 | 78,574,991 |
| 18 | 36,632 | 26 | 2927 | 24 | #N/A | 18.92 | 6083682 | 3,956,968 | 98962 | 89,774,753 | 78,616,709 |
| 19 | 36,648 | 19 | 2927 | 24 | #N/A | 15.88 | 6083682 | 3,956,968 | 98962 | 89,794,673 | 78,652,271 |
| 20 | 36,664 | 7 | 2927 | 24 | #N/A | 15.80 | 6083682 | 3,956,968 | 98962 | 89,813,832 | 78,686,709 |
| 21 | 36,677 | 40 | 2927 | 24 | #N/A | 13.55 | 6083682 | 3,956,968 | 98962 | 89,831,842 | 78,715,376 |
| 22 | 36,693 | 39 | 2927 | 24 | #N/A | 15.98 | 6085171 | 3,956,968 | 98962 | 89,849,694 | 78,748,591 |
| 23 | 36,704 | 12 | 2927 | 24 | #N/A | 10.55 | 6085171 | 3,956,968 | 98962 | 89,866,267 | 78,774,262 |
| 24 | 36,716 | 55 | 2927 | 24 | #N/A | 12.72 | 6085171 | 3,956,968 | 98962 | 89,884,817 | 78,809,141 |
| 25 | 36,729 | 56 | 2927 | 24 | 0.00 | 13.02 | 6085171 | 3,956,968 | 98962 | 89,904,835 | 78,844,971 |
| 26 | 36,741 | 59 | 2927 | 24 | 0.00 | 12.05 | 6085171 | 3,956,968 | 98962 | 89,923,885 | 78,877,276 |
| 27 | 36,751 | 33 | 2927 | 24 | 0.00 | 9.57 | 6085171 | 3,956,968 | 98962 | 89,939,477 | 78,902,152 |
| 28 | 36,761 | 31 | 2927 | 24 | 0.00 | 9.97 | 6085171 | 3,956,968 | 98962 | 89,953,408 | 78,927,696 |
| 29 | 36,774 | 51 | 2927 | 24 | 0.00 | 13.33 | 6085171 | 3,956,968 | 98962 | 89,972,662 | 78,961,829 |
| 30 | 36,787 | 13 | 2927 | 24 | 0.00 | 12.37 | 6085171 | 3,956,968 | 98962 | 89,990,602 | 78,993,370 |
| 31 | 36,800 | 57 | 2927 | 24 | 0.00 | 13.73 | 6089823 | 3,956,968 | 98962 | 90,008,958 | 79,028,081 |
| | | | | | Total | Gallons | 13,670 | 3,399 | 0 | 588,708 | 950,028 |
| | | | | | | | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |

Hidden Valley Landfill

Month of Jun-11

| Day | Leachate Level | Cell 2 Leak Level | Cell 2 Daily Avg. GPM | Cell 2 Leak GPD | Cell 1 Influent GPD | Cell 2 Influent GPD | 304th Influent GPD | Treatment Discharge Avg GPM | Treatment Discharge GPD |
|-----|----------------|-------------------|-----------------------|-----------------|---------------------|---------------------|--------------------|-----------------------------|-------------------------|
| 31 | 18.07 | 12.29 | 0 | 0 | 4,652 | 0 | 18,357 | 42.12 | 34,711 |
| 1 | 18.29 | 12.86 | 0 | 0 | 4,945 | 0 | 17,752 | 42.32 | 34,406 |
| 2 | 18.42 | 13.29 | 0 | 0 | 0 | 0 | 10,760 | 41.20 | 28,758 |
| 3 | 18.55 | 13.64 | 0 | 0 | 4,920 | 0 | 13,983 | 41.26 | 28,884 |
| 4 | 18.85 | 14.33 | 0 | 0 | 3,443 | 0 | 10,424 | 41.94 | 21,639 |
| 5 | 19.03 | 14.90 | 0 | 0 | 1,709 | 0 | 5,282 | 40.53 | 21,276 |
| 6 | 19.11 | 15.59 | 0 | 0 | 0 | 0 | 6,092 | 39.54 | 25,302 |
| 7 | 10.86 | 16.12 | 44 | 0 | 6,885 | 6,819 | 8,489 | 38.51 | 35,542 |
| 8 | 11.25 | 16.77 | 0 | 0 | 0 | 0 | 6,555 | 37.43 | 27,290 |
| 9 | 11.55 | 17.07 | 0 | 0 | 0 | 0 | 7,167 | 37.04 | 28,634 |
| 10 | 11.86 | 17.90 | 0 | 0 | 0 | 0 | 6,838 | 36.36 | 28,978 |
| 11 | 12.16 | 18.55 | 0 | 0 | 0 | 0 | 4,590 | 36.32 | 19,542 |
| 12 | 12.34 | 19.29 | 0 | 0 | 0 | 0 | 5,737 | 36.00 | 24,374 |
| 13 | 12.47 | 19.94 | 0 | 0 | 0 | 0 | 12,763 | 37.09 | 25,999 |
| 14 | 12.86 | 20.15 | 0 | 0 | 0 | 0 | 25,593 | 38.24 | 34,800 |
| 15 | 13.03 | 20.72 | 0 | 0 | 0 | 0 | 29,019 | 37.12 | 36,972 |
| 16 | 13.34 | 21.50 | 0 | 0 | 0 | 0 | 28,702 | 36.46 | 30,258 |
| 17 | 13.60 | 0.04 | 0 | 1471 | 1,912 | 0 | 28,322 | 36.49 | 28,717 |
| 18 | 13.68 | 0.13 | 0 | 0 | 0 | 0 | 18,361 | 35.30 | 20,862 |
| 19 | 14.12 | 0.13 | 0 | 0 | 0 | 0 | 16,855 | 34.56 | 22,256 |
| 20 | 14.20 | 0.17 | 0 | 0 | 0 | 0 | 16,154 | 34.16 | 20,394 |
| 21 | 14.42 | 0.65 | 0 | 0 | 0 | 0 | 26,488 | 33.71 | 33,646 |
| 22 | 14.55 | 0.65 | 0 | 0 | 0 | 0 | 29,738 | 33.46 | 34,902 |
| 23 | 15.03 | 1.65 | 0 | 0 | 924 | 0 | 26,946 | 31.52 | 31,200 |
| 24 | 15.20 | 1.26 | 0 | 0 | 643 | 0 | 37,533 | 35.02 | 34,708 |
| 25 | 15.42 | 1.65 | 0 | 0 | 0 | 0 | 21,631 | 36.50 | 23,032 |
| 26 | 15.77 | 1.82 | 0 | 0 | 0 | 0 | 25,141 | 36.13 | 22,944 |
| 27 | 15.85 | 2.30 | 0 | 0 | 0 | 0 | 22,638 | 34.09 | 32,349 |
| 28 | 15.85 | 2.61 | 0 | 0 | 0 | 0 | 25,664 | 33.51 | 37,897 |
| 29 | 16.07 | 3.39 | 0 | 0 | 0 | 0 | 19,610 | 32.50 | 34,290 |
| 30 | 16.46 | 3.48 | 0 | 0 | 0 | 0 | 33,072 | 34.75 | 38,955 |

| | | | | | |
|-----------------------|--------------|-----------------|-----------------|----------------|---------------------|
| Total Gallons: | 1,471 | 25,381 | 6,819 | 547,898 | 868,807 |
| | Cell 2 Leak | Cell 1 Leachate | Cell 2 Leachate | 304th Influent | Treatment Discharge |

Hidden Valley Landfill
Jun-11

Hour Meters

Totalizers

| Day | Discharge Pump 12 | | Cell 2 Influent Pump | | Cell 2 Daily | Pump 12 Daily | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |
|-----|-------------------|-------|----------------------|-------|--------------|----------------|-----------------|-----------------|--------------|----------------|---------------------|
| | (hr) | (min) | (hr) | (min) | Hours | Hours | Total Gals. | Total Gals. | Total Gals. | Total Gals. | Total Gals. |
| 31 | 36,800 | 57 | 2927 | 24 | 0.00 | 13.73 | 6089823 | 3,956,968 | 98962 | 90,008,958 | 79,028,081 |
| 1 | 36,814 | 30 | 2927 | 24 | 0.00 | 13.55 | 6094767 | 3,956,968 | 98962 | 90,026,710 | 79,062,487 |
| 2 | 36,826 | 8 | 2927 | 24 | 0.00 | 11.63 | 6094767 | 3,956,968 | 98962 | 90,037,470 | 79,091,245 |
| 3 | 36,837 | 48 | 2927 | 24 | 0.00 | 11.67 | 6099687 | 3,956,968 | 98962 | 90,051,454 | 79,120,129 |
| 4 | 36,846 | 24 | 2927 | 24 | 0.00 | 8.60 | 6103130 | 3,956,968 | 98962 | 90,061,878 | 79,141,768 |
| 5 | 36,855 | 9 | 2927 | 24 | 0.00 | 8.75 | 6104840 | 3,956,968 | 98962 | 90,067,159 | 79,163,044 |
| 6 | 36,865 | 49 | 2927 | 24 | 0.00 | 10.67 | 6104840 | 3,956,968 | 98962 | 90,073,252 | 79,188,347 |
| 7 | 36,881 | 12 | 2929 | 59 | 2.58 | 15.38 | 6111724 | 3,963,787 | 98962 | 90,081,741 | 79,223,889 |
| 8 | 36,893 | 21 | 2929 | 59 | 0.00 | 12.15 | 6111724 | 3,963,787 | 98962 | 90,088,295 | 79,251,179 |
| 9 | 36,906 | 14 | 2929 | 59 | 0.00 | 12.88 | 6111725 | 3,963,787 | 98962 | 90,095,463 | 79,279,813 |
| 10 | 36,919 | 31 | 2929 | 59 | 0.00 | 13.28 | 6111725 | 3,963,787 | 98962 | 90,102,301 | 79,308,791 |
| 11 | 36,928 | 29 | 2929 | 59 | 0.00 | 8.97 | 6111725 | 3,963,787 | 98962 | 90,106,891 | 79,328,333 |
| 12 | 36,939 | 46 | 2929 | 59 | 0.00 | 11.28 | 6111725 | 3,963,787 | 98962 | 90,112,628 | 79,352,706 |
| 13 | 36,951 | 27 | 2929 | 59 | 0.00 | 11.68 | 6111725 | 3,963,787 | 98962 | 90,125,391 | 79,378,705 |
| 14 | 36,966 | 37 | 2929 | 59 | 0.00 | 15.17 | 6111725 | 3,963,787 | 98962 | 90,150,984 | 79,413,505 |
| 15 | 36,983 | 13 | 2929 | 59 | 0.00 | 16.60 | 6111725 | 3,963,787 | 98962 | 90,180,003 | 79,450,477 |
| 16 | 36,997 | 3 | 2929 | 59 | 0.00 | 13.83 | 6111725 | 3,963,787 | 98962 | 90,208,705 | 79,480,735 |
| 17 | 37,010 | 10 | 2930 | 29 | 0.50 | 13.12 | 6113637 | 3,963,787 | 100433 | 90,237,027 | 79,509,452 |
| 18 | 37,020 | 1 | 2930 | 29 | 0.00 | 9.85 | 6113637 | 3,963,787 | 100433 | 90,255,388 | 79,530,314 |
| 19 | 37,030 | 45 | 2930 | 29 | 0.00 | 10.73 | 6113637 | 3,963,787 | 100433 | 90,272,243 | 79,552,570 |
| 20 | 37,040 | 42 | 2930 | 29 | 0.00 | 9.95 | 6113637 | 3,963,787 | 100433 | 90,288,397 | 79,572,964 |
| 21 | 37,057 | 20 | 2930 | 29 | 0.00 | 16.63 | 6113637 | 3,963,787 | 100433 | 90,314,885 | 79,606,610 |
| 22 | 37,074 | 43 | 2930 | 29 | 0.00 | 17.38 | 6113637 | 3,963,787 | 100433 | 90,344,623 | 79,641,512 |
| 23 | 37,091 | 13 | 2930 | 29 | 0.00 | 16.50 | 6114561 | 3,963,787 | 100433 | 90,371,569 | 79,672,712 |
| 24 | 37,107 | 44 | 2930 | 29 | 0.00 | 16.52 | 6115204 | 3,963,787 | 100433 | 90,409,102 | 79,707,420 |
| 25 | 37,118 | 15 | 2930 | 29 | 0.00 | 10.52 | 6115204 | 3,963,787 | 100433 | 90,430,732 | 79,730,452 |
| 26 | 37,128 | 50 | 2930 | 29 | 0.00 | 10.58 | 6115204 | 3,963,787 | 100433 | 90,455,873 | 79,753,396 |
| 27 | 37,144 | 39 | 2930 | 29 | 0.00 | 15.82 | 6115204 | 3,963,787 | 100433 | 90,478,511 | 79,785,745 |
| 28 | 37,163 | 30 | 2930 | 29 | 0.00 | 18.85 | 6115204 | 3,963,787 | 100433 | 90,504,175 | 79,823,642 |
| 29 | 37,181 | 5 | 2930 | 29 | 0.00 | 17.58 | 6115204 | 3,963,787 | 100433 | 90,523,784 | 79,857,932 |
| 30 | 37,199 | 46 | 2930 | 29 | 0.00 | 18.68 | 6115204 | 3,963,787 | 100433 | 90,556,857 | 79,896,888 |
| | | | | | Total | Gallons | 25,381 | 6,819 | 1,471 | 547,898 | 868,807 |
| | | | | | | | Cell 1 Leachate | Cell 2 Leachate | Cell 2 Leak | 304th Influent | Treatment Discharge |

SCS ENGINEERS

April 22, 2011
File No. 04211003.03

Subject: Hidden Valley Landfill Second Quarter Ground Water Sampling

Hidden Valley Landfill
Second Quarter Groundwater Monitoring
April 2011
4/19/2011 to 4/21/2011

Notes/Sampling Decoding:

- Dedicated pumps were used for purging and sampling wells MW-10S, -10D, -13D, -14S, and -14D.
- The SamplePro pump was used to for purging and sampling wells MW-11S, -11D2, -13S, -17S, -28S, FMW-1, and FMW-2.
- The water supply wells were sampled as direct grab samples.
- A field duplicate was collected at MW-13S.
- A complete round of waters levels was completed on 4/21/2011.
- All meters were calibrated prior to sampling.
- Field Blank samples were filled with D.I. water from Intergra Chemical (Catalogue # W210.10.44).

| Sample Number | Well Number |
|----------------------|--------------------|
| HVL-041911-01 | FMW-1 |
| HVL-041911-02 | MW-11S |
| HVL-041911-03 | MW-11D(2) |
| HVL-041911-04 | Field Blank |
| HVL-041911-05 | MW-13S |
| HVL-041911-06 | DUP(MW-13S) |
| HVL-041911-07 | MW-13D |
| HVL-042011-08 | FMW-2 |

| | |
|---------------|----------------|
| HVL-042011-09 | MW-17S |
| HVL-042011-10 | MW-10S |
| HVL-042011-11 | MW-10D |
| HVL-042111-12 | MW-14D |
| HVL-042111-13 | MW-14S |
| HVL-042111-14 | MW-28S |
| HVL-042111-15 | WS-Paul Bunyon |
| HVL-042111-16 | WS-Corliss |

Q 211

| location | easting | northing | TOC | DTW |
|-----------|----------|----------|--------|------------|
| BC-4(R) | 52360.27 | 27000.61 | | DRY |
| BC-4(S) | 52329.06 | 27011.44 | 526.88 | 118.69 |
| FMMW-1 | 51506 | 26506 | 542.59 | 135.80 |
| FMMW-2 | 51880 | 26848 | 536.4 | 129.16 |
| MW-10(D) | 54877.49 | 25243.81 | 460.69 | 22.10 |
| MW-10(S) | 54877.49 | 25243.81 | 460.17 | obstructed |
| MW-11(S) | 53023 | 26486 | 516.44 | 76.50 |
| MW-11D(2) | 53023 | 26486 | 515.53 | 84.80 |
| MW-12(D) | 52395.06 | 25947.78 | 489.97 | 59.00 |
| MW-12(S) | 52395.06 | 25947.78 | 489.94 | 59.20 |
| MW-13(D) | 52375.06 | 25332.17 | 448.94 | 18.02 |
| MW-13(S) | 52375.06 | 25332.18 | 448.81 | 17.70 |
| MW-14(R) | 54000 | 26134 | 476.84 | 114.16 |
| MW-14(D) | 54000 | 26134 | 477.98 | 42.95 |
| MW-14(S) | 54001.14 | 26142.4 | 477.95 | 40.46 |
| MW-15(D) | 53614 | 26242.09 | 498.52 | 71.89 |
| MW-15(S) | 53614 | 26232.1 | 498.76 | 67.20 |
| MW-17(S) | 52568 | 26130 | 552.44 | 123.50 |
| MW-18(D) | 52149 | 26459 | 539.00 | 124.33 |
| MW-18(S) | 52139.66 | 26485.1 | 538.40 | 126.03 |
| MW-19(D) | 52740 | 24658 | 485.82 | 51.48 |

TOTAL DEPTH ~146

| | | | | |
|--------------------------------|---------|----------|--------|--------|
| MW-19(S) | 52741 | 24661 | 485.71 | 50.08 |
| MW-20(R) | 53950.6 | 24618.87 | 469.43 | 105.17 |
| MW-23(S) | 51799 | 25038 | 449.92 | 16.56 |
| MW 25(D) MW 23 D | 52804 | 27254 | 526.66 | 18.43 |
| MW 25(S) | 52802 | 27231 | 526.54 | |
| MW-27(D) | 54430 | 26910 | 531.92 | 99.10 |
| MW-27(S) | 54410 | 26910 | 531.81 | 97.60 |
| MW-28(S) | 51594 | 25558 | 466.87 | 37.43 |

MW 25 S 116.27
 MW 25 D 115.60

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|-------------------------------------|---------------------------|
| Client: <u>LRI</u> | Date: 4/ <u>19</u> /2011 | Purging Method: <u>SP</u> |
| Project No.: 04211003.03 | Well I.D.: <u>FMW-1</u> | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: <u>HVL-04 19 11-01</u> | |
| Site Location: Puyallup, WA | Weather: <u>clear</u> | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

135.81

| | | | | | |
|------------------------|------------------------|-------------------------|------|---------------------|------|
| Purge Time: <u>825</u> | DTW: 165.80 | Total Depth: <u>154</u> | TOS: | Intake: <u>~150</u> | BOS: |
|------------------------|------------------------|-------------------------|------|---------------------|------|

Parameters:

| Time | 826 | 840 | 843 | 846 | 849 | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| Temperature (°C) | 10.79 | 10.53 | 11.23 | 11.84 | 12.34 | | | | | | | | |
| Conductance (µS) | 282 | 285 | 283 | 282 | 282 | | | | | | | | |
| Dissolved O ₂ (mg/L) | 7.32 | 5.99 | 6.37 | 6.12 | 5.72 | | | | | | | | |
| pH (units) | 5.59 | 6.21 | 6.23 | 6.26 | 6.25 | | | | | | | | |
| ORP (mV) | 325 | 311 | 309 | 311 | 310 | | | | | | | | |
| Turbidity | | 1.30 | 1.32 | 0.34 | 0.34 | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 8 | 22 | | | | | | | | | | | |
| Controller Discharge | 6 | 8 | | | | | | | | | | | |
| Controller psi | 100 | 100 | | | | | | | | | | | |
| Flow (Q) | 200 | 150 | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | * | HNO ₃ |

Notes:

* lab filter diss metals

Sampled By WC

Signature _____

No. of Bottles 7

- Had to pull pump @ 830 long pause in water delivery, checked that lines were in and bladder not ruptured
- Running low on gas called it at 849

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|--|---------------------------|
| Client: <u>LRI</u> | Date: <u>4/ 19 /2011</u> | Purging Method: <u>SP</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: HW-115 <u>MW-115</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-0419 11-02</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: <u>CLEAR</u> | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|-------------------------|------|---------------------|------|
| Purge Time: <u>1001</u> | DTW: <u>86.35</u> | Total Depth: <u>105</u> | TOS: | Intake: <u>~100</u> | BOS: |
|-------------------------|-------------------|-------------------------|------|---------------------|------|

Parameters:

| Time | 1001 | 1005 | 1008 | 1011 | 1014 | | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| Temperature (°C) | 12.72 | 14.62 | 15.00 | 14.97 | 14.90 | | | | | | | | | |
| Conductance (µS) | 243 | 252 | 253 | 253 | 252 | | | | | | | | | |
| Dissolved O ₂ (mg/L) | 6.17 | 0.74 | 0.52 | 0.42 | 0.38 | | | | | | | | | |
| pH (units) | 6.45 | 5.91 | 5.85 | 5.82 | 5.80 | | | | | | | | | |
| ORP (mV) | 280 | 301 | 308 | 317 | 318 | | | | | | | | | |
| Turbidity | 2.00 | 1.70 | 1.14 | 0.67 | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | | |
| Controller psi | 70 | | | | | | | | | | | | | |
| Flow (Q) | 400 | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | * | HNO ₃ |

Notes: * LAB FILTER DISS METALS

Sampled By WC
Signature _____
No. of Bottles 7

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|-------------------------------------|---------------------------|
| Client: <u>LRI</u> | Date: <u>4/19/2011</u> | Purging Method: <u>SP</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: <u>MW-11 D(2)</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-04 19 11-03</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|-------------------------|------|---------------------|------|
| Purge Time: <u>1142</u> | DTW: <u>84.68</u> | Total Depth: <u>147</u> | TOS: | Intake: <u>~140</u> | BOS: |
|-------------------------|-------------------|-------------------------|------|---------------------|------|

Parameters:

| Time | 1145 | 1053 | 1056 | 1058 | 1102 | 1105 | 1108 | 1111 | 1115 | | | | |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| Temperature (°C) | 14.66 | 14.70 | 14.85 | 14.71 | 14.61 | 14.32 | 14.32 | 14.37 | 14.31 | | | | |
| Conductance (µS) | 216 | 214 | 216 | 214 | 215 | 216 | 215 | 213 | 214 | | | | |
| Dissolved O ₂ (mg/L) | 5.96 | 6.00 | 5.87 | 5.78 | 5.71 | 5.69 | 5.24 | 5.24 | 5.48 | | | | |
| pH (units) | 6.43 | 6.57 | 6.56 | 6.56 | 6.55 | 6.54 | 6.56 | 6.55 | 6.56 | | | | |
| ORP (mV) | 299 | 297 | 295 | 296 | 294 | 293 | 293 | 293 | 295 | | | | |
| Turbidity | 4.74 | 2.00 | 1.34 | 1.25 | 1.09 | 45.3 | 29.7 | 45.4 | 16.3 | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | |
| Controller psi | 90 | | | | | | | | | | | | |
| Flow (Q) | 300 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 506 ml | * 1 | * | HNO ₃ |

Notes: Change of CO₂ tank at 1150

Sampled By WC

*LAB FILTER
DISS METALS

Signature _____

No. of Bottles 7

Nearing empty for CO₂ final at 1115

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|-------------------------------------|------------------------------|
| Client: <u>LRI-HVL</u> | Date: <u>4/19</u> /2011 | Purging Method: <u>SP/FB</u> |
| Project No.: 04211003.03 | Well I.D.: <u>FB</u> | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: <u>HVL-04 19 11-04</u> | |
| Site Location: Puyallup, WA | Weather: <u>CLEAR</u> | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

| | | | | | |
|-------------------|---------------|-----------------------|---------------|------------------|---------------|
| Purge Time: _____ | DTW: <u>—</u> | Total Depth: <u>—</u> | TOS: <u>—</u> | Intake: <u>—</u> | BOS: <u>—</u> |
|-------------------|---------------|-----------------------|---------------|------------------|---------------|

Parameters:

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Time | <u>1215</u> | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | <u>10.15</u> | | | | | | | | | | | | | | | | | | |
| Conductance (µS) | <u>5</u> | | | | | | | | | | | | | | | | | | |
| Dissolved O ₂ (mg/L) | <u>9.83</u> | | | | | | | | | | | | | | | | | | |
| pH (units) | <u>7.94</u> | | | | | | | | | | | | | | | | | | |
| ORP (mV) | <u>212</u> | | | | | | | | | | | | | | | | | | |
| Turbidity | | | | | | | | | | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | | | | | | |
| Controller Refill | | | | | | | | | | | | | | | | | | | |
| Controller Discharge | | | | | | | | | | | | | | | | | | | |
| Controller psi | | | | | | | | | | | | | | | | | | | |
| Flow (Q) | | | | | | | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|---------------|----------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | <u>500</u> ml | <u>1</u> | * | HNO ₃ |

Notes: * LAB FILTER DISS METALS

Sampled By SA

Signature [Signature]

No. of Bottles 7

BLANK FILLED w/ DI WATER FROM INTEGRAL CHEMICAL

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|--|---------------------------|
| Client: LRI - HVL | Date: 4/ 19 /2011 | Purging Method: SP |
| Project No.: 04211003.03 | Well I.D.: MW 13S | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 19 11-05 | |
| Site Location: Puyallup, WA | Weather: clear | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|------------------------|------|--------------------|----------------|
| Purge Time: 1237 | DTW: 17.05 | Total Depth: 57 | TOS: | Intake: ~53 | BOS: 57 |
|-------------------------|-------------------|------------------------|------|--------------------|----------------|

Parameters:

| Time | 1239 | 1244 | 1247 | 1250 | 1253 | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| Temperature (°C) | 17.90 | 18.04 | 17.85 | 17.93 | 17.98 | | | | | | | | |
| Conductance (µS) | 368 | 395 | 397 | 400 | 401 | | | | | | | | |
| Dissolved O ₂ (mg/L) | 1.78 | 0.52 | 0.36 | 0.28 | 0.24 | | | | | | | | |
| pH (units) | 6.18 | 6.11 | 6.10 | 6.07 | 6.09 | | | | | | | | |
| ORP (mV) | 309 | 311 | 314 | 314 | 315 | | | | | | | | |
| Turbidity | 2.28 | 1.52 | 1.40 | 0.63 | 0.61 | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | |
| Controller psi | 60 | | | | | | | | | | | | |
| Flow (Q) | 500 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | * | HNO ₃ |

Notes: **Dup ~~taken~~ taken as sample 6**

Sampled By LUC

Signature _____

No. of Bottles 7

* LAB FILTER DISS METALS

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|-------------------------------------|---------------------------|
| Client: <u>LRI-HVL</u> | Date: <u>4/ 19 /2011</u> | Purging Method: <u>DP</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: <u>mw-13D</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-04 19 11-07</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: <u>CLEAR</u> | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|-------------------------------|------|---------|------|
| Purge Time: <u>1315</u> | DTW: <u>17.60</u> | Total Depth: <u>DEDICATED</u> | TOS: | Intake: | BOS: |
|-------------------------|-------------------|-------------------------------|------|---------|------|

Parameters:

| Time | 1316 | 1320 | 1323 | 1326 | 1329 | 1332 | 1335 | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| Temperature (°C) | 17.51 | 16.65 | 17.06 | 17.17 | 17.18 | 17.20 | 17.17 | | | | | | |
| Conductance (µS) | 292 | 342 | 341 | 342 | 342 | 341 | 342 | | | | | | |
| Dissolved O ₂ (mg/L) | 2.88 | 2.37 | 1.82 | 1.19 | 1.05 | 0.96 | 1.00 | | | | | | |
| pH (units) | 6.58 | 6.50 | 6.51 | 6.51 | 6.50 | 6.50 | 6.50 | | | | | | |
| ORP (mV) | 303 | 305 | 304 | 303 | 302 | 301 | 300 | | | | | | |
| Turbidity | 0.73 | 1.53 | 0.75 | 0.57 | 0.33 | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | |
| Controller psi | 40 | | | | | | | | | | | | |
| Flow (Q) | 400 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | * | HNO ₃ |

Notes: * LAB FILTER DISS METALS

Sampled By WC

Signature _____

No. of Bottles 7

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|--------------------------------------|---------------------------|
| Client: <u>LRI - HVL</u> | Date: <u>4/ 20 /2011</u> | Purging Method: <u>SP</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: <u>FMW-02</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-04 20 11- 08</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------------------|--------------------|-------------------------|------|---------------------|------|
| Purge Time: <u>1021</u> | DTW: <u>129.10</u> | Total Depth: <u>149</u> | TOS: | Intake: <u>~145</u> | BOS: |
|-------------------------|--------------------|-------------------------|------|---------------------|------|

Parameters:

| Time | 1024 | 1027 | 1030 | 1033 | | | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| Temperature (°C) | 15.45 | 16.62 | 16.66 | 16.70 | | | | | | | | | | |
| Conductance (µS) | 475 | 477 | 478 | 478 | | | | | | | | | | |
| Dissolved O ₂ (mg/L) | 1.50 | 0.58 | 0.48 | 0.42 | | | | | | | | | | |
| pH (units) | 6.21 | 6.15 | 6.11 | 6.11 | | | | | | | | | | |
| ORP (mV) | 261 | 261 | 262 | 263 | | | | | | | | | | |
| Turbidity | 0.60 | 0.48 | 0.66 | | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | | |
| Controller psi | 90 | | | | | | | | | | | | | |
| Flow (Q) | 350 | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|---------------|----------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | <u>500</u> ml | <u>1</u> | <u>Y</u> | HNO ₃ |

Notes:

Sampled By WC
 Signature _____
 No. of Bottles 7

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|-------------------------------------|---------------------------|
| Client: LRI-HVL | Date: 4/ 20 /2011 | Purging Method: SP |
| Project No.: 04211003.03 | Well I.D.: MW-17S | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 20 11-09 | |
| Site Location: Puyallup, WA | Weather: CLEAR | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|------------------------|--------------------|-------------------------|------|---------|------|
| Purge Time: 111 | DTW: 123.41 | Total Depth: 155 | TOS: | Intake: | BOS: |
|------------------------|--------------------|-------------------------|------|---------|------|

Parameters:

| Time | 1113 | 1116 | 1120 | 1123 | 1126 | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| Temperature (°C) | 18.49 | 19.99 | 20.14 | 20.05 | 20.30 | | | | | | | | |
| Conductance (µS) | 477 | 475 | 471 | 472 | 473 | | | | | | | | |
| Dissolved O ₂ (mg/L) | 1.54 | 0.58 | 0.42 | 0.36 | 0.31 | | | | | | | | |
| pH (units) | 6.06 | 6.04 | 6.05 | 6.05 | 6.02 | | | | | | | | |
| ORP (mV) | 290 | 290 | 286 | 285 | 283 | | | | | | | | |
| Turbidity | 0.24 | 0.15 | 0.23 | 0.16 | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 7.5 | | | | | | | | | | | | |
| Controller Discharge | 7.5 | | | | | | | | | | | | |
| Controller psi | 90 | | | | | | | | | | | | |
| Flow (Q) | 400 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | Y | HNO ₃ |

Notes:

Sampled By WC

Signature _____

No. of Bottles 7

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|------------------------------------|---|
| Client: LRI - HVL | Date: 4/ 20 /2011 | Purging Method: SP DP |
| Project No.: 04211003.03 | Well I.D.: MW-10S | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 2011-10 | |
| Site Location: Puyallup, WA | Weather: | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information: **Obstructed @ 8ft**

| | | | | | |
|-------------------------|------|-------------------------------|------|---------|------|
| Purge Time: 1155 | DTW: | Total Depth: DEDICATED | TOS: | Intake: | BOS: |
|-------------------------|------|-------------------------------|------|---------|------|

Parameters:

| Time | 1157 | 1200 | 1203 | 1206 | 1209 | | | | | | | | |
|---------------------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Temperature (°C) | 9.80 | 9.45 | 9.40 | 9.44 | 9.46 | | | | | | | | |
| Conductance (µS) | 133 | 134 | 133 | 134 | 134 | | | | | | | | |
| Dissolved O ₂ (mg/L) | 8.34 | 7.81 | 7.73 | 7.72 | 7.68 | | | | | | | | |
| pH (units) | 6.82 | 6.70 | 6.49 | 6.44 | 6.43 | | | | | | | | |
| ORP (mV) | 288 | 292 | 298 | 301 | 303 | | | | | | | | |
| Turbidity | 1.17 | 0.89 | 0.81 | 0.79 | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 9 | | | | | | | | | | | | |
| Controller Discharge | 6 | | | | | | | | | | | | |
| Controller psi | 30 | | | | | | | | | | | | |
| Flow (Q) | 400 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | Y | HNO ₃ |

Notes:

Sampled By we

Signature _____

No. of Bottles 7

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|---|---|
| Client: LRI - HVL | Date: 4/ 20 /2011 | Purging Method: DP DP |
| Project No.: 04211003.03 | Well I.D.: MW - 10D | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 20 11- 10 | |
| Site Location: Puyallup, WA | Weather: | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|-------------------------------|------|---------|------|
| Purge Time: 1222 | DTW: 22.78 | Total Depth: DEDICATED | TOS: | Intake: | BOS: |
|-------------------------|-------------------|-------------------------------|------|---------|------|

Parameters:

| Time | 1224 | 1229 | 1232 | 1235 | | | | | | | | | |
|---------------------------------|------------------|------|------|------|--|--|--|--|--|--|--|--|--|
| Temperature (°C) | 12.75 | 9.85 | 9.88 | 9.89 | | | | | | | | | |
| Conductance (µS) | 135 | 155 | 152 | 151 | | | | | | | | | |
| Dissolved O ₂ (mg/L) | | 7.49 | 7.58 | 7.52 | | | | | | | | | |
| pH (units) | | 6.41 | 6.44 | 6.46 | | | | | | | | | |
| ORP (mV) | | 301 | 301 | 302 | | | | | | | | | |
| Turbidity | | 0.52 | 1.53 | 1.22 | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 9 | | | | | | | | | | | | |
| Controller Discharge | 6 | | | | | | | | | | | | |
| Controller psi | 35 | | | | | | | | | | | | |
| Flow (Q) | 360 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | ml | | | HNO ₃ |

Notes: **Bubbles in water stream, leaky hook up**

Sampled By _____

Signature _____

No. of Bottles _____

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|-------------------------------------|---------------------------|
| Client: LRI - HVL | Date: 4/ 21 /2011 | Purging Method: DP |
| Project No.: 04211003.03 | Well I.D.: MW-14D | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 21 11-12 | |
| Site Location: Puyallup, WA | Weather: | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|-------------------------------|------|---------|------|
| Purge Time: 1043 | DTW: 42.95 | Total Depth: DEDICATED | TOS: | Intake: | BOS: |
|-------------------------|-------------------|-------------------------------|------|---------|------|

Parameters:

| Time | 1053 | 1056 | 1059 | 1102 | | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| Temperature (°C) | 12.25 | 12.18 | 12.16 | 12.20 | | | | | | | | | |
| Conductance (µS) | 153 | 154 | 153 | 153 | | | | | | | | | |
| Dissolved O ₂ (mg/L) | 0.36 | 0.35 | 0.31 | 0.29 | | | | | | | | | |
| pH (units) | 6.10 | 6.13 | 6.14 | 6.17 | | | | | | | | | |
| ORP (mV) | 296 | 291 | 286 | 284 | | | | | | | | | |
| Turbidity | 1.19 | 0.55 | 0.63 | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 7 | | | | | | | | | | | | |
| Controller Discharge | 8 | | | | | | | | | | | | |
| Controller psi | 45 | | | | | | | | | | | | |
| Flow (Q) | 480 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | Y | HNO ₃ |

Notes:

Sampled By CWC

Signature _____

No. of Bottles 7

10
11

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|-------------------------------|--------------------|
| Client: | Date: 4/ 21 /2011 | Purging Method: DP |
| Project No.: 04211003.03 | Well I.D.: MW 14 S | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 21 11- 13 | |
| Site Location: Puyallup, WA | Weather: Rain and hail | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|------------------|------------|------------------------|------|---------|------|
| Purge Time: 1118 | DTW: 40.46 | Total Depth: DEDICATED | TOS: | Intake: | BOS: |
|------------------|------------|------------------------|------|---------|------|

Parameters:

| Time | 1122 | 1125 | 1129 | 1132 | | | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| Temperature (°C) | 12.12 | 12.03 | 12.10 | 12.01 | | | | | | | | | | |
| Conductance (µS) | 122 | 121 | 122 | 122 | | | | | | | | | | |
| Dissolved O ₂ (mg/L) | 2.22 | 1.94 | 1.91 | 1.96 | | | | | | | | | | |
| pH (units) | 5.97 | 5.94 | 5.94 | 5.92 | | | | | | | | | | |
| ORP (mV) | 292 | 296 | 300 | 303 | | | | | | | | | | |
| Turbidity | 1.86 | 0.86 | 0.71 | | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | |
| Controller Refill | 7 | | | | | | | | | | | | | |
| Controller Discharge | 8 | | | | | | | | | | | | | |
| Controller psi | 30 | | | | | | | | | | | | | |
| Flow (Q) | 400 | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|--------------------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H ₂ SO ₄ |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | Y | HNO ₃ |

Notes: Bubbles in water stream, poor tube hook up
 Sampled By: WC
 Signature: _____
 No. of Bottles: _____
 Needs replacement
 When using filter leak resulted in not enough pressure to force water through filter

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|--|--------------------------------------|---------------------------|
| Client: <u>LRI - SCS HVL</u> | Date: <u>4/ 21</u> /2011 | Purging Method: <u>SP</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: <u>MW - 28 S</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-04 21 11- 14</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: | |
| Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 5°C, Turb. ± 10% or ≤ 5 | | |

Well Information:

| | | | | | |
|-------------------------|-------------------|------------------------|------|---------|------|
| Purge Time: <u>1450</u> | DTW: <u>37.43</u> | Total Depth: <u>45</u> | TOS: | Intake: | BOS: |
|-------------------------|-------------------|------------------------|------|---------|------|

Parameters:

| Time | 1455 | 1500 | 1503 | 1506 | 1509 | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| Temperature (°C) | 11.40 | 11.69 | 11.67 | 11.64 | 11.65 | | | | | | | | |
| Conductance (µS) | 160 | 161 | 161 | 161 | 161 | | | | | | | | |
| Dissolved O ₂ (mg/L) | 7.81 | 7.75 | 7.75 | 7.72 | 7.74 | | | | | | | | |
| pH (units) | 6.33 | 6.27 | 6.27 | 6.25 | 6.25 | | | | | | | | |
| ORP (mV) | 261 | 275 | 279 | 284 | 287 | | | | | | | | |
| Turbidity | 36.0 | 15.4 | 8.47 | 6.39 | 3.87 | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | |
| Controller Refill | 8 | | | | | | | | | | | | |
| Controller Discharge | 7 | | | | | | | | | | | | |
| Controller psi | 30 | | | | | | | | | | | | |
| Flow (Q) | 300 | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|-----------|--------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | ml | | N | HNO ₃ |
| Red Poly, Dissolved | 500 ml | 1 | Y | HNO ₃ |

Notes:

Sampled By WC

Signature _____

No. of Bottles 7

3/14/10

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|-------------------------------------|-----------------------------|
| Client: <u>LRI - SCS HVL</u> | Date: <u>4/ 21 /2011</u> | Purging Method: <u>Grab</u> |
| Project No.: <u>04211003.03</u> | Well I.D.: <u>WS-PB</u> | |
| Site Name: <u>Hidden Valley Landfill (HVL)</u> | Sample I.D.: <u>HVL-04 21 11-15</u> | |
| Site Location: <u>Puyallup, WA</u> | Weather: <u>CLEAR</u> | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------------------|---------------|--------------|------|---------|------|
| Purge Time: <u>1545</u> | DTW: <u>—</u> | Total Depth: | TOS: | Intake: | BOS: |
|-------------------------|---------------|--------------|------|---------|------|

Parameters:

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Time | <u>1545</u> | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | <u>10.41</u> | | | | | | | | | | | | | | | | | | |
| Conductance (µS) | <u>0.274</u> | | | | | | | | | | | | | | | | | | |
| Dissolved O ₂ (mg/L) | <u>6.14</u> | | | | | | | | | | | | | | | | | | |
| pH (units) | <u>6.57</u> | | | | | | | | | | | | | | | | | | |
| ORP (mV) | <u>323</u> | | | | | | | | | | | | | | | | | | |
| Turbidity | | | | | | | | | | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | | | | | | |
| Controller Refill | | | | | | | | | | | | | | | | | | | |
| Controller Discharge | | | | | | | | | | | | | | | | | | | |
| Controller psi | | | | | | | | | | | | | | | | | | | |
| Flow (Q) | | | | | | | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|---------------|----------|----------------|--------------------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H ₂ SO ₄ |
| Red Poly, Total | <u>500</u> ml | <u>1</u> | N | HNO ₃ |
| Red Poly, Dissolved | ml | | | HNO ₃ |

Notes:

Sampled By WL

Signature _____

No. of Bottles 7

- SAMPLE TAKEN FROM ATTACHED PLASTIC FLOW SPLITTER.

FIELD SAMPLING DATA SHEET

SCS ENGINEERS

2405 140th Avenue, NE Suite A101
Bellevue, WA 98005

Phone: 425 746-4600

Fax: 425 746-6747

| | | |
|---|---|-----------------------------|
| Client: <u>LRI - HVL</u> | Date: 4/ <u>21</u> /2011 | Purging Method: <u>GRAB</u> |
| Project No.: 04211003.03 | Well I.D.: <u>WS-Corliss</u> | |
| Site Name: Hidden Valley Landfill (HVL) | Sample I.D.: HVL-04 <u>21</u> 11- <u>16</u> | |
| Site Location: Puyallup, WA | Weather: <u>CLEAR</u> | |
| Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 5°C, Turb. \pm 10% or \leq 5 | | |

Well Information:

| | | | | | |
|-------------|------------------------|--------------|------|---------|------|
| Purge Time: | DTW: <u> </u> | Total Depth: | TOS: | Intake: | BOS: |
|-------------|------------------------|--------------|------|---------|------|

Parameters:

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Time | <u>1550</u> | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | <u>32.70</u> | | | | | | | | | | | | | | | | | | |
| Conductance (µS) | <u>215</u> | | | | | | | | | | | | | | | | | | |
| Dissolved O ₂ (mg/L) | <u>3.32</u> | | | | | | | | | | | | | | | | | | |
| pH (units) | <u>6.81</u> | | | | | | | | | | | | | | | | | | |
| ORP (mV) | <u>304</u> | | | | | | | | | | | | | | | | | | |
| Turbidity | | | | | | | | | | | | | | | | | | | |
| Depth to Water | | | | | | | | | | | | | | | | | | | |
| Controller Refill | | | | | | | | | | | | | | | | | | | |
| Controller Discharge | | | | | | | | | | | | | | | | | | | |
| Controller psi | | | | | | | | | | | | | | | | | | | |
| Flow (Q) | | | | | | | | | | | | | | | | | | | |
| Volume Purged (gal) | | | | | | | | | | | | | | | | | | | |

| Bottles: | Container | | Filtered (Y/N) | Preservative |
|---------------------|---------------|----------|----------------|------------------|
| | Volume | Number | | |
| VOA Glass | 40 ml | 3 | N | HCl |
| White Poly | 1000 ml | 1 | N | None |
| White Poly | 250 ml | 1 | N | None |
| Yellow Glass Amber | 500 ml | 1 | N | H2SO4 |
| Red Poly, Total | <u>500</u> ml | <u>1</u> | N | HNO ₃ |
| Red Poly, Dissolved | ml | | | HNO ₃ |

Notes:

Sampled By SA
Signature [Signature]
No. of Bottles 7

- GRAB SAMPLE TAKEN AFTER WATER HAD REACHED A CONSISTANT TEMPERATURE.

Landfill Gas Probe Monitoring

SCS Engineers

Hidden Valley Landfill
PCRCD dba LRI

04211003.02
April 25, 2011

| Location Reference Designation | Date | Time | Pressure (in. H ₂ O) | CH ₄ (% vol.) | CO ₂ (% vol.) | O ₂ (% vol.) | Comments | | |
|---|--------|-------|---------------------------------|--------------------------|--------------------------|-------------------------|---------------------------------------|---------------------------------------|-------|
| | | | | | | | Spike CH ₄ Note 1 (% vol.) | Spike CO ₂ Note 1 (% vol.) | Other |
| Gas Probes | | | | | | | | | |
| GP-1A | 25-Apr | 7:51 | 5.60 | 0.0 | 4.6 | 0.9 | | | |
| GP-1B | 25-Apr | 7:55 | 0.07 | 0.0 | 3.8 | 18.0 | | | |
| GP-1C | 25-Apr | 8:00 | 0.00 | 0.0 | 1.2 | 20.7 | | | |
| GP-2A | 25-Apr | 8:10 | 0.06 | 0.0 | 12.4 | 4.2 | | | |
| GP-2B | 25-Apr | 8:15 | 0.23 | 0.0 | 0.3 | 21.5 | | | |
| GP-3S | 25-Apr | 8:27 | 0.02 | 0.0 | 5.4 | 13.1 | | | |
| GP-3M | 25-Apr | 8:31 | 0.17 | 0.0 | 2.9 | 9.6 | | | |
| GP-3D | 25-Apr | 8:47 | 0.23 | 3.7 | 11.7 | 0.4 | 3.2 | | |
| GP-4A | 25-Apr | 8:55 | 0.06 | 0.0 | 0.5 | 21.5 | | | |
| GP-4B | 25-Apr | 8:58 | 0.14 | 0.0 | 0.3 | 21.6 | | | |
| GP-5A | 25-Apr | 9:02 | 0.05 | 0.0 | 0.4 | 21.4 | | | |
| GP-5B | 25-Apr | 9:05 | 0.05 | 0.0 | 0.3 | 20.9 | | | |
| GP-6 | 25-Apr | 9:09 | 0.04 | 0.0 | 0.3 | 21.4 | | | |
| GP-7S | 25-Apr | 9:16 | 0.00 | 0.0 | 0.4 | 21.3 | | | |
| GP-7D | 25-Apr | 9:19 | 0.00 | 0.0 | 0.4 | 21.2 | | | |
| GP-8A | 25-Apr | 9:27 | 0.13 | 0.0 | 1.3 | 20.6 | | | |
| GP-8B | 25-Apr | 9:29 | 0.09 | 0.0 | 0.9 | 18.8 | | | |
| GP-9 | 25-Apr | 9:34 | 0.21 | 0.0 | 1.6 | 18.1 | | | |
| GP-10 | 25-Apr | 9:40 | -10.08 | 0.0 | 0.4 | 21.2 | | | |
| GP-11 | 25-Apr | 9:46 | 0.10 | 0.2 | 2.2 | 15.6 | | | |
| GP-12 | 25-Apr | 9:55 | 0.00 | 0.0 | 5.2 | 2.9 | | | |
| GP-13A | 25-Apr | 10:23 | -0.59 | 18.6 | 11.3 | 0.0 | 20.7 | | |
| GP-13B | 25-Apr | 10:27 | -3.78 | 0.0 | 0.6 | 21.4 | | | |
| GP-14S | 25-Apr | 10:33 | -0.01 | 0.0 | 14.1 | 8.1 | 0.3 | | |
| GP-14D | 25-Apr | 10:36 | -0.03 | 0.0 | 18.5 | 0.0 | | | |
| GP-15A | 25-Apr | 11:13 | -0.07 | 7.5 | 12.4 | 0.6 | 8.3 | | |
| GP-15B | 25-Apr | 11:16 | -0.04 | 0.0 | 9.4 | 0.7 | | | |
| GP-16A | 25-Apr | 11:25 | -0.07 | 0.0 | 1.1 | 19.4 | 0.4 | | |
| GP-16B | 25-Apr | 11:28 | 0.00 | 0.0 | 1.0 | 19.7 | | | |
| GP-17 | 25-Apr | 11:35 | 0.34 | 0.0 | 0.2 | 21.4 | | | |
| GP-18 | 25-Apr | 11:40 | 0.23 | 0.1 | 2.6 | 19.6 | | | |
| GP-19 | 25-Apr | 11:51 | -0.09 | 0.0 | 0.2 | 21.4 | | | |
| LFG-1 | 25-Apr | 10:43 | -0.03 | 1.0 | 15.9 | 0.0 | 1.2 | | |
| LFG-2 | 25-Apr | 10:53 | 0.00 | 15.6 | 21.7 | 0.0 | 33.4 | | |
| LFG-3 | 25-Apr | 10:59 | -0.03 | 2.9 | 17.4 | 0.0 | 2.9 | | |
| General Data | | | | | | | | | |
| Monitored by: SEA | | | | | Weather Conditions | | | | |
| Instruments: GEM 2000 | | | | | Sky Cover: Partly Cloudy | | | | |
| Calibration Date: | | | | | Wind / Rain / Snow: | | | | |
| | | | | | Temperature (°F): 42 | | | | |
| Notes | | | | | | | | | |
| 1. Measurement for spike concentrations of CH ₄ and CO ₂ are recorded if observed during sampling | | | | | | | | | |
| GP = Gas Probe CH ₄ = Methane S = shallow A= shallow NM = Not measured - CO ₂ = Carbon Dioxide M = medium B = medium equipment malfunction O ₂ = Oxygen D = deep C = deep | | | | | | | | | |

Landfill Gas Probe Monitoring

SCS Engineers

Hidden Valley Landfill
PCRCD dba LRI

04211003.02
May 31, 2011

| Location Reference Designation | Date | Time | Pressure (in. H ₂ O) | CH ₄ (% vol.) | CO ₂ (% vol.) | O ₂ (% vol.) | Comments | | |
|---|--------|-------|---------------------------------|--------------------------|--------------------------|-------------------------|---------------------------------------|---------------------------------------|-------|
| | | | | | | | Spike CH ₄ Note 1 (% vol.) | Spike CO ₂ Note 1 (% vol.) | Other |
| Gas Probes | | | | | | | | | |
| GP-1A | 31-May | 11:09 | 0.01 | 0.0 | 4.4 | 1.9 | | | |
| GP-1B | 31-May | 11:14 | 0.01 | 0.0 | 4.0 | 17.1 | | | |
| GP-1C | 31-May | 11:18 | -0.01 | 0.0 | 1.2 | 20.4 | | | |
| GP-2A | 31-May | 16:31 | -0.03 | 0.0 | 2.6 | 17.6 | | | |
| GP-2B | 31-May | 16:34 | 0.01 | 0.0 | 0.4 | 21.4 | | | |
| GP-3S | 31-May | 12:14 | 0.00 | 0.0 | 11.2 | 4.4 | | | |
| GP-3M | 31-May | 12:17 | 0.01 | 0.0 | 2.9 | 10.8 | | | |
| GP-3D | 31-May | 12:39 | 0.00 | 9.0 | 14.2 | 1.1 | 9.2 | | |
| GP-4A | 31-May | 10:15 | 0.01 | 0.0 | 0.4 | 20.8 | | | |
| GP-4B | 31-May | 10:19 | 0.04 | 0.0 | 0.2 | 20.8 | | | |
| GP-5A | 31-May | 12:52 | 0.00 | 0.0 | 0.6 | 20.5 | | | |
| GP-5B | 31-May | 12:55 | 0.00 | 0.0 | 0.5 | 19.9 | | | |
| GP-6 | 31-May | 10:27 | 0.02 | 0.0 | 0.6 | 20.4 | | | |
| GP-7S | 31-May | 10:36 | 0.02 | 0.0 | 1.0 | 20.3 | | | |
| GP-7D | 31-May | 10:41 | 0.00 | 0.0 | 1.0 | 18.9 | | | |
| GP-8A | 31-May | 13:05 | 0.01 | 0.0 | 4.8 | 14.4 | | | |
| GP-8B | 31-May | 13:08 | 0.47 | 0.0 | 1.3 | 19.4 | | | |
| GP-9 | 31-May | 13:17 | 0.01 | 0.0 | 1.5 | 18.6 | | | |
| GP-10 | 31-May | 13:27 | 0.01 | 0.0 | 0.6 | 20.5 | | | |
| GP-11 | 31-May | 13:34 | 0.02 | 0.0 | 0.2 | 21.2 | | | |
| GP-12 | 31-May | 13:49 | 0.02 | 0.0 | 9.8 | 1.2 | | | |
| GP-13A | 31-May | 14:37 | 0.02 | 22.5 | 12.3 | 0.2 | 24.7 | | |
| GP-13B | 31-May | 14:42 | 0.15 | 0.0 | 0.3 | 21.1 | 0.6 | | |
| GP-14S | 31-May | 14:53 | 0.03 | 0.0 | 10.9 | 12.0 | | | |
| GP-14D | 31-May | 14:57 | 0.03 | 0.0 | 15.9 | 1.5 | | | |
| GP-15A | 31-May | 15:07 | 0.04 | 2.4 | 12.4 | 2.7 | 2.5 | | |
| GP-15B | 31-May | 15:11 | 0.04 | 0.0 | 8.3 | 6.4 | | | |
| GP-16A | 31-May | 15:51 | 0.01 | 0.0 | 0.6 | 20.9 | | | |
| GP-16B | 31-May | 15:54 | 0.10 | 0.0 | 0.5 | 20.9 | | | |
| GP-17 | 31-May | 16:05 | -0.08 | 0.0 | 5.3 | 15.8 | | | |
| GP-18 | 31-May | 16:20 | 0.00 | 0.0 | 4.3 | 17.3 | | | |
| GP-19 | 31-May | 16:12 | 0.00 | 0.0 | 0.3 | 21.3 | | | |
| LFG-1 | 31-May | 15:22 | 0.05 | 0.4 | 13.9 | 0.9 | 0.5 | | |
| LFG-2 | 31-May | 15:29 | 0.03 | 19.0 | 21.7 | 0.0 | 20.1 | | |
| LFG-3 | 31-May | 15:38 | 0.05 | 0.9 | 15.3 | 0.6 | 1.0 | | |
| General Data | | | | | | | | | |
| Monitored by: WC | | | | Weather Conditions | | | | | |
| Instruments: GEM 2000 | | | | Sky Cover: Partly Cloudy | | Wind / Rain / Snow: | | | |
| Calibration Date: | | | | Temperature (°F): 53 | | | | | |
| Notes | | | | | | | | | |
| 1. Measurement for spike concentrations of CH ₄ and CO ₂ are recorded if observed during sampling | | | | | | | | | |
| GP = Gas Probe CH ₄ = Methane S = shallow A= shallow NM = Not measured - CO ₂ = Carbon Dioxide M = medium B = medium equipment malfunction O ₂ = Oxygen D = deep C = deep | | | | | | | | | |

Landfill Gas Probe Monitoring

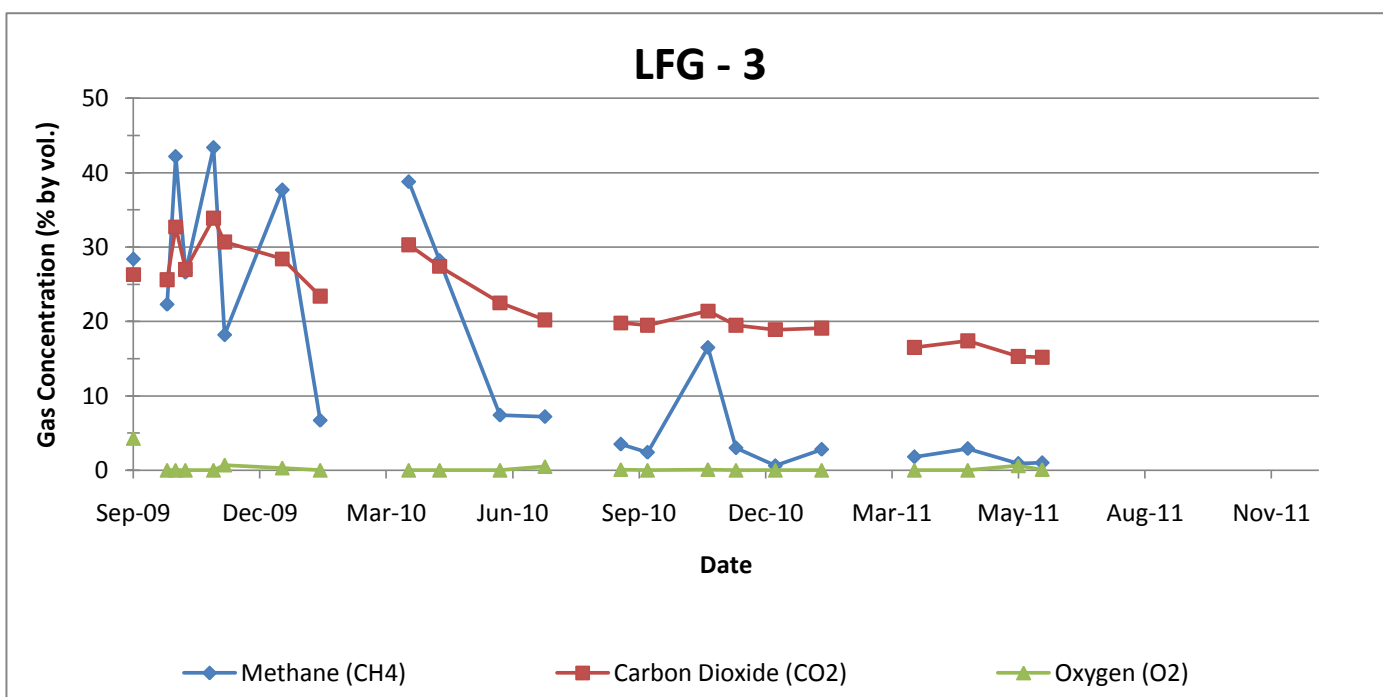
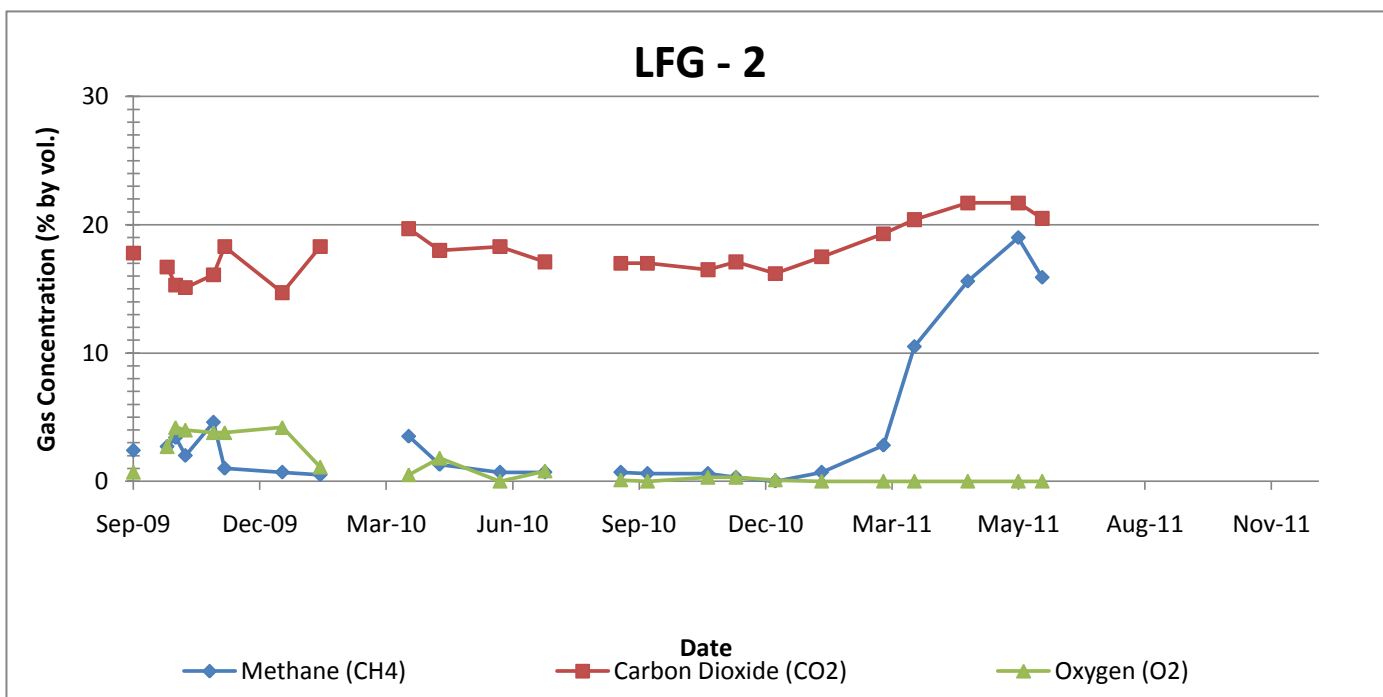
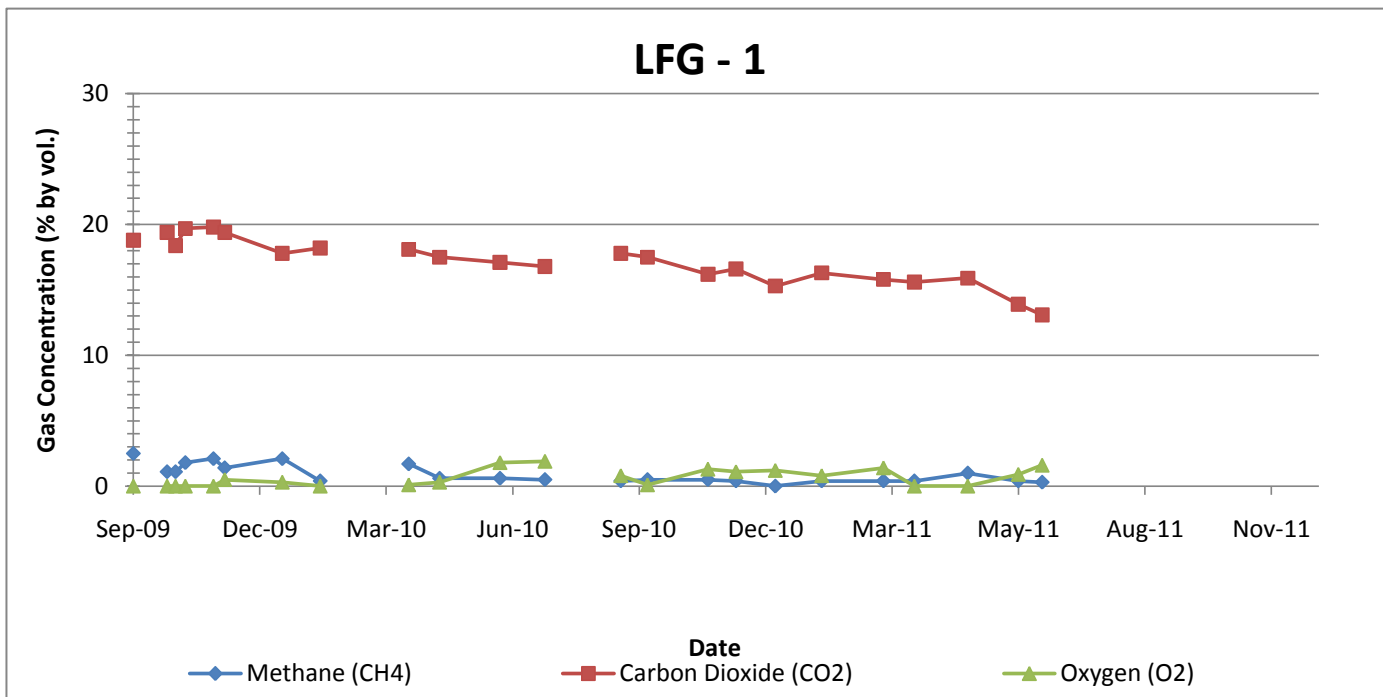
SCS Engineers

Hidden Valley Landfill
PCRCD dba LRI

04211003.02
June 17, 2011

| Location Reference Designation | Date | Time | Pressure (in. H ₂ O) | CH ₄ (% vol.) | CO ₂ (% vol.) | O ₂ (% vol.) | Comments | | |
|---|--------|-------|---------------------------------|--------------------------|--------------------------|-------------------------|---------------------------------------|---------------------------------------|-------|
| | | | | | | | Spike CH ₄ Note 1 (% vol.) | Spike CO ₂ Note 1 (% vol.) | Other |
| Gas Probes | | | | | | | | | |
| GP-1A | 17-Jun | 8:33 | 0.06 | 0.0 | 4.5 | 1.6 | | | |
| GP-1B | 17-Jun | 8:39 | 0.06 | 0.0 | 5.7 | 14.2 | | | |
| GP-1C | 17-Jun | 8:45 | -0.05 | 0.0 | 1.1 | 20.1 | | | |
| GP-2A | 17-Jun | 14:04 | -0.01 | 0.0 | 1.2 | 19.0 | | | |
| GP-2B | 17-Jun | 14:06 | 0.03 | 0.0 | 0.4 | 20.6 | | | |
| GP-3S | 17-Jun | 9:05 | 0.02 | 0.0 | 12.6 | 1.2 | | | |
| GP-3M | 17-Jun | 9:09 | 0.01 | 0.0 | 2.9 | 11.4 | | | |
| GP-3D | 17-Jun | 9:27 | 0.04 | 9.3 | 14.7 | 0.9 | 9.5 | | |
| GP-4A | 17-Jun | 9:48 | 0.03 | 0.0 | 0.5 | 20.1 | | | |
| GP-4B | 17-Jun | 9:50 | 0.03 | 0.0 | 0.2 | 20.2 | | | |
| GP-5A | 17-Jun | 9:57 | 0.01 | 0.0 | 0.5 | 19.9 | | | |
| GP-5B | 17-Jun | 10:04 | 0.02 | 0.0 | 3.4 | 13.2 | | | |
| GP-6 | 17-Jun | 10:09 | 0.04 | 0.0 | 0.7 | 20.0 | | | |
| GP-7S | 17-Jun | 10:17 | 0.00 | 0.0 | 0.7 | 20.0 | | | |
| GP-7D | 17-Jun | 10:20 | 0.01 | 0.0 | 0.8 | 19.4 | | | |
| GP-8A | 17-Jun | 10:50 | 0.02 | 0.0 | 3.4 | 18.2 | | | |
| GP-8B | 17-Jun | 10:53 | 0.02 | 0.0 | 1.5 | 20.2 | | | |
| GP-9 | 17-Jun | 11:00 | 0.00 | 0.0 | 1.9 | 17.9 | | | |
| GP-10 | 17-Jun | 11:07 | 0.00 | 0.0 | 0.6 | 20.7 | | | |
| GP-11 | 17-Jun | 11:20 | 0.01 | 5.1 | 7.0 | 0.0 | | | |
| GP-12 | 17-Jun | 11:30 | 0.00 | 0.4 | 11.1 | 0.0 | | | |
| GP-13A | 17-Jun | 12:25 | 0.05 | 16.4 | 8.2 | 6.7 | 22 | | |
| GP-13B | 17-Jun | 11:51 | 0.02 | 0.0 | 0.1 | 20.6 | 0.0 | | |
| GP-14S | 17-Jun | 12:37 | -12.36 | 0.0 | 17.4 | 5.1 | | | |
| GP-14D | 17-Jun | 12:39 | -0.01 | 0.0 | 16.6 | 0.3 | | | |
| GP-15A | 17-Jun | 12:47 | 0.00 | 2.6 | 12.9 | 0.8 | 2.8 | | |
| GP-15B | 17-Jun | 12:53 | 0.01 | 0.0 | 7.7 | 6.0 | | | |
| GP-16A | 17-Jun | 13:22 | 0.01 | 0.0 | 0.8 | 20.1 | | | |
| GP-16B | 17-Jun | 13:27 | 0.01 | 0.0 | 1.0 | 18.6 | | | |
| GP-17 | 17-Jun | 13:38 | -0.01 | 0.0 | 5.5 | 15.0 | | | |
| GP-18 | 17-Jun | 13:43 | 0.00 | 0.0 | 4.0 | 17.1 | | | |
| GP-19 | 17-Jun | 13:48 | 0.00 | 0.0 | 2.6 | 18.8 | | | |
| LFG-1 | 17-Jun | 13:01 | 0.03 | 0.3 | 13.1 | 1.6 | 0.5 | | |
| LFG-2 | 17-Jun | 13:05 | 0.07 | 15.9 | 20.5 | 0.0 | 26 | | |
| LFG-3 | 17-Jun | 13:11 | 0.03 | 1.0 | 15.2 | 0.1 | 1.2 | | |
| General Data | | | | | | | | | |
| Monitored by: WC | | | | Weather Conditions | | | | | |
| Instruments: GEM 2000 | | | | Sky Cover: Clear | | Wind / Rain / Snow: | | | |
| Calibration Date: 17-Jun-11 | | | | Temperature (°F): 68 | | | | | |
| Notes | | | | | | | | | |
| 1. Measurement for spike concentrations of CH ₄ and CO ₂ are recorded if observed during sampling | | | | | | | | | |
| GP = Gas Probe CH ₄ = Methane S = shallow A= shallow NM = Not measured - CO ₂ = Carbon Dioxide M = medium B = medium equipment malfunction O ₂ = Oxygen D = deep C = deep | | | | | | | | | |

**Hidden Valley Landfill
Subsurface Oxidation Area Evaluation**



Facility Inspection Checklist

Hidden Valley Landfill, Pierce County, Washington

Name: SAM ADLINGTON

Date: 4/25/2011

Signature: *[Handwritten Signature]*

Weather: RAIN/HAIL


| Items | Yes | No | Comments |
|---|-----|----|---------------------------------------|
| Cover System | | | |
| Settlement Depressions (sinkholes) | | X | |
| Cracking of Cover Soils | | X | |
| Inadequate Cover Soil or Rock | | X | |
| Standing Water | X | | WATER IN RIP/RAP CHANNELS NOT FLOWING |
| Vegetation | | | |
| Bare or Sparsely Vegetated Areas | | X | |
| Areas of Dying Vegetation | | X | |
| Large Root Vegetation (ex. Bushes) | | X | |
| Stormwater Conveyance System | | | |
| Ditch Obstructions or Flat Areas | | X | |
| Culvert Obstructions | | X | |
| Catch Basin Debris or Silt Accumulation | | X | |
| Stormwater Basin Debris or Silt | X | | DEBRIS IN DRAIN NEAR TRANSFER CENTER |
| Cover Erosion | | | |
| Gullies and/or Erosion Scars | | X | |
| Presence of Seeps | | X | |
| Vector Control | | | |
| Evidence of Ground Burrows | | X | |
| Leachate Collection & Leak Detection Systems | | | |
| Piping or Valve Issues | X | | CRACKS IN PIPING NEAR CSI |
| Pump or Meter Issues | | X | |
| Foaming at Pump | | X | |

Other Remarks:

Condensate Recirculation Inspection Checklist
Hidden Valley Landfill, Pierce County, Washington

Name: SAM AOUNGTOU

Date: 4/25/11

Signature: 

Weather: RAIN

Instructions: Inspect each sump for pump operation and condensate fluid level, which should be below the overflow drainage pipe. Note any unusual observations such as soil staining or air leaks in the comments section.

| Sump | Operation per Design (Y or N) | Comments |
|---|-------------------------------|----------------------|
| Sump No. 1 | Y | |
| Sump No. 2 | Y | FIRST IN PIC SERIES |
| Sump No. 3 | Y | |
| Sump No. 4 | Y | |
| Sump No. 5 | Y | |
| Sump No. 6 | Y | |
| Sump No. 7 | Y | |
| Sump No. 8 | Y | |
| Sump No. 9 | Y | |
| Sump No. 10 | N | Pump removed by paul |
| Other Remarks: none Picture of standing water | | |