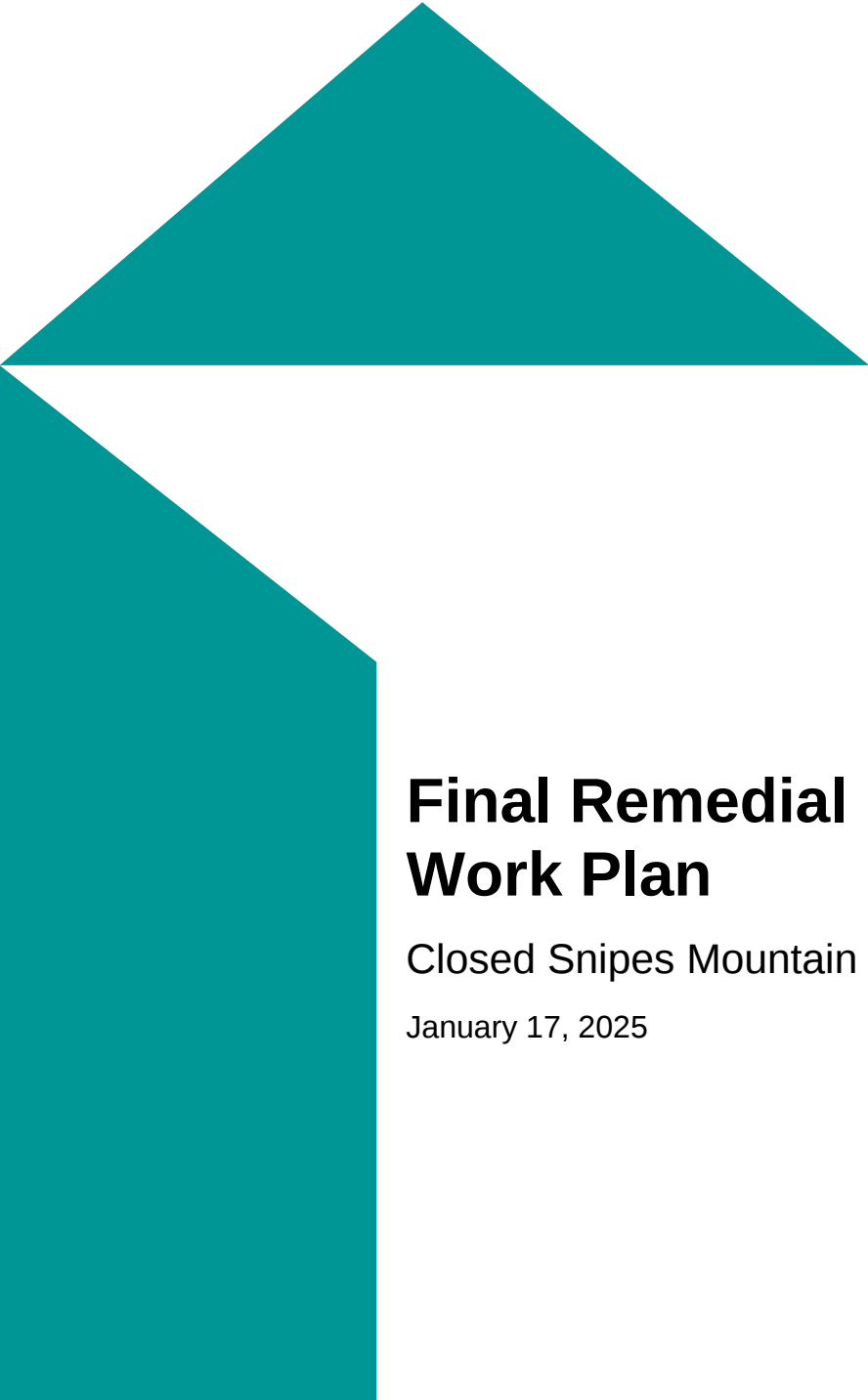


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Final Remedial Investigation Work Plan

Closed Snipes Mountain Landfill

January 17, 2025

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Final Remedial Investigation Work Plan

Closed Snipes Mountain Landfill

January 17, 2025

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List of Abbreviations and Acronyms

µg/L	micrograms per liter
bgs	below ground surface
AO	Agreed Order
ARAR	Applicable or Relevant and Appropriate Requirements
BTEX	benzene, toluene, ethylbenzene, xylenes
CAP	Cleanup Action Plan
CFC 11	trichlorofluoromethane
CFC 12	dichlorodifluoromethane
CLARC	Cleanup Levels and Risk Calculation
CO ₂	carbon dioxide
COC	chemical of concern
COPC	chemical of potential concern
CSM	Conceptual Site Model
CUL	cleanup level
D&C Plan	Development and Closure Plan (Parametrix, 1991)
DBCP	1,2-Dibromo-3-chloropropane
DCE	dichloroethene
DNR	Washington State Department of Natural Resources
DO	dissolved oxygen
DOC	dissolved organic carbon
Ecology	Washington State Department of Ecology
EIM	Electronic Information Management
EPA	United States Environmental Protection Agency
FS	feasibility study
ft	feet, foot
GP	gas probe
gpm	gallons per minute
GW	gas well
HASP	Health and Safety Plan
in	inches
K	permeability coefficient
kg	kilogram
lbs	pounds
LEL	lower explosive limit
LFG	landfill gas
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MEK	2-butanone
MFS	Minimum Functional Standards
mg	milligrams
MNA	monitored natural attenuation
MSW	municipal solid waste
MMSW	mixed municipal solid waste
MTCA	Model Toxics Control Act
NFA	No Further Action
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System

O ₂	oxygen
ORP	oxidation-reduction potential
PAEs	phthalate acid esters
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PCUL	preliminary cleanup level
PGG	Pacific Groundwater Group
POC	point of compliance
PPE	personal protective equipment
ppt	part-per-trillion
PLP	Potentially Liable Person
PQL	practical quantitation limit
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
Redox	reduction-oxidation
RI	remedial investigation
ROW	right-of-way
SAP	Sampling and Analysis Plan
SHA	Site Hazards Assessment
Snipes Landfill	Closed Snipes Mountain Landfill
SOP	standard operating procedure
SVOCs	semi-volatile organic compounds
TCA	trichloroethane
TCE	trichloroethene
TDS	total dissolved solids
Tem	Elephant Mountain Member of the Saddle Mountain Basalt
Ter	Rattlesnake Ridge Member of the Ellensburg Formation
Teu-C	Undifferentiated Upper Ellensburg Formation – Coarse
Teu-F	Undifferentiated Upper Ellensburg Formation – Fine
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPH-D	diesel-range total petroleum hydrocarbons
TPH-G	gasoline-range total petroleum hydrocarbons
TPH-O	oil-range total petroleum hydrocarbons
TSS	total suspended solids
USGS	United States Geological Survey
VC	vinyl chloride
VOC	volatile organic compound
WAC	Washington Administrative Code

1 Introduction

This document presents a work plan to conduct a remedial investigation (RI) at Yakima County Public Services' closed Snipes Mountain Landfill (Snipes Landfill) located in the vicinity of 1150 Luther Road, Sunnyside, WA 98944 (Facility site ID: 501; Cleanup Site ID: 3402). This report was prepared for the County to satisfy the requirements of Agreed Order No. DE 22514 (AO) between the County and Ecology. A Data Summary Report was submitted to Ecology on May 28, 2024 and revised on July 31, 2024 (Mott MacDonald, 2024a) was considered by Ecology on August 19, 2024 to be completed (Ecology, 2024a).

1.1 Objectives

The objective of the work plan is to describe the investigation activities that will be performed to supplement existing data, fill data gaps identified by the County and Ecology, and characterize the nature and extent of contamination at Snipes Landfill in accordance with WAC 173-340-350(6). The results of this and prior investigations will be used to prepare a Remedial Investigation/Feasibility Study (RI/FS) Report.

This work plan includes a Sampling and Analysis Plan (SAP), a Quality Assurance Project Plan (QAPP), and a Health and Safety Plan (HASP) in Appendices A, B, and C, respectively.

1.2 Site Description

1.2.1 Site Location

Snipes Landfill is in the southwest portion of Section 30, Township 10 North, Range 22 East (Figure 1-1). The approximately 60-acre Snipes Landfill includes two parcels: 22103031001 (51.48 acres) and 22103032003 (8.36 acres). Snipes Landfill is about five miles west of the downtown area of the City of Sunnyside on Luther Road in a canyon area of Snipes Mountain.

Snipes Landfill is bordered to the north and northwest by a gravel mining operation and residential property owned by O.L. Luther, Co., an asphalt, gravel, and excavation company (NPDES Permit WAG505014). O.L. Luther, Co. tax parcels 22103032001 and 22103032002 included in the AO Site description. All other surrounding parcels are zoned for agricultural land uses, primarily growing apples and wine grapes, several of which contain one or few onsite residences. The Yakima River is located less than one half mile from the southwestern corner of Snipes Landfill, separated by Emerald Road and two agricultural parcels.

1.2.2 Snipes Mountain Landfill History

Prior to opening Snipes Landfill there were no documented site uses (Parametrix, 1991). Operations at Snipes Landfill started in 1968 and were taken over by the County in 1972 (Parametrix, 1991). Available records indicate land ownership was transferred from the DNR to the County in 1993.

In 1976, Snipes Landfill was designated by the Yakima County Urban and Rural Solid Waste Management Plan, adopted by the County and approved by Ecology, to remain in operation after December 1976 (Board of County Commissioners, 1974). After 1985, Snipes Landfill operated per WAC 173-304. WAC 173-304 was issued in 1985.

The waste accepted at Snipes Landfill was mixed municipal solid waste (MMSW) and included industrial, commercial, residential waste, and construction and demolition debris. Septage was historically disposed of in three unlined septage ponds since at least 1977 (Figure 1-2). Liquid waste acceptance ceased at the end of 1990 and the last septage pond was pumped out in May 1991. The last septage pond to be used was the western-most pond shown in Figures 1-1 and 1-2. The historical photos indicate three septage pond locations, the largest within the waste footprint, which was covered at closure, and two smaller locations to the southeast. It is unclear if these eastern ponds were also covered by low permeability soil at closure in 1994.

In 1991, Parametrix published the Development and Closure Plan (D&C Plan) that provided the engineering design framework for closure (Parametrix, 1991). In the D&C Plan, Parametrix evaluated and found the landfill to be in compliance with Locational Standards per WAC 173-304-130. Notably, Parametrix determined that because annual precipitation was less than 12 inches, arid landfill design standards applied. Arid climate design requires no bottom liner for leachate collection and removal.

1.2.3 Current and Future Land Use

The landfill remained operational until March 30, 1994, when it was closed in accordance with WAC 173-304 and the Development and Closure Plan (D&C Plan) (Parametrix, 1991). At the time of closure, the landfill covered approximately 22.0 acres¹. The final cover was applied in accordance with WAC 173-351. The final cover design included 6 inches of low permeable soil on the prepared subgrade, 18 inches of cover soil, 6 inches of seeded topsoil (Parametrix, 1994). Snipes Landfill currently includes structures for a toll booth/employee building, a pump house, and the Lower Valley Transfer Station, operated by Yakima County Solid Waste from 1997 to 2022 (HDR, 2017). Preferred future land use is open space or outdoor recreational use and should not include land use requiring permanent enclosed structures (Parametrix, 1991).

1.2.4 Current and Future Groundwater Use

Wells closest to the extent of refuse include:

- A year-round industrial well (O.L. Luther, Co.; “Luther”) (non-potable use), and
- Two seasonal irrigation wells (DNR and Newhouse) (non-potable use)
- An onsite supply well (non-potable use) was formerly used for dust abatement, firefighting, and bathroom facilities at the Lower Valley Transfer Station, operated by Yakima County Solid Waste from 1997 to 2022.

The Luther well additionally serves the DNR-owned residential property and exterior spigots (potable).

Figure 1-3 shows residential and irrigation wells in the vicinity of Snipes Landfill. Table 1-1 provides a summary of offsite well information.

WAC 173-160-171 provides setback requirements for new groundwater drinking wells. For WAC 173-304 regulated facilities like the closed Snipes Landfill, the setback requirement is 1,000 feet from the boundary of the landfill as defined by the permit or the property boundary. Currently, there are no domestic drinking water wells within 1,000 ft of the County property of extent of refuse. The Luther well is approximately 1,100 ft from the extent of refuse and 975 ft from the

¹ Parametrix estimated that a 5.8-acre expansion area (referred to as “Phase 1” by Parametrix) along the south side would need to be filled to enhance surface water drainage, and along with a 100-ft buffer requirement, for a total Landfill footprint of 27.8 acres (Parametrix, 1991).

closest County property boundary. The onsite supply well formerly had non-potable use at the Lower Valley Transfer Station (1997 to 2022).

1.2.5 Climate

Snipes Landfill receives an average of approximately seven inches of precipitation per year, based on measurements in Sunnyside, WA between 2000 and 2023 (NOAA, 2024). The number of days with measurable precipitation in the City of Sunnyside has ranged from 56 to 104 between the years 2000 and 2023, with an average of 75 days per year in which there is measurable precipitation (NOAA, 2024).

Temperatures in Yakima County vary between the extremes of -14°F and 113°F. In the City of Sunnyside, maximum summer temperatures equal or exceed 95°F on 4-48 days and reach 100°F or higher on 0-24 days. Average daily maximum temperatures exceed 80°F from June through August, and average summer minimums are in the upper 40s, producing a daily temperature range of about 40-50°F. Average maximum temperatures during the winter months are in the 30s and lower 40s, while minimums range from the 10s to the lower 20s. Between 2000-2023, minimum temperatures in the City of Sunnyside drop to 20°F or lower on 6-49 nights and 0°F or lower on 0-4 nights.

Between mid-December and mid-February, most precipitation falls as snow. Snow seldom remains on the ground for longer than six weeks at the lower elevations and accumulations range from 1-8 inches.

1.2.6 Topography

Refuse disposed of at Snipes Landfill filled a valley on the southwest face of Snipes Mountain. The entrance gate is at the highest point of the landfill, at an elevation of approximately 990 ft above mean sea level. The landfill cover was graded to gradually slope down as the property proceeds to the southwest, reaching a minimum elevation of approximately 890 ft above mean sea level near well SMW-2. Well SMW-3 and the neighboring orchard to the southeast are uphill of the waste footprint.

2 Regulatory History and Interim Actions

Snipes Landfill was listed on the Washington State Department of Ecology (Ecology) Hazardous Sites List on August 27, 1991 (Facility site ID: 501; Cleanup Site ID: 3402) (Ecology, 2024b). Ecology completed a Site Hazard Assessment (SHA) on August 1, 1991, and assigned a score of 4 out of a possible 5 (score of 1 indicates the highest risk). In 2021, Ecology provided the County a notice of release and preliminary determination of liability (Ecology, 2021). This was followed by an Agreed Order effective February 29, 2024 (Ecology, 2024c). A Data Summary Report was submitted to Ecology on May 28, 2024 and revised on July 31, 2024 was considered by Ecology on August 19, 2024 to be completed (Ecology, 2024a).

2.1 History of Environmental Monitoring

Environmental monitoring at Snipes Landfill has included groundwater and landfill gas (LFG) at the locations shown on Figure 1-1. Table 2-1 provides a summary of monitoring well information. No leachate or surface water monitoring is conducted due to the arid conditions at the site.

2.1.1 Groundwater Monitoring

Groundwater monitoring began at Snipes Landfill in September 1989 following the installation and sampling of wells SMW-1, SMW-2, and SMW-3. Based on the 1989 results, the SAP was revised to include MFS parameters and VOCs (Appendix D of the D&C Plan, Parametrix, 1991). Volatile organic compounds were detected at SMW-1, notably tetrachloroethene (PCE). Monitoring wells SMW-4, SMW-5s, and SMW-5d were installed in November 1993 and included in the ongoing monitoring program in response to PCE detections at SMW-1 and to improve the understanding of groundwater flow north of the landfill (PGG, 1994).

Routine monitoring includes semi-annual sampling of SMW-1, SMW-2, SMW-4, SMW-5s, and SMW-5d and the analytical parameters include the Minimum Functional Standard (MFS) suite defined in WAC 173-304-490 and volatile organic compounds (VOCs) during the first and third quarters. Routine monitoring, while ongoing, is separate and distinct from the investigation and clean-up of the Snipes Landfill Site under WAC 173-340, Model Toxics Control Act (MTCA). Groundwater monitoring data is included in Appendix D.

2.1.2 Landfill Gas Monitoring

Snipes Landfill has six soil gas probes (GP) installed in three borings around the perimeter of the landfill, 10 wells in the passive gas collection system, and a flare that are sampled quarterly for the percents methane (CH₄), carbon dioxide (CO₂), and oxygen (O₂) as well as the barometric and static pressures (Figure 1-1). GP borings GP-1 through GP-3 were drilled prior to 1991 to provide landfill gas monitoring capability along the property boundaries. The GP borings were terminated at a 50-ft depth in the vadose zone. Each gas probe boring contains a shallow probe that is screened between 5 and 25 ft below ground surface (bgs) and a deep probe that is screened between 30 and 50 ft bgs. The 10 Gas Wells (GW-1 to GW-10) are presumed to have been installed during closure activities in 1994 to create a passive gas collection system that terminates at the flare north of GW-1 and GW-2. Data is available from quarterly monitoring of the passive gas collection system dating back to 2003 (Appendix E).

2.2 Environmental Monitoring Data Summary

A summary of recent groundwater and LFG data is presented in the Data Summary Report (Mott MacDonald, 2024a) and included in Appendices D and E. Data are summarized in the sections below by media.

2.2.1 Groundwater

Water quality results for the conventional parameters do not exceed site screening levels. However, the increasing trends in chloride, nitrate, sulfate, and specific conductance at SMW-5s through 2014 followed by declines over the last year are consistent with the arrival of a groundwater plume with a decreasing source. This is qualitatively consistent with the site conceptual model of a set of releases at Snipes Landfill that stopped concurrent with landfill closure in 1994 (Mott MacDonald, 2024a & b).

From historical MFS metals monitoring, there are few and intermittent iron and manganese exceedances. Additional details are described in the Data Summary Report (Mott MacDonald, 2024a). Groundwater monitoring data is included in Appendix D.

PCE is the highest-concentration VOC contaminant at Snipes Landfill and the most frequently detected analyte above the most stringent groundwater screening level from CLARC (5 ug/L, drinking water standard (MCL)) (Ecology, 2012 and Ecology, 2024d). Key PCE results include:

- PCE has been detected at SMW-1 in every sample collected since 1989, and frequently above the MCL (n = 68 of 73) (Figure 2-1).
- PCE has also been consistently detected in SMW-4 since the well was installed in 1994, and frequently above the MCL (n = 43 of 55).
- PCE has been detected in SMW-5s consistently since 2010, and above the MCL n = 2 of 70 times (Figure 2-1).
- PCE has not been detected in SMW-2 or SMW-5d.

A limited number of volatile organic compounds (VOCs) including trichloroethene (TCE), trichlorofluoromethane (CFC 11), cis-1,2- dichloroethene (DCE), 2-butanone (MEK), and acetone have been consistently detected below MTCA screening levels in wells SMW-1 and SMW-4 since monitoring began in 1989 and 1994, and at SMW-5s since 2010. Reporting limits for VOC analyses were lowered 2013 to conform to current laboratory standards of practice. Several constituents are now detected at concentrations below the previous standard reporting limits.

- TCE, which can be both a primary organic contaminant and PCE degradation product, has been regularly detected in SMW-1, SMW-4, and SMW-5s since monitoring began in 1989 (Figure 2-2).
- There have not been any detections of PCE degradation products trans-1,2-dichloroethene (DCE) or vinyl chloride, although cis-1,2-DCE has been detected at SMW-1 and SMW-4 (Figure 2-3).

2.2.2 Landfill Gas

Monitoring data from indicate the maximum recorded methane detection in the gas probes along the property boundary is 0.6 percent (%), which is below the LEL (5.0%) indicating that the passive gas collection system is adequately preventing offsite migration. Available data records for the gas well monitoring, which begin in March 2003 at the 10 locations, indicate that methane has regularly been detected in the passive gas collection system. Methane

concentrations tend to be higher at the monitoring points further from the flare and are approximately correlated with the measured static pressure. Methane percentages reached a maximum of 58.1% in 2004 Q3 at GW-10, ten years following landfill closure and capping. Measured methane has exceeded the LEL in 534 of 877 measurements (60.9%) within the passive gas collection system, including measurements at the flare. LFG data is included in Appendix E.

3 Preliminary Conceptual Site Model

3.1 Geology

3.1.1 Regional Geology

The Columbia Plateau covers most of central and eastern Washington and extends into Idaho and Oregon. It comprises a thick sequence of basalt flows overlain by, and occasionally interbedded with, sedimentary rock. The sequence of basalt flows covering the region has been identified as the Columbia River Basalts. The basalt flows are generally dark gray, fine-grained, and dense. The younger flows comprise the Yakima Basalt Subgroup.

3.1.2 Site Geology

Snipes Landfill is located on Snipes Mountain in the Yakima Valley, on the western margin of the Columbia Plateau where sedimentary rock layers are extensive. This Yakima Basalt Subgroup is present in the Snipes Mountain area and is divided into three formations (from youngest to oldest): Saddle Mountain, Wanapum, and Grande Ronde Basalts. The Wanapum Basalt crops out within the Snipes Landfill area.

The geologic units under Snipes Landfill have been correlated with regionally named formations based on interpretation of boring logs (Appendix G) and a geologic map by Campbell (1977). All of the penetrated geologic units below Snipes Landfill fold across the Snipes Mountain anticline, which is one of many folds of the Yakima Fold Belt. Most of the landfill refuse and the former septage lagoon sites lie on the north side of the axis where the units dip north. Dips on the southern limb are as steep as 70 degrees (Campbell, 1977) whereas dips on the northern limb have been measured to be 50 degrees on either side of the bend in the anticline axis within which the landfill lies. The anticline appears to plunge to the northwest although on a more regional scale it is relatively flat (Campbell, 1977).

3.2 Hydrogeology

The hydrogeology underlying and in the vicinity of Snipes Landfill is detailed in the D&C Report (Parametrix, 1991), the second annual groundwater monitoring report (PGG, 1992), and the Data Summary Report (Mott MacDonald, 2024a). The findings are summarized in the following sections.

3.2.1 Teu-C Aquifer: Undifferentiated Upper Ellensburg Formation – Coarse

Wells SMW-1 through SMW-3 range in depth from 250 to 310 feet and each penetrates the upper-most aquifer at their respective locations. The boring for the SMW-5 wells was drilled to a depth of 475 feet and two wells were constructed in that borehole with a seal between the screened sections. SMW-5s, screened in the Teu-C, provides monitoring of the shallowest aquifer at the SMW-5 location which is about 220 feet above the Elephant Mountain aquifer (PGG, 1994). Water levels in SMW-5s remain nearly constant over the course of the year.

3.2.2 Tem Aquifer: Elephant Mountain Member of the Saddle Mountain Basalt

SMW-1, SMW-2, SMW-4, and SMW-5d are all screened in the Tem aquifer. SMW-1 first encountered saturated conditions within the interflow zone between two basalt flows of the Tem. SMW-2 first encountered saturated conditions at the contact of the Tem and the underlying Ter.

SMW-4, drilled to a depth of 320 feet, and SMW-5d were installed in the Tem aquifer to compliment SMW-1 in providing groundwater flow direction information in the regime north of the anticlinal axis and additional monitoring capability in the Tem aquifer. Water levels in wells SMW-1, SMW-2, SMW-4, and SMW-5d have historically declined during the irrigation season and recovered when irrigation wells are not pumping.

3.2.3 Ter Aquifer: Rattlesnake Ridge Member of the Ellensburg Formation

SMW-3 first encountered saturated conditions within the Ter, about 200 feet stratigraphically below the Tem (Figure 3-1). SMW-3 penetrated about 200 ft of the unit without encountering the bottom. Water levels in SMW-3 remain nearly constant over the course of the year. The difference in water level responses at SMW-3 compared with wells completed in the Tem indicate that low-hydraulic conductivity layers occur between the stratigraphic positions within which the monitoring wells are screened (PGG, 1994). Water levels in SMW-3 have been too low for groundwater sample collection since 2005. In 2007, Yakima County Health District approved reducing sampling at SMW-3 to monitoring water levels with the contingency that if site conditions change significantly, sampling at SMW-3 may be required (Yakima Health, 2007).

3.2.4 Groundwater Flow Gradient and Direction

Groundwater flow direction is estimated from wells screened in the Tem aquifer including SMW-1, SMW-4 and SMW-5d. As seen in the hydrographs in Figure 3-2, the pumping of the irrigation wells changes water levels in the Tem aquifer, which also influences groundwater flow direction and gradient. When the irrigation wells are pumping, the hydraulic gradient in the Tem aquifer is towards the northeast in the north limb of the anticline (Figure 3-3). The hydraulic gradient in the Tem aquifer has historically shifted to a more southerly flow direction during the December water level measurement when the irrigation wells are not pumping (Figure 3-4). The gradient is typically steeper during the irrigation season at approximately 0.0158 in 2023 Q2 and 0.004 in 2023 Q4. Historic water level data is presented in Appendix F.

Groundwater south of the anticline axis likely flows towards the Yakima River, although the number of wells is too few to triangulate direction and horizontal gradient. The vertical gradient appears to be substantial based on a 45-foot head difference between SMW-2 and the Newhouse well when the Newhouse well was not pumping (PGG, 1994). High heads in the deep Newhouse well, relative to the shallower SMW-2, indicates upward groundwater flow. Upward groundwater flow is typical near low-elevation rivers.

3.3 Contaminants of Potential Concern

MFS parameters and VOCs are routinely analyzed in onsite monitoring wells and VOCs in offsite wells, including PCE, which has been routinely detected onsite since monitoring began in 1989.

- PCE has been detected above the most stringent MTCA screening level, protective of drinking water (5 ug/L).
- Other VOCs with confirmed detections include: TCE, Trichlorofluoromethane (CFC 11), Cis-1,2-DCE, MEK, and Acetone. These VOCs have been detected below MTCA screening levels.

In 1989, wells SMW-1, SMW-2, and SMW-3 were sampled for pesticides/PCBs, organophosphorus pesticides, and herbicides. There were no detections. Also in 1989, the monitoring wells were sampled for priority pollutant metals (i.e. arsenic, barium, cadmium,

chromium, lead, mercury, selenium, and silver). Concentrations did not exceed the state primary and secondary drinking water standards. Based on the 1989 results, the monitoring plan was revised to include MFS parameters and VOCs.

Contaminants of potential concern (COPC) for this RIWP include WAC 173-351-990 Appendix I, II, and III parameters. Appendix I parameters are constituents for leachate and detection monitoring of leachate releases to groundwater, Appendix II parameters are field, geochemical indicator, and leachate indicator parameters, and Appendix III parameters is a list of hazardous inorganic and organic constituents used for assessment monitoring. At WAC 173-351 regulated facilities, Appendix III analytes are analyzed in limited circumstances, and may have limited utility at this MTCA site.

Additionally, Ecology considers 1,4-dioxane, and PFAS as COPCs. Because some uncertainty remains in understanding contaminant flow paths at Snipes Landfill (Mott MacDonald, 2024a), BTEX and other indicators of petroleum hydrocarbons are considered COPCs because they are often associated with landfill leachate; however, these analytes have been routinely analyzed as VOCs and have not been detected.

Screening levels for all COPCs in groundwater were proposed based on available MTCA criteria in the preceding Data Summary Report (Mott MacDonald, 2024a) and are additionally included in Table 3-1. Screening levels for VOCs and metals in soil are included in Table 3-2.

3.4 Contaminant Migration, Receptors, and Exposure Pathways

Potential sources and pathways of groundwater contamination at Snipes Landfill include vadose zone transport of leachate from the refuse, vadose zone transport of liquids from former seepage lagoons, and landfill gas vadose zone transport of VOCs to the water table.

Summary of Potential Receptors and Exposure Pathways:

Contaminated Media	Potential Receptor			Potential Exposure Pathway		
	Human	Terrestrial Ecological	Aquatic Ecological	Direct Contact	Ingestion	Inhalation
Septage Lagoon Soil	✓	✓	O	✓	✓	O
Landfill Refuse	O	O	O	O	O	O
Groundwater	✓	✓	O	✓	✓	✓
Landfill Gas	✓	O	O	O	O	✓

O = incomplete or no applicable exposure pathway

✓ = potential exposure pathway

Summary of Potential Transport Pathways:

	FROM		
TO	Former Septage Lagoons	Landfill Leachate	Landfill Gas
Groundwater	Potentially Complete	Potentially Complete	Potentially Incomplete

Note that former septage lagoon, landfill leachate, and/or landfill gas to groundwater transport pathways may have been historically complete. To the extent that these transport pathways were historically complete, the cessation of septage lagoon use (ca 1991), capping and closure of the landfill (ca 1994), and installation of LFG collection system (ca approximately 1994) would have substantially curtailed potential contaminant transport.

3.4.1 Septage Lagoon Soil

Soil at Snipes Landfill has not been previously sampled. The exposure pathway is incomplete within the waste footprint where capping was completed. The location of the two smaller septage lagoons appears to be outside of the cap extent constructed during landfill closure. To the extent that contaminants may be present in soils in the two small former lagoon areas, they therefore present a potential exposure pathway to onsite workers and terrestrial ecological receptors and a potential pathway to groundwater. Remedial Investigation tasks are proposed in section 4 below to address potential data gaps relates to soil exposure and transport pathways.

3.4.2 Groundwater

Based on the results of offsite well water sampling, it is known that contaminant exposure from drinking well water is a potentially complete exposure pathway for PCE at the Luther well and the residence the well supplies, and a potentially incomplete exposure pathway for PCE and other drinking water contaminants at neighboring residences to the north and northeast that use well water, because there have been no PCE detections or MCL exceedances for VOCs in offsite wells, other than PCE in the Luther well samples and samples from the residence the well supplies. However, because of the complex site hydrogeologic framework there is some uncertainty as to the transport of contaminants within the groundwater. Remedial Investigation tasks are proposed in section 4 below to address potential data gaps relates to groundwater exposure and transport, and sources of contaminants to groundwater.

3.4.3 Landfill Gas

Methane is routinely detected in the passive gas extraction system exceeding the LEL. Monitoring data from gas probes along the property boundary indicate that the passive gas collection system is adequately preventing offsite migration. Landfill gas migration and contaminant transport to groundwater at the water table is an uncommon pathway. At this site, the vadose zone is more than 100 ft thick below refuse. This pathway is considered potentially incomplete. Remedial Investigation tasks are proposed in section 4 below to address potential data gaps related to landfill gas exposure and transport pathways.

4 Remedial Investigation Activities

4.1 Data Gaps

The following data gaps have been identified based on information presented in previous sections and the preceding Data Summary Report (Mott MacDonald, 2024a).

- Hydrogeologic Conceptual Site Model
 - Semi-annual water level measurements for wells screened in the Tem aquifer are not frequent enough to describe the influence of short-term irrigation pump cycling on water levels and the groundwater flow direction during seasonal gradient shifts.
 - Groundwater flow south of the anticline is based only on SMW-2 and historic (pre-1996) Newhouse well water levels.
 - One 2-dimensional cross-section has been created for the geologic units underlying Snipes Landfill, and the complex hydrogeology from the landfill footprint to monitoring well SMW-5 has not been fully explored.
 - The basic geochemical conditions relevant to promoting or preventing biodegradation and natural attenuation have not been characterized.
- Nature and Extent of Contamination – Groundwater
 - PCE contamination has been observed in the northern-most monitoring wells (SMW-5s and SMW-5d) with a prevailing groundwater flow direction to the north-northeast. Offsite sampling has not been conducted with enough regularity to delineate the extent of contamination to the north and understand PCE concentration trends.
 - Landfill gas has not been analyzed for VOC composition, which may help identify COCs for groundwater.
- Nature and Extent of Contamination – Soil
 - The soil exposure pathway is likely incomplete within the waste footprint where capping was completed; however, the smaller septage lagoons present a potential exposure pathway. Soil samples at or around the former septage lagoons, have not been collected.
- Transport Pathways
 - Elevated chloride, sulfate, and nitrate in groundwater monitoring results is consistent with groundwater that has been impacted by landfill leachate, but it is not known if the leachate to groundwater is complete due to arid site conditions.
 - It is unknown if the two smaller septage lagoons that were to the southeast of the waste footprint were covered at closure, or if they present an opportunity for vadose zone transport to groundwater.

4.2 Work Plan Objectives

The work outlined in this section of the work plan has the following objectives:

- Document the year-round fluctuations in water level and the resulting groundwater flow direction in the Tem aquifer.
- Document vertical flow gradients between the Tem (SWM-5d) and Teu-C (SMW-5s) aquifers.

- Understand the complex geologic units underlying Snipes Landfill and how the hydrogeologic conditions impact contaminant transport pathways.
- Evaluate the geochemical conditions to support the hydrogeologic model and assess the potential for biodegradation and natural attenuation based on geochemical conditions.
- Assess the completeness/incompleteness of transport pathways from landfill gas, soil, and leachate to groundwater.
- Identify Contaminants of Concern.
- Delineate the extent of PCE and any other contaminants of concern in groundwater, particularly to the north of Snipes Landfill.

In addition to the activities outlined in this work plan, the following ongoing activities will be conducted.

- Continue monitoring MFS parameters and VOCs in groundwater as part of routine monitoring (WAC 173-304-490).
- Continue monitoring the passive LFG collection system, the perimeter gas probes, and flare operation.

4.3 Investigation Phasing

A phased approach will initially employ a detailed desktop analysis, alongside soil sampling and expanded quarterly monitoring, to close data gaps and guide later phases of investigation. This desktop analysis will include processing water level transducer data (Task 1), development of a 3-dimensional (3-D) geologic model (Task 2.1), assessment of geochemical conditions (Task 2.2), and an updated leachate production analysis to better characterize the site (Task 3.3).

The first phase of this remedial investigation will help to determine accessible potential monitoring well locations that will best complement the existing network of wells to characterize the extent of contaminant transport offsite and the nature of transport between the underlying aquifers.

4.3.1 Task 1. Water Level Temporal Resolution

Water level transducers were deployed on June 23, 2024 in monitoring wells SMW-4, SMW-5s, and SMW-5d. A barometer was additionally deployed in the SMW-5 well monument for pressure corrections. Water level transducer data from SMW-5s and SMW-5d will be used for the workplan object to document and analyze the vertical flow gradients between the Tem and Teu-C aquifers.

Mott MacDonald and Yakima County attempted to additionally deploy a water level transducer at SMW-1 on June 23 and July 11, 2024, however, the nature of the well casing and sounding tube prevented access. Water levels at SMW-1 will be taken manually on a weekly basis beginning in third quarter 2024 to supplement SMW-4 and SMW-5d in calculating horizontal flow gradient and the timing of flow direction reversal in the Tem aquifer, and the impacts of offsite pumping on flow directions and gradients.

If manual water level measurements do not provide the necessary detail or precision to understand the influence of irrigation on groundwater flow at Snipes Landfill, modification of the sounding tube at SMW-1 to allow transducer deployment will be considered with Ecology consultation.

The following additional activities will be conducted:

- Water level and barometric data will be downloaded and analyzed on a quarterly basis.
- Progress updates and preliminary results will be communicated to Ecology during quarterly updates required under the AO.

4.3.2 Task 2. Hydrogeologic Conceptual Model

A workplan objective is to better understand the complex geologic units underlying Snipes Landfill and how the hydrogeologic conditions impact contaminant transport pathways.

4.3.2.1 Task 2.1. 3-D Geologic Model

A 3-D geologic model is currently being developed from the following data:

- Onsite monitoring well boring logs (SMW-1, SMW-2, SMW-3, SMW-4, SMW-5s/d)
- Onsite Supply well
- Surrounding irrigation and industrial wells (O.L. Luther, Inc., DNR well, Newhouse well)
- Surrounding Residential wells (550 Luther Rd, 388 Luther Rd, 588 Luther Rd, 2610 Gap Rd, 3018 Gap Rd, 123 Floral Ln)

Cross-sections along multiple alignments are currently being generated to understand the potential contaminant transport pathways between aquifers to the north of Snipes landfill. Draft cross-sections presented in Figures 4-2 through 4-5 were used to assess potential new monitoring well locations. Progress updates and preliminary results will be communicated to Ecology during quarterly updates required under the AO.

4.3.2.2 Task 2.2. Geochemical Conditions

To support the current understanding of aquifer geochemical conditions, the expanded groundwater sampling analyte set will be used to:

- Support the current understanding of aquifer geochemical conditions.
- Compare major ion chemistry using visual depictions such as Stiff diagrams or Piper plots.
- Use the Natural Attenuation screening tool to assess whether the geochemical conditions are promoting or preventing biodegradation and natural attenuation.

4.3.3 Task 3. Landfill Gas, Soil, and Leachate Pathways to Groundwater

A workplan objective is to assess the completeness/incompleteness of transport pathways from landfill gas, soil, and leachate to groundwater.

4.3.3.1 Task 3.1 Septage Lagoon Soil to Groundwater Transport Pathway

Soil will be sampled in and around the locations of the three septage lagoons. Direct push technology will be used to collect samples from up to 13 locations. Soil borings will be advanced to the lesser of refusal, bedrock, or 30 feet bgs. Sample collection will target one sample from septage lagoon material near the surface or as identified beneath surficial cover, and one sample at depth to assess potential impacts. More details are described in the SAP (Appendix A).

4.3.3.2 Task 3.2 Landfill Gas

Landfill gas composition testing will be initiated during a quarterly landfill gas monitoring event. Passive or active sampling may be selected depending on the accessibility at sample locations.

Samples will be collected at 6 passive gas well locations and analyzed for VOCs. More details are described in the SAP (Appendix A).

Passive samplers provide a time-integrated mass result, rather than a concentration, so can be used to assess the relative quantity between contaminants analyzed or between samples. Active sampling, using summa canisters or the like, would attach directly to the gas well port, and provide concentrations, which are tied to LFG production. The period of sampling will be selected to coincide with a period of falling barometric pressure and optimal conditions for LFG production.

4.3.3.3 Task 3.3 Leachate Production Analysis and Transport Pathway

Leachate production estimates will be generated using the current HELP model (Version 4.0), developed by EPA ORD's Center for Environmental Solutions and Emergency Management. The estimates will update the original results from the D&C Report (Parametrix, 1991). An updated estimate of the travel time of leachate between land surface and the top of the Teu-C aquifer will additionally be calculated.

4.3.4 Task 4. Expanded Groundwater Sampling

A workplan objective is to assess identify Contaminants of Concern (COC) and delineate the extent of PCE and any other COCs in groundwater, particularly to the north of Snipes Landfill.

4.3.4.1 Task 4.1 Expanded Analyte List

As part of RI work, the following actions have already occurred at Snipes Landfill:

- Monitoring wells were sampled for an expanded analyte set in June 2024: basic geochemistry (NO₂, NO₃, NH₃, TOC, COD, chloride, sulfate, alkalinity), metals (dissolved Ca, Na, Mg, K, Fe, Mn, Zn), and petroleum hydrocarbons.

The groundwater sampling procedure and schedule used for ongoing monitoring under WAC 173-304-490 will be used. Additional groundwater sample volume will be collected to test for additional analytes during MFS compliance monitoring. A total of 4 quarters of RI sampling will be completed beginning in Q1 2025.

- Groundwater sampling at onsite monitoring wells north of the anticline (SMW-1, SMW-4, SMW-5s, SMW-5d) will include WAC 173-351-990 Appendix I, and II parameters, as well as 1,4-dioxane and PFAS. Additional details of the analytical approach are provided in the SAP (Appendix A).

After the Q1 2025, Q2 2025 RI quarterly sampling events are completed, reductions in the sampling suite for Q3 2025 and Q4 2025 quarterly monitoring will be recommended for analytes that are not of concern in any of the monitoring wells. Any changes to the groundwater monitoring program will be submitted to Ecology for review and approval before they are implemented. It is anticipated that semi-annual MFS monitoring will resume in Q1 2026.

4.3.4.2 Task 4.2 Offsite Well Sampling

As part of RI work, the following actions have already occurred at Snipes Landfill:

- Groundwater samples have been collected from offsite wells.
 - June 11, 2024: DNR well, Luther well via the DNR house, 1135 Luther Rd (Roskamp Farms)

- July 23, 2024: Luther well via the DNR house, O.L. Luther, Inc., 2250 Gap Rd, 2610 Gap Rd

PCE was detected in the O.L. Luther, Inc. well below the drinking water MCL via direct and DNR house samples in these recent samples. VOCs were not detected in the other offsite wells. PCE has been detected at the O.L. Luther well in nine samples with PCE concentrations below the drinking water MCL (5 ug/L) in 8 of 9 samples, and above the above the MCL once in 2018 Q4 (7.27 ug/L).

Offsite sampling will continue for the next 4 quarters beginning in Q4 2024 at the O.L. Luther, Inc. well and the DNR house for VOCs. If additional analytes, beyond PCE and other VOCs, are recognized as COCs, these additional analytes may be added to the offsite well sampling analytical suite.

Additional details of the analytical approach are provided in the SAP (Appendix A).

4.3.4.3 Task 4.3 Expanded Monitoring Network

An expanded monitoring network is necessary to delineate the extent of contamination, inform groundwater transport, and conceptualize seasonal groundwater flow fluctuation due to irrigation well pumping. Based on the available data, the six locations below were reviewed for suitability for additional monitoring wells (Figure 4-1):

Location ID	NAD83 Northing (us ft)	NAD83 Easting (us ft)	Target Aquifer	Estimated Completion Depth (ft)	
				Teu-C	Tem
MM-1	1736474.5	361269.8	Teu-C/Tem	70-285	385-550
MM-2	1735815.8	361765.5	Teu-C	85-325	-
MM-3	1737002.5	361629.0	Teu-C	140-370	-
MM-4	1735775.1	360475.6	Tem	-	50-170
MM-5	1736296.3	360131.0	Tem	-	25-160
MM-6	1736317.6	362291.3	Teu-C	280-550	-

Cross-sections of the draft 3-D used to evaluate these potential monitoring well locations are included in Figures 4-2 through 4-5.

The following observations and considerations for site selection are noted:

- Location MM-1 is on a Washington DNR parcel along the right-of-way between SMW-4 and SMW-5s and SMW-5d. Additional boring information in this area could help address data gaps regarding contaminant transport between the deep (Tem) and shallow (Teu-C) aquifers. A nested well to enable monitoring of both Teu-C and Tem may be appropriate and would provide additional data points for calculating the vertical gradient between Teu-C and Tem. The location of the well would enable further plume extent characterization within the Tem and Teu aquifers to the north. An additional water level measurement in this parcel would complement the horizontal groundwater flow calculations in both aquifers.
- Location MM-2 is on a Washington DNR parcel along the right-of-way northwest of SMW-5s and SMW-5d. This location would enable plume extent characterization in the Teu-C aquifer to the northwest of the current monitoring well network. An additional water level measurement in this parcel would complement the horizontal groundwater flow calculations within the Teu-C aquifer.

- Location MM-3 is on a Washington DNR parcel along a farm road to the east of SMW-5s and SMW-5d. This location would enable plume extent characterization in the Teu-C aquifer to the northeast of the current monitoring well network, consistent with the dominant groundwater flow direction during irrigation well pumping (April-October). An additional water level measurement in this parcel would complement the horizontal groundwater flow calculations within the Teu-C aquifer.
- Location MM-4 is within the Closed Snipes Landfill property along the property boundary to the southwest of SMW-1 and in the vicinity of GP-1. Current geologic modeling suggests Teu-C will not be present at this location. The location would enable contaminant monitoring closer to the refuse and provide information on the hydraulic divide closer to the anticline. Based on changes in Tem water levels due to irrigation well pumping (April-October), it is likely that a well at this location would be seasonally dry and potentially permanently dry.
- Location MM-5 is within the Closed Snipes Landfill property near the southeastern property boundary and the former location of the southern septage lagoons. Current geologic modeling suggests Teu-C will not be present at this location. The location would enable contaminant monitoring closer to the septage lagoons and provide information on the hydraulic divide closer to the anticline. Based on changes in Tem water levels due to irrigation well pumping (April-October), it is likely that a well at this location would be seasonally dry and potentially permanently dry (Figure 4-4)
- Location MM-6 is on a Washington DNR parcel along a farm road to the north of SMW-5s and SMW-5d and southeast of the DNR Well. This location would enable plume extent characterization in the Teu-C aquifer to the north of the current monitoring well network. An additional water level measurement in this parcel would complement the horizontal groundwater flow calculations within the Teu-C aquifer.

Based on these preliminary evaluations, MM-1, MM-3, and MM-6 are recommended to be installed as part of this RI to further delineate the extent of contamination north and northeast of the current well network within both the Teu-C and Tem aquifers, inform vertical groundwater gradients between the Teu-C and Tem, and conceptualize seasonal groundwater flow fluctuation due to irrigation well pumping. Final plans regarding the expansion of the monitoring network will be made based on the findings of the expanded analyte set, the updated hydrogeologic conceptual model, and in consideration of the constraints of location access. It is anticipated that final well locations will be selected within Q2 2025 and installed in Q4 2025 and Q1 2026; however, schedule will be contingent on Ecology approval of final well locations, driller availability and contracting, and property access arrangements.

5 Reporting and Schedule

5.1 RI Report

A Remedial Investigation (RI) Report will be prepared in accordance with Agreed Order No. DE 22514 that summarizes the nature and extent of impacts and supports the preparation of a Feasibility Study (FS) for selecting a cleanup action under WAC 173-340, the Model Toxics Control Act (MTCA). The objective of the RI Report is to sufficiently define site conditions in order for the FS to define remedial action objectives and remedial alternatives.

The RI Report will include groundwater and soil sampling results compared to the screening levels proposed in the Data Summary Report (Mott MacDonald, 2024a). In addition, the RI Report will include landfill gas sampling data, an updated CSM that incorporates geochemical analysis, and geologic cross-sections. Laboratory analytical reports, field sampling documentation, and data used in geologic or leachate modeling will be included as appendices. The final RI Report data will be uploaded to Ecology's Environmental Information Management (EIM) database as required by the AO.

5.2 Schedule

Work has already begun for the following tasks in support of the initial phase of the RI and workplan development:

- Expanded groundwater sampling at offsite wells,
- Geochemical parameter collection,
- Water level transducer data collection, and
- 3-dimensional geologic model development.

Preparations for field activities, including contracting with subcontractors, will occur following receipt of Ecology approval of the Final RIWP. Ideally, approval will occur prior to Q4 2024 so that expanded quarterly groundwater monitoring can begin in Q4 2024 and continue for 4 quarters through Q3 2025. Landfill gas sampling is planned for Q1 2025 and septage pond area soil sampling is planned for Q1 or Q2 2025.

Data and results will be conveyed to Ecology via the quarterly updates, per the AO, due March, June, September, and December. The next quarterly update is due September 20, 2024.

Variations from this schedule may be necessary based on unanticipated findings, site constraints, subcontractors and contracts, and other considerations as needed. If additional or amended RI activities are needed to meet the objectives of the RI work plan, the scope, schedule, and submittal requirements for this additional or amended work will be developed and discussed with Ecology. Substantial changes or additions will be submitted as a supplemental RI work plan to Ecology for review and approval. Based on the information provided in the quarterly updates, we understand that a supplemental work plan may be needed for Task 4.3 and monitoring activities past Q3 2025. See table below summarizing tasks and schedule.

Task	Task Description	2024		2025				2026			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Water-Level Monitoring	X	X	X	X	X	TBD	TBD	TBD	TBD	--
2.1	3-D Geologic Model	X	X	X	X	--	--	--	--	--	--
2.2	Geochemical Conditions	--	--	X	X	X	X	TBD	TBD	TBD	--
3.1	Septage Lagoon Soils	--	--	X	X	--	--	--	--	--	--
3.2	Landfill Gas Sampling	--	--	X	--	--	--	--	--	--	--
3.3	Leachate Production Model Update	--	X	X	--	--	--	--	--	--	--
4.1	Expanded Groundwater Analyte List	--	--	X	X	X	X	TBD	TBD	TBD	TBD
4.2	Offsite Well Sampling	--	X	X	X	X	X	TBD	TBD	TBD	--
4.3	Expanded Monitoring Network	--	--	--	--	--	X	X	--	--	--
	Completion of all RI field work, including any additional phase(s)	--	--	--	--	--	--	--	--	X	X
	Quarterly Updates	X	X	X	X	X	X	X	X	X	X

TBD = to be determined following the initial phase of work

RI field work will be completed within 730 days following Ecology approval of the Final RIWP, as described in the AO, or in Q4 2026 assuming approval in Q4 2024. Submittal of the Agency Review Draft RI report will occur 90 days after the completion of all RI field work.

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Table 1-1. Offsite Well Information

Closed Snipes Mountain Landfill

	O.L. Luther Co.	Newhouse (31D1) Well	DNR (30E1) Well	388 Luther Rd	2610 Gap Rd
Well Owner	Joe and Sue Luther	Donna Newhouse	DNR	Stan Beltman	Joe and Sue Luther
NAD83 Northing (us ft)	361585.994	358174.897	362676.582	363179.601	362360.508
NAD83 Easting (us ft)	1735463.995	1735241.544	1736098.577	1734594.576	1737483.922
Well Completion Date	5/22/1975	5/15/1990	6/20/1974	11/21/2006	5/4/1992
Well Depth (ft bgs)	320	508	885	185	196
Aquifer	Teu-C	Unknown	Tem	Teu-C	Teu-C

bgs = below ground surface

ft = feet

in. = inches

N/A = not applicable

us ft = United States Survey Feet

Table 2-1. Monitoring Well Information

Closed Snipes Mountain Landfill

	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5s	SMW-5d
NAD83 Northing (us ft)	360820.149	359138.248	359332.632	360840.468	361583.873	361583.873
NAD83 Easting (us ft)	1736179.757	1735314.732	1736367.367	1736671.279	1736207.681	1736207.681
Boring Date	07/20/89 - 08/02/89	08/02/89 - 08/10/89	08/15/89 - 08/22/89	11/15/93 - 11/17/93	11/18/93 - 12/02/93	11/18/93 - 12/02/93
Well Depth (ft bgs)	250	250	310	320	248	470.5
Casing Diameter (in.)	2	2	2	2	2	2
Casing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Sounding Tube	3/4" Schedule 80 PVC	3/4" Schedule 80 PVC	3/4" Schedule 80 PVC	N/A	N/A	N/A
Sampling Method	Hydrostar	Hydrostar	Not Sampled	Bladder Pump	Hydrasleeves	Hydrasleeves
Approximate Ground Elevation	999	895	1035	1000	951	951
Top of Steel Casing Elevation	1001.23	896.8	1037.03	1002.8	953.57	953.57
Approximate Pump Set Depth (ft bgs)	240	230	280	310.5	N/A	N/A
Screen Interval (ft bgs)	240-245	230-240	295-305	308-318	236-246	459.5-469.5
Slot Size	30 (0.020 in.)	30 (0.020 in.)	30 (0.020 in.)	0.020 Slot	0.020 Slot	0.020 Slot
Filter Material	#8-12 Silica Sand	#8-12 Silica Sand	#8-12 Silica Sand	10-20 Colorado Silica Sand	10-20 Colorado Silica Sand	10-20 Colorado Silica Sand
Filter Depth (ft bgs)	240-250	225-250	270-300	303-320	230-255	455-475
Screen Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Drilling Method	Air Rotary	Air Rotary	Air Rotary	Air Rotary	Air Rotary	Air Rotary

bgs = below ground surface

ft = feet

in. = inches

N/A = not applicable

us ft = United States Survey Feet

Table 3-1. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Groundwater

Closed Snipes Mountain Landfill, Yakima County, Washington

WAC 173-351 Appendix	Constituent	MTCA Groundwater Criteria (µg/L)						WA State MCL (µg/L)	Federal MCL (µg/L)	Federal MCLG (µg/L)	Other Regulatory Criteria (µg/L)	CLARC Groundwater Target Criterion	Previous Results Available
		Method A	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer						
APPENDIX III	0,0,0-Triethyl phosphorothioate												No
APPENDIX III	0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)												No
APPENDIX I - ORGANIC	1,1,1,2-Tetrachloroethane		240	1.7	1.6827	530	17					C	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,1,1-Trichloroethane (methyl chloroform)	200	16000		200	35000		200	200	200		MCL	Yes
APPENDIX I - ORGANIC	1,1,2,2-Tetrachloroethane		160	0.22	0.2188	350	2.2					C	Yes
APPENDIX I - ORGANIC	1,1,2-Trichloroethane		32	0.77	3	70	7.7	5	5	3		MCLG	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,1-Dichloroethane		1600	7.7	7.6754	3500	77					C	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,1-Dichloroethene		400			880		7	7	7		MCL	Yes
APPENDIX III	1,1-Dichloropropene												Yes
APPENDIX I - ORGANIC	1,2,3-Trichloropropane		32	0.0004	0.0004	70	0.015					C	Yes
APPENDIX III	1,2,4,5-Tetrachlorobenzene		2.4		2.4	5.3						N	No
APPENDIX III	1,2,4-Trichlorobenzene		80	1.5	15.0862	180	15	70	70	70		MCL C ADJ	Yes
APPENDIX I - ORGANIC	1,2-Dibromo-3-chloropropane (DBCP)		1.6	0.014	0.1439	3.5	0.55	0.2	0.2	0		MCL C ADJ	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,2-Dibromoethane (EDB)	0.01	72	0.022	0.05	160	0.22	0.05	0.05	0		MCL	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,2-Dichlorobenzene		720		600	1600		600	600	600		MCL	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,2-Dichloroethane (EDC)	5	48	0.48	4.8077	110	4.8	5	5	0		MCL C ADJ	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,2-Dichloropropane (propylene dichloride)		320	1.2	5	700	12	5	5	0		MCL	Yes
APPENDIX III	1,3-Dichlorobenzene												Yes
APPENDIX III	1,3-Dichloropropane (trimethylene dichloride)		160		160	350						N	Yes
APPENDIX I - ORGANIC, APPENDIX III	1,4-Dichlorobenzene		560	8	75	1200	81	75	75	75		MCL	Yes
	1,4-dioxane		240	0.44	0.44	530	4.4					C	No
APPENDIX III	1,4-Naphthoquinone												No
APPENDIX III	1-Naphthylamine												No
APPENDIX III	2,2,1-Bis-(2-chloro-1-methylethyl) ether												No
APPENDIX III	2,2-Dichloropropane (isopropylidene chloride)												Yes
APPENDIX III	2,3,4,6-Tetrachlorophenol		480		480	1100						N	No
APPENDIX III	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)		5.60E-06	3.40E-07	3.37E-06	1.20E-05	3.40E-06	3.00E-05	3.00E-05	0		MCL C ADJ	No
APPENDIX III	2,4,5-TP (Silvex)		130		50	280		50	50	50		MCL	No
APPENDIX III	2,4,5-Trichlorophenol		1600		1600	3500						N	No
APPENDIX III	2,4,5-Trichlorophenoxyacetic acid		160		160	350						N	No
APPENDIX III	2,4,6-Trichlorophenol		16	8	7.9545	35	80					C	No
APPENDIX III	2,4-Dichlorophenol		48		48	110						N	No
APPENDIX III	2,4-Dichlorophenoxyacetic acid		160		70	350		70	70	70		MCL	No
APPENDIX III	2,4-Dimethylphenol		320		320	700						N	No
APPENDIX III	2,4-Dinitrophenol		32		32	70						N	No
APPENDIX III	2,4-Dinitrotoluene		32	0.28	0.2823	70	2.8					C	No
APPENDIX III	2,6-Dichlorophenol												No
APPENDIX III	2,6-Dinitrotoluene		4.8	0.058	0.0583	11	0.58					C	No
APPENDIX III	2-Acetylaminofluorene (AAF)												No
APPENDIX I - ORGANIC, APPENDIX III	2-Butanone (MEK)		4800		4800	11000						N	Yes
APPENDIX III	2-Chloronaphthalene		640		640	1400						N	No
APPENDIX III	2-Chlorophenol		40		40	88						N	No
APPENDIX I - ORGANIC, APPENDIX III	2-Hexanone		40		40	88						N	Yes
APPENDIX III	2-methylaniline (o-Toluidine)			5.5	5.4688		55					C	No
APPENDIX III	2-Methylnaphthalene		32		32	70						N	No
APPENDIX III	2-Naphthylamine												No
APPENDIX III	2-Nitroaniline		160		160	350						N	No
APPENDIX III	2-Nitrophenol												No
APPENDIX III	2-sec-Butyl-4,6-dinitrophenol (DNBP)		16		7	35		7	7	7		MCL	No
APPENDIX III	3,3'-Dichlorobenzidine			0.19	0.1944	1.9						C	No
APPENDIX III	3,3'-Dimethylbenzidine			0.0080	0.0080	0.08						C	No
APPENDIX III	3-Methylcholanthrene												No
APPENDIX III	4,4'-DDD		8	0.36	0.3646	18	3.6					C	No
APPENDIX III	4,4'-DDE		4	0.13	0.1287	8.8	1.3					C	No
APPENDIX III	4,4'-DDT	0.3	8	0.26	0.2574	18	2.6					C	No
APPENDIX III	4,6-Dinitro-o-cresol (DNOC)		1.3		1.28	2.8						N	No
APPENDIX III	4-Aminobiphenyl			0.0042	0.0042		0.042					C	No
APPENDIX III	4-Bromophenyl phenyl ether												No
APPENDIX III	4-Chlorophenyl phenyl ether												No
APPENDIX I - ORGANIC, APPENDIX III	4-Methyl-2-pentanone (MIBK)		640		640	1400						N	Yes
APPENDIX III	4-Nitroaniline		64	4.4	4.375	140	44					C	No

Table 3-1. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Groundwater

Closed Snipes Mountain Landfill, Yakima County, Washington

WAC 173-351 Appendix	Constituent	MTCA Groundwater Criteria (µg/L)						WA State MCL (µg/L)	Federal MCL (µg/L)	Federal MCLG (µg/L)	Other Regulatory Criteria (µg/L)	CLARC Groundwater Target Criterion	Previous Results Available
		Method A	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer						
APPENDIX III	4-Nitrophenol												No
APPENDIX III	5-Nitro-o-toluidine		320	9.7	9.7222	700	97					C	No
APPENDIX III	7,12-Dimethylbenz[a]anthracene												No
APPENDIX III	Acenaphthene		480		480	1100						N	No
APPENDIX III	Acenaphthylene												No
APPENDIX I - ORGANIC	Acetone		7200		7200	16000						N	Yes
APPENDIX III	Acetonitrile (methyl cyanide)												No
APPENDIX III	Acetophenone		800		800	1800						N	No
APPENDIX III	Acrolein		4		4	8.8						N	Yes
APPENDIX I - ORGANIC	Acrylonitrile		8	0.081	0.0810	18	0.81					C	Yes
APPENDIX III	Aldrin		0.24	0.0026	0.0026	0.53	0.026					C	No
APPENDIX II	Alkalinity (as Ca CO3)												No
APPENDIX III	Allyl chloride			2.1	2.0833		21					C	No
APPENDIX III	alpha, alpha-Dimethylphenethylamine												No
APPENDIX III	alpha-BHC			0.014	0.0139		0.14					C	No
APPENDIX II	Ammonia (NH3-N)												Yes
APPENDIX III	Anthracene		2400		2400	5300						N	No
APPENDIX I - INORGANIC	Antimony (Sb)		6.4		6	14		6	6	6		MCL	No
APPENDIX I - INORGANIC	Arsenic (As)	5	4.8	0.058	5	11	0.58	10	10	0		Background	No
APPENDIX I - INORGANIC	Barium (Ba)		3200		2000	7000		2000	2000	2000		MCL	No
APPENDIX I - ORGANIC	Benzene	5	32	0.8	5	70	8	5	5	0		MCL	Yes
APPENDIX III	Benzo[a]anthracene												No
APPENDIX III	Benzo[a]pyrene	0.1	4.8	0.023	0.2	11	0.88	0.2	0.2	0		MCL	No
APPENDIX III	Benzo[b]fluoranthene												No
APPENDIX III	Benzo[ghi]perylene												No
APPENDIX III	Benzo[k]fluoranthene												No
APPENDIX III	Benzyl alcohol		1600		1600	3500						N	No
APPENDIX I - INORGANIC	Beryllium		32		4	70		4	4	4		MCL	No
APPENDIX III	beta-BHC			0.049	0.0486		0.49					C	No
APPENDIX II	Bicarbonate (HCO3)												No
APPENDIX III	Bis(2-chloroethoxy)methane		48		48	110						N	No
APPENDIX III	Bis(2-chloroethyl)ether			0.04	0.0398		0.4						No
APPENDIX III	Bis(2-ethylhexyl) phthalate (DEHP)		320	6.3	6	700	63	6	6	0		MCL	No
APPENDIX I - ORGANIC, APPENDIX III	Bromochloromethane												Yes
APPENDIX I - ORGANIC	Bromoform		160	5.5	55.3797	350	55	80	80	0		MCL C ADJ	Yes
APPENDIX I - ORGANIC	Bromomethane (methyl bromide)		11		11.2	25						N	Yes
APPENDIX III	Butyl benzyl phthalate (BBP)		3200	46	46.0526	7000	460					C	No
APPENDIX I - ORGANIC	butyl ketone												No
APPENDIX I - INORGANIC	Cadmium (Cd)	5	8		5	18		5	5	5		MCL	No
APPENDIX II	Calcium (Ca)												No
APPENDIX I - ORGANIC	Carbon disulfide		800		800	1800						N	Yes
APPENDIX I - ORGANIC	Carbon tetrachloride		32	0.63	5	70	6.3	5	5	0		MCL	Yes
APPENDIX III	Chlordane		4	0.13	1.25	8.8	1.3	2	2	0		MCL C ADJ	No
APPENDIX III	Chlordecone (kepone)		4.8	0.0088	0.0088	11	0.088					C	No
APPENDIX I - ORGANIC, APPENDIX II	Chloride (Cl)										250000 (SMCL)	SMCL	Yes
APPENDIX I - ORGANIC	Chlorobenzene		160		100	350		100	100	100		MCL	Yes
APPENDIX III	Chlorobenzilate		320	0.8	0.7955	700	8					C	No
APPENDIX I - ORGANIC	Chloroethane (ethyl chloride)												Yes
APPENDIX I - ORGANIC	Chloroform		80	1.4	14.1129	180	14	80	80	70		MCL C ADJ	Yes
APPENDIX I - ORGANIC	Chloromethane (methyl chloride)												Yes
APPENDIX III	Chloroprene		160		160	350						N	No
APPENDIX I - INORGANIC	Chromium (Cr) (Total)	50						100	100	100			No
APPENDIX III	Chrysene												No
APPENDIX I - ORGANIC, APPENDIX III	cis-1,2-Dichloroethene		16		16	35		70	70	70		MCL N ADJ	Yes
APPENDIX I - ORGANIC	cis-1,3-Dichloropropene		240	0.44	0.4375	530	4.4					C	Yes
APPENDIX I - INORGANIC	Cobalt (Co)		4.8		4.8	11						N	No
APPENDIX I - INORGANIC	Copper (Cu)		640		640	1400		1300	1300	1300		MCL N ADJ	No
APPENDIX III	Cyanide		5		5.04	11		200	200	200		MCL N ADJ	No
APPENDIX III	DCIP												No
APPENDIX III	delta-BHC												No
APPENDIX III	Diallate			1.4	1.4344		14					C	No

Table 3-1. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Groundwater

Closed Snipes Mountain Landfill, Yakima County, Washington

WAC 173-351 Appendix	Constituent	MTCA Groundwater Criteria (µg/L)						WA State MCL (µg/L)	Federal MCL (µg/L)	Federal MCLG (µg/L)	Other Regulatory Criteria (µg/L)	CLARC Groundwater Target Criterion	Previous Results Available
		Method A	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer						
APPENDIX III	Dibenz[a,h]anthracene												No
APPENDIX III	Dibenzofuran		8		8	18						N	No
APPENDIX I - ORGANIC, APPENDIX III	Dibromochloromethane		160	0.52	5.2083	350	5.2	80	80	60		MCL C ADJ	Yes
APPENDIX III	Dichlorodifluoromethane (CFC-12)		1600		1600	3500						N	Yes
APPENDIX III	Dichlorodiisopropyl ether												No
APPENDIX III	Dieldrin		0.8	0.0055	0.0055	1.8	0.055					C	No
APPENDIX III	Diethyl phthalate		13000		12800	28000						N	No
APPENDIX III	Dimethoate		35		35.2	77						N	No
APPENDIX III	Dimethyl phthalate												No
APPENDIX III	Di-n-butyl phthalate (DBP)		1600		1600	3500						N	No
APPENDIX III	Di-n-octyl phthalate (DNoP)		160		160	350						N	No
APPENDIX III	Diphenylamine		1600		1600	3500						N	No
APPENDIX III	Disulfoton		0.64		0.64	1.4						N	No
APPENDIX III	Endosulfan I												No
APPENDIX III	Endosulfan II												No
APPENDIX III	Endosulfan sulfate		96		96	210						N	No
APPENDIX III	Endrin		4.8		2	11		2	2	2		MCL	No
APPENDIX III	Endrin aldehyde												No
APPENDIX III	Ethyl methacrylate		720		720	1600						N	No
APPENDIX III	Ethyl methanesulfonate												No
APPENDIX I - ORGANIC	Ethylbenzene	700	800		700	1800		700	700	700		MCL	Yes
APPENDIX I - ORGANIC	Ethylene dichloride												No
APPENDIX III	Famphur												No
APPENDIX III	Fluoranthene		640		640	1400						N	No
APPENDIX III	Fluorene		320		320	700						N	No
APPENDIX III	gamma-BHC (lindane)	0.2	4.8	0.08	0.2	11	0.8	0.2	0.2	0.2		MCL	No
APPENDIX III	Heptachlor		4	0.0097	0.0972	8.8	0.097	0.4	0.4	0		MCL C ADJ	No
APPENDIX III	Heptachlor epoxide		0.1	0.0048	0.0481	0.23	0.048	0.2	0.2	0		MCL C ADJ	No
APPENDIX III	Hexachlorobenzene		6.4	0.027	0.2734	14	0.27	1	1	0		MCL C ADJ	No
APPENDIX III	Hexachlorobutadiene		8	0.56	0.5609	18	5.6					C	Yes
APPENDIX III	Hexachlorocyclopentadiene		48		48	110		50	50	50		MCL N ADJ	No
APPENDIX III	Hexachloroethane		5.6	1.1	1.0938	12	11					C	No
APPENDIX III	Hexachloropropene												No
	Hexafluoropropylene oxide dimer acid (HFPO-DA; GenX)		0.024		0.01	0.053			0.01	0.01		MCL	No
APPENDIX III	Indeno[1,2,3-cd]pyrene												No
APPENDIX I - ORGANIC, APPENDIX III	Iodomethane (methyl iodide)												Yes
APPENDIX II	Iron (Fe) (Dissolved)		11000		300	25000					300 (SMCL)	SMCL	Yes
APPENDIX III	Isobutyl alcohol		2400		2400	5300						N	No
APPENDIX III	Isodrin												No
APPENDIX III	Isophorone		3200	92	92.1053	7000	920					C	No
APPENDIX III	Isosafrole												No
APPENDIX I - INORGANIC	Lead (Pb)	15			15			15	15	0		MCL	No
APPENDIX II	Magnesium (Mg)												No
APPENDIX II	Manganese (Mn) (Dissolved)		750		50	1600					50 (SMCL)	SMCL	Yes
APPENDIX III	m-Cresol		800		800	1800						N	No
APPENDIX III	m-Dinitrobenzene		1.6		1.6	3.5						N	No
APPENDIX III	Mercury (Hg)	2			2			2	2	2		MCL	No
APPENDIX III	Methacrylonitrile		0.8		0.8	1.8						N	No
APPENDIX III	Methapyrilene												No
APPENDIX III	Methoxychlor		80		40	180		40	40	40		MCL	No
APPENDIX III	Methyl methacrylate		11000		11200	25000						N	No
APPENDIX III	Methyl methanesulfonate												No
APPENDIX III	Methyl parathion		4		4	8.8						N	No
APPENDIX I - ORGANIC	Methylene bromide		80		80	180						N	Yes
APPENDIX I - ORGANIC	Methylene chloride	5	48	5.8	5	110	220	5	5	0		MCL	Yes
APPENDIX III	m-Nitroaniline												No
APPENDIX III	Naphthalene	160	160		160	350						N	Yes
APPENDIX I - INORGANIC	Nickel (Ni)		320		320	700						N	No
APPENDIX I - INORGANIC	Nitrate		26000			56000		10000	10000	10000			Yes
APPENDIX III	Nitrobenzene		16		16	35						N	No
APPENDIX III	N-Nitrosodiethylamine			0.00015	0.000154		0.0058					C	No

Table 3-1. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Groundwater

Closed Snipes Mountain Landfill, Yakima County, Washington

WAC 173-351 Appendix	Constituent	MTCA Groundwater Criteria (µg/L)						WA State MCL (µg/L)	Federal MCL (µg/L)	Federal MCLG (µg/L)	Other Regulatory Criteria (µg/L)	CLARC Groundwater Target Criterion	Previous Results Available
		Method A	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer						
APPENDIX III	N-Nitrosodimethylamine		0.064	0.00023	0.000226	0.14	0.0086					C	No
APPENDIX III	N-Nitroso-di-n-butylamine			0.0081	0.008102		0.081					C	No
APPENDIX III	N-Nitrosodiphenylamine			18	17.857		180					C	No
APPENDIX III	N-Nitrosodipropylamine			0.013	0.0125		0.13					C	No
APPENDIX III	N-Nitrosomethylethylamine												No
APPENDIX III	N-Nitrosopiperidine												No
APPENDIX III	N-Nitrosopyrrolidine			0.042	0.0417		0.42					C	No
APPENDIX III	o-Cresol		800		800	1800						N	No
APPENDIX III	p-(Dimethylamino)azobenzene												No
APPENDIX III	Parathion		96		96	210						N	No
APPENDIX III	p-Chloroaniline		64	0.44	0.4375	140	4.4					C	No
APPENDIX III	p-Chloro-m-cresol (chlorocresol)		1600		1600	3500						N	No
APPENDIX III	p-Cresol		1600		1600	3500						N	No
APPENDIX III	Pentachlorobenzene		6.4		6.4	14						N	No
APPENDIX III	Pentachloronitrobenzene		24	0.17	0.1683	53	1.7					C	No
APPENDIX III	Pentachlorophenol		80	0.22	1	180	2.2	1	1	0		MCL	No
	Perfluorobutanesulfonic acid (PFBS)		4.8		0.345	11			HI	HI	0.345 (SAL)	SAL	No
	Perfluorobutanoic acid (PFBA)		8		8	18						N	No
	Perfluorohexanesulfonic acid (PFHxS)		0.16		0.01	0.34			0.01	0.01	0.065 (SAL)	MCL	No
	Perfluorohexanoic acid (PFHxA)		8		8	18						N	No
	Perfluorononanoic acid (PFNA)		0.04		0.009	0.088			0.01	0.01	0.009 (SAL)	SAL	No
	Perfluorooctanesulfonic acid (PFOS)		0.048		0.004	0.11			0.004	0	0.015 (SAL)	MCL	No
	Perfluorooctanoic acid (PFOA)		0.048		0.004	0.11			0.004	0	0.01 (SAL)	MCL	No
APPENDIX III	Phenacetin												No
APPENDIX III	Phenanthrene												No
APPENDIX III	Phenol		4800		4800	11000						N	No
APPENDIX III	Phorate		3.2		3.2	7						N	No
APPENDIX III	Polychlorinated biphenyls (PCBs)	0.1		0.022	0.2188		0.22	0.5	0.5	0		MCL C ADJ	No
APPENDIX II	Potassium (K)												No
APPENDIX III	p-Phenylenediamine		16		16	35						N	No
APPENDIX III	Pronamide		1200		1200	2600						N	No
APPENDIX III	Propionitrile												No
APPENDIX III	Pyrene		240		240	530						N	No
APPENDIX III	Safrole												No
APPENDIX I - INORGANIC	Selenium (Se)		80		50	180		50	50	50		MCL	No
APPENDIX I - INORGANIC	Silver (Ag)		80		80	180					100 (SMCL)	MCL N ADJ	No
APPENDIX II	Sodium (Na)												No
APPENDIX I - ORGANIC	Styrene		1600		100	3500		100	100	100		MCL	Yes
APPENDIX II	Sulfate (SO4)												Yes
APPENDIX III	Sulfide												No
APPENDIX III	sym-Trinitrobenzene												No
APPENDIX I - ORGANIC, APPENDIX III	Tetrachloroethene (PCE)	5	48	21	5	110	210	5	5	0		MCL	Yes
APPENDIX I - INORGANIC	Thallium (Tl)		0.16		0.16	0.35		2	2	0.5		MCL N ADJ	No
APPENDIX III	Tin (Sn)		9600		9600	21000						N	No
APPENDIX I - ORGANIC	Toluene	1000	640		640	1400		1000	1000	1000		MCL N ADJ	Yes
APPENDIX II	Total Dissolved Solids (TDS)												No
APPENDIX II	Total Organic Carbon (TOC)												Yes
APPENDIX II	Total Suspended Solids (TSS)												No
APPENDIX III	Toxaphene		1.4	0.08	0.7955	3.2	0.8	3	3	0		MCL C ADJ	Yes
APPENDIX I - ORGANIC, APPENDIX III	trans-1,2-Dichloroethene		160		100	350		100	100	100		MCL	Yes
APPENDIX I - ORGANIC	trans-1,3-Dichloropropene		240	0.44	0.4375	530	4.4					C	Yes
APPENDIX I - ORGANIC	trans-1,4-Dichloro-2-butene												Yes
APPENDIX I - ORGANIC	Trichloroethene (TCE)	5	4	0.54	4	8.8	9.5	5	5	0		MCL N ADJ	Yes
APPENDIX I - ORGANIC	Trichlorofluoromethane (CFC-11)		2400		2400	5300						N	Yes
APPENDIX I - INORGANIC	Vanadium (V)		80		80	180						N	No
APPENDIX I - ORGANIC	Vinyl acetate		8000		8000	18000						N	Yes
APPENDIX I - ORGANIC, APPENDIX III	Vinyl chloride	0.2	24	0.029	0.2917	53	0.29	2	2	0		MCL C ADJ	Yes
APPENDIX I - ORGANIC, APPENDIX III	Xylenes	1000	1600		1600	3500		10000	10000	10000		MCL N ADJ	Yes
APPENDIX I - INORGANIC	Zinc (Zn)		4800		4800	11000					5000 (SMCL)	MCL N ADJ	Yes

Table 3-1. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Groundwater
 Closed Snipes Mountain Landfill, Yakima County, Washington

WAC 173-351 Appendix	Constituent	MTCA Groundwater Criteria (µg/L)						WA State MCL (µg/L)	Federal MCL (µg/L)	Federal MCLG (µg/L)	Other Regulatory Criteria (µg/L)	CLARC Groundwater Target Criterion	Previous Results Available
		Method A	Method B Noncancer	Method B Cancer	Method B Potable GW	Method C Noncancer	Method C Cancer						

Notes:
 µg/L: micrograms per liter
 Background: the Washington groundwater background concentration as referenced in MTCA Table 720-1
 BHC: hexachlorocyclohexane
 C: Carcinogen, Method B calculation using MTCA Equation 720-2
 CaCO3: calcium carbonate
 CLARC: cleanup levels and risk calculation; a compendium of technical information related to calculating cleanup levels under MTCA Regulation, Chapter 173-340 WAC
 GW: groundwater
 MCL: maximum contaminant level
 MCLG: maximum contaminant level goal
 MCL C ADJ or MCLG C ADJ: MCL or MCLG adjusted to a lower concentration so that the excess cancer risk is one in one hundred thousand (1 x 10⁻⁵). See WAC 173-340-720(7)(b).
 MCL N ADJ or MCLG N ADJ: MCL or MCLG adjusted to a lower concentration so that the noncancer hazard index is no greater than one (1). See WAC 173-340-720(7)(b).
 N: Noncarcinogen, Method B calculation using MTCA Equation 720-1
 SAL: state action level
 SMCL: secondary maximum contaminant levels

Table 3-2. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Soil

Closed Snipes Mountain Landfill, Yakima County, Washington

Chemical Data Group	Constituent	MTCA Soil Criteria (mg/kg)			
		Method A	Method B Noncancer	Method B Cancer	Protective of Groundwater, Vadose
VOC	1,1,1,2-Tetrachloroethane		2400	38.0	0.0098
VOC	1,1,1-Trichloroethane (methyl chloroform)	2	160000		1.5
VOC	1,1,2,2-Tetrachloroethane		1600	5.00	0.0012
VOC	1,1,2-Trichloroethane		320	18	0.017
VOC	1,1,2-Trichloropropane		400		0.24
VOC	1,1-Dichloroethane		16000	180	0.041
VOC	1,1-Dichloroethene		4000		0.046
VOC	1,2,3-Trichlorobenzene		64		0.2
VOC	1,2,3-Trichloropropane		320	0.0063	0.0000024
SVOC	1,2,4,5-Tetrachlorobenzene		24		0.12
VOC	1,2,4-Trichlorobenzene		800	34	0.56
VOC	1,2-Dibromoethane (EDB)	0.005	720	0.500	0.00027
VOC	1,2-Dichlorobenzene		7200		7
VOC	1,2-Dichloroethane (EDC)		480	11	0.023
VOC	1,2-Dichloropropane (propylene dichloride)		3200	27	0.025
VOC	1,3-Dichlorobenzene				
VOC	1,3-Dichloropropane (trimethylene dichloride)		1600		0.88
VOC	1,4-Dichlorobenzene		5600	190	1.2
VOC	1,4-dioxane		2400	10	0.0018
VOC	2-Butanone (MEK)		48000		20
VOC	2-Hexanone		400		0.17
VOC	2-methylaniline (o-Toluidine)			63	0.034
SVOC	2-Nitroaniline		800		1
SVOC	3,3'-Dichlorobenzidine			2.2	0.013
SVOC	3,3'-Dimethylbenzidine			0.0910	0.00054
SVOC	4-Aminobiphenyl			0.048	0.00022
VOC	4-Methyl-2-pentanone (MIBK)		6400		2.7
SVOC	4-Nitroaniline		320	50	0.027
SVOC	5-Nitro-o-toluidine	1600	110		0.0045
VOC	Acetone		72000		29
VOC	Acetonitrile (methyl cyanide)				
VOC	Acetophenone		8000		4
VOC	Acrolein		40		0.016
VOC	Acrylonitrile		80	1.9	0.00034
VOC	Allyl chloride			48	0.011
Metal	Antimony (Sb)		32		5.4
Metal	Arsenic (As)	20	24	0.67	2.9
Metal	Barium (Ba)		16000		1600
SVOC	Benzene	0.03	320	18.0	0.027
SVOC	Benzyl alcohol		8000		7.1
Metal	Beryllium (Be)		160		63
SVOC	Bis(2-chloroethoxy)methane		240		0.21
VOC	Bis(2-chloroethyl)ether			0.91	0.00022
VOC	Bromochloromethane				
VOC	Bromoform		1600	130	0.36
VOC	Bromomethane (methyl bromide)		110		0.051
Metal	Cadmium (Cd)	2	80		0.69
Metal	Calcium (Ca)				
VOC	Carbon disulfide		8000		4.1
VOC	Carbon tetrachloride		320	14	0.041
VOC	Chlorobenzene		1600		0.86
VOC	Chloroethane (ethyl chloride)				
VOC	Chloroform		800	32	0.074
VOC	Chloromethane (methyl chloride)				
VOC	Chloroprene		1600		1.2
Metal	Chromium (Cr) (III)	2000	120000		480000
Metal	Chromium (Cr) (VI)	19	240	0.38	0.018
VOC	cis-1,2-Dichloroethene		160		0.079
VOC	cis-1,3-Dichloropropene		2400	10	0.002
Metal	Cobalt (Co)		24		4.3

Table 3-2. Contaminants of Potential Concern to be Evaluated at Snipes Mountain Landfill, Soil

Closed Snipes Mountain Landfill, Yakima County, Washington

Chemical Data Group	Constituent	MTCA Soil Criteria (mg/kg)			
		Method A	Method B Noncancer	Method B Cancer	Protective of Groundwater, Vadose
Metal	Copper (Cu)		3200		280
VOC	Dibromochloromethane		1600	12	0.024
VOC	Dichlorodifluoromethane (CFC-12)		16000		38
VOC	Ethyl methacrylate		7200		3.1
VOC	Ethylbenzene	6	8000		5.9
VOC	Hexachlorobutadiene		80	13	0.012
VOC	Hexachloroethane		56	25	0.009
VOC	Iodomethane (methyl iodide)				
Metal	Iron (Fe) (Dissolved)		56000		150
VOC	Isobutyl alcohol		24000		9.7
SVOC	Isophorone		16000	1100	0.49
Metal	Lead (Pb)	250			3000
Metal	Magnesium (Mg)				
Metal	Manganese (Mn) (Dissolved)		3700		65
Metal	Mercury (Hg)	2			2.1
VOC	Methacrylonitrile		8		0.0034
VOC	Methyl methacrylate		110000		47
VOC	Methyl tert-butyl ether (MTBE)	0.1		560	0.1
VOC	Methylene bromide		800		0.36
VOC	Methylene chloride	0.02	480	94	0.022
SVOC	m-Nitroaniline				
SVOC	m-Phenylenediamine		480		0.45
Metal	Nickel (Ni)		1600		420
SVOC	N-Nitrosodiethylamine			0.0013	0.0000087
SVOC	N-Nitrosodimethylamine		0.64	0.0037	0.000001
SVOC	N-Nitroso-di-n-butylamine			0.19	0.00018
SVOC	N-Nitrosodiphenylamine			200	1
SVOC	N-Nitrosodipropylamine			0.14	0.00012
SVOC	N-Nitrosopyrrolidine			0.48	0.00024
SVOC	o-Phenylenediamine		320	8.3	0.0034
SVOC	p-Chloroaniline		320	5	0.0027
SVOC	Pentachlorobenzene		64		4.1
Metal	Potassium (K)				
SVOC	p-Phenylenediamine		80		0.075
Metal	Selenium (Se)		400		5.2
Metal	Silver (Ag)		400		14
Metal	Sodium (Na)				
VOC	Styrene		16000		2.2
VOC	Tetrachloroethene (PCE)	0.05	480	480	0.05
Metal	Thallium (Tl)		0.8		0.23
Metal	Tin (Sn)		48000		48000
VOC	Toluene	7	6400		4.5
VOC	trans-1,2-Dichloroethene		1600		0.52
VOC	trans-1,3-Dichloropropene		2400	10	0.002
VOC	trans-1,4-Dichloro-2-butene				
VOC	Trichloroethene (TCE)	0.03	40	12	0.025
VOC	Trichlorofluoromethane (CFC-11)		24000		23
Metal	Vanadium (V)		400		1600
VOC	Vinyl acetate		80000		33
VOC	Vinyl chloride		240	0.67	0.0017
VOC	Xylenes	9	16000		14
Metal	Zinc (Zn)		24000		6000

Notes:

mg/kg: milligrams per kilogram

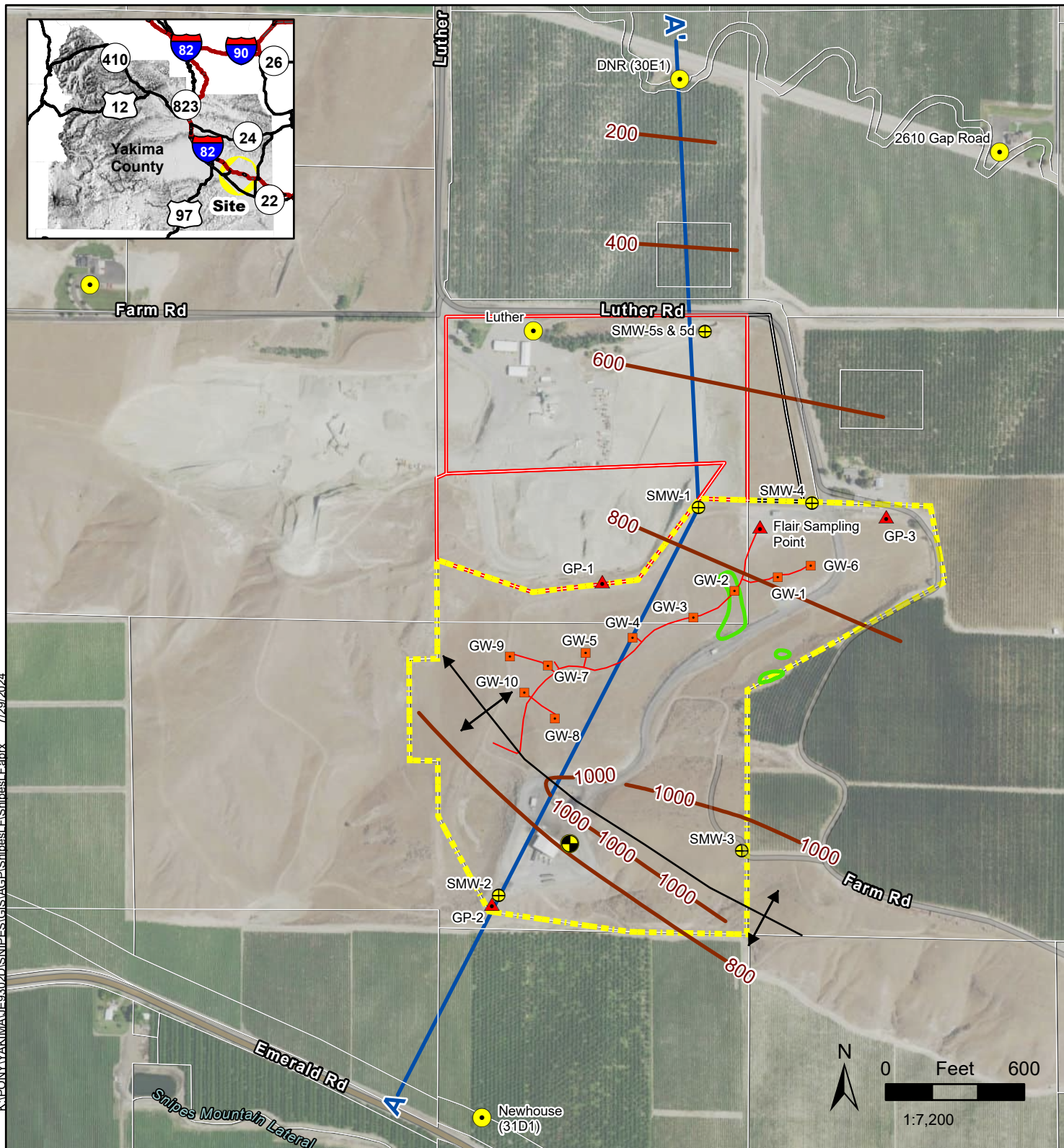
CLARC: cleanup levels and risk calculation; a compendium of technical information related to calculating cleanup levels under MTCA Regulation, Chapter 173-340 WAC (accessed 8/2024)

Method A: Unrestricted Land Use

Method B: Direct Contact

Protective of Groundwater, Vadose from CLARC using default assumptions

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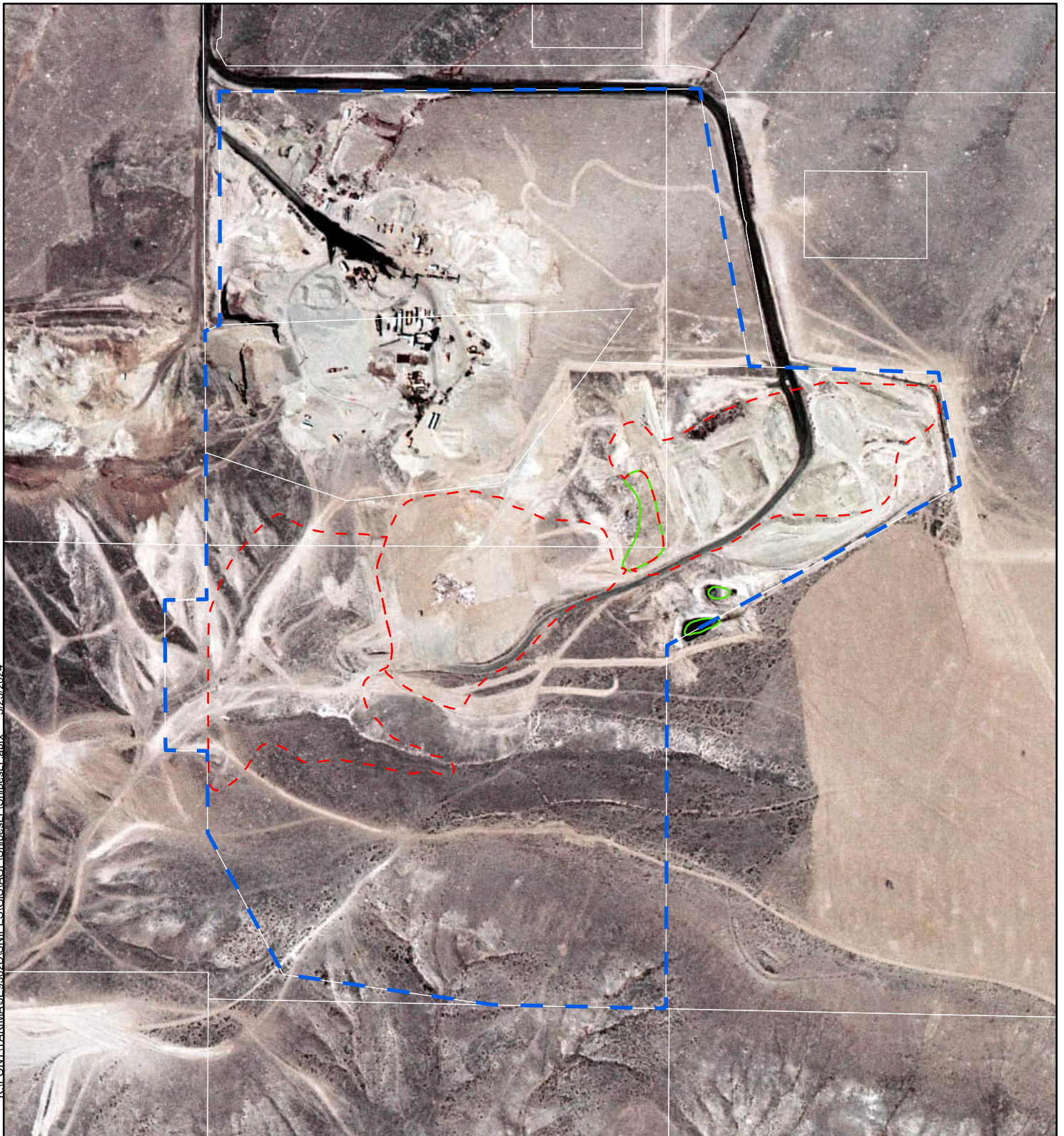
- | | |
|--------------------------------------|--|
| ⊕ Monitoring Well | — Gas Extraction Piping |
| ■ Gas Well | --- County Property Boundary |
| ▲ Gas Probes & Gas Flair | ▭ DNR Parcel within Site |
| ● Offsite Well | ▭ Luther Parcels within Site |
| ⦿ Onsite Supply Well | ▭ Parcels |
| — Cross Section Alignment | — Elevation contour on top of |
| ▭ Former Seepage Ponds (Approximate) | — Tem Geologic Unit; Dashed where removed. |
| ↕ Anticline Fold Axis | |

Figure 1-1
Closed Snipes Mountain
Landfill Site Map

Closed Snipes Mountain Landfill
Yakima County

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-  Site Boundary
-  Septage Ponds
-  Approximate Extent of Refuse



0 Feet 400

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Figure 1-2
Site Vicinity Aerial Photo
1977

Closed Snipes Mountain Landfill
Yakima County

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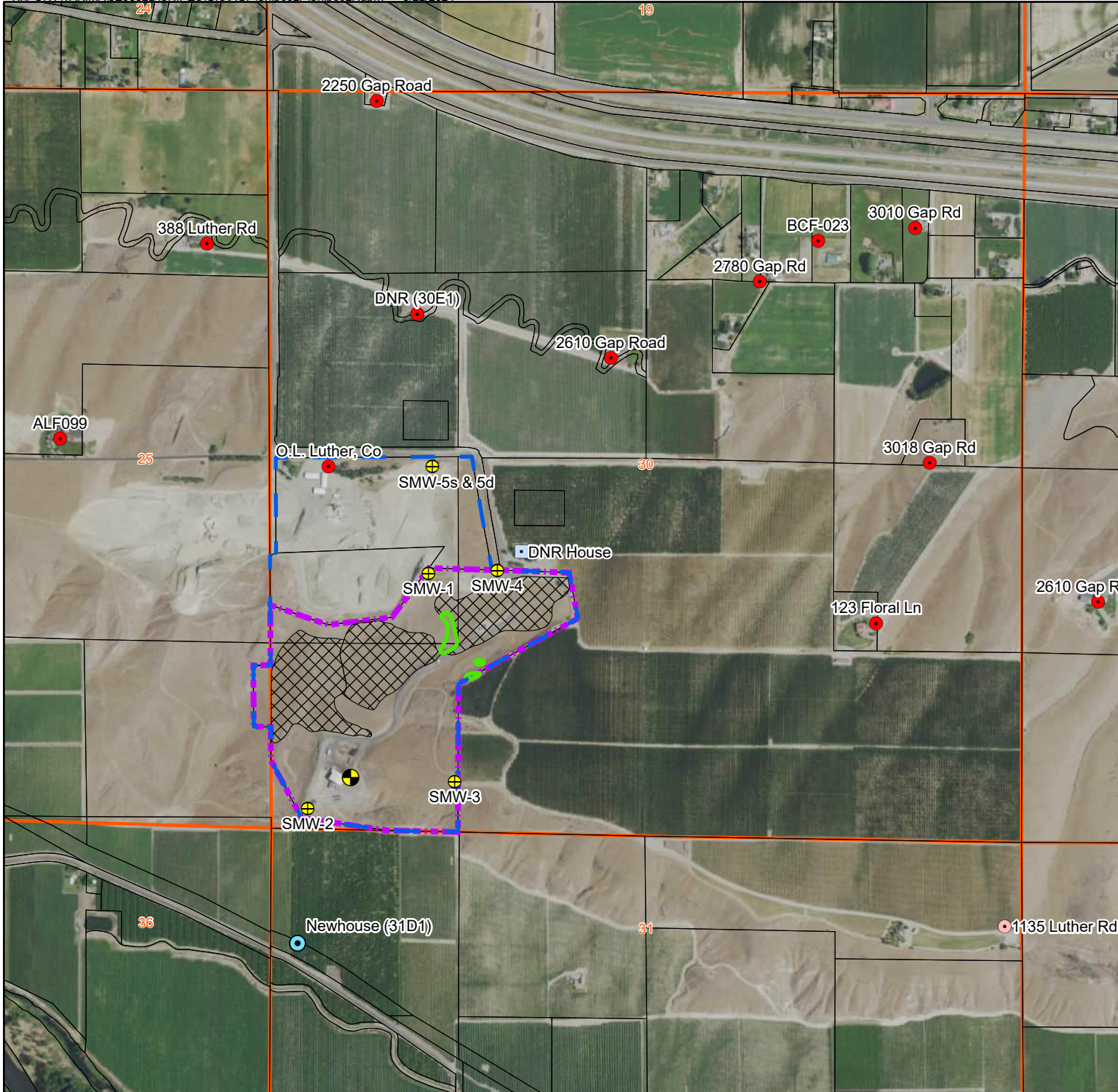
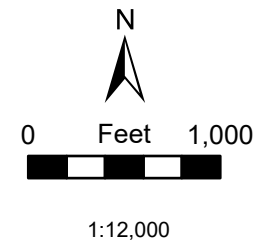


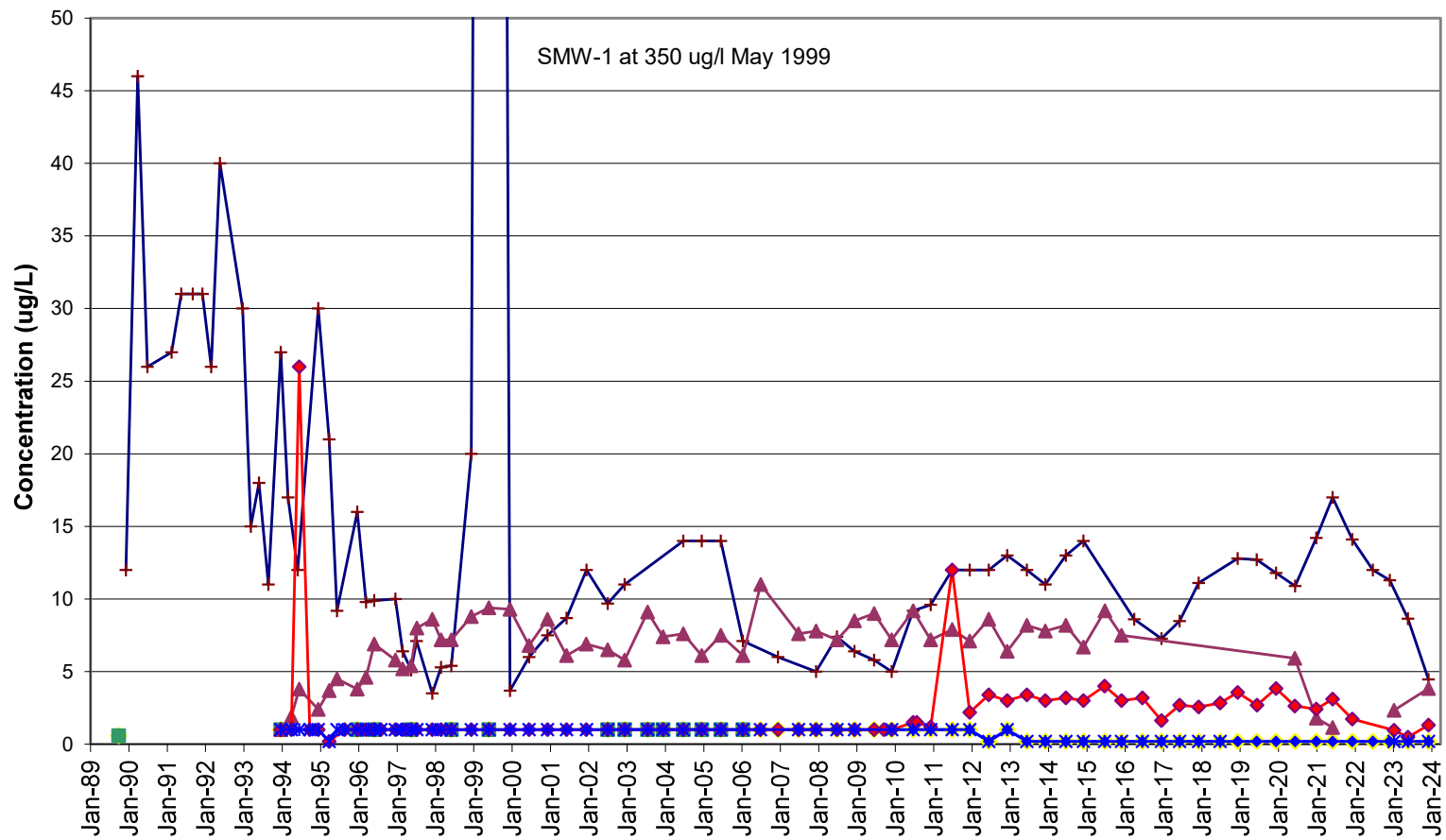
Figure 1-3
Surrounding Residential
and Irrigation Wells,
Snipes Mountain Landfill

Closed Snipes Mountain Landfill
Yakima County

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-  Monitoring Well
-  Offsite Well
-  Future Sample Well
-  Sample Point
-  Offsite Well (water elevation only)
-  Onsite Supply Well
-  Sections (T10N/R22E)
-  Site Boundary
-  County Property Boundary
-  Refuse
-  Former Seepage Ponds (Approximate)



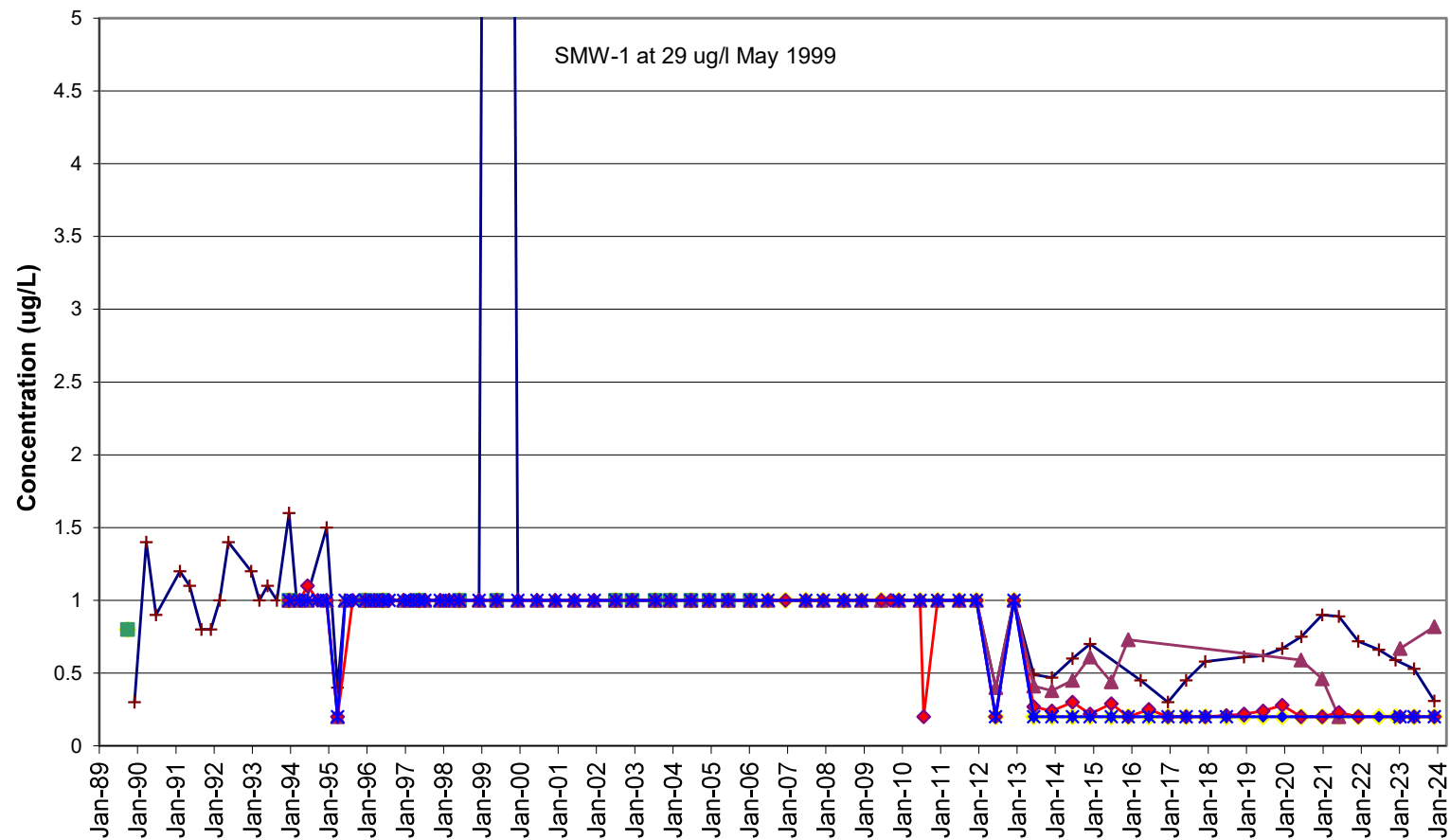


SMW-1 SMW-2 SMW-3
 SMW-4 SMW-5S SMW-5D

Non-detects plotted at reporting limit

**Figure 2-1. Tetrachloroethene (PCE)
Time Series Plot**

Closed Snipes Mountain Landfill
Yakima County

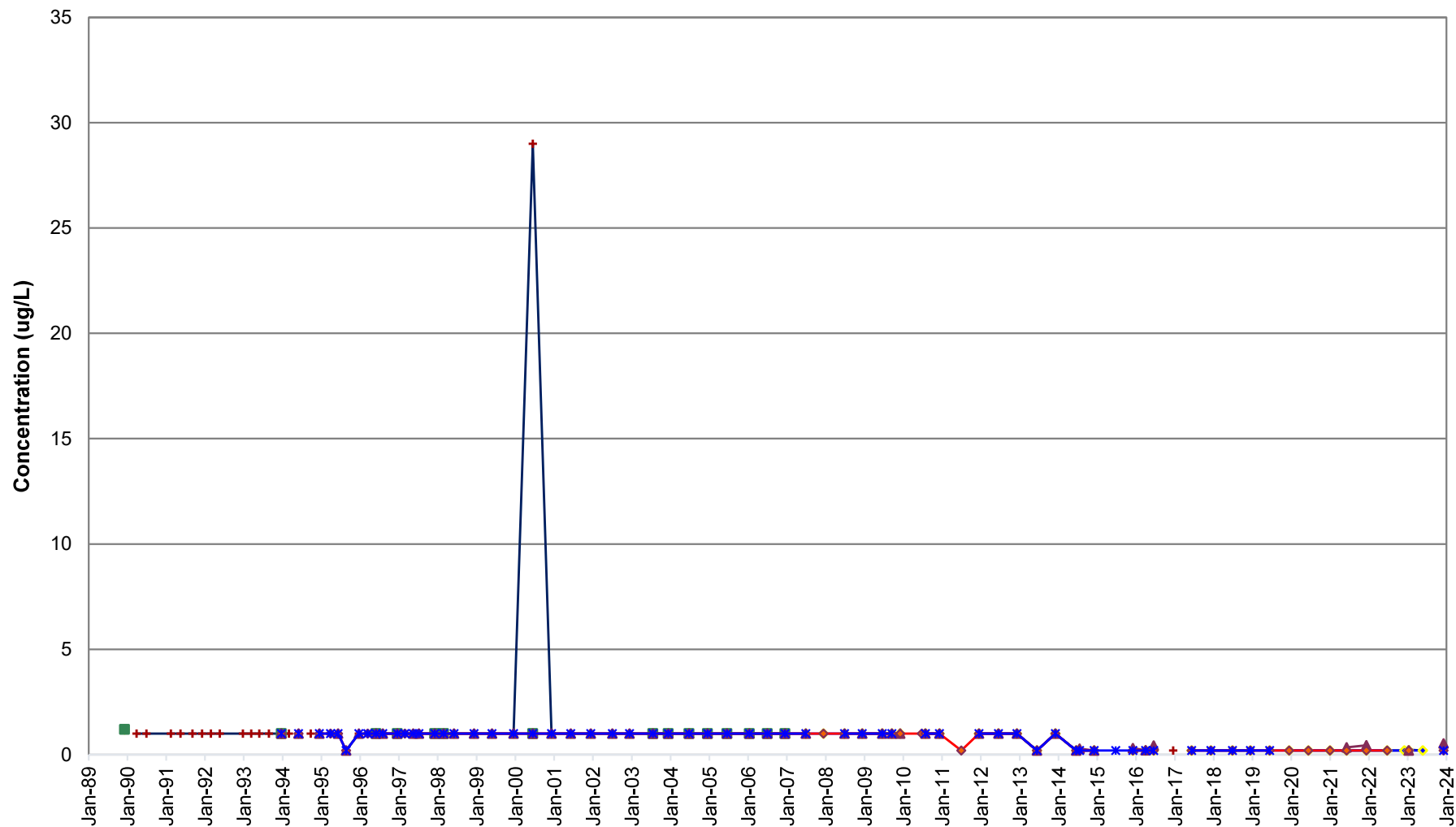


—+— SMW-1 —●— SMW-2 —■— SMW-3
 —▲— SMW-4 —◆— SMW-5S —*— SMW-5D

Non-detects plotted at reporting limit

**Figure2-2. Trichloroethene (TCE)
Time Series Plot**

Closed Snipes Mountain Landfill
Yakima County



SMW-1 (blue line with '+')
 SMW-2 (blue line with 'x')
 SMW-3 (green line with square)
 SMW-4 (purple line with triangle)
 SMW-5S (red line with diamond)
 SMW-5D (blue line with asterisk)

Figure 2-3. cis-1,2-dichloroethane (DCE) Time Series Plot

Closed Snipes Mountain Landfill
Yakima County

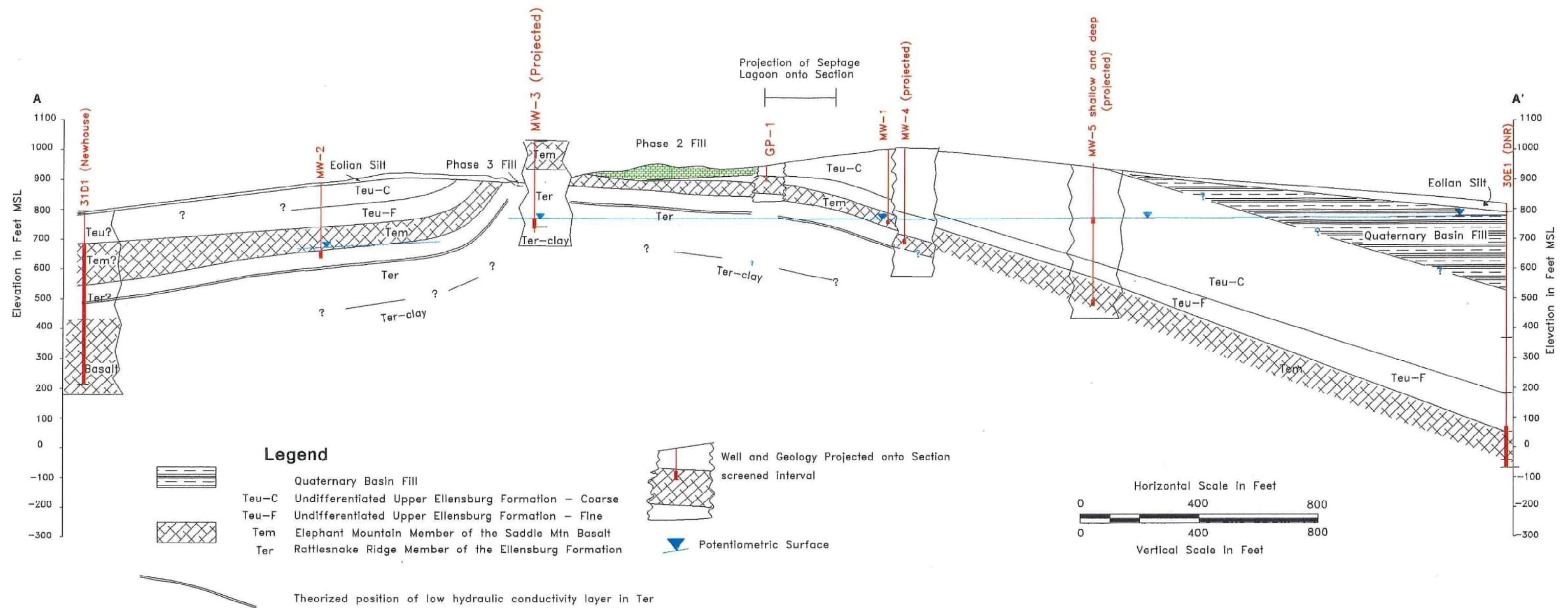
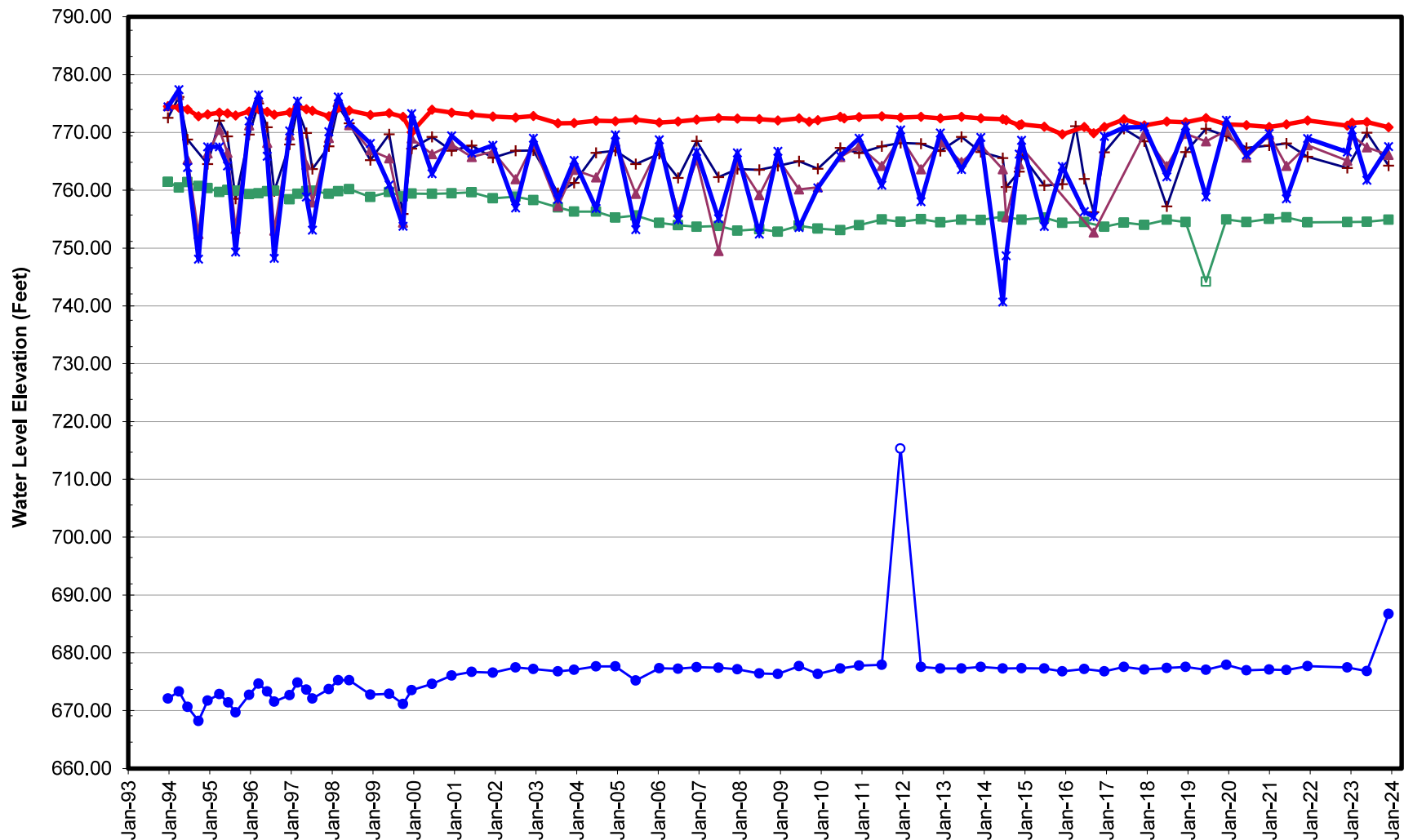


Figure 3-1
Cross Section A-A'



+ SMW-1 ● SMW-2 ■ SMW-3
 ▲ SMW-4 ◆ SMW-5s ✕ SMW-5d

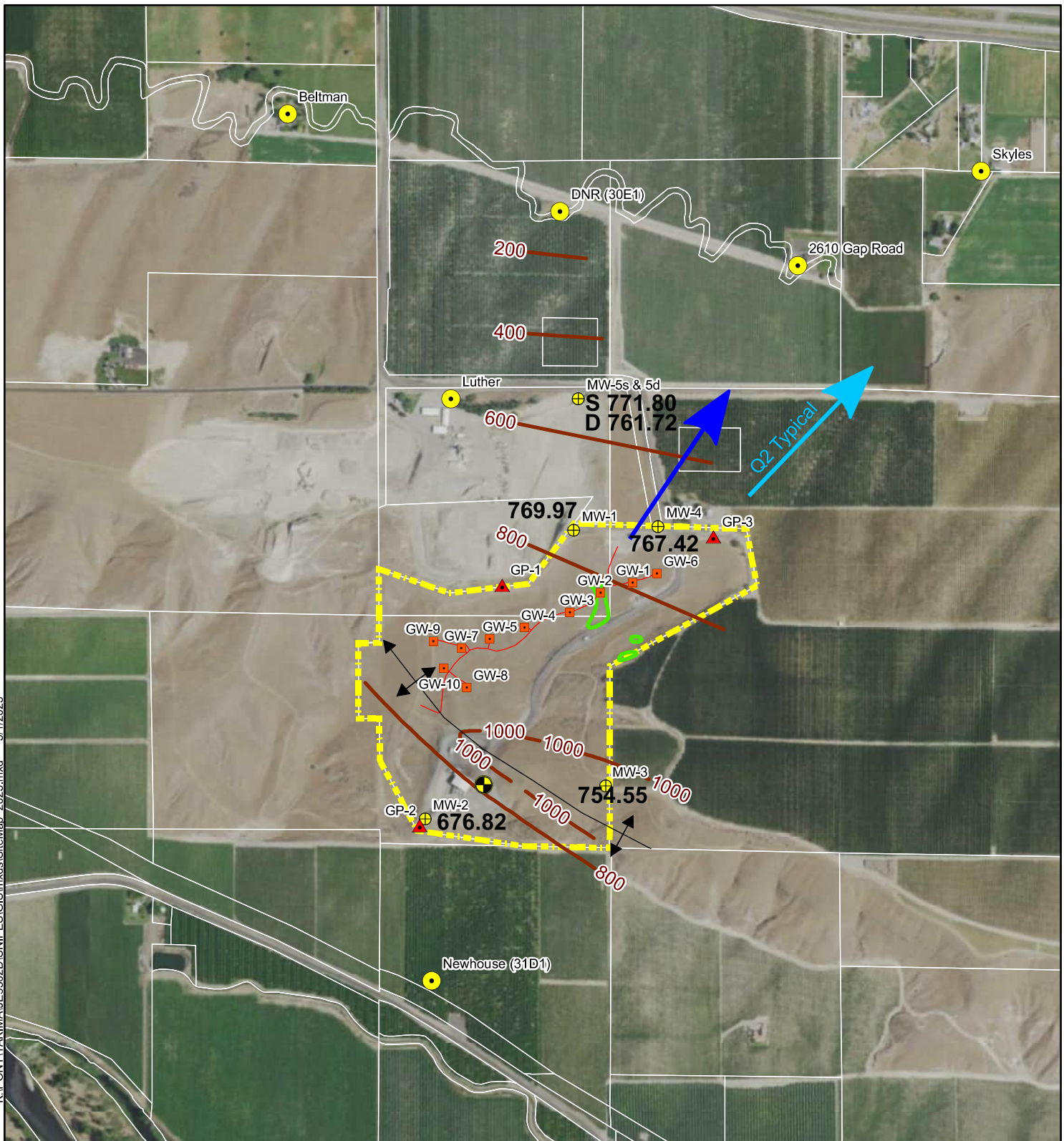
Hollow data points indicate suspect measurements.

Figure 3-2. Hydrographs, 1993-2023

Closed Snipes Mountain Landfill
Yakima County

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758.53 Groundwater Elevation and Flow Direction

- Monitoring Well
- Gas Well
- Gas Probes & Gas Flair
- Offsite Well
- Onsite Supply Well
- Elevation contour on top of Tem Geologic Unit; Dashed where removed.
- Gas Extraction Piping
- County Property Boundary
- Former Seepage Ponds (Approximate)



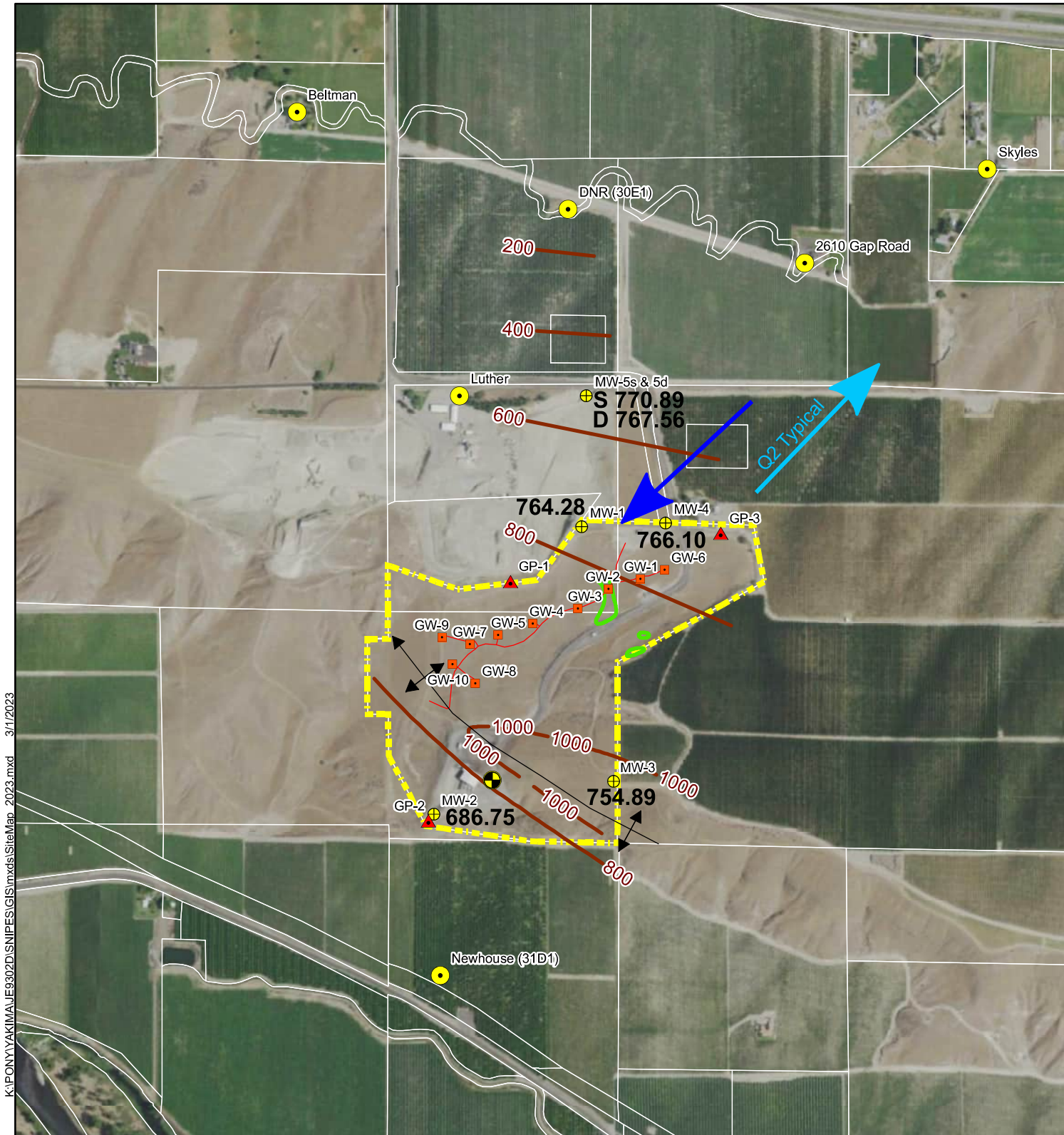
0 Feet 1,000

1 inch = 800 feet

Figure 3-3.
Groundwater Flow and
Structural Contour Map
2023 Q2

Snipes Mountain Landfill,
Yakima County

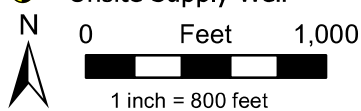
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758.53 Groundwater Elevation and Flow Direction

- Monitoring Well
- Gas Well
- Gas Probes & Gas Flair
- Offsite Well
- Onsite Supply Well
- Elevation contour on top of Tem Geologic Unit; Dashed where removed.
- Gas Extraction Piping
- County Property Boundary
- Former Seepage Ponds (Approximate)



**Figure 3-4.
Groundwater Flow and
Structural Contour Map
2023 Q4**

Snipes Mountain Landfill,
Yakima County

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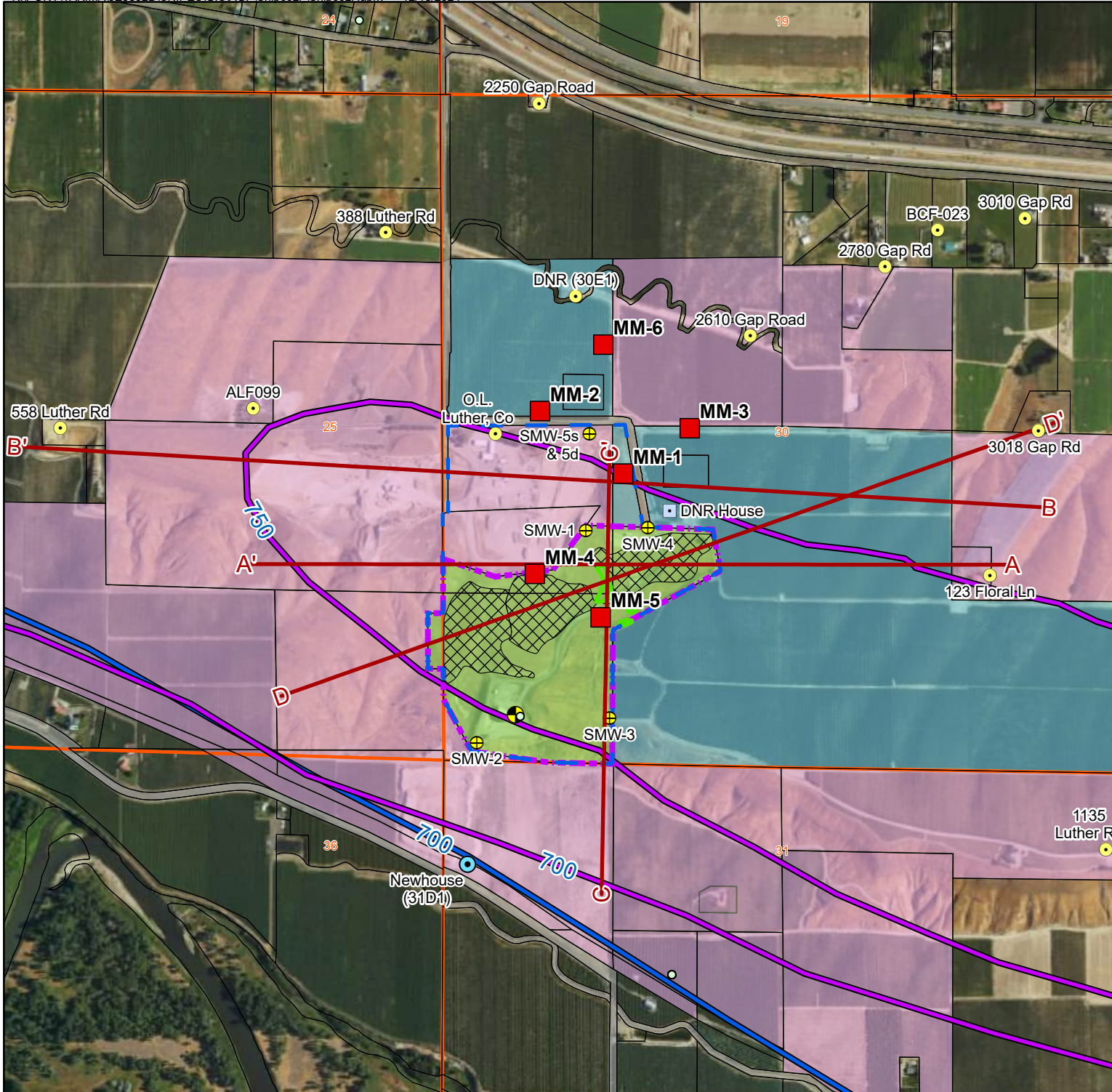
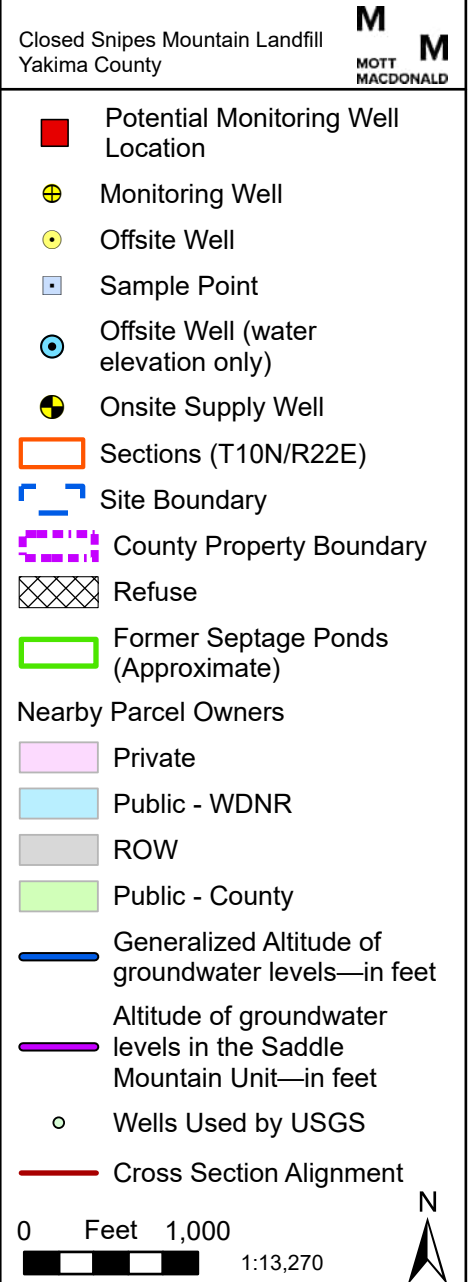
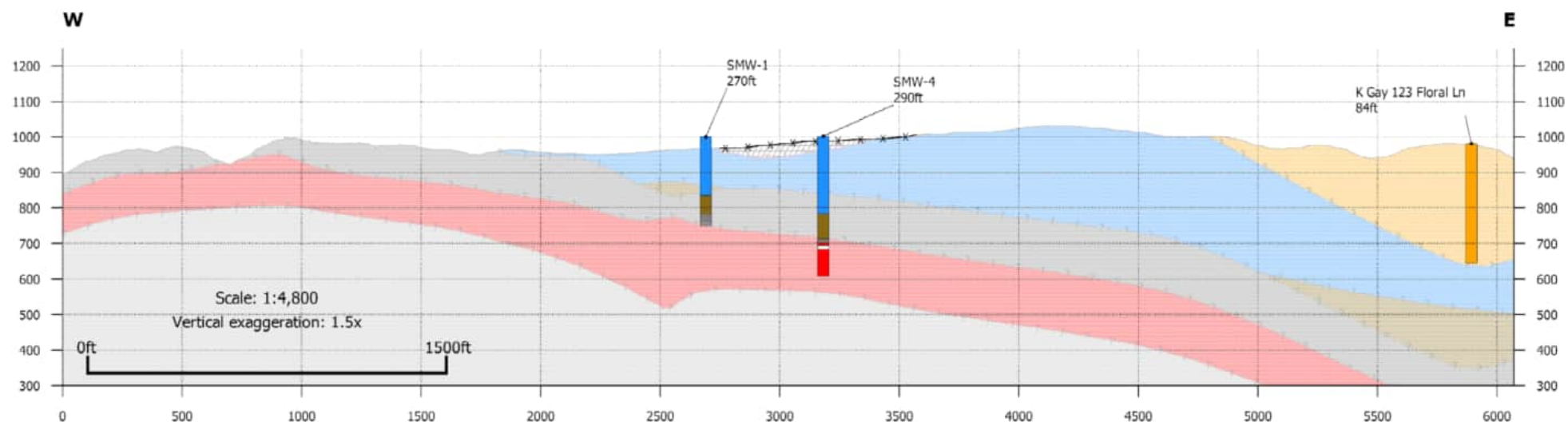


Figure 4-1
Surrounding Property
Ownership and Potential
Monitoring Well Locations





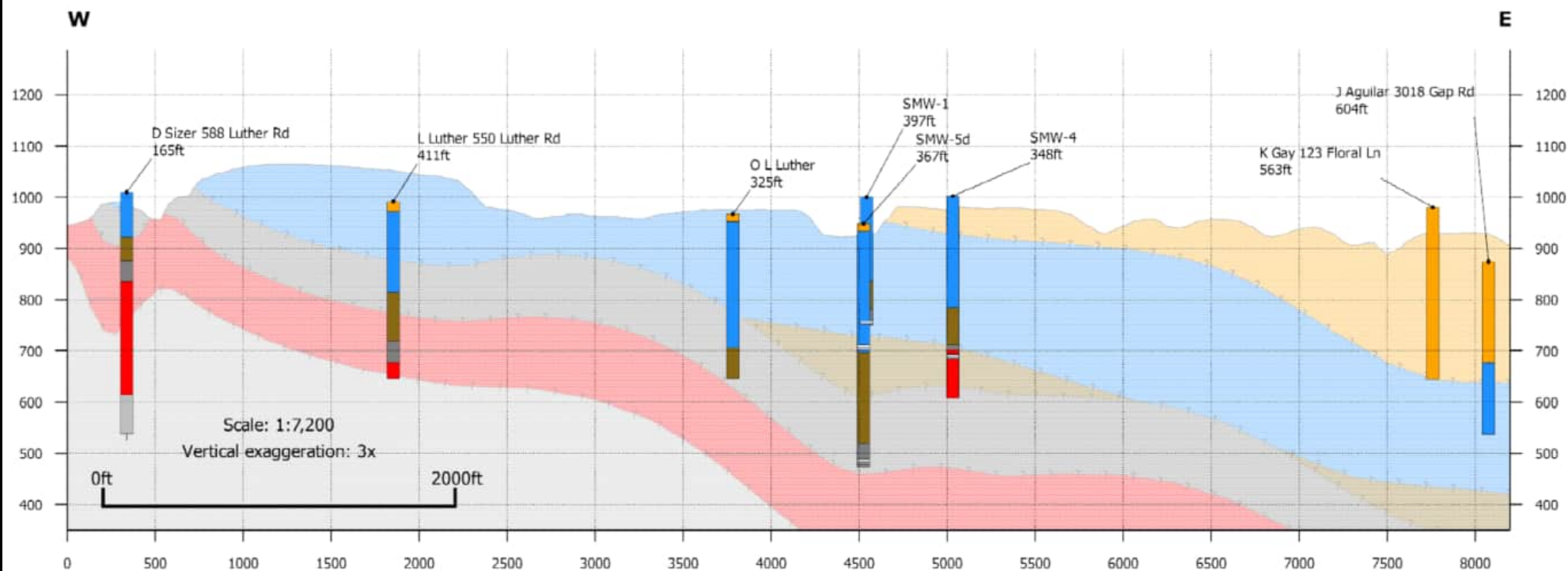
- Landfill Material
- Quaternary Loess, Clay, Silt, some flood deposits
- Tem: Elephant Mountain Member of the Saddle Mountain Basalt
- Teu-F: Undifferentiated Upper Ellensburg Formation - Fine
- Tertiary Basalt
- Ter: Rattlesnake Ridge Member of the Ellensburg Formation
- Teu-C: Undifferentiated Upper Ellensburg Formation - Coarse

Perforation Screen

- Landfill Footprint (on Topography)
- Bottom of Landfill (Historical Topography)
- Interpreted geological contacts

Figure 4-2
Geologic Model: A-A'

Closed Snipes Mountain Landfill,
Yakima County



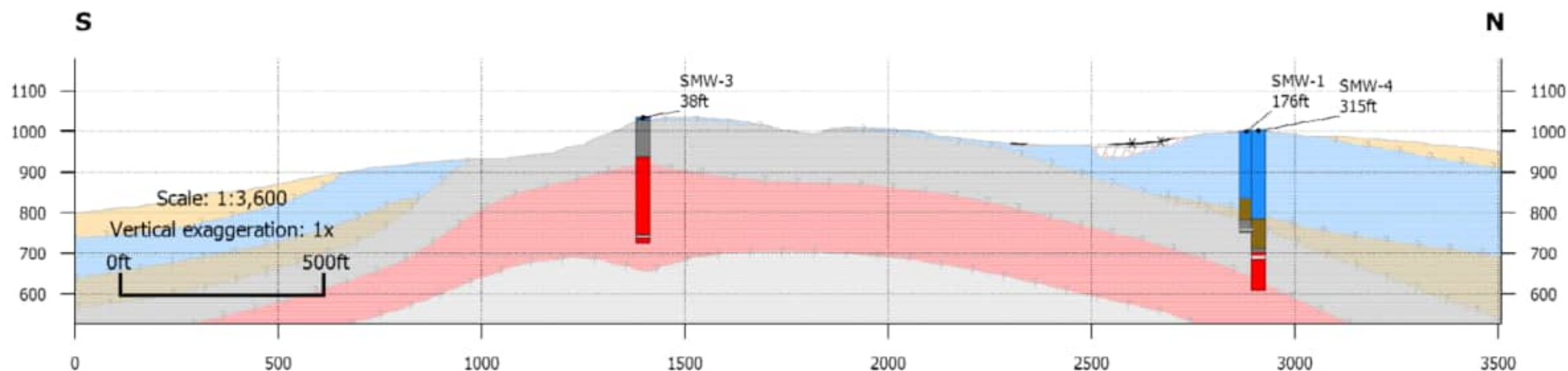
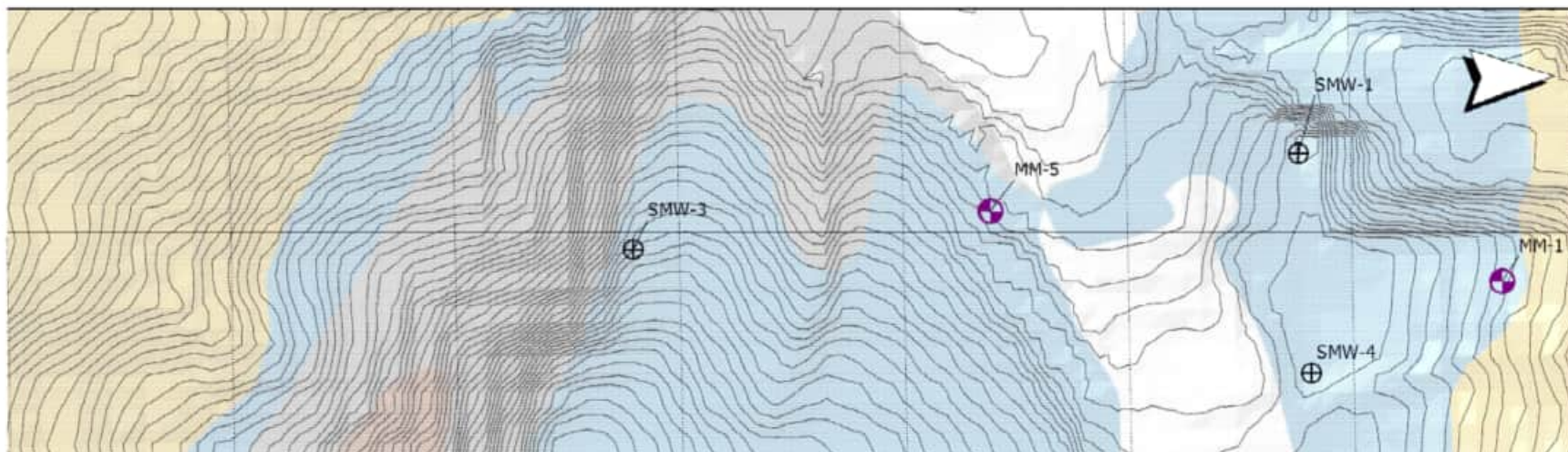
- Landfill Material
- Quaternary Loess, Clay, Silt, some flood deposits
- Tertiary Basalt
- Tem: Elephant Mountain Member of the Saddle Mountain Basalt
- Ter: Rattlesnake Ridge Member of the Ellensburg Formation
- Teu-F: Undifferentiated Upper Ellensburg Formation - Fine
- Teu-C: Undifferentiated Upper Ellensburg Formation - Coarse

Perforation Screen

- Landfill Footprint (on Topography)
- Bottom of Landfill (Historical Topography)
- Interpreted geological contacts

Figure 4-3
Geologic Model: B-B'

Closed Snipes Mountain Landfill,
Yakima County



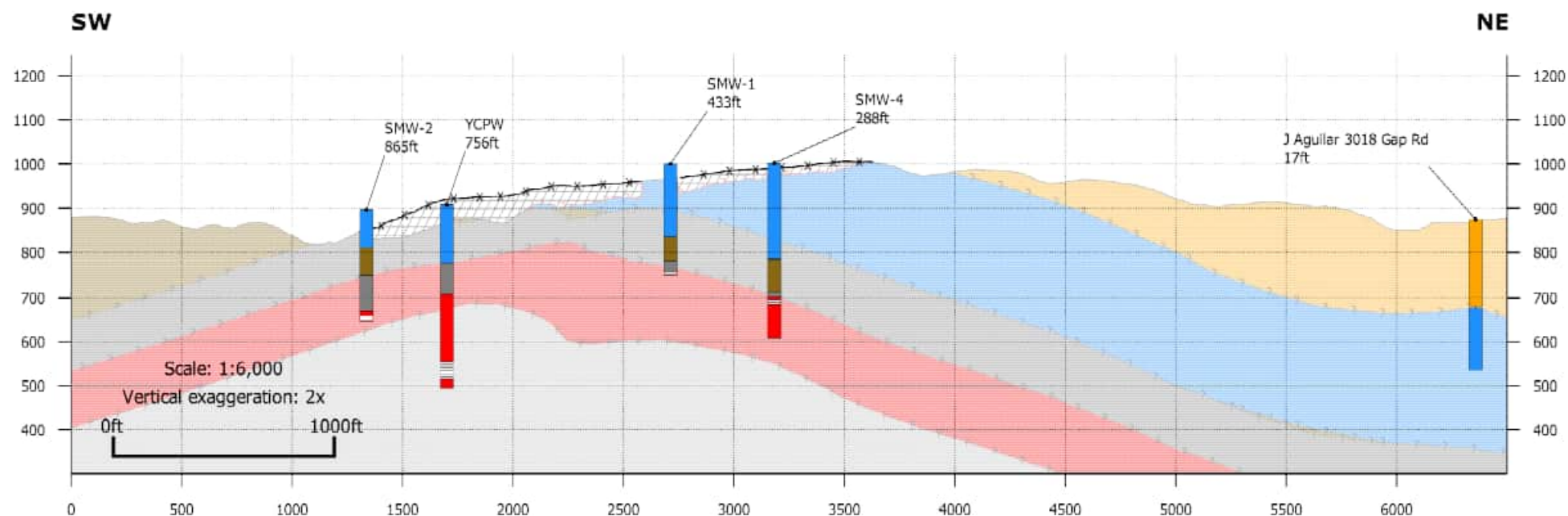
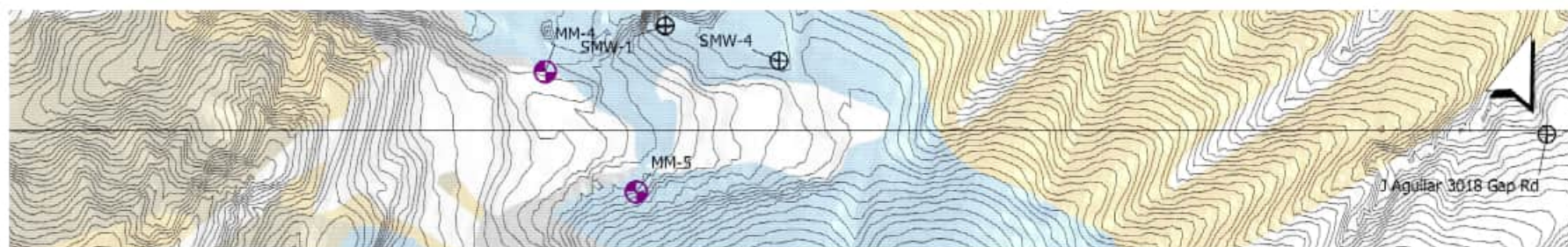
- Landfill Material
- Quaternary Loess, Clay, Silt, some flood deposits
- Tem: Elephant Mountain Member of the Saddle Mountain Basalt
- Teu-F: Undifferentiated Upper Ellensburg Formation - Fine
- Tertiary Basalt
- Ter: Rattlesnake Ridge Member of the Ellensburg Formation
- Teu-C: Undifferentiated Upper Ellensburg Formation - Coarse

Perforation Screen

- Landfill Footprint (on Topography)
- Bottom of Landfill (Historical Topography)
- Interpreted geological contacts

Figure 4-4
Geologic Model: C-C'

Closed Snipes Mountain Landfill,
Yakima County



- Landfill Material
- Quaternary Loess, Clay, Silt, some flood deposits
- Tem: Elephant Mountain Member of the Saddle Mountain Basalt
- Teu-F: Undifferentiated Upper Ellensburg Formation - Fine
- Tertiary Basalt
- Ter: Rattlesnake Ridge Member of the Ellensburg Formation
- Teu-C: Undifferentiated Upper Ellensburg Formation - Coarse

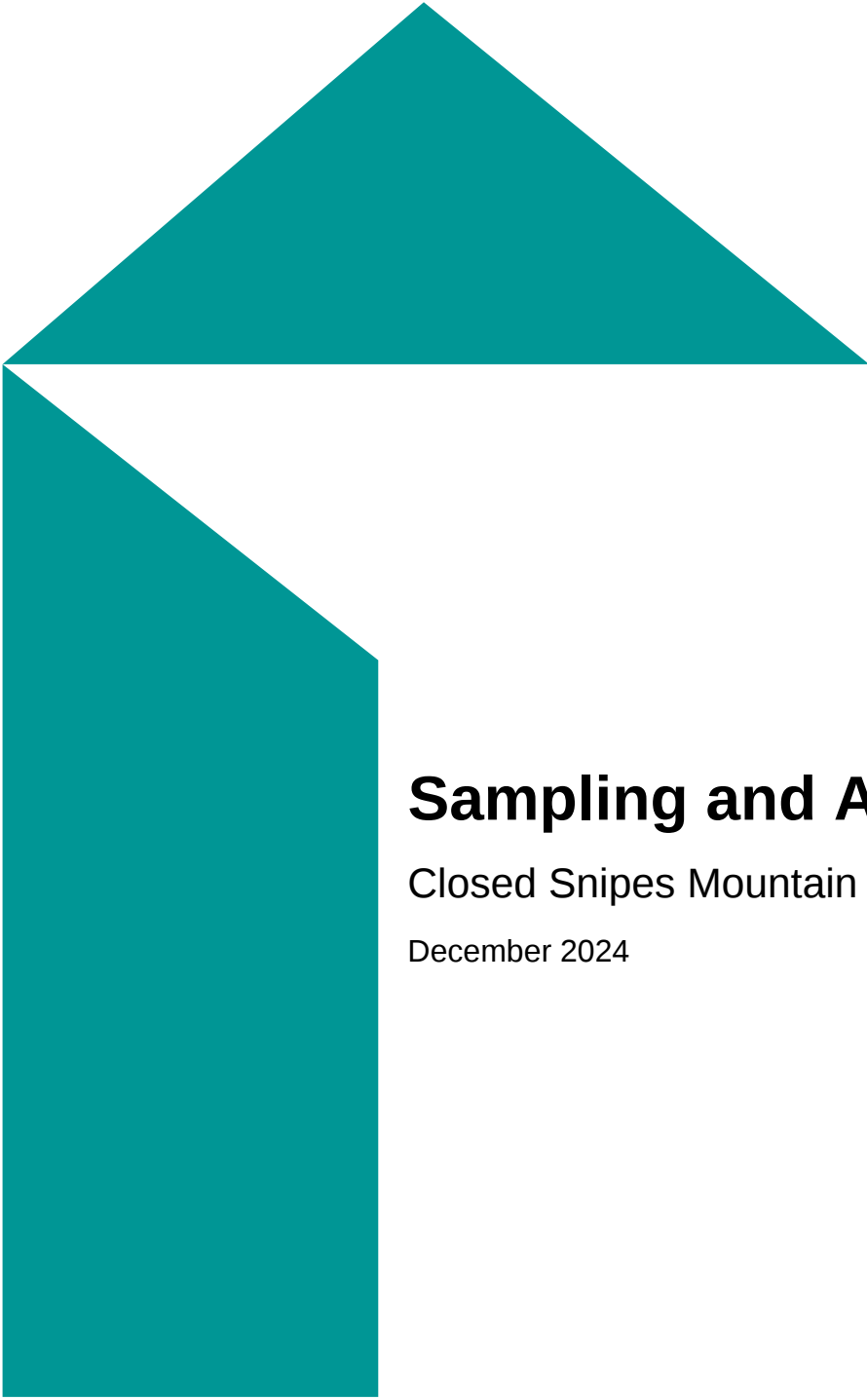
Perforation Screen

- Landfill Footprint (on Topography)
- Bottom of Landfill (Historical Topography)
- Interpreted geological contacts

Figure 4-5
Geologic Model: D -D '

Closed Snipes Mountain Landfill,
Yakima County

Appendix A. Sampling and Analysis Plan (SAP)

A large teal graphic on the left side of the page, consisting of a triangle at the top and a rectangle below it, with a diagonal cutout in the upper left corner.

Sampling and Analysis Plan

Closed Snipes Mountain Landfill

December 2024

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Sampling and Analysis Plan

Closed Snipes Mountain Landfill

December 2024

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
Rev 0.	8/27/24	A. Parkhurst	J. Parker	J. Parker	Agency Review Draft
Rev 1.	12/15/24	A. Parkhurst	E. Cutler	E. Cutler	Revised Per 9/30/24 Ecology Comments Letter

Document reference: 518300030-003 |

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Table A2-1: Groundwater and Soil Sample Handling

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Figure A2-2: Proposed Boring Locations: Large Former Septage Lagoon

Figure A2-3: Surrounding Residential and Irrigation Wells, and Monitoring Wells

Figure A2-4: Proposed Landfill Gas Composition Testing Locations

List of Abbreviations and Acronyms

°C	degrees Celsius
µg/L	micrograms per liter
µg/kg	micrograms per kilogram
AO	Agreed Order
ARI	Analytical Resources, Inc
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylenes
CFC 11	trichlorofluoromethane
CFC 12	dichlorodifluoromethane
CUL	cleanup level
DBCP	1,2-Dibromo-3-chloropropane
DCE	dichloroethene
EIM	Ecology's Environmental Information Management System
GP	gas probe
IDW	investigation derived waste
kg	kilogram
lbs	pounds
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LEL	lower explosive limit
LFG	landfill gas
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MDL	method detection limit
MEK	2-butanone
MFS	Minimum Functional Standards
mg/kg	milligram per kilogram
mL	milliliter
mL/min	milliliters per minute
MS	matrix spike
MSD	matrix spike duplicate
PAEs	phthalate acid esters
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PCUL	preliminary cleanup level
PID	photoionization detector
ppm	parts per million
PQL	practical quantitation limit
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
RI	remedial investigation
RIWP	remedial investigation work plan
SAP	Sampling and Analysis Plan
Snipes Landfill	Closed Snipes Mountain Landfill
SOP	standard operating procedure
SVOCs	semi-volatile organic compounds

TCA	trichloroethane
TCE	trichloroethene
TDS	total dissolved solids
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPH-D	diesel-range total petroleum hydrocarbons
TPH-G	gasoline-range total petroleum hydrocarbons
TPH-O	oil-range total petroleum hydrocarbons
TSS	total suspended solids
USCS	Unified Soil Classification System
VC	vinyl chloride
VOC	volatile organic compound
WAC	Washington Administrative Code

1 Introduction

Mott MacDonald has prepared this Sampling and Analysis Plan (SAP), which describes the procedures for conducting field activities during the remedial investigation (RI) at the closed Snipes Mountain Landfill (Snipes Landfill). This SAP is Appendix A to the Snipes Mountain RI work plan (RIWP) and is to be used in conjunction with the Quality Assurance Project Plan (QAPP) as a comprehensive reference for the sampling and analysis program that will be implemented during the RI. This SAP was prepared in accordance with the requirements of Washington Administrative Code (WAC) 173-340-820 and to satisfy the requirements of Agreed Order No. DE 22514 (AO) between the County and Ecology.

1.1 Purpose and Objectives

The primary objective of this SAP is to provide the sampling and analysis procedures and methodologies that will be used at Snipes Landfill during implementation of the RI work plan. The following is consistent with accepted procedures such that the data collected will be adequate for use in characterizing environmental conditions at Snipes Landfill. The data will be used to:

- Document the year-round fluctuations in water level and the resulting groundwater flow direction in the Tem aquifer.
- Document vertical flow gradients between the Tem (SWM-5d) and Teu-C (SMW-5s) aquifers.
- Understand the complex geologic units underlying Snipes Landfill and how the hydrogeologic conditions impact contaminant transport pathways.
- Evaluate the geochemical conditions to support the hydrogeologic model and assess the potential for biodegradation and natural attenuation based on geochemical conditions.
- Assess the completeness/incompleteness of transport pathways from landfill gas, soil, and leachate to groundwater.
- Identify Contaminants of Concern.
- Delineate the extent of PCE and any other contaminants of concern in groundwater, particularly to the north of Snipes Landfill.

This SAP addresses RI field work, during which samples of soil, groundwater, and landfill gas will be collected at Snipes Landfill. The anticipated number of samples and the analyses for each medium are summarized in Table A1-1. In addition to the activities outlined in this SAP, groundwater compliance monitoring per WAC 173-304-490 and routine monitoring of the passive LFG collection system, the perimeter gas probes, and flare operation is ongoing and not specifically included in the SAP.

2 Investigation Approach

The investigation approach was developed to address the project objectives defined in Section 1.1 of this SAP. The investigation includes collection of soil samples from the former septage lagoon area outside of the waste footprint, collecting groundwater samples from existing monitoring wells and offsite wells, collection of landfill gas samples from the existing passive gas extraction system and gas probes (GP), and water level monitoring. The investigation methods described below are consistent with the QAPP, which is Appendix B of the RIWP.

2.1 Field Investigation Tasks

Field investigation tasks will consist of advancing soil borings for the collection of soil, sampling existing groundwater monitoring wells, and sampling existing landfill gas wells and probes. Sampling methods that will be used in this study are summarized below.

2.1.1 Soil Sampling

Soil investigation activities at Snipes Landfill will involve collecting two (2) samples per boring from up to thirteen (13) borings using a direct push drill rig. The soil sampling is focused on the location of three former septage lagoons inside and outside of the waste footprint. Proposed drilling locations and former septage lagoon footprints are indicated in Figures A2-1 and A2-2.

2.1.1.1 Soil Borings

Mott MacDonald will subcontract with a Washington State licensed driller for completion of direct-push (geoprobe) borings. All drilling will be monitored by Mott MacDonald staff. Prior to initiation of drilling, any available utility maps provided by Yakima County will be reviewed to identify utilities or underground obstructions of the proposed soil core locations. A public utility locate service will be contacted to confirm the location of and identify other underground utilities in the vicinity of the proposed locations.

Before and between drilling of each boring and at the completion of the project, downhole drilling equipment will be cleaned, as described in Section 5. Drill cuttings will be drummed for appropriate disposal.

Proposed drilling locations are indicated in Figures A2-1 and A2-2, subject to revision per field observations. Locations are approximate based on aerial photos. Locations will be reviewed in the field and subject to change based on field conditions and observations. Mott MacDonald will coordinate access to boring locations on neighboring parcels with the DNR and the property lessee as needed. Borings will be accomplished using a pushprobe to advance a 2- or 3-inch diameter standard direct push sampling core barrel between 3- and 5-feet in length. The core barrel will be lined with an acetate or equivalent sleeve. Borings will be advanced to the lesser of refusal, bedrock, or a depth of 30 feet below ground surface (bgs). Soil cores from each boring will be characterized according to ASTM standard D2488 (Visual-Manual Method). A record of the soil conditions, soil lithology, evidence of contamination, analytical samples collected, or any other pertinent information observed during drilling will be recorded on a field boring log.

For the proposed drilling locations within the former septage lagoon within the landfill cover, hollow stem auger with split spoons may be required if refuse is encountered. Mott MacDonald will coordinate with the contracted driller to determine the required equipment.

2.1.1.2 Field Screening

Soil samples will be field screened for odor, staining, discoloration, sheen, or other indicators of septage storage and deposited solids. Volatile organic compound (VOC) monitoring for soil will be conducted using headspace analysis and will be performed by first measuring VOC levels along the length of freshly exposed soil in recovered soil cores using a photoionization detector (PID) such as the ppbRAE 3000 or equivalent. If VOC readings above background levels are observed, a small amount of soil from that portion of the soil core will be placed in a resealable bag. The bag will be sealed, the contents broken up, and the bag allowed to equilibrate for 2-5 minutes. The PID probe will be inserted into the resealable bag, but not into direct contact with the soil, and the bag will be sealed. The highest reading measured by the PID will be recorded on the soil boring log. Additionally, any PID readings of more than 5 parts per million (ppm) will be noted on the chain-of-custody (COC) to communicate the potential need for dilution to the laboratory.

2.1.1.3 Sample Collection

Field instruments will be calibrated at the beginning (prior to sampling) of each day. Calibration data will be recorded in the field notes.

Discrete soil samples will be collected at two (2) depths from each boring. The first sample will target the septage lagoon material near the surface, or as identified beneath surficial cover and above native soil (approximately 0-4 ft). The second will be collected from depth (approximately 8-15 ft). The depth sampled will be based the available core length and on observations of the environmental professional and may vary between soil cores. All soil samples will be grab samples (i.e., no composite samples are planned during this investigation). Any liquid encountered at refusal will be sampled for VOCs. If no liquid is observed, the boring will be documented as dry.

Soil samples are to be tested for the analytes in Table A2-1 and will be collected using the following methods:

- Clean, disposable, latex, nitrile, or equivalent material gloves will be worn when filling containers for analyses. Gloves will be changed when dirty and between samples.
- Scrape the outside of the soil core to expose a fresh sampling surface using a decontaminated stainless-steel spoon.
- Collect VOC samples first, from the sample location, using EPA Method 5035A soil sampling kits and transfer to into the appropriate laboratory-supplied sample vials. The EPA 5035A soil sampling method is intended to reduce volatilization and biodegradation of the samples. The EPA 3035A procedure for soil sample collection is as follows:
 - Collect soil samples as soon as possible after the sleeve is cut open. Collect the sample using a coring device (i.e., Encore® sampler, EasyDraw Syringe®, or a Terra Core™ sampling device). Each sampled depth interval will consist of three samples.
 - Remove excess soil from the coring device If an EasyDraw Syringe or Terra Core sampling device is used for sample collection, then place the aliquot directly from the sampling device into three, lab-provided, methanol-preserved 40 milliliter (mL) vials with a stirbar. Vials will be preserved as indicated in Table A2-1. If the EnCore sampler is used, then close the sample for transport to the laboratory.
- Collect 2 ounces of soil and place in a lab-provided jar for moisture content analysis and laboratory screening purposes. Fill the jar to minimize headspace.

- For soil for to be analyzed for non-volatile analytes collect 4 to 8 ounces of soil, or as required by the analytical laboratory, from the desired interval that did not contact the sides of the tooling/core container using a new stainless-steel spoon.
- Homogenize the soil in a decontaminated stainless-steel, or single-use, bowl using the stainless-steel spoon.
- Transfer the homogenized soil into the appropriate laboratory-supplied sample containers. The lab-specified number of containers will be completely filled to meet laboratory volume requirements and capped securely.
- Immediately place all sample containers in a pre-chilled cooler.
- The sample identification data will be recorded on each sample container, in the field notes, and on the COC. Sample identification format is discussed in Section 3.4.
- Collect a rinsate blank from sampling tools following decontamination. Rinse the decontaminated sampling tools with purified deionized water from the laboratory and collect samples of the rinse water for analysis by EPA Method 8260. One rinsate blank will be collected from each field crew for each sampling day.
- One field duplicate sample will be collected for every 10 percent of samples, with at least one field duplicate sample collected for each sampling day.

2.1.1.4 Boring Decommissioning

Following soil sample collection, all borings will be decommissioned according to the Minimum Standards for Construction and Maintenance of Wells (WAC 173-160-460). The code specifies that each soil boring with an inside casing diameter equal to or greater than one inch be decommissioned by filling the casing from bottom to land surface with bentonite, bentonite slurry, neat cement grout, or neat cement. All borings will be completed above the water table, and material can be hand-poured into the boring.

The ground surface will be returned to its original condition after decommissioning soil borings. Asphalt and cement will be patched to cover the bentonite (or other material) seal. Vegetation will be replanted, if necessary, and groundcover will be restored by raking, or other physical means.

2.1.2 Groundwater Sampling

Five existing onsite permanent monitoring wells will be used to monitor groundwater quality and flow direction at Snipes Landfill (Figure A2-3). Well purging and sampling will be conducted following the compliance monitoring routine for quarterly MFS compliance sampling. Water levels will be measured prior to sample collection (Section 2.1.3). Field parameters will be monitored and recorded on a field sheet until sequential measurements are stable. "Stable" is defined as:

- Specific conductance, dissolved oxygen, oxidation-reduction potential, pH, and temperature that do not indicate a trend (continuously increasing or decreasing between readings),
- Specific conductance, dissolved oxygen, oxidation-reduction potential, and temperature that do not vary by more than 10 percent between readings; temperature will not vary by more than 1 degree Celsius (°C),
- pH measurements that do not vary by more than 0.1 pH units between readings.

Samples will be collected using the dedicated tubing stored in a resealable bag within the well monument. Groundwater samples will be collected directly into the appropriate sample containers using the same pump used for purging. To prevent degassing during sampling for

VOCs at SMW-1, SMW-5s, and SMW-5d, a manifold will be adjusted to reduce the flow rate through the sample tubing to approximately 100 milliliters per minute (mL/min). At SMW-4, the bladder pump discharge time will be adjusted to achieve a flow rate through the sample tubing to approximately 100 milliliters per minute (mL/min).

Groundwater samples for dissolved metals analysis will be field-filtered during collection using a 0.45-micron, in-line disposable filter. Groundwater samples for dissolved metals will be preserved, as specified in Table A2-2.

Additional groundwater sample volume will be collected for a total of four (4) quarters of RI sampling beginning in Q4 2024.

- Groundwater sampling at onsite monitoring wells north of the anticline (SMW-1, SMW-4, SMW-5s, SMW-5d) will include WAC 173-351-990 Appendix I, and II parameters, as well as 1,4-dioxane and PFAS.
- Offsite sampling at the O.L. Luther, Inc. well and the DNR house for VOCs, as allowed by property owners (Figure A2-3).

If additional analytes, beyond PCE and other VOCs, are recognized as COCs, these additional analytes may be added to the offsite well sampling analytical suite. The onsite and offsite wells will be analyzed for the respective parameters in Table A2-1.

After the first two quarterly sampling events are completed, reductions in the sampling suite for ongoing quarterly monitoring will be recommended for analytes that are not of concern in any of the monitoring wells. Any changes to the groundwater monitoring program will be submitted to Ecology for review and approval before they are implemented.

2.1.3 Comprehensive Water Level Monitoring

Water level transducers were deployed on June 23, 2024 in existing monitoring wells SMW-4, SMW-5s, and SMW-5d (Figure A2-3). A barometer was additionally deployed in the SMW-5 well monument for pressure corrections. Transducer and barometer data will be downloaded, and a manual water level measurement will be taken before and after transducer retrieval, by Mott MacDonald staff prior to completing the quarterly groundwater sampling. Water levels at SMW-1 will be taken manually by Yakima County staff on a weekly basis beginning in third quarter 2024.

The depth to groundwater will be measured using an electronic, coaxial water level sounder from the measuring point marked on the well monument, or from the north side of the well monument in the absence of a marked measuring point. Depth to water will be measured to the nearest 0.01 foot. The electronic water level meter will be decontaminated with a liquinox-type cleaner and distilled water between each well.

2.1.4 Landfill Gas Monitoring

The existing gas monitoring network consisting of six soil gas probes (GP) around the perimeter of the landfill, 10 wells in the passive gas collection system, and the flare, will continue to be monitored quarterly for oxygen (O₂), carbon dioxide (CO₂), methane (CH₄), and static pressure using a landfill gas analyzer (GEM 5000 or equivalent) as part of routine quarterly compliance monitoring.

Landfill gas composition testing will be initiated during a quarterly landfill gas monitoring event. Passive or active sampling may be selected depending on the accessibility at sample locations.

Samples will be collected at 6 passive gas well locations (Figure A2-4) and one field duplicate sample will be collected.

The passive sampling canister (sampler), if selected, will be installed in near the target gas wells following manufacturer instructions. Passive samplers will remain undisturbed for the entire exposure time suggested by the sampler manufacturer, between approximately three and 14 days. One passive sampler trip blank will remain unopened for the duration of the field exposure and will be noted on the Installation/Retrieval log, COC, and field notes. Following sampler retrieval, single-use materials will be discarded, and the field-exposed samplers will be returned to their respective shipping vials and sealed. Field-exposed samplers and the trip blank will be shipped to the manufacturer's laboratory along with the COC, Installation/Retrieval log, and any provided installation materials via overnight courier.

Active sampling, using summa canisters or vacuum bottles, would attach directly to the gas well port. Active samplers may be equipped with flow controllers. The period of sampling will be selected to coincide with a period of falling barometric pressure for optimal conditions for landfill gas production. Active samplers will be analyzed for VOCs by EPA Method TO-15.

Work will be phased so that gas composition samples are collected from the existing gas probe network prior to performing soil sampling work in the former septage pond locations (Section 2.1.1). If VOCs are detected in the landfill gas extraction system, up to two additional gas probes will be installed near the former septage lagoons. If VOCs are detected in any sample from SB01-SB08, one gas probe will be located near the southern former septage lagoons. If VOCs are detected in any sample from SB09-SB13, one probe will be located near the northern former septage lagoon, within the landfill cover.

3 Sample Handling

Field staff members will collect samples, prepare samples for shipment, complete all necessary paperwork, maintain sample documentation, and decontaminate sampling equipment. Sample analysis, containers, sample preservation and preparation, sample identification and documentation, and sample packaging procedures are discussed below.

3.1 Sample Analysis

A summary of the analyses by medium is summarized in Table A2-1. Analytical methods, containers, preservation, and sample holding times are presented in Table A2-2. All soil and groundwater samples will be submitted to Analytical Resources, Inc. (ARI) in Tukwila, Washington for analysis. Gas samples will be submitted to Eurofins or other equivalent air testing laboratory contracted by Yakima County.

3.2 Sample Containers

All sample containers will be provided by the laboratory. Only new sample containers will be used for sample collection. The laboratory will provide containers that are the appropriate size, type, and with the applicable preservative for each analytical method used. Sample containers will be kept closed and in a cooler or in the shipping package until use. As they are collected, samples will be labeled and recorded in the field notes along with other pertinent collection data. All samples requiring preservation will be placed on ice in a cooler immediately after they are filled and labeled.

3.3 Sample Preservation and Preparation

All samples requiring preservation will be stored on ice and delivered to the laboratory within 48 hours of sample collection. If the field event will extend beyond two days, samples will be shipped to the laboratory by overnight delivery.

3.4 Soil Sample Identification

Soil samples collected for laboratory analysis will be documented on the boring log and the COC. The sample labeling will use the following format:

“SB(2-digit boring identification #) – (depth interval range in feet) – (date in MMDDYYYY)”

For example, a soil sample collected on April 1, 2025 between 9 and 10 feet (ft) bgs at boring location 1 would be SB01-09-10-04012025.

3.5 Groundwater Sample Identification

Groundwater samples collected from monitoring wells for laboratory analysis will be represented by the well identification number (SMW-#), as is the nomenclature employed for regular compliance monitoring. Sample labels and the COC will additionally include the sample date, time, and field staff for identification.

3.6 Landfill Gas Sample Identification

Landfill gas sampler will be represented by the gas well identification number (GW-#). Sample labels and the COC will additionally include the sample date, time, and field staff for identification.

3.7 Quality Assurance/Quality Control Sample Identification

The following nomenclature will be used to label and identify field QC samples collected during the RI:

- Field duplicates for soil samples: “SB - FD(duplicate #) - (date in MMDDYYYY)”
 - For example, if the first soil field duplicate was collected on April 1, 2025, the sample identifier would be SB-FD1-04012025.
- Matrix spike and matrix spike duplicates: labeled with the same sample name and format as the primary sample, and indicated on the COC
- Trip blanks: labeled by the laboratory that provided them
- Equipment blanks: “RSB – (equipment) – (date in MMDDYYYY)”
 - For example, a rinsate sample collected from a spoon on April 1, 2025, the identifier would be RSB-spoon-04012025.

3.8 Field Documentation

A complete record of field activities will be maintained on dedicated field forms for the duration of the field phase of the work, as described in the QAPP and noted in the preceding sections of this SAP. Information will be recorded as the work occurs and copies of all documentation will be provided as part of the RI Report.

3.9 Sample Chain-of-Custody Procedures

Samples will be collected and handled using chain-of-custody procedures as described in the QAPP.

3.10 Sample Packaging and Shipping Procedures

Sample containers being shipped will be placed in plastic bubble wrap bags, as appropriate, to reduce the chance of breakage during shipment. The sample containers will then be placed in coolers filled with additional cushioning material. Ice that has been double-bagged will then be placed in the coolers to maintain the appropriate temperature during transport.

The COC for the samples will be placed in a sealed plastic bag and taped to the inside of the cooler lid, and then the cooler lid will be securely taped closed. Sample container custody seals will be used for all shipped containers not delivered directly to the lab by Mott MacDonald personnel. Seals will consist of breakable tape (such as paper masking tape) signed in ink by the person relinquishing the sample. The tape will be placed in such manner that the tape must be broken in order to open the sample container.

4 Investigation Derived Waste

This section described the management of investigation derived waste (IDW) and equipment decontamination to be used during the RI.

4.1 Soil

Cuttings from drilling operations will be containerized and the containers properly labeled and sealed pending analytical testing. Following testing, clean soil will be thin spread onsite in proximity to the originating location. Contaminated soil cuttings will be properly characterized and disposed of by Yakima County.

4.2 Groundwater

Groundwater generated during well purging and sampling will be discarded onsite, a minimum of 3 feet from the well monument.

4.3 Personal Protective Equipment (PPE)

Disposable PPE is anticipated to consist primarily of nitrile gloves and paper towels. Used PPE will be disposed of as solid waste by Yakima County.

4.4 Containers

Soil IDW will generally be containerized in 55-gallon steel drums. All containers stored onsite will be secured, properly labeled, and shall remain for less than 90 days.

4.5 Labeling

All containers will be labeled with the following information:

- Description of contents (soil, waste)
- Boring/Well source of material in container
- Date material was placed in container
- Company that did the work (Mott MacDonald)
- Entity for which the investigation was conducted (Yakima County Solid Waste/Ecology)
- Contact information

4.6 Disposal

Contaminated material that requires off-site disposal will be transported to an appropriately licensed solid waste or hazardous waste disposal facility by Yakima County, as applicable. Waste characterization sampling will be conducted in coordination with the disposal facility. General arrangements with such facilities shall be made prior to conducting any RI sampling activities. Transportation will follow all state and local requirements and hauling documentation will be retained.

5 Equipment Decontamination

All reusable sampling equipment and devices used (e.g., water level sounder, stainless-steel spoons, etc.) will be cleaned using a three-step process at the beginning of each day and between each sample collection, as follows:

1. Scrub surfaces of equipment that would be in contact with the sample with brushes using a liquinox and water solution.
2. Rinse equipment with clean distilled water.

Heavy equipment (i.e., drilling equipment that is used downhole, or that contacts material and equipment going downhole) will be rinsed with distilled water between each use.

6 Reporting and Schedule

An RI Report will be prepared in accordance with Agreed Order No. DE 22514 that summarizes the nature and extent of impacts and supports the preparation of a Feasibility Study (FS) for selecting a cleanup action under WAC 173-340, the Model Toxics Control Act (MTCA). Data and results will be conveyed to the Ecology via the quarterly updates, per the AO, and data will be uploaded to Ecology's Environmental Information Management System (EIM) within 30 days of data validation.

Preparations for field activities, including contracting with subcontractors, will occur following receipt of Ecology approval of the Final RI work plan, and are anticipated to follow the below schedule. Variations from this schedule may be necessary based on unanticipated findings, site constraints, subcontractors and contracts, and other considerations as needed.

Task	Task Description	2024		2025				2026			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Water-Level Monitoring	X	X	X	X	X	TBD	TBD	TBD	TBD	--
2.1	3-D Geologic Model	X	X	X	X	--	--	--	--	--	--
2.2	Geochemical Conditions	--	--	X	X	X	X	TBD	TBD	TBD	--
3.1	Septage Lagoon Soils	--	--	X	X	--	--	--	--	--	--
3.2	Landfill Gas Sampling	--	--	X	--	--	--	--	--	--	--
3.3	Leachate Production Model Update	--	X	X	--	--	--	--	--	--	--
4.1	Expanded Groundwater Analyte List	--	--	X	X	X	X	TBD	TBD	TBD	TBD
4.2	Offsite Well Sampling	--	X	X	X	X	X	TBD	TBD	TBD	--
4.3	Expanded Monitoring Network	--	--	--	--	--	X	X	--	--	--
	Completion of all RI field work, including any additional phase(s)	--	--	--	--	--	--	--	--	X	X
	Quarterly Updates	X	X	X	X	X	X	X	X	X	X

If additional or amended RI activities are needed to meet the objectives of the RI work plan, the scope, schedule, and submittal requirements for this additional or amended work will be

developed and discussed with Ecology. Substantial changes or additions will be submitted as a supplemental RI work plan to Ecology for review and approval.

Table A1-1. Summary of Proposed Sampling and Analyses

Closed Snipes Mountain Landfill

Constituent Group	Groundwater					Soil				Landfill Gas			
	Analytical Method	Sampling Scope	Sample Locations	MFS req'd	Frequency and Duration	Analytical Method	Sampling Scope	Sample Locations	Frequency and Duration	Analytical Method	Sampling Scope	Sample Locations	Frequency and Duration
1,4-Dioxane	EPA 8270D	Onsite (N)	5		quarterly (x4)	-	-	-	-	-	-	-	-
Alkalinity	SM 2320 B-11	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Ammonia-N	SM 4500-NH3 H-11	Onsite (All)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
Chemical Oxygen Demand (COD)	EPA 410.4	Onsite (All)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
Chloride	EPA 325.2	Onsite (All)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
Chlorinated Phenols	EPA 8041A	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Dioxin/Furans	EPA 8290A	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Metals (Dissolved)	EPA 6010D/6020B/200.7/200.8/7470A	Onsite (All - MFS list, N - additional metals)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
Metals (Total)						EPA 6010D/6020B/200.7/200.8/7471B	Septage Lagoons	2 depths at 8 locations	once	-	-	-	-
Nitrate + Nitrite-N	EPA 353.2	Onsite (All)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
Nitrate-N				X		-	-	-	-	-	-	-	-
Nitrite-N				X		-	-	-	-	-	-	-	-
PAHs	EPA 8270D-SIM	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Pentachlorophenol	EPA 604/8041B	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Pesticides	EPA 608/8081B	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
PFAS	EPA 1633	Onsite (N)	4		quarterly (x4)	-	-	-	-	-	-	-	-
Sulfate	EPA 375.2	Onsite (All)	5	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
SVOCs	EPA 625/8270	Onsite (N)	7		quarterly (x4)	EPA 8270	Septage Lagoons	2 depths at 8 locations	once	-	-	-	-
Total Organic Carbon (TOC)	EPA 9060A/SM 5310 B-00	Onsite (N)	4	X	quarterly (ongoing)	-	-	-	-	-	-	-	-
VOCs	EPA 8260D/8260D-SIM	Onsite (All) + Offsite	7	X	quarterly (ongoing)	EPA 8260	Septage Lagoons	2 depths at 8 locations	once	EPA Method TO-15	Passive Gas System	6 Gas Wells	once

Offsite = includes sampling at the O.L. Luther, Inc. well and the DNR house as allowed by property owners.

Onsite (All) = SMW-1, SMW-2, SMW-4, SMW-5s, SMD-5d

Onsite (N) includes only onsite wells north of the anticline = SMW-1, SMW-4, SMW-5s, SMD-5d

MFS = Minimum Functional Standards

PAH = polycyclic aromatic hydrocarbons

PFAS = per- and polyfluoralkyl substances

SVOCs = semi-volatile organic compounds

VOCs = volatile organic compounds

Table A2-1. Sample Handling

Closed Snipes Mountain Landfill

Constituent Group	Groundwater					Soil				
	Analytical Method	Units	Container	Preservative	Hold Time (days)	Analytical Method	Units	Container	Preservative	Hold Time (days)
1,4-Dioxane	EPA 8270D	ug/L	2x500mL AG	None	7	-	-	-	-	-
Alkalinity	SM 2320 B-11	mg/L	500 mL HDPE	None	14	-	-	-	-	-
Ammonia-N	SM 4500-NH3 H-11	mg/L	500 mL HDPE	H2SO4	28	-	-	-	-	-
Chemical Oxygen Demand (COD)	EPA 410.4	mg/L	250mL AG	None	28	-	-	-	-	-
Chloride	EPA 325.2	mg/L	500 mL HDPE	None	28	-	-	-	-	-
Chlorinated Phenols	EPA 8041A	ug/L	2x500mL AG	Na2S2O3 H2SO4	7	-	-	-	-	-
Dioxin/Furans	EPA 8290A	pg/L	2x1000mL	None	30	-	-	-	-	-
Metals (Dissolved)	EPA 6010D/6020B/ 200.7/200.8/7470A	mg/L	500 mL HDPE	HNO3	180	-	-	-	-	-
Metals (Total)	EPA 6010D/6020B/ 200.7/200.8/7470A	mg/L	500 mL HDPE	HNO3	180	EPA 6010D/6020B/ 200.7/200.8/7470B	mg/kg	4oz wide-mouth glass	None	180
Nitrate + Nitrite-N	EPA 353.2	mg/L	500 mL HDPE	None	2	-	-	-	-	-
Nitrate-N						-	-	-	-	-
Nitrite-N						-	-	-	-	-
PAHs	EPA 8270D-SIM	ug/L	2x500mL AG	None	7	-	-	-	-	-
Pentachlorophenol	EPA 604/8041B	ug/L	2x500mL AG	None	7	-	-	-	-	-
Pesticides	EPA 608/8081B	ug/L	2x500mL AG	None	7	-	-	-	-	-
PFAS	EPA 1633	ng/L	2x500mL PFAS-free HDPE	None	7	-	-	-	-	-
Sulfate	EPA 375.2	mg/L	500 mL HDPE	None	28	-	-	-	-	-
SVOCs	EPA 625/8270	ug/L	2x500mL AG	None	7	EPA 8270E	ug/kg	8oz wide-mouth glass	None	14
Total Organic Carbon (TOC)	EPA 9060A/SM 5310	mg/L	250mL AG	H2SO4	28	-	-	-	-	-
VOCs	EPA 8260D/8260D-SIM	ug/L	3x40mL vials / 5x40mL vials	HCl	7	EPA 8260	ug/kg	3x40mL vials	methanol	14

Preservative listed assumed samples are kept at temperatures between 0-6 degrees Celsius.

AG = amber glass

H2SO4 = sulfuric acid

HDPE = high-density polyethylene

HCL = hydrochloric acid

HNO3 = nitric acid

MDL = method detection limit

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

mL = milliliter

Na2S2O3 = sodium thiosulfate

PAH = polycyclic aromatic hydrocarbons

PFAS = per- and polyfluoralkyl substances

pg/L = picograms per liter

SVOCs = semi-volatile organic compounds

ug/kg = micrograms per kilogram

ug/L = micrograms per liter

VOCs = volatile organic compounds



- | | |
|--|--|
|  Proposed Soil Boring Location |  Refuse |
|  Former Septage Ponds (Approximate) |  County Property Boundary |
| |  Parcels |

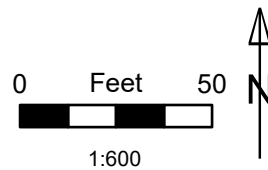
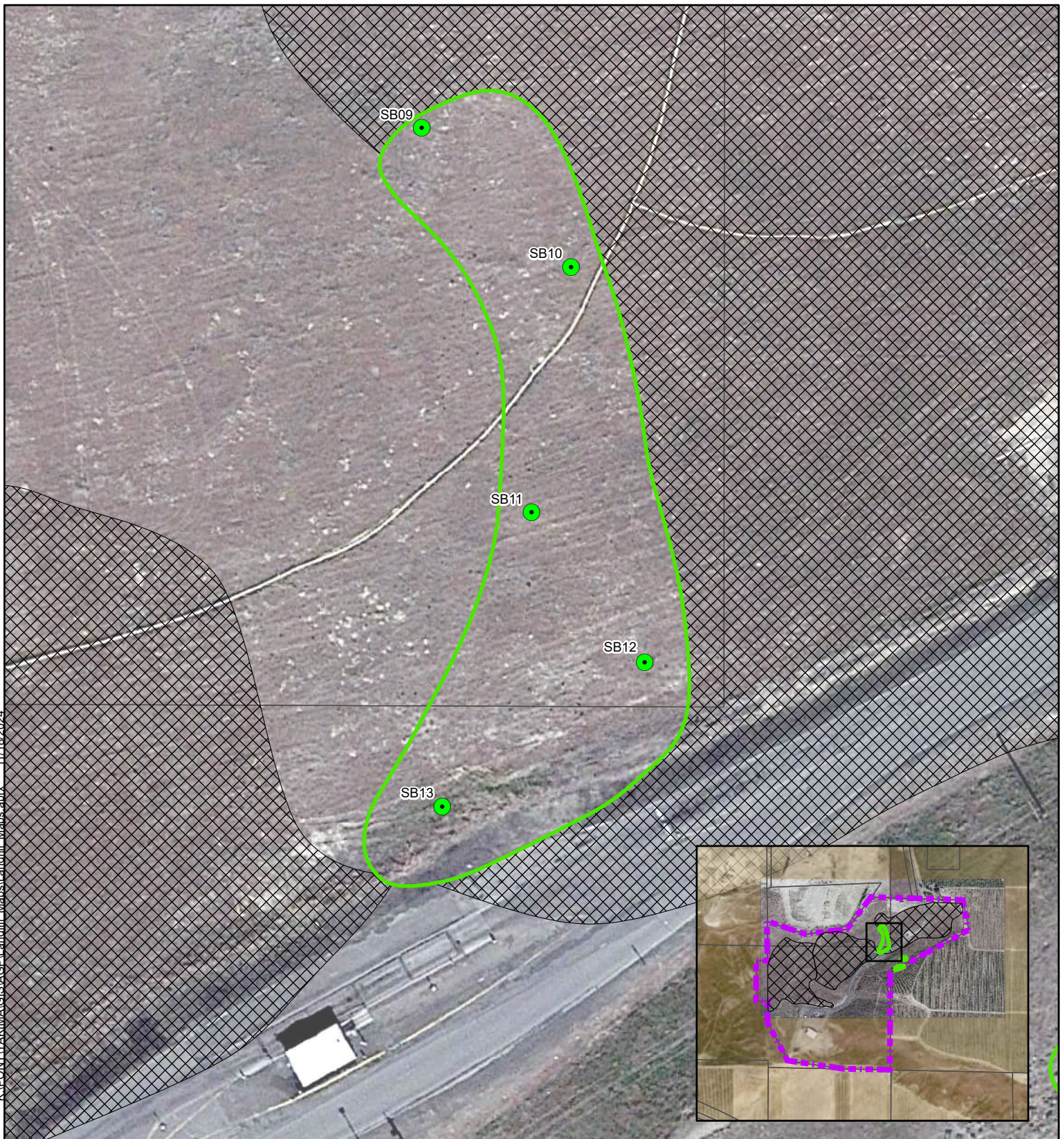


Figure A2-1
Proposed Boring Locations:
Former Septage Lagoons

Closed Snipes Mountain Landfill
Yakima County

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- | | |
|--|--|
|  Proposed Soil Boring Location |  Refuse |
|  Former Seepage Ponds (Approximate) |  County Property Boundary |
| |  Parcels |

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1:600



Figure A2-2
Proposed Boring Locations:
Large Former Seepage
Lagoon

Yakima County

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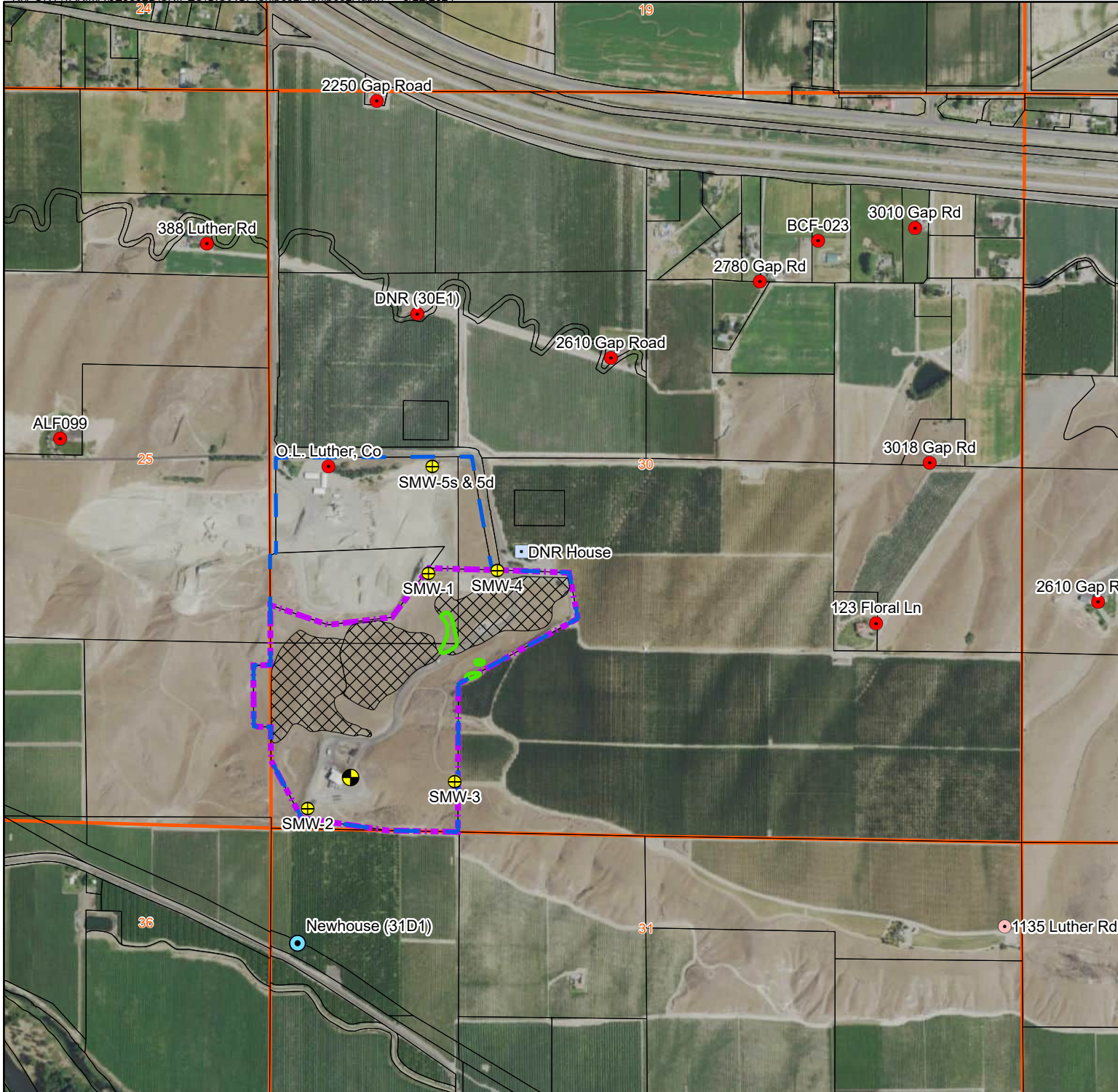
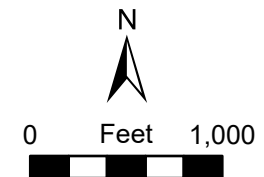


Figure A2-3
Surrounding Residential
and Irrigation Wells,
Snipes Mountain Landfill

Closed Snipes Mountain Landfill
Yakima County

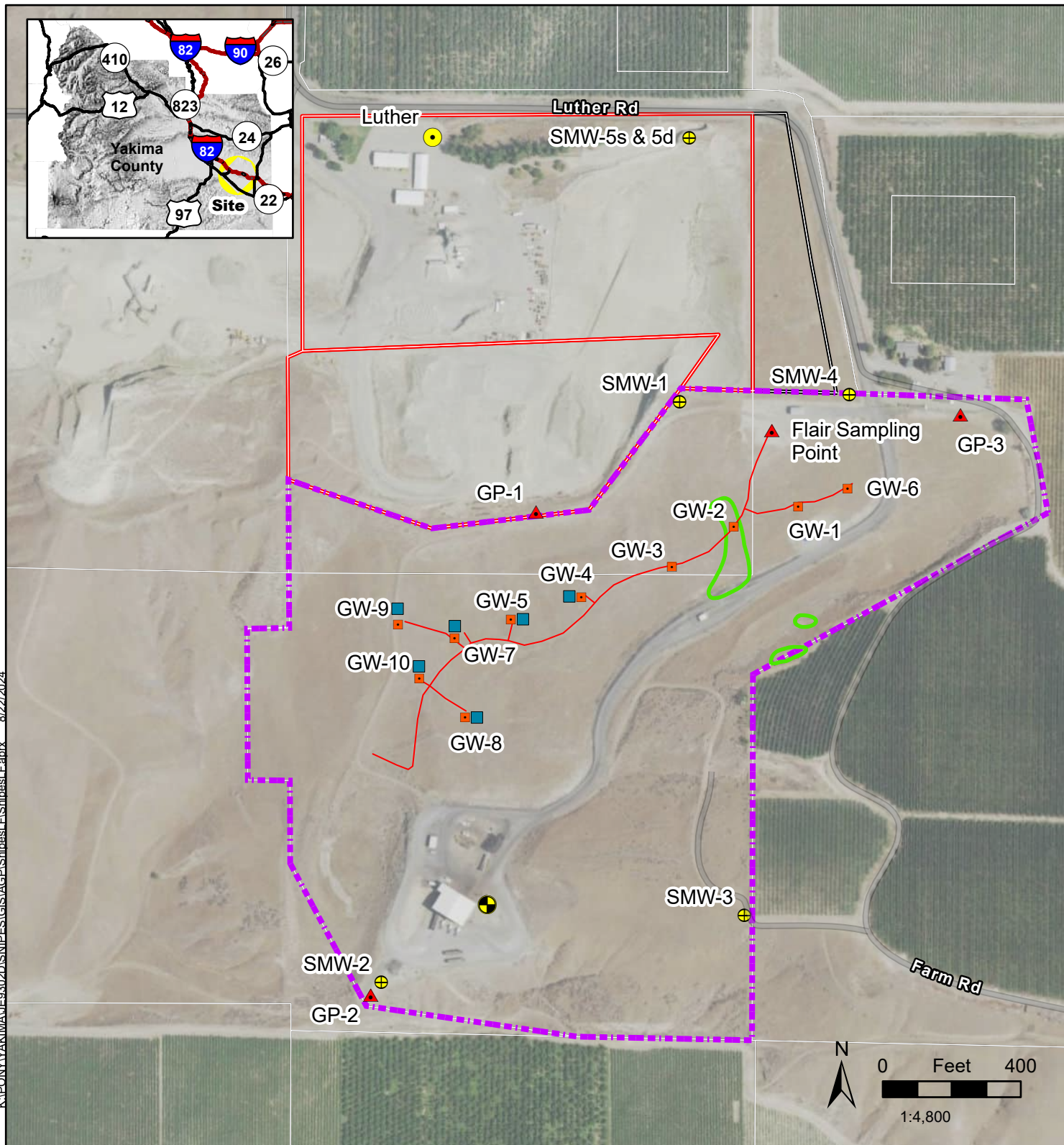
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- Monitoring Well
- Offsite Well
- Future Sample Well
- Sample Point
- Offsite Well (water elevation only)
- Onsite Supply Well
- Sections (T10N/R22E)
- Site Boundary
- County Property Boundary
- Refuse
- Former Seepage Ponds (Approximate)



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- | | |
|---|----------------------------|
| Proposed Landfill Gas Composition Samples | Gas Extraction Piping |
| Monitoring Well | County Property Boundary |
| Gas Well | DNR Parcel within Site |
| Gas Probes & Gas Flair | Luther Parcels within Site |
| Offsite Well | Parcels |
| Onsite Supply Well | |
| Former Seepage Ponds (Approximate) | |

Figure A2-4
Proposed Landfill Gas
Composition Testing
Locations

Closed Snipes Mountain Landfill
Yakima County

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Appendix B. Quality Assurance Project Plan (QAPP)

A large teal graphic on the left side of the page, consisting of a triangle at the top and a larger, irregular shape below it, resembling a stylized mountain or a large letter 'M'.

Quality Assurance Project Plan

Closed Snipes Mountain Landfill

August 2024

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Quality Assurance Project Plan

Closed Snipes Mountain Landfill

August 2024

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
Rev 0.	8/29/24	A. Parkhurst	J. Parker	J. Parker	Agency Review Draft

Document reference: 518300030-003 |

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Tables

Table B2-1: Measured Field Parameters

Table B2-2: Sample Handling

Approval Signatures

The following signatures acknowledge that these team members have read, fully understood, and are willing to adhere to this Quality Assurance Project Plan for the Closed Snipes Mountain Landfill.

Luke LeMond, LHG
Department of Ecology
Project Coordinator, Ecology

Date

Karma Suchan
Yakima County Public Services-Solid Waste Division
Manager

Date

Eric Cutler, LHG
Mott MacDonald
Project Manager / Senior Hydrogeologist

Date

List of Abbreviations and Acronyms

%	percent
°C	degrees Celsius
AO	Agreed Order
ARI	Analytical Resources, Inc
CLP	Contract Laboratory Program
COC	chain-of-custody
COPC	chemical of potential concern
DO	dissolved oxygen
DOC	dissolved organic carbon
DQO	data quality objective
Ecology	Washington State Department of Ecology
EIM	Electronic Information Management
EPA	United States Environmental Protection Agency
ft	feet, foot
in. Hg	inches mercury
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MFS	Minimum Functional Standards
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mL	milliliter
MS	matrix spike
mS/cm	milliSiemens per centimeter
MSD	matrix spike duplicate
MSW	municipal solid waste
MTCA	Model Toxics Control Act
mV	millivolts
O ₂	oxygen
ORP	oxidation-reduction potential
PCE	tetrachloroethene
ppb	parts-per billion (equivalent to ug/kg)
ppm	parts-per million (equivalent to mg/kg)
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RI	remedial investigation
RPD	relative percent difference
SAP	Sampling and Analysis Plan
Snipes Landfill	Closed Snipes Mountain Landfill
SOP	standard operating procedure
TCE	trichloroethene
Tem	Elephant Mountain Member of the Saddle Mountain Basalt
Teu-C	Undifferentiated Upper Ellensburg Formation – Coarse
uS/cm	microSiemens per centimeter
VOC	volatile organic compound
WAC	Washington Administrative Code

1 Project Management

The following project management elements address the procedural aspects of the project, summarize the project team, and summarize the project.

1.1 Distribution List

The following individuals will receive copies of the Quality Assurance Project Plan (QAPP), once it has been reviewed and approved by the Washington Department of Ecology (Ecology).

Name	Agency/Company	Position	Email	Phone Number
Luke LeMond	Ecology	Project Coordinator/ Site Manager	luke.lemond@ecy.wa.gov	509-379-3961
Karma Suchan	Yakima County Public Services- Solid Waste Division	Manager	Karma.Suchan@co.yakima.wa.us	509-574-2455
Eric Cutler	Yakima County Consultant (Mott MacDonald)	Project Manager	Eric.cutler@mottmac.com	425-967-7202

1.2 Project Organization

The project team is formed by members of Ecology, Yakima County, Mott MacDonald, and subcontracting analytical laboratories and drillers, as needed. The project organization is summarized below.

Ecology is the lead regulatory agency for this project. Luke LeMond is the Project Coordinator for Ecology.

The prime consultant for this study is Mott MacDonald who will be responsible for field activities, data collection, data management, and reporting to Ecology. The key Mott MacDonald staff who will be involved in the project are:

- Eric Cutler, LHG: Project Manager
- Ashley Parkhurst: Field and Analysis Support
- Wayne Rennick: GIS Specialist

Yakima County or Mott MacDonald may contract the utility locate and drilling portion of the investigation.

1.3 Background and Problem Definition

Minimum functional standard (MFS) parameters and volatile organic compounds (VOCs), particularly tetrachloroethene (PCE) and trichloroethene (TCE), have been detected in onsite monitoring wells and a nearby industrial well. Ecology and Yakima County entered Agreed Order No. DE 22514 (AO) effective February 29, 2024. This QAPP relates to sampling that will be conducted to investigate the nature and extent of groundwater contamination in support of completing a Remedial Investigation (RI).

1.4 Task Description Summary

This QAPP is part of the RI Work Plan (RIWP). The RIWP includes groundwater, soil, and landfill gas composition sampling. These tasks will be summarized in the following section and further detail is provided in Section 2.

1.4.1 Project Goals and Objectives

The RIWP has the following objectives:

- Document the year-round fluctuations in water level and the resulting groundwater flow direction in the Tem aquifer.
- Document vertical flow gradients between the Tem (SWM-5d) and Teu-C (SMW-5s) aquifers.
- Understand the complex geologic units underlying Snipes Landfill and how the hydrogeologic conditions impact contaminant transport pathways.
- Evaluate the geochemical conditions to support the hydrogeologic model and assess the potential for biodegradation and natural attenuation based on geochemical conditions.
- Assess the completeness/incompleteness of transport pathways from landfill gas, soil, and leachate to groundwater.
- Identify Contaminants of Concern.
- Delineate the extent of PCE and any other contaminants of concern in groundwater, particularly to the north of Snipes Landfill.

1.4.2 Contaminants of Potential Concern

WAC 173-351 Criteria of Municipal Solid Waste (MSW) Landfill includes a list of constituents for MSW Landfill detection monitoring and leachate monitoring that are appropriate for use at this former MSW landfill site. Chemicals of Potential Concern (COPC) include WAC 173-351-990 Appendix I, II, and III parameters. Ecology additionally considers 1,4-dioxane and PFAS as COPCs.

1.5 Assessment Criteria

Data from Snipes Landfill will be assessed using the criteria proposed in the Data Summary Report (Mott MacDonald, 2024). Tables 3-1 and 3-2 in the RIWP include the groundwater and soil cleanup levels from MTCA, respectively.

1.6 Data Quality Objectives

Quality assurance objectives for measurement data are usually expressed in terms of accuracy and precision. The data will be evaluated using the parameters discussed below.

Definitions of these characteristics are as follows:

Accuracy. A sample spike is prepared by adding a known amount of a pure compound to the environmental sample (before extraction for extractables), and the compound is the same or similar (as in isotopically labeled compounds) as that being assayed for in the environmental sample. These spikes simulate the background and interferences found in the actual samples and calculated percent recovery of the spike is taken as a measure of the accuracy of the total analytical method. When there is no change in volume due to the spike, percent recovery is calculated as follows:

$$PR = \frac{(O - X) \times 100}{T}$$

Where:

PR = percent recovery

O = measured value of analyte concentration after addition of spike

X = measured value of analyte concentration in the sample before the spike is added

T = value of the spike

Tolerance limits for acceptable percent recovery established by the lab in accordance with Contract Laboratory Program National Functional Guidelines (CLP guidelines) will be followed for this project. Sample spike recoveries that fall outside the tolerance limits must be assessed and the problem identified and corrected. The result for that analyte in the unspiked sample is suspect and may not be reported for regulatory compliance purposes.

Surrogate spikes are also a measure of accuracy. When surrogate recoveries are outside the control limits established in the SW-846 methods, the corrective action procedures specified in the methods must be followed by the laboratory.

Precision. Aliquots are made in the laboratory of the same sample and each aliquot is treated exactly the same throughout the analytical method. The percent difference between the values of the duplicates, as calculated below, is taken as a measure of the precision of the analytical method.

$$RPD = \frac{2(D_1 - D_2) \times 100}{(D_1 + D_2)}$$

Where:

RPD = relative percent difference

D₁ = first sample value

D₂ = second (duplicated) sample value

The tolerance limit for percent differences between laboratory duplicates will be ± 20 percent. If the precision values are outside this limit, the laboratory should recheck the calculations and/or identify the problem. Reanalysis may be required. The result for that analyte in the unspiked sample is suspect and will be flagged when reported; it may not be viable for regulatory compliance purposes.

The tolerance limit for relative percent differences between the field duplicates will be ± 35 percent consistent with prior data investigations at the site. If the precision values are outside this limit, a replicate sample may be run to verify Laboratory precision. If precision limit exceedances are linked to field sampling, samplers should recheck field sampling procedures and identify the problem. Resampling and analysis may be required.

Representativeness. Representativeness is a qualitative term to evaluate how closely the measured results typify the environmental conditions. The sampling plan design, sampling techniques, and sample handling protocols are developed to ensure representative samples.

Comparability. Comparability is a qualitative term that expresses the confidence with which one data set can be compared with another. The use of standard techniques for sample collection and certified analytical laboratories for analyses should make the data comparable throughout the RI work as well as with pre-existing analytical data.

Completeness. Completeness is the percentage of valid measurements collected out of the planned number of measurements. Results will be considered valid if all the precision and accuracy targets are met. Internal laboratory quality control (QC) checks, preventive maintenance, and corrective action, as described in other sections of this document, will be implemented to help meet the Quality Assurance (QA) objectives established for these analyses.

1.6.1 Measurement Performance Criteria

The laboratory quality control samples are described in Section 2.5. The target tolerance limits established by the lab in accordance with United States Environmental Protection Agency (EPA) CLP Guidelines will be followed for this project. The limits are summarized below.

Laboratory Quality Control

Laboratory quality control samples for water will be method blanks, laboratory control samples (LCS), matrix spikes, and MS/MSDs.

The goal is to have no detectable contaminants in the method blank. If contamination is detected in the method blank sample, the nature of the interference and the effect on the analysis of each sample in the batch will be evaluated. The source of contamination will be investigated, and measures taken to minimize or eliminate the problem. Affected samples are reprocessed or data is appropriately qualified following CLP Guidelines.

LCS results are calculated in percent recovery. Results are compared to established acceptance criteria. A LCS that is within the criteria effectively establishes that the analytical system is in control and validates system performance for the samples in the associated batch. If a LCS result is found to be outside the criteria, this indicates that the analytical system is “out-of-control.” Any affected samples associated with an out-of-control LCS are reprocessed and re-analyzed (if possible), or the results reported with appropriate data qualifying codes.

The results from matrix spike analyses are expressed as percent recovery (%R) and RPD. Results are compared to the established acceptance criteria. If the results are outside the criteria, the cause is investigated and corrective actions are taken if necessary, or the matrix spike data is reported with appropriate qualifiers.

The results from matrix duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as RPD. Results are compared to established acceptance criteria. If results are outside the criteria, the cause is investigated and corrective actions are taken if necessary, or the matrix duplicate data is reported with appropriate

qualifiers. The acceptance criteria for matrix duplicate analysis vary between analytical methods and will follow the ARI standard laboratory procedures for soil and water samples.

1.7 Training and Certification

Direct push drilling will be performed by a Washington State licensed well driller. Laboratory services will be performed by labs accredited by Ecology.

1.8 Documents and Records

Mott MacDonald will be responsible for distributing an electronic version of the RIWP, QAPP, SAP, and RI Report to the individuals referenced on the distribution list (Section 1.1). These individuals will be responsible for distributing the report throughout their organizations as necessary.

The AO requires that Yakima County and all project contractors and subcontractors retain records, reports, documents, and data for 10 years after the completion of the AO. This requirement applies to reports, documents and data generated during the Remedial Investigation.

2 Data Generation and Acquisition

This RI at Snipes Landfill involves the collection of soil, groundwater, and landfill gas samples for laboratory analysis.

2.1 Sampling Process Design

A sampling design that achieves the DQOs described in Section 1.6 has been prepared and is detailed in the SAP.

2.2 Field Data Collection

2.2.1 Sampling Locations and Frequency

The sampling locations and frequencies were selected to meet the data quality objective of delineating the extent of impacts for pursuant to the evaluation of remedial actions. Soil sample locations were targeted near former operational features (e.g. septage lagoons) to assess the most likely location of potential impacts were also targeted in areas of known impacts to delineate the extent of those impacts. Groundwater samples target northern monitoring wells (SMW-1, SMW-4, SMW-5s, and SMW-5d) and select offsite locations. Further details are provided in the SAP.

2.2.2 Field Parameters to be Measured

The parameters that will be measured in the field are listed in Table B2-1. Instruments used to collect field parameters will be calibrated according to manufacturers' guidelines and recommendations at the beginning (prior to sampling) of each day. Calibration data will be recorded in the field notes.

2.2.3 Measurement and Sampling Procedures

Analytical samples will be collected in the field in accordance with the standard procedures outlined in the SAP.

2.2.4 Field Documentation

A complete record of field activities will be maintained on dedicated field forms for the duration of the field phase of the work. Documentation will include the following:

- Daily recordkeeping by field personnel of field activities,
- Recordkeeping of samples collected for analysis (field sampling forms),
- Use of sample labels and tracking forms for samples collected for analysis.

The daily field logs will provide a description of sampling activities completed, sampling personnel, daily weather conditions, and a record of modifications to the procedures and plans identified in the RIWP or related documentation. The field logs are intended to provide sufficient data and observations to enable staff to reconstruct events that occurred during the sampling period.

Field logs will be supplemented by sample collection forms, boring logs, and groundwater well logs completed by field staff, as applicable. The information that will be recorded in these forms is specified in the SAP (RIWP Appendix A).

Additional records associated with drilling will include the driller's daily reports and well-related documentation when a well is installed.

Sample possession and handling will also be documented with chain-of-custody (COC) forms so that it is traceable from the time of sample processing in the field, to delivery to the laboratory, and to the ultimate data analysis. Sample handling and COC procedures are described in Section 2.3.

2.2.5 Equipment Decontamination

The decontamination procedures and additional information on the field equipment and sampling and sampling techniques is provided in the SAP.

2.3 Sample Handling and Custody

Following collection, groundwater samples will be handled in the manner described below. A summary of analytical holding times is presented in Table B2-2.

- Place sample bottles in clean, insulated containers (coolers) containing ice to maintain the temperature near, but not at, or below, freezing. Use sufficient cooling materials to maintain temperature near freezing during the entire time of transport to the lab.
- Complete the appropriate COC forms and any other pertinent sampling/shipping documentation to accompany the samples. Maintain custody of samples from time of sampling to receipt at the laboratory. "Custody" means that samples remain in direct possession of a person who is recorded on the COC form or locked in secure vehicles or offices.
- Samples will be transferred to the analytical laboratory, accompanied by COC forms and any other pertinent shipping documentation. One set of COC forms will be used per laboratory shipment. Sample container custody seals will be used for all shipped containers not delivered directly to the lab by Mott MacDonald personnel. Seals will consist of breakable tape (such as paper masking tape) signed in ink by the person relinquishing the sample. The tape will be placed in such manner that the tape must be broken in order to open the sample container.

2.4 Analytical Methods and Laboratories

The analytical methods and hold times for all samples is presented in Table B2-2. All soil and groundwater samples will be submitted to Analytical Resources, Inc. (ARI) in Tukwila, Washington for analysis. Gas samples will be submitted to a accredited laboratory for air analyses (e.g. Eurofins)

2.5 Laboratory Quality Control

ARI will perform analyses of water quality and soil for the project. ARI is accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

EPA Contract Laboratory Program (CLP) QA/QC procedures or similar efforts will be used for the analyses. ARI will follow the ARI Quality Assurance Manual.

Preparation batches have a maximum of 20 field samples of the same matrix. QA/QC samples processed with each batch are:

- One method blank. The method blank is used to assess the preparation batch for possible contamination during the preparation and processing steps. It is processed along with and under the same conditions as the associated samples.
- One laboratory control sample (LCS). The LCS is used to evaluate the performance of the total analytical system, including all preparation and analysis steps.
- One matrix spike (MS), if suitable. Matrix specific QA/QC samples indicate the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. The information from these controls is sample/matrix specific and is not normally used to determine the validity of the entire batch.
- One matrix spike and matrix spike duplicate (MS/MSD). MS/MSDs are replicate aliquots of the same sample taken through the entire analytical procedure. The results from this analysis indicate the precision of the results for the specific sample using the selected method. One duplicate sample is analyzed with each preparation batch. If sufficient sample is provided, this will be an MS/MSD. If not, a laboratory control sample duplicate will be analyzed.

Target acceptance criteria are discussed in Section 1.6.

2.6 Data Management, Verification, Validation, and Assessment

The data generated from field and laboratory measurements will be managed, evaluated, and reported. The data are evaluated to verify that data quality objective (DQO) criteria for Accuracy, Precision, Representativeness, Completeness, and Comparability are obtained. Data validation will be performed regarding the following as a usability assessment, as appropriate to the particular analysis: sample documentation/custody, holding times, reporting limits, blank spike, matrix spike and surrogate percent recoveries, laboratory duplicates, comparability, and completeness. If the DQOs have not been met, the data will be assessed to determine if they are still useable to help fill data gaps listed in the RIWP.

As with prior groundwater and landfill gas monitoring, all field and laboratory data will be entered into an Access database for ongoing management and interpretation by Mott MacDonald.

Ultimately, the assessment of the meaningfulness of the data to fill data gaps, improve the site conceptual model, and inform future work will be carried out as part of the RIWP and Reporting. The final RI Report data will be uploaded to Ecology's Environmental Information Management (EIM) database as required by the AO.

3 References

Mott MacDonald. (2024). *Data Summary Report, Closed Snipes Mountain Landfill*. Prepared for: Yakima County Solid Waste, July 31, 2024.

Washington Department of Ecology (Ecology). (2024). In the Matter of Remedial Action by: Yakima County, Agreed Order No. DE 22514.

Table B2-1. Measured Field Parameters

Closed Snipes Mountain Landfill

Parameter	Unit	Resolution	Ranges	Accuracy	Stability Criteria
Groundwater: YSI					
Conductivity	uS/cm	0.1	0-200 mS/cm	±0.5% of reading or 0.001 mS/cm, whichever is greater	No indication of a trend. Does not vary by more than 10% between readings.
Dissolved Oxygen (DO)	mg/L	0.01	0-50 mg/L	0-20 mg/L ± 2% of the reading or 0.2 mg/L, whichever is greater 20-50 mg/L ± 6% of the reading	No indication of a trend. Does not vary by more than 10% between readings.
Oxidation-Reduction Potential (ORP)	mV	0.1	-1999 to +1999 mV	±20 mV	No indication of a trend. Does not vary by more than 10% between readings.
pH	standard units	0.01	0-14 standard units	±0.2 standard units	No indication of a trend. Does not vary by more than 0.1 pH standard units between readings.
Temperature	°C	0.1	-5 to 70°C	±0.2°C	No indication of a trend. Does not vary by more than 1°C between readings.
Landfill Gas: GEM 5000					
Oxygen (O2)	%	0.1	0-100% (vol)	0-5% ± 0.3% (vol); 0-70% ± 0.5%	Does not vary more than 0.1 within 5 seconds.
Carbon Dioxide (CO2)			0-100% (vol)	0-5% ± 0.3% (vol); 0-60% ± 0.5%	
Methane (CH4)			0-25% (vol)	0-25% ± 1.0% (vol)	
Barometric Pressure	in. Hg	0.01	-	± 1.0%	-
Static Pressure			-	-	-
PID: ppbRAE 3000					
VOCs	ppb	1 ppb	0-9999 ppb	10 to 2000 ppm: ±3.0% at calibration point	3 second response time.
	ppm	0.01 ppm	10-99 ppm		
		0.1 ppm	100-999 ppm		
		1 ppm	1000-9999 ppm		

% = percent

°C = degrees Celsius

in. Hg = inches mercury

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

mV = millivolts

ppb = parts-per-billion (equivalent to ug/kg)

ppm = parts-per-million (equivalent to mg/kg)

uS/cm = microSiemens per centimeter

VOCs = volatile organic compounds

vol = volume

Table B2-2. Sample Handling
Closed Snipes Mountain Landfill

Constituent Group	Groundwater					Soil				
	Analytical Method	Units	Container	Preservative	Hold Time (days)	Analytical Method	Units	Container	Preservative	Hold Time (days)
1,4-Dioxane	EPA 8270D	ug/L	2x500mL AG	None	7	-	-	-	-	-
Alkalinity	SM 2320 B-11	mg/L	500 mL HDPE	None	14	-	-	-	-	-
Ammonia-N	SM 4500-NH3 H-11	mg/L	500 mL HDPE	H2SO4	28	-	-	-	-	-
Chemical Oxygen Demand (COD)	EPA 410.4	mg/L	250mL AG	None	28	-	-	-	-	-
Chloride	EPA 325.2	mg/L	500 mL HDPE	None	28	-	-	-	-	-
Chlorinated Phenols	EPA 8041A	ug/L	2x500mL AG	Na2S2O3 H2SO4	7	-	-	-	-	-
Dioxin/Furans	EPA 8290A	pg/L	2x1000mL	None	30	-	-	-	-	-
Metals (Dissolved)	EPA 6010D/6020B/ 200.7/200.8/7470A	mg/L	500 mL HDPE	HNO3	180	-	-	-	-	-
Metals (Total)	EPA 6010D/6020B/ 200.7/200.8/7470A	mg/L	500 mL HDPE	HNO3	180	EPA 6010D/6020B/ 200.7/200.8/7470B	mg/kg	4oz wide-mouth glass	None	180
Nitrate + Nitrite-N	EPA 353.2	mg/L	500 mL HDPE	None	2	-	-	-	-	-
Nitrate-N						-	-	-	-	-
Nitrite-N						-	-	-	-	-
PAHs	EPA 8270D-SIM	ug/L	2x500mL AG	None	7	-	-	-	-	-
Pentachlorophenol	EPA 604/8041B	ug/L	2x500mL AG	None	7	-	-	-	-	-
Pesticides	EPA 608/8081B	ug/L	2x500mL AG	None	7	-	-	-	-	-
PFAS	EPA 1633	ng/L	2x500mL PFAS-free HDPE	None	7	-	-	-	-	-
Sulfate	EPA 375.2	mg/L	500 mL HDPE	None	28	-	-	-	-	-
SVOCs	EPA 625/8270	ug/L	2x500mL AG	None	7	EPA 8270E	ug/kg	8oz wide-mouth glass	None	14
Total Organic Carbon (TOC)	EPA 9060A/SM 5310	mg/L	250mL AG	H2SO4	28	-	-	-	-	-
VOCs	EPA 8260D/8260D-SIM	ug/L	3x40mL vials / 5x40mL vials	HCl	7	EPA 8260	ug/kg	3x40mL vials	methanol	14

Preservative listed assumed samples are kept at temperatures between 0-6 degrees Celsius.

AG = amber glass

H2SO4 = sulfuric acid

HDPE = high-density polyethylene

HCL = hydrochloric acid

HNO3 = nitric acid

MDL = method detection limit

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

mL = milliliter

Na2S2O3 = sodium thiosulfate

PAH = polycyclic aromatic hydrocarbons

PFAS = per- and polyfluoralkyl substances

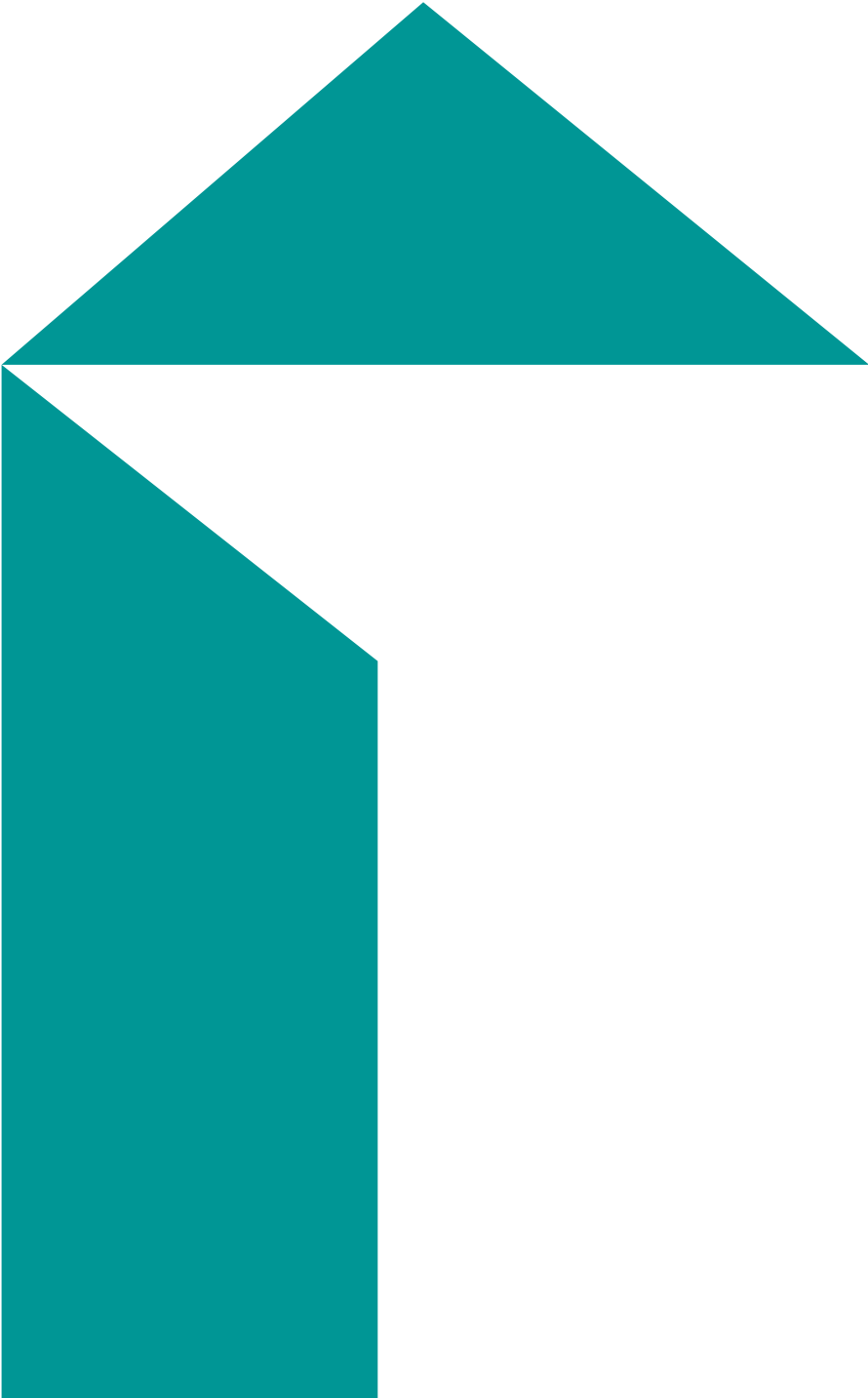
pg/L = picograms per liter

SVOCs = semi-volatile organic compounds

ug/kg = micrograms per kilogram

ug/L = micrograms per liter

VOCs = volatile organic compounds



Appendix C. Health and Safety Plan (HASP)

Mott MacDonald

HEALTH AND SAFETY PLAN

Closed Snipes Mountain Landfill Remedial Investigation, Sunnyside, Washington

Revised: 8/23/2024

Job No.	518300030-003		
Name of Site:	Snipes Mountain Landfill		
Address of Site:	1150 Luther Road Sunnyside, WA 98944		
Client:	Yakima County Public Works, Solid Waste Division		
Site Contact:	Karma Suchan (509) 574-2455		
Site Activities Planned:	Groundwater sampling at monitoring wells; landfill gas monitoring at gas probes, passive gas extraction system, and flare; soil sampling at former septage lagoons		
Activity	Location	Date	
Collect Groundwater Samples	Monitoring wells: SMW-1, SMW-2, SMW-4, SMW-5s, SMW-5d	Quarterly, ongoing	
Monitor Landfill Gas	Landfill gas probes, passive gas extraction system, and flare	Quarterly, ongoing	
Soil Sampling	Former septage lagoons; southeastern property boundary	2025 Q1 or Q2	
Estimation of Direct Exposure Hazard to Mott MacDonald Personnel:			
High	Medium	Low <u>X</u>	None
Physical Description of the Facility:			
Snipes Mountain Landfill is a former solid waste landfill and transfer center with mostly paved roads, some dirt/gravel roads, a transfer station structure, weigh station structure, and supply well structure and water tank.			
Operational Description of the Facility:			
Snipes Mountain Landfill is inactive.			
Site Status:	Active ☐	Inactive ☒	Abandoned ☐ Unknown ☐
Chemical State:	Liquid ☒	Solid ☐	Gas ☐ Other ☐ Unknown ☐
Chemical Characteristics:			
Corrosive ☐	Flammable ☒	Toxic ☒	Volatile ☒ Inert ☐ Other ☐
List of Chemicals of Concern:			
Chemical Name	Physical/Chemical Characteristics	Regulatory Standards	Exposure Routes/Symptoms
Methane	Colorless gas	5% = Lowe Explosive Limit (LEL)	Flammable, asphyxiant in enclosed spaces
Tetrachloroethylene	Colorless liquid with a mild, chloroform-like odor.	PEL =TWA 100 ppm C 200 ppm 300 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact. Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]
Trichloroethylene	Colorless liquid (unless dyed blue) with a chloroform-like odor.	PEL = TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 2 hours)	Inhalation, skin absorption, ingestion, skin and/or eye contact. Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]
Vinyl Chloride	Colorless gas or liquid (below 7°F) with a	PEL = TWA 1 ppm C 5 ppm [15-minute]	Inhalation, skin absorption, ingestion, skin and/or eye contact. Lassitude (weakness,

	pleasant odor at high concentrations.		exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	
1,2-Dichloroethylene	Colorless liquid (usually a mixture of the cis & trans isomers) with a slightly acrid, chloroform-like odor.	PEL = TWA 200 ppm (790 mg/m3)	Inhalation, skin absorption, ingestion, skin and/or eye contact Irritation eyes, respiratory system; central nervous system depression	
Ethylbenzene	Colorless liquid with an aromatic odor	PEL = 100 ppm	Inhalation, ingestion, contact/ irritated eyes, skin, mucous membrane, head, coma.	
Toluene	Colorless liquid with a sweet, pungent, benzene-like odor	PEL = 200 ppm	Inhalation, absorption, ingestion, contact/ irritated eyes, nose, fatigue, weakness, confusion, euphoria, dizziness, dilated pupils, muscle fatigue, liver and kidney damage	
Xylene	Colorless liquid with an aromatic odor	PEL = 100 ppm	Inhalation, absorption, ingestion, contact/ irritated eyes, skin, nose, throat, dizziness, excitement, drowsiness, staggering gait, nausea, vomiting, abdominal pain	
Hazards of Concern:				
Cold Stress ☒	Heat Stress ☒	Explosive ☐	Flammable ☒	Oxygen Deficient ☒
Inorganic Chemicals ☒	Excessive Noise ☒	Organic Chemicals ☒	Heavy Equipment ☒	
Describe Potential Environmental Hazards:				
Exposure to chemicals of concern. Sampling and exposure to potentially flammable landfill gas. Working during seasonally hot or inclement weather. Working with and around heavy machinery. Uneven surfaces and remote location.				
Describe Potential Worker hazards:				
• Working with or near heavy equipment (i.e. drill rig, generators) • Flying debris and falling equipment from drilling rig and operations • Sustained low noise from drilling equipment and sampling equipment (air compressors, generators) • Falling and tripping hazards when moving over unstable or rough terrain • Working with tools to open wells (pinches, scrapes, bumps) • Heat and cold stress, seasonally • Fueling generators and gas-powered equipment • Landfill gas is potentially explosive when above the LEL (5%) • Strain from lifting/maneuvering heavy objects or maintaining non-ergonomic postures				
ACTIVITY CONSIDERATIONS				
Will site representative be present?	Yes ☒	Consultant familiar with site will be present		
Exact location of chemicals:	Known ☒	Assumed ☒	Unknown ☐	
Identify nearest offsite population and describe:	Residential ☒	Industrial ☒	Rural ☒	Urban ☐
Snipes Mountain Landfill is located in a rural area with few nearby residences and an approximately 15-minute drive to the nearby small town of Sunnyside, WA. On-site activities are industrial in nature.				

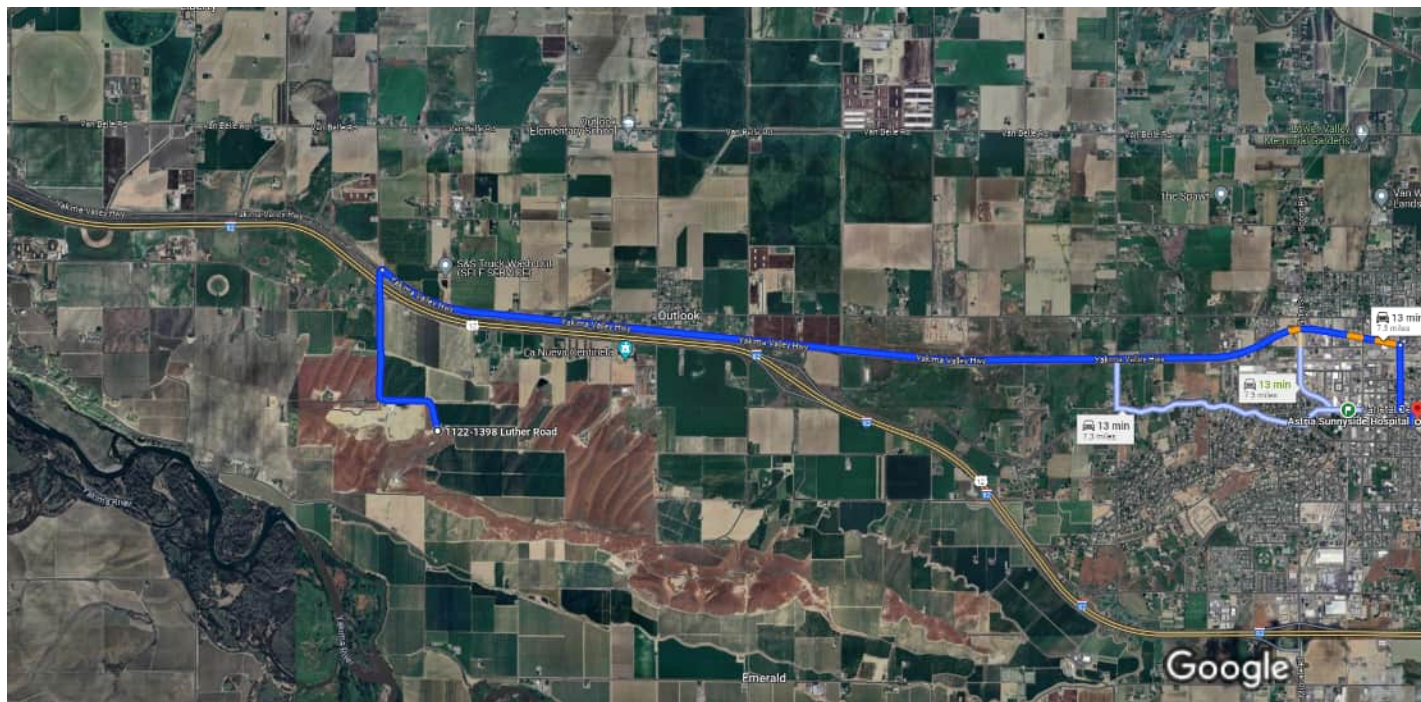
SAFETY CONSIDERATIONS			
If there is more than one level of hazard, or if there are multiple "sites" within a site, a separate page should be completed to show specific safety considerations for each location.			
One location: 1150 Luther Road Sunnyside, WA 98944			
Objective of Work at this Location:			
Groundwater and landfill gas monitoring; exploratory drilling to sample soil cores for site characterization.			
Level of Protection Planned:	C ☐	D ☒	
Possible Modifications:			
Upgrade to level C [respirator with volatile organic filter] if PID readings exceed 1 ppm in working air space.			
Monitoring Equipment:			
PID (as needed) ☒	O2 meter ☐	Explosimeter ☐	
H2S meter ☐	Other ☒ (Visual)		
Action Levels:			
• 1 ppm • 5% by volume			
PERSONAL PROTECTIVE EQUIPMENT			
Head:	Hard hat whenever drill rig is onsite		
Foot:	Steel-toed boots		
Hand:	Chemical resistant gloves (during all sample handling and drilling)		
Eye/Face:	Protective glasses whenever drill rig is active or around load or sample bottles		
Clothing:	Coveralls or appropriate work clothes		
Respiratory:	Face mask when visible dust is generated		
Additional Gear:	Noise protection when noise levels exceed 85 decibels		
ALL PERSONS ON SITE MUST WEAR HARD HATS, SAFETY GLASSES, AND STEEL-TOE BOOTS DURING DRILLING.			
Work Party:			
Name of Personnel	Responsibility	Level of Protection	
Eric Cutler	Project Manager	Level C or D	
Ashley Parkhurst	Sampler	Level C or D	
	Sample	Level C or D	
Safe Entry Procedures: Wear appropriate PPE			
Criteria for Changing Protections:			
PID monitoring 1 ppm during drilling activities.			
Decontamination Procedures:			
Disposable PPE will be removed at the end of each day and disposed of as nonhazardous waste unless grossly contaminated. Work boots in contact with site soils should be brushed off while at the site.			
Work Limitations (time of day, conditions, etc.):			
WORK WILL BE LIMITED TO DAYLIGHT HOURS.			

Locations of Interest:			
Phone: A cellular telephone will be used by field personnel.			
Running Water Source: Drinking water will be brought to the site.			
Public Road: Luther Road			
Restroom: Offsite facilities. There are no onsite facilities			
EMERGENCY PLANNING			
Name	Contact Person	Phone Number	
Local Police:		911	
Local Ambulance:		911	
Local Fire Department:		911	
Poison Control:		911	
Local Hospital:	Astria Sunnyside Hospital	(509) 837-1500	
Hospital Address:	1016 Tacoma Ave, Sunnyside, WA 98944		
Ecology:	Luke LeMond	(509) 379-3961	
Project Manager:	Eric Cutler	(425) 967-7202	
Provide Directions to Nearest Available Medical Facility (map attached):			
Head north on Luther Road toward Farm Road (go 1.1 miles).			
Turn right onto Yakima Valley Highway (go 5.7 miles).			
Turn right onto N 9 th St (go 0.4 miles).			
Turn left onto E Edison Ave (go 344 ft).			
Turn right onto S 10 th St (go 387 ft).			
Arrive at Astria Sunnyside Hospital on the left.			
Approvals	Date	Signature	
Sampler:			
Sampler:			
Project Manager:			



1122-1398 Luther Rd, Outlook, WA 98938 to Astria
Sunnyside Hospital, 1016 Tacoma Ave, Sunnyside, WA 98944

Drive 7.3 miles, 13 min



Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, USDA/FPAC/GEO, Map data ©2024 Google 2000 ft

1122-1398 Luther Rd
Outlook, WA 98938

- ↑ 1. Head north on Luther Rd toward Farm Rd
1.1 mi
 - ↘ 2. Turn right onto Yakima Valley Hwy
5.7 mi
 - ↘ 3. Turn right onto N 9th St
0.4 mi
 - ↙ 4. Turn left onto E Edison Ave
344 ft
 - ↘ 5. Turn right onto S 10th St
387 ft
- i** Destination will be on the left

Astria Sunnyside Hospital
1016 Tacoma Ave, Sunnyside, WA 98944

Appendix D. Historical Groundwater Analytical Tables

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
<u>Field Parameters</u>							
Dissolved oxygen, mg/L							
	2006 Q4	9.5	8.7				5.25
	2009 Q2						3.56
	2011 Q2	8	7.6		2	0.2	4.4
	2011 Q4		6.77		2.3	0.2	3.35
	2012 Q4						
	2013 Q2	3.48	7.05		0.64	0.87	3.36
	2014 Q2	4.11	8.1		1.1	1.1	4.72
	2014 Q4	6.96	8.88		0.84	0.5	4.93
	2015 Q2		7.66		2.37	0.15	4.49
	2015 Q4		9.23		0.6	2.43	5.29
	2016 Q2		8.51			0.8	3.43
	2017 Q2	6.53					
	2018 Q2		6.92			1.2	3.84
	2019 Q2						
	2019 Q4	6.25					
	2020 Q2	5.88			2.54		5.29
	2021 Q4	5.8	8.17		7.42		4.12
	2023 Q2	5.5	7.95			2.96	
	2023 Q4	5.21	4.59		1.21	1.35	2.89
Oxidation Reduction Potential, mV							
	2006 Q2		-76.3	-61.7	-24.8	-50.3	-57
	2006 Q4	-38.4	-13.1				-95.2
	2007 Q2		-70.3		-45	-39.4	-44.5
	2007 Q4	-52	-68		-44	-58	-61
	2008 Q2	10.7	63.8		17.8	67.6	60.3
	2008 Q4	132	119.1		133.9	-134.5	29
	2009 Q2	31.6	41.3		60.6		13.2
	2009 Q4	-185	-176		-221	-249	-250
	2010 Q2	-20	20		50	-170	-52
	2010 Q4	1	37		-3	-165	-52
	2011 Q2	36	12		22	-164	-73
	2011 Q4	117	175		121.1	-144	-65
	2012 Q2	-42	-60		-64	-164	-82
	2012 Q4	-68	-8.9		-158	-251	-115.4
	2013 Q2	168.1	183.1		131.3	-144.1	-18.3
	2013 Q4						
	2014 Q2	39	37.3		34.8	-57.9	33.7
	2014 Q4	36.9	32.2		-4.5	-56.6	-5.8
	2015 Q2		-19.7		-45.2	-102.3	-14.4
	2015 Q4		33.3		17.8	1.6	12.9
	2016 Q2		71.4			46.3	49.9
	2017 Q2	93	101			-87	49
	2017 Q4	-68.7	-86.1			-62.7	-60.6
	2018 Q2		44.4			-12.7	-13.1
	2018 Q4	-62.2	-72.4				-63.5
	2019 Q2	95.6	139				-4.9
	2019 Q4	-84.1	-111.8				-97.6
	2020 Q2	116.3	131.6		107.7		84.8
	2021 Q4	-90	37		41.6		17.3
	2023 Q2	36	-3.9			95.3	

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
pH, Field, std. units	2023 Q4	53.1	68.5		71.8	94	62.8
	1989 Q3		7.53	7.57			
	1989 Q4	7.47	7.63	7.91			
	1990 Q1	7.34	7.24	7.36			
	1990 Q2	7.3	7.51	7.79			
	1990 Q4		7.4	7.6			
	1991 Q1	7	7.1	7.2			
	1991 Q2	7.4	7.5	7.6			
	1991 Q3	6.87	7.75	7.78			
	1991 Q4	7.96	7.96	8.02			
	1992 Q1	7.44	6.75	7.64			
	1992 Q2	6.95	7.44	7.57			
	1992 Q3		7.4				
	1992 Q4	7.35	7.31				
	1993 Q1	7.36	7.29	7.37			
	1993 Q2	7.42	7.36	7.44			
	1993 Q3	6.59	6.59	7.4			
	1993 Q4	7.18	7.2	7.32	7.35	6.52	8.2
	1994 Q1	7.9	8	8.01	8.16	7.97	8.15
	1994 Q2	6.4	6.5	6.4	7.3	7	7.55
	1994 Q3		7.67	7.69		7.93	
	1994 Q4	7.3	7.8	7.7	7.7	7.8	7.5
	1995 Q1	6.6	6.7	6.8	6.8	6.6	7.05
	1995 Q2	7.3	6.5		7	6.8	
	1995 Q3		7.6	7.7		7.7	8.2
	1995 Q4	7.6	7.9	7.9	7.8	7.7	8.2
	1996 Q1	6.9	7.6	7.7	7.7	7.3	7.4
	1996 Q2	6.9	7	7	6.9	6.9	7.3
	1996 Q3		7.6	7.6		7.7	8.1
	1996 Q4	7.12	7.18	7.15	7.08	7.05	7.09
	1997 Q1	6.9	7.12	7.11	7.06	7.18	7.07
	1997 Q2	6.84	7.02	7.32	7.19	7.28	7.02
	1997 Q3	6.87	7.04	7.24	7.16	7.13	7.01
	1997 Q4	6.66	7.05	7.08	6.98	6.86	6.47
	1998 Q1	7.4	6.67	7.4	7.32	6.36	7.15
	1998 Q2	7.67	7.59	7.66	7.51	7.56	7.98
	1998 Q4	7.73	7.78	7.94	7.48	7.76	8.08
	1999 Q2	7.2	7.3	7.5	7.9	7.9	7.9
	1999Q4.3	7.9	7.74	7.83	7.76	7.85	8.1
	2000 Q2.3	7.5	7.85	7.91	7.96	7.79	8.19
	2000 Q4.3	8.26	7.89	8.08	8.01	8.06	8.22
	2001 Q2	7.73	7.79	7.83	7.62	7.7	7.94
	2001 Q4	8.33	8.75	9.58	8.68	9.44	8.84
	2002 Q2	9.06	9.29	9.63	9.2	9.1	9.3
	2002 Q4	7.8	7.93	7.02	7.05	7.87	7.65
	2003 Q2		7.28	7.31	7.04	7.35	7.59
	2003 Q4		7.15	7.15	7.16	7.1	7.1
	2004 Q2	7.01	7.45	7.64	7.61	7.57	7.64
	2004 Q4	7.26	8.05	8.06	7.78	7.98	7.92
	2005 Q2	6.88	7.45	7.35	7.08	7.56	7.74
	2005 Q4	8.42	8.46	7.97		7.82	7.92
	2006 Q2		8.22	7.94	7.28	7.73	7.83

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2006 Q4	7.68	8.18				7.8
	2007 Q2		7.89		7.3	7.2	7.4
	2007 Q4	7.63	7.97		7.5	7.8	7.91
	2008 Q2	5.56	5.87		6.38	6.01	5.75
	2008 Q4	7.48	7.52		7.24	7.2	7.4
	2009 Q2	7.76	8.05		7.82		7.9
	2009 Q3						7.61
	2009 Q4	7.82	8.31		7.94	8.2	8.29
	2010 Q2	7.06	7.37		7.3	7.63	7.67
	2010 Q4	7.67	8.09		7.52	7.68	7.72
	2010-Q2.5						7.63
	2011 Q2	7.2	8		7.7	7.7	7.8
	2011 Q4	7.34	8.27		7.79	7.76	7.75
	2012 Q2	7.37	8.11		7.81	7.84	7.91
	2012 Q4	7.87	7.99		7.67	7.94	7.9
	2013 Q2	7.27	7.34		7.38	7.5	7.53
	2013 Q4	7.91	8.19		7.51	7.91	7.81
	2014 Q2	7.03	7.56		7.55	7.7	7.74
	2014 Q2.5					7.76	
	2014 Q2.6					7.79	
	2014 Q4	7.79	8.13		7.49	7.79	7.81
	2014 Q4.2						
	2015 Q2		6.88		7.01	7.24	7.24
	2015 Q4		7.93		7.49	7.84	7.66
	2016 Q1	7.74					
	2016 Q2		7.79			7.83	7.72
	2016 Q4	7.87	8.17			7.96	7.87
	2017 Q2	8.06	8.12			8	7.87
	2017 Q4	7.95	8.2			7.79	7.74
	2018 Q2		7.62			7.64	7.63
	2018 Q4	7.9	8.07				7.94
	2019 Q2	7.57	7.35				7.95
	2019 Q4	9.88	8.45				7.95
	2020 Q2	7.52	7.61		7.4		7.5
	2020 Q4	7.54	7.79		7.72		7.62
	2021 Q2	7.7	7.83		6.71		7.66
	2021 Q4	7.33	7.7		7.61		7.42
	2022 Q4	7.11	7.45		7.47	7.59	6.48
	2023 Q2	7.24	7.47			7.94	6.5
	2023 Q4	7.34	7.02		7.25	7.45	6.14
pH, Lab, std. units							
	1996 Q3		6	6.5		6.5	7
	1997 Q1						
	2001 Q2						
	2001 Q4						
Specific Conductance @ 25C, Field, umhos/cm							
	1989 Q3		309	230			
	1989 Q4	502	369	273			
	1990 Q1	526	361	289			
	1990 Q2	577	365	280			
	1990 Q4		411	299			
	1991 Q1	602	408	310			
	1991 Q2	540	370	284			

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1991 Q3	640	292	216			
	1991 Q4	547	374	278			
	1992 Q1	559	375	365			
	1992 Q2	550	350	280			
	1992 Q3		377	288			
	1992 Q4	490	366				
	1993 Q1	524	370	279			
	1993 Q2	555	370	282			
	1993 Q3	542	340	273			
	1993 Q4	512	350	265	269	268	553
	1994 Q1	460	310	240	255	255	280
	1994 Q2	590	366	277	292	294	322
	1994 Q3		340	245		260	270
	1994 Q4	450	300	235	260	245	265
	1995 Q1	540	382	290	304	286	230
	1995 Q2	450	310		285	260	
	1995 Q3		318	236		240	291
	1995 Q4	420	305	230	255	245	280
	1996 Q1	420	310	275	270	255	275
	1996 Q2	448	297	225	238	237	268
	1996 Q3		389	303		316	350
	1996 Q4	350	250	190	200	200	220
	1997 Q1	480	310	210	220	240	260
	1997 Q2	490	310	230	250	240	280
	1997 Q3	440	280	210	220	220	240
	1997 Q4	400	260	210	210	210	230
	1998 Q1	420	300	230	260	250	260
	1998 Q2	510	330	250	260	260	290
	1998 Q4	568	421	357	312	344	429
	1999 Q2	451	338	252	276	310	306
	1999Q4.3	459	319	241	265	250	268
	2000 Q2.3	515	346	412	463	292	312
	2000 Q4.3	599	391	340	276	296	298
	2001 Q2	489	356	286	291	294	323
	2001 Q4	710	340	240	360	250	400
	2002 Q2	670	420	320	350	350	390
	2002 Q4	710	420	370	370	360	340
	2003 Q2		339	261	293	276	324
	2003 Q4		302	243	267	204	276
	2004 Q2	520	330	250	300	270	310
	2004 Q4	558	375	287	313	298	334
	2005 Q2	625	394	288	310	319	377
	2005 Q4	459	338	241		252	313
	2006 Q4	551	377				365
	2008 Q2	465	314		257	252	335
	2008 Q4	513	353		298	271	375
	2009 Q2	591	389		320		436
	2009 Q3						368
	2009 Q4	504	387		325	301	424
	2010 Q2	645	433		361	344	542
	2010 Q4	518	365		310	279	372
	2010-Q2.5						460
	2011 Q2	587	377		313	286	534
	2011 Q4	384	371		320	286	518

* CONF = Confluent growth on all dilutions, no coliforms. qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2012 Q2	564	362		306	291	565
	2012 Q4	433	286		277	226	457
	2013 Q2	524	348		305	263	553
	2013 Q4	462	331		283	243	489
	2014 Q2	620	395		352	298	660
	2014 Q2.5					245	
	2014 Q2.6					199.8	
	2014 Q4	460.1	330.2		306.6	252	551
	2014 Q4.2						
	2015 Q2		340.7		336.7	284	627
	2015 Q4		325		313.3	245.5	506
	2016 Q1	494					
	2016 Q2		368.1			239.1	569.8
	2016 Q4	485.1	357.2			269.3	490.9
	2017 Q2	479	348			270	525
	2017 Q4	482.3	353.2			260.4	521
	2018 Q2		335			266	532
	2018 Q4	539.9	388.7				625.5
	2019 Q2	1062	729				1008
	2019 Q4	536	374				611
	2020 Q2	539.2	399		361.7		616
	2020 Q4	518.1	362.2		333.9		488.1
	2021 Q2	563.3	392.7		364.2		584.9
	2021 Q4	522	402		367		589
	2022 Q4	564.6	406.6		328.7	276.2	451.9
	2023 Q2	556	399			277	442.3
	2023 Q4	551	395		342	269	249
Temperature, C							
	1989 Q3		18.1	18.1			
	1989 Q4	16.2	17.5	17.5			
	1990 Q1	16.8	17.9	18.1			
	1990 Q2	18	18	19			
	1990 Q4		18.33	18.89			
	1991 Q1	16.67	16.67	16.67			
	1991 Q2	16.67	17.78	17.78			
	1991 Q3	17.22	19.44	20.56			
	1991 Q4	16.1	16.67	17.22			
	1992 Q1	15.5	14.4	16.1			
	1992 Q2	16.67	17.78	17.78			
	1992 Q3		18.33	18.89			
	1992 Q4	16.7	17.22				
	1993 Q1	16.7	17.22	17.78			
	1993 Q2	16.7	17.78	18.33			
	1993 Q3	17.8	18.89	18.89			
	1993 Q4	16.7	16.67	16.67	17.8	18	16.7
	1994 Q1	16.5	17	17.5	19	18	17
	1994 Q2	16.67	17.78	17.78	19	19	17.8
	1994 Q3		19	18.5		19	17.5
	1994 Q4	14	16	15	19	17	16.5
	1995 Q1	16.7	17.2	17.2	20.6	18.9	17.8
	1995 Q3		18.9	17.8		18.9	17.8
	1995 Q4	15	16	16	18.5	18	16.5
	1996 Q1	15.2	16.6	18	20.3	18.2	17.6

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q2	15	15.6	15.6	20	17.8	16.7
	1996 Q3		19.4	20.6		20	20
	1996 Q4	14	13	15	17	15	15
	1997 Q1	57	58	59	64	62	60
	1997 Q2	15.6	16.7	16.7	22.2	17.8	16.7
	1997 Q3	15.6	16	15.6	18.9	17.8	16.7
	1997 Q4	13.3	13.3	14.4	16.1	15.6	15
	1998 Q1	14.5	16	16.5	19	17	17.9
	1998 Q2	16.7	17.2	17.5	21.1	18.3	17.8
	1998 Q4	13.8	14.4	15	18.9	13.4	13.4
	1999 Q2	16.1	16.1	17.8	21.1	16.1	18.9
	1999Q4.3	15.3	16.3	16.4	17.8	15.8	15.8
	2000 Q2.3	21.1	22	21	23.9	22.6	20.9
	2000 Q4.3	10.4	12.7	11.3	12.7	12.4	13.4
	2001 Q2	17.1	18.8	17.4	21.4	22.2	21
	2001 Q4	15.7	19.2	20	17.5	16.5	16.4
	2002 Q2	36.5	65.4	20.8	23.7	21	21.4
	2002 Q4	19.2	15.5	18.5	18.8	18.3	18.6
	2003 Q2		20.4	19.8	22.1	25.7	20.2
	2003 Q4		14.8	15.1	17.1	17.4	15.8
	2004 Q2	14.4	16.1	15.6	17.2	16.7	15.6
	2004 Q4	16.1	16.4	16.8	16.6	17.8	17.2
	2005 Q4	15	15	15		15.6	15.6
	2006 Q2		17.4	17.7	26.4J	18.8	18.4
	2006 Q4	16.49	16.95				17.51
	2007 Q2		17.1		18.8	18.3	17.5
	2007 Q4	17.3	17.5		20.6	18.8	18.2
	2008 Q2	17.2	17.36		20.87	18.61	17.82
	2008 Q4	16.6	16.8		18.8	18.1	17.8
	2009 Q2	16.99	17.66		21.67		17.77
	2009 Q3						17.8
	2009 Q4	16.35	16.8		19.69	18.21	17.58
	2010 Q2	17.3	17.7		21.3	18.9	18.2
	2010 Q4	16.8	17.3		19.2	18.5	17.9
	2010-Q2.5						17.9
	2011 Q2	16.8	17.4		17.9J	18.4	17.7
	2011 Q4	16.25	16.6		19.06	18.02	17.46
	2012 Q2	16.88	17.02		20.34	18.59	17.71
	2012 Q4	16.65	16.82		20.8	18.14	17.7
	2013 Q2	16.8	17.18		20.6	18.61	17.69
	2013 Q4	16.6	16.9		19.5	18.1	17.7
	2014 Q2	16.7	17.2		21.3	18.3	17.8
	2014 Q2.5					20.4	
	2014 Q2.6					18.8	
	2014 Q4	16.4	16.8		19.9	18.1	17.5
	2014 Q4.2						
	2015 Q2		17.4		23	18.6	17.9
	2015 Q4		16.8		20.2	17.9	17.4
	2016 Q1	16.7					
	2016 Q2		17.2			18.6	18.3
	2016 Q4	15.9	16.7			17.9	17.5
	2017 Q2	17.33	17.72			18.65	18.17
	2017 Q4	16.7	17.1			18.2	17.7
	2018 Q2		17.2			18.51	17.83

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2018 Q4	16.5	16.9				17.6
	2019 Q2	17	17.3				17.9
	2019 Q4	16.54	16.9				17.75
	2020 Q2	17	17.4		16.9		17.8
	2020 Q4	16.2	16.4		7.5		17.4
	2021 Q2	17.3	17.3		25		17.8
	2021 Q4	16.4	16.75		9.95		17.69
	2022 Q4	16.1	16.5		16.2	14.4	12.2
	2023 Q2	16.7	16.9			19.13	20.9
	2023 Q4	15.83	16.68		16.38	14.02	13.99

Inorganics

Alkalinity as CaCO3, Total, mg/L CaCO3

1995 Q1	99	110	120	110	110	120
1995 Q4	110	120	110	110	110	120
1996 Q2	110	120	120	110	110	120
1996 Q3		110	120		100	120

Alkalinity, Bicarbonate, mg/L CaCO3

1995 Q1	99	110	120	110	110	120
1995 Q4	110	120	110	110	110	120
1996 Q2	110	120	120	110	110	120
1996 Q3		110	120		100	120

Alkalinity, Carbonate, mg/L CaCO3

1995 Q1	1U	1U	1U	1U	1U	1U
1995 Q4	1U	1U	1U	1U	1U	1U
1996 Q2	1U	1U	1U	1U	1U	1U
1996 Q3		1U	1U		1U	1U

Alkalinity, Phenolphthalein, mg/l

1995 Q1	1U	1U	1U	1U	1U	1U
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Ammonia, Total, mg/L as N

1989 Q3		0.057	0.03			
1989 Q4	0.014	0.013	0.021			
1990 Q1	0.007	0.014	0.014			
1990 Q2	0.01U	0.01U	0.01U			
1990 Q4		0.01U	0.01U			
1991 Q1	0.01U	0.01U	0.595			
1991 Q2	0.01U	0.01U	0.01U			
1991 Q3	0.01U	0.01U	0.01U			
1991 Q4	0.01U	0.01U	0.01U			
1992 Q1	0.01U	0.01U	0.01U			
1992 Q2	0.01U	0.01U	0.01U			
1992 Q3		0.01U	0.01U			
1992 Q4	0.01U	0.01U				
1993 Q1	0.011	0.01U	0.01U			
1993 Q2	0.016	0.01U	0.01U			
1993 Q3	0.015	0.019	0.01U			
1993 Q4	0.01U	0.01U	0.012	0.01U	0.027	0.071
1994 Q1	0.01U	0.01U	0.01U	0.01U	0.027	0.093
1994 Q2	0.01U	0.01U	0.01U	0.01U	0.013	0.102
1994 Q3		0.06	0.048		0.07	0.073
1994 Q4	0.01	0.017	0.018	0.01	0.038	0.03

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q1	0.01U	0.01U	0.01	0.039	0.03	0.01U
	1995 Q2	0.01U	0.01U		0.01U	0.01U	
	1995 Q3		0.011	0.01U		0.022	0.028
	1995 Q4	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
	1996 Q1	0.01U	0.01U	0.01U	0.01U	0.028	0.01U
	1996 Q2	0.029	0.028	0.028	0.026	0.044	0.036
	1996 Q3		0.01U	0.01U		0.017	0.01U
	1996 Q4	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
	1997 Q1	0.033	0.01U	0.01U	0.025	0.021	0.01U
	1997 Q2	0.01U	0.01U	0.01U	0.01U	0.013	0.01U
	1997 Q3	0.01U	0.035	0.019	0.012	0.026	0.01U
	1997 Q4	0.01U	0.01	0.01U	0.01	0.037	0.01U
	1998 Q1	0.01U	0.013	0.01U	0.01U	0.019	0.01U
	1998 Q2	0.01U	0.01U	0.014	0.01U	0.014	0.01U
	1998 Q4	0.01U	0.01U	0.01U	0.01U	0.014	0.01U
	1999 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.037
	1999Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2000 Q2.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2000 Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2001 Q2	0.026	0.019	0.022	0.02	0.026	0.026
	2001 Q4	0.027	0.027	0.017	0.02	0.029	0.017
	2002 Q2	0.013	0.014	0.01	0.017	0.018	0.01U
	2002 Q4	0.023	0.01U	0.038	0.032	0.026	0.013
	2003 Q2		0.021	0.01U	0.011	0.012	0.01U
	2003 Q4		0.01U	0.01U	0.013	0.01U	0.01U
	2004 Q2	0.03	0.013	0.01U	0.01U	0.018	0.01U
	2004 Q4	0.015	0.012	0.012	0.018	0.01	0.01
	2005 Q2	0.016	0.023	0.036	0.016	0.021	0.018
	2005 Q4	0.01	0.014	0.012	0.011	0.026	0.01U
	2006 Q2		0.021		0.024	0.019	0.012
	2006 Q4	0.014	0.022				0.01U
	2007 Q2		0.01U		0.01	0.01U	0.01U
	2007 Q4	0.01U	0.01U		0.021	0.01U	0.01
	2008 Q2	0.017	0.01		0.01U	0.01U	0.05U
	2008 Q4	0.01U	0.01U		0.01U	0.017	0.01U
	2009 Q2	0.1U	0.012		0.01U		0.016
	2009 Q4	0.044	0.088		0.041	0.069	0.078
	2010 Q2	0.035	0.02U		0.025	0.02	0.029
	2010 Q4	0.023	0.01U		0.03	0.059	0.017
	2011 Q2	0.022	0.02		0.025	0.012	0.01U
	2011 Q4	0.015	0.01U		0.01U	0.01U	0.01U
	2012 Q2	0.018	0.039		0.01U	0.016	0.025
	2012 Q4	0.012	0.01U		0.018	0.034	0.084
	2013 Q2	0.08	0.01U		0.01U	0.081	0.087
	2013 Q4	0.01U	0.01U		0.012	0.045	0.025
	2014 Q2	0.038	0.033		0.027	0.102	0.01U
	2014 Q4	0.043	0.06		0.075	0.068	0.056
	2015 Q2		0.039		0.055	0.02	0.034
	2015 Q4		0.02		0.045	0.02	0.01U
	2016 Q1	0.044					
	2016 Q2		0.083			0.04U	0.04U
	2016 Q4	0.04U	0.04U			0.04U	0.04U
	2017 Q2	0.04U	0.04U			0.04U	0.04U
	2017 Q4	0.04U	0.04U			0.04U	0.04U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2018 Q2		0.04U			0.04U	0.04U
	2018 Q4	0.04U	0.04U				0.04U
	2019 Q2	0.04U	0.04U				0.04U
	2019 Q4	0.04U	0.04U				0.04U
	2020 Q2	0.04U	0.04U		0.04U		0.04U
	2020 Q4	0.04U	0.04U		0.04U		0.04U
	2021 Q2	0.04U	0.04U				0.04U
	2021 Q4	0.04U	0.04U				0.04U
	2022 Q2	0.04U	0.04U				
	2022 Q4	0.04U	0.04U		0.04U	0.04U	0.04U
	2023 Q2	0.04U	0.04U			0.04U	0.094
	2023 Q4	0.04U	0.04U		0.04U	0.04U	0.048
Bromide, mg/L							
	1994 Q3		200	220		150	350
	1994 Q4	100U	100U	130	210	110	290
	1995 Q1	250	250	220	240	240	290
Carbon, Total Organic, mg/L							
	1989 Q3		0.3	0.3			
	1989 Q4	0.5	0.3	0.3			
	1990 Q1	0.39	0.12	0.12			
	1990 Q2	0.42	0.28	0.18			
	1990 Q4		0.65	0.27			
	1991 Q1	0.24U	0.42	0.24U			
	1991 Q2	1.54U	1.54U	1.54U			
	1991 Q3	0.62U	0.57	0.24U			
	1991 Q4	0.8U	0.8U	0.8U			
	1992 Q1	0.31U	0.31U	0.56			
	1992 Q2	0.71	0.42U	0.42U			
	1992 Q3		0.15U	0.15U			
	1992 Q4	1U	1U				
	1993 Q1	1U	1U	1U			
	1993 Q2	1.01U	1.01U	1.01U			
	1993 Q3	0.6U	0.06U	0.6U			
	1993 Q4	0.27U	0.27U	0.27U	0.94	0.27U	0.29
	1994 Q1	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U
	1994 Q2	1U	1U	1U	1U	1U	1U
	1994 Q3		1.5U	1.5U		1.5U	1.5U
	1994 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1995 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1995 Q2	1.5U	1.5U		1.5U	1.5U	
	1995 Q3		1.5U	1.5U		1.5U	1.5U
	1995 Q4	2.4	1.8	1.5	1.5	1.5U	1.5U
	1996 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1996 Q2	1.6	1.6	2.6	2.2	1.5U	1.6
	1996 Q3		1.5U	1.5U		1.5U	1.5U
	1996 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1999 Q2	1.5U	1.5U	1.5U	1.9	1.5U	1.5U
	1999Q4.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2000 Q2.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2000 Q4.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2001 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2001 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2002 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2002 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2003 Q2		1.5U	1.5U	1.5U	1.5U	1.5U
	2003 Q4		1.5U	1.5U	1.5U	1.5U	1.5U
	2004 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2004 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2005 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2005 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2006 Q2		1.5U		1.5U	1.5U	1.5U
	2006 Q4	1.5U	1.5U				1.5U
	2007 Q2		1.5U		1.5U	1.5U	1.5U
	2007 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2008 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2008 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2009 Q2	1.5U	1.5U		1.5U		1.5U
	2009 Q4	3.3	2.04		1.75	2.35	3.36
	2010 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2010 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2011 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2011 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2012 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2012 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2013 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2013 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2014 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2014 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2015 Q2		0.5U		0.58	0.5U	1.54
	2015 Q4		0.5U		0.65	0.78	1.6
	2016 Q1	0.69					
	2016 Q2		0.5U			0.5U	1.18
	2016 Q4	0.5U	0.5U			0.5U	1.07
	2017 Q2	0.5U	0.5U			0.5U	1.2
	2017 Q4	0.5U	0.5U			0.5U	1.16
	2018 Q2		0.5U			0.5U	1.23
	2018 Q4	0.5U	0.5U				1.25
	2019 Q2	0.5U	0.5U				2.19
	2019 Q4	0.5U	0.5U				1.28
	2020 Q2	0.5U	0.5U		0.5U		2.3
	2020 Q4	0.5U	0.5U		0.5U		1.15
	2021 Q2	0.5U	0.5U				1.08
	2021 Q4	0.66	0.5				1.6
	2022 Q2	0.58	0.5U				
	2022 Q4	1	0.7		0.5U	0.76	7.32
	2023 Q2	0.78	0.5U			0.75	17.3D
	2023 Q4	0.55	0.5U		0.5U	1.06	4.17

Chemical Oxygen Demand (COD), mg/L

1989 Q3	8.5	5U
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* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1989 Q4	5U	5U	5U			
	1990 Q1	5U	5U	5U			
	1990 Q2	5U	5U	5U			
	1991 Q1	5U	5U	5U			
	1991 Q2	8	5U	5U			
	1991 Q3	5U	5U	5U			
	1991 Q4	5U	5U	5U			
	1992 Q1	5U	7.7	5U			
	1992 Q2	5U	5U	5U			
	1992 Q3		5U	5U			
	1992 Q4	5U	5U				
	1993 Q1	5U	5U	5U			
	1993 Q2	5U	5.1	5U			
	1993 Q3	5U	5U	5U			
	1993 Q4	5U	5U	5U	5U	5U	5U
	1994 Q1	8.1	5U	5U	5.6	5.3	6.6
	1994 Q2	5U	5U	5U	6	6.7	7.1
	1994 Q3		5U	5U		6	5U
	1994 Q4	5U	5U	5U	5U	5U	5U
	1995 Q1	9.9	7.9	5.6	5U	9.2	8.2
	1995 Q2	5U	7.2		5U	5U	
	1995 Q3		5U	5U		6	5U
	1995 Q4	5.4	5U	5U	5.8	5U	5U
	1996 Q1	5U	5U	5U	5U	5U	6.8
	1996 Q2	5.9	5U	5U	5U	5U	7.3
	1996 Q3		5U	5U		5U	5U
	1996 Q4	5U	5U	5U	5U	5U	5U
	1997 Q1	5U	5U	5U	5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U	5U	5U	5U	5U	5U
	1997 Q4	5U	5U	5U	5U	5U	5U
	1998 Q1	5U	5U	5U	5U	5U	5U
	1998 Q2	5.9	5U	5U	5U	5U	5U
	1998 Q4	5U	5U	5U	5U	5U	5U
	1999 Q2	5U	5U	5U	5U	5U	5U
	1999Q4.3	5U	5U	5U	5U	7.4	5U
	2000 Q2.3	5U	5U	5U	5U	5U	5U
	2000 Q4.3	8.1	5U	5U	5U	5U	5U
	2001 Q2	5U	5U	5U	5U	5U	5U
	2001 Q4	7.9	5U	7.2	5U	5.9	5U
	2002 Q2	5U	5U	5	5U	5U	5U
	2002 Q4	5U	14	5.4	5U	5U	12
	2003 Q2		5U	5U	7.4	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	6.88	5U	5U	5U
	2004 Q4	6.69	8.36	6.35	5.02	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	7.24	5.54	5U	5U	5.2	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5.26	5U				5U
	2007 Q2		5U		5U	5U	5.79
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	6.98
	2008 Q4	5U	5U		5U	5U	5U

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Chloride, mg/L	2009 Q2	5U	7.82		5U		5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	18.3
	2013 Q4	10U	10U		10U	10U	10U
	2014 Q2	10U	10U		10U	10U	10U
	2014 Q4	10U	10U		10U	13	10U
	2015 Q2		10U		10U	10U	10U
	2015 Q4		10U		10U	10U	10U
	2016 Q1	10U					
	2016 Q2		11.4			10U	14.8
	2016 Q4	10U	10U			10U	10U
	2017 Q2	10U	10U			10U	10U
	2017 Q4	10U	10U			10U	10U
	2018 Q2		10U			10U	10U
	2018 Q4	10U	10U				10U
	2019 Q2	10U	10U				10U
	2019 Q4	10U	10U				10U
	2020 Q2	10U	10U		10U		10U
	2020 Q4	10U	10U		10U		10U
	2021 Q2	10U	10U				10U
	2021 Q4	10U	10U				50U
	2022 Q2	10U	10U				
	2022 Q4	10U	10U		10U	10U	40.5
	2023 Q2	10U	10U			10U	123
	2023 Q4	10U	10U		10U	10U	50.7
Chloride, mg/L	1989 Q3		4.71	3.38			
	1989 Q4	10.3	3.8	2.1			
	1990 Q1	10.1	4.6	3.1			
	1990 Q2	10.1	3.4	2.7			
	1990 Q4		4.5	3			
	1991 Q1	11.3	4.3	2.3			
	1991 Q2	11.2	4.2	2.8			
	1991 Q3	11.7	4.2	2.7			
	1991 Q4	12.5	4.7	3.3			
	1992 Q1	11.3	4	2.8			
	1992 Q2	12	4.3	3.4			
	1992 Q3		5.48	4.22			
	1992 Q4	11.8	4.86				
	1993 Q1	12.1	4.76	3.44			
	1993 Q2	12.9	4.5	3.1			
	1993 Q3	13.5	4.5	3.3			
	1993 Q4	13	4.5	3.2	4.7	4.2	9.5
	1994 Q1	12.3	4.3	3	4.8	4.8	7.1
	1994 Q2	12.8	4.2	3.2	4.9	4.8	6.8
	1994 Q3		4.4	3.2		4.7	5.2
	1994 Q4	15	4.6	3.2	5	5	6.9

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q1	13	4.2	3.2	4.6	4.4	4.7
	1995 Q2	13	4.7		5	4.8	
	1995 Q3		4.6	3.3		5	5.2
	1995 Q4	12	5.1	3.9	5.9	6.3	6
	1996 Q1	13	4.9	4.4	5.4	5.4	5.5
	1996 Q2	12	4	2.7	4.4	4.5	5.6
	1996 Q3		5	3.7		5.7	5.7
	1996 Q4	13	4.3	5	3.3	4.9	4.9
	1997 Q1	12	3.8	2.7	4.4	4.6	4.1
	1997 Q2	14	4.5	3.3	5.3	5	5.2
	1997 Q3	13	4.6	3.2	5.2	4.9	6
	1997 Q4	15	4.5	3.4	5.7	5.3	5
	1998 Q1	13	4.4	3.2	5.6	5.4	4.9
	1998 Q2	14	4	2.5	4.9	4.8	5.8
	1998 Q4	16	4.7	3.3	5.3	4.6	5.7
	1999 Q2	14	4	2.9	4.8	4.3	6
	1999Q4.3	18	4.4	3.2	5.7	4.9	6.3
	2000 Q2.3	15	4.7	3.1	4.2	4.1	7
	2000 Q4.3	16	4.1	3.2	5	4.3	6.3
	2001 Q2	17	4.4	3.2	4.9	5.8	9
	2001 Q4	20	4.6	2.7	5.1	4.3	6.4
	2002 Q2	18	4.2	3	4.8	5.1	9.2
	2002 Q4	19	4.7	3.8	6	5.1	8
	2003 Q2		5.3	3.3	5.4	6.1	11
	2003 Q4		4.2	2.8	5.6	5	8.2
	2004 Q2	20.4	4.7	3.2	5.4	5.8	11.2
	2004 Q4	20.4	5	3.5	6.4	5.9	9.8
	2005 Q2	20	5	3.1	5.3	6	14.2
	2005 Q4	16.6	4.9	3.3	6.3	4.8	12.4
	2006 Q2		4.9		5.6	6	15.6
	2006 Q4	16.7	4.9				14.2
	2007 Q2		5.1		5.7	6	17.9
	2007 Q4	17.2	5.6		6.4	5.3	16.7
	2008 Q2	16	4.9		5.2	5.6	17.4
	2008 Q4	15.6	5		6	5	17
	2009 Q2	16.7	5.4		5.8		23.5
	2009 Q4	15.6	6.1		6.1	5.5	19.8
	2010 Q2	15.8	6.2		5.7	6.2	26.6
	2010 Q4	16.2	6		6.8	5.5	25.9
	2011 Q2	16	5.5		5.8	5.3	32.9
	2011 Q4	16.1	5.2		6.5	5.2	32.4
	2012 Q2	17.9	6		6.2	6.3	38.3
	2012 Q4	17.5	5.3		7.2	4.6	38.4
	2013 Q2	16.3	5.1		6.5	5.2	1U
	2013 Q4	16.7	4.9		6.8	4.5	36.5
	2014 Q2	16.4	4.9		6.3	4.9	38.1
	2014 Q4	16.9	4.8		7	5.4	37.8
	2015 Q2		5.6		6.5	4.2	37.5
	2015 Q4		5.2		7.2	4.4	33.9
	2016 Q1	16.8					
	2016 Q4	15.6D	4.92			5.05	26.7D
	2017 Q2	15.1D	4.92			5.82	29.6D
	2017 Q4	16.5D	5.03			5.15	31.9D
	2018 Q2		5.27			6.33	29.6D

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2018 Q4	15.6D	5.24				29.7
	2019 Q2	17D	10D				29.7D
	2019 Q4	16.5D	5.74				32.1D
	2020 Q2	16.6D	4.88		7.6		31.4D
	2020 Q4	16D	4.67		7.47		28.5D
	2021 Q2	15.9	4.75				28.2D
	2021 Q4	17.9D	4.68				25.2D
	2022 Q2	18.2D	5.05				
	2022 Q4	17.3D	5.95		7.97	4.18	31.3D
	2023 Q2	17D	9.04			4.08	42.2D
	2023 Q4	17.2D	6.18		7.98	4.1	23.1D
Coliform, Total, #/100ml							
	1989 Q4		8	2U			
	1990 Q1	2U	2U	2U			
	1990 Q2	2U	2U	2U			
	1990 Q4		2U	2U			
	1991 Q2	2U	2U	2U			
	1991 Q3			2U			
	1991 Q4	2U	2U				
	1992 Q1	2U	2U	2U			
	1992 Q2	2U	2U	2U			
	1992 Q3		2U	2U			
	1992 Q4	2U	2U				
	1993 Q1	1U	1U	1U			
	1993 Q2	4U	4U	4U			
	1993 Q3	4U	4U	4U			
	1993 Q4	2U	2U	2U	2U	2U	17U
	1994 Q1	2U	2U	2U	2U		
	1994 Q2	1U	1U	1U	1U	1U	1U
	1994 Q3		1U	2U		1U	1U
	1994 Q4	2U	2U	2U	2U	2U	2U
	1995 Q1	2U	2U	2U	2U	2U	2U
	1995 Q2	1U	1U		1U	1U	
	1995 Q3		2U	2U		2U	2U
	1995 Q4	2U	1U	1U	1U	1U	1U
	1996 Q1	1U	2U	1U	2	2U	1U
	1996 Q2	2U	1U	1U	47	1U	1U
	1996 Q3		2U	2U		2U	2U
	1996 Q4	U	U	U	U	U	U
	1997 Q1	2U	2U	2U	2U	2U	2U
Fluoride, mg/L							
	1989 Q3		0.223	0.232			
	1989 Q3		0.21	0.16			
	1989 Q4	2.177	0.239	0.194			
	1990 Q1	2.035	0.238	0.197			
	1990 Q2	2.656	0.256	0.202			
	1990 Q4		0.245	0.227			
	1991 Q1	2.32	0.263	0.208			
	1991 Q2	2.38	0.214	0.205			
	1991 Q3	2.41	0.0289	0.225			
	1991 Q4	2.77	0.269	0.206			
Nitrate, mg/L as N							

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q1	2.56	0.243	0.199			
	1992 Q2	2.58	0.279	0.218			
	1992 Q3		0.337	0.238			
	1992 Q4	2.59	0.246				
	1993 Q1	2.4	0.25	0.2			
	1993 Q2	0.082	0.267	0.223			
	1993 Q3	2.62	0.29	0.206			
	1993 Q4	2.79	0.252	0.205	0.058	0.01U	0.548
	1994 Q1	2.74	0.313	0.218	0.248	0.027	0.244
	1994 Q2	3.35	0.264	0.212	0.075	0.01U	0.177
	1994 Q3		0.27	0.2		0.01U	0.17
	1994 Q4	3.2	0.28	0.26	0.99	0.016	0.18
	1995 Q1	2.8	0.26	0.22	0.29	0.01U	0.21
	1995 Q2	4.5	0.3		0.36	0.029	
	1995 Q3		0.26	0.22		0.015	0.2
	1995 Q4	6.5	0.31	0.24	0.018	0.04	0.21
	1996 Q1	2.8	0.26	0.2	0.01U	0.01U	0.2
	1996 Q2	5.5	0.26	0.19	0.23	0.01U	0.21
	1996 Q3		0.25	0.19		0.01	0.23
	1996 Q4	2.6	0.25	0.01U	0.2	0.01U	0.16
	1997 Q1	3.8	0.29	0.22	0.02	0.01U	0.01U
	1997 Q2	3.1	0.29	0.22	0.51	0.01U	0.27
	1997 Q3	3	0.27	0.21	0.49	0.01U	0.26
	1997 Q4	7	0.28	0.23	0.01U	0.01U	0.21
	1998 Q1	3.4	0.28	0.23	0.018	0.01U	0.23
	1998 Q2	3.1	0.28	0.21	0.042	0.01U	0.36
	1998 Q4	2.4	0.24	0.19	0.01U	0.01U	0.24
	1999 Q2	3.8	0.28	0.22	0.55	0.01	0.43
	1999Q4.3	3.4	0.27	0.22	0.01U	0.01U	0.26
	2000 Q2.3	3.6J	0.26J	0.21J	0.36J	UJ	0.52J
	2000 Q4.3	3.7	0.3	0.23	0.01U	0.01U	0.39
	2001 Q2	2.5	0.3	0.21	0.52		0.75
	2001 Q4	3.5	0.31	0.24	0.01U	0.01U	0.48
	2002 Q2	3.3	0.3	0.21	0.61	0.01U	0.74
	2002 Q4	2.7	0.26	0.21	0.01	0.011	0.52
	2003 Q2		0.29	0.2	0.57	0.01U	0.9
	2003 Q4		0.29	0.2	0.01U	0.01U	0.7
	2004 Q2	3.27	0.272	0.185	0.574	0.01U	0.93
	2004 Q4	3.47	0.285	0.2	0.01U	0.01U	0.876
	2005 Q2	3.18	0.287	0.204	0.672	0.01U	1.48
	2005 Q4	3.05	0.283	0.196	0.01U	0.01U	1.31
	2006 Q2		0.286		0.69	0.01U	1.67
	2006 Q4	3.11	0.311				1.61
	2007 Q2		0.278		0.194	0.01U	1.9
	2007 Q4	2.51	0.257		0.01U	0.01U	1.87
	2008 Q2	2.49J	0.277J		0.569J	UJ	1.87J
	2008 Q4	2.53	0.299		0.012	0.01U	1.98
	2009 Q2	2.42	0.29		0.573		2.48
	2009 Q4	2.4	0.4		0.1U	0.1U	2.3
	2010 Q2	2.23	0.287		0.461	0.01U	2.77
	2010 Q4	2.15	0.289		0.014	0.01U	2.59
	2011 Q2	1.71	0.342		0.438	0.01U	3.29
	2011 Q4	2.11	0.29		0.011	0.01U	3.06
	2012 Q2	1.69	0.317		0.474	0.01U	3.55

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qualified.

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parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2012 Q4	1.95	0.262		0.01U	0.01U	3.3
	2013 Q2	1.61	0.272		0.268	0.01U	3.43
	2013 Q4	2.06	0.301		0.01U	0.01U	3.41
	2014 Q2	1.24	0.26		0.294	0.01U	3.38
	2014 Q4	2.13	0.289		0.01U	0.01U	3.22
	2015 Q2		0.308		0.671	0.01U	3.16
	2015 Q4		0.287		0.01U	0.01U	2.68
	2016 Q1	2.29					
	2016 Q2		0.27			0.01U	2.38
	2016 Q4	1.9	0.283			0.02U	2
	2017 Q2	2.08	0.27			0.02U	2.2
	2017 Q4	1.93H	0.279H			0.02U	2.23H
	2018 Q2		0.276			0.02U	2.19
	2018 Q4	1.44	0.28				2.32
	2019 Q2	1.82H	0.294H				222
	2019 Q4	2.03	0.32				2.58
	2020 Q2	1.59	0.295		0.743		1.94
	2020 Q4	1.92	0.29		0.0581		2.07
	2021 Q2	1.69	0.301				1.86
	2021 Q4	2.29H	0.323H				1.76H
	2022 Q2	1.86H	0.307H				
	2022 Q4	2.12H	0.02UH		0.02U	0.02U	0.851
	2023 Q2	1.92H	0.384H			0.02U	0.0378H
	2023 Q4	1.76H	0.39H		UH	UH	0.735H
Nitrate + Nitrite (NO2 + NO3), mg-N/L							
	1995 Q1	2.8	0.26	0.22	0.29	0.01U	0.22
	1995 Q2	4.5	0.3		0.36	0.029	
	1995 Q3		0.26	0.22		0.015	0.22
	1995 Q4	6.5	0.31	0.24	0.018	0.04	0.21
	1996 Q1	2.8	0.26	0.2	0.01U	0.01U	0.2
	1996 Q2	5.5	0.26	0.19	0.23	0.01U	0.26
	1996 Q3		0.25	0.2		0.01	0.25
	1996 Q4	2.6	0.25	0.01U	0.2	0.01U	0.18
	1997 Q1	3.8	0.29	0.22	0.02	0.01U	0.012
	1997 Q2	3.1	0.29	0.22	0.51	0.01U	0.27
	1997 Q3	3	0.27	0.21	0.49	0.01U	0.29
	1997 Q4	7	0.28	0.23	0.01U	0.01U	0.21
	1998 Q1	3.4	0.29	0.23	0.018	0.01U	0.24
	1998 Q2	3.1	0.28	0.21	0.042	0.01U	0.36
	1998 Q4	2.4	0.24	0.19	0.01U	0.01U	0.24
	1999 Q2	3.8	0.28	0.22	0.55	0.01	0.43
	1999Q4.3	3.4	0.27	0.22	0.01U	0.01U	0.26
	2000 Q2.3	3.6J	0.26J	0.21J	0.36J	UJ	0.52J
	2000 Q4.3	3.7	0.3	0.23	0.01U	0.01U	0.4
	2001 Q2	2.5	0.3	0.21	0.53	0.01U	0.75
	2001 Q4	3.5	0.31	0.24	0.01U	0.01U	0.48
	2002 Q2	3.3	0.3	0.21	0.61	0.01U	0.74
	2002 Q4	2.7	0.26	0.21	0.01	0.011	0.53
	2003 Q2		0.29	0.2	0.57	0.01U	0.9
	2003 Q4		0.29	0.2	0.023	0.01U	0.7
	2004 Q2	3.28	0.272	0.185	0.574	0.01U	0.93
	2004 Q4	3.49	0.285	0.2	0.01U	0.01U	0.876
	2005 Q2	3.19	0.287	0.204	0.672	0.01U	1.48

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Nitrite, mg/L as N	2005 Q4	3.06	0.283	0.196	0.01U	0.01U	1.31
	2006 Q2		0.286		0.69	0.01U	1.67
	2006 Q4	3.13	0.311				1.62
	2007 Q2		0.278		0.194	0.01U	1.92
	2007 Q4	2.52	0.282		0.01U	0.01U	1.87
	2008 Q2	2.51	0.277		0.569	0.01U	1.89
	2008 Q4	2.53	0.299		0.012	0.01U	1.98
	2009 Q2	2.42	0.29		0.573		2.48
	2010 Q2	2.23	0.287		0.461	0.01U	2.77
	2010 Q4	2.15	0.289		0.014	0.01U	2.59
	2011 Q2	1.71	0.342		0.438	0.01U	3.29
	2011 Q4	2.13	0.29		0.011	0.01U	3.08
	2012 Q2	1.7	0.317		0.474	0.01U	3.57
	2012 Q4	1.95	0.262		0.01U	0.01U	3.3
	2013 Q2	1.61	0.272		0.268	0.01U	3.43
	2013 Q4	2.06	0.301		0.01U	0.01U	3.41
	2014 Q2	1.24	0.26		0.294	0.01U	3.38
	2014 Q4	2.13	0.289		0.01U	0.01U	3.22
	2015 Q2		0.308		0.671	0.01U	3.16
	2015 Q4		0.287		0.01U	0.01U	2.68
	2016 Q1	2.29					
	2016 Q2		0.27			0.01U	2.38
	2016 Q4	1.9D	0.283H			0.01U	2D
	2017 Q2	2.08D	0.27			0.01U	2.2D
	2017 Q4	1.93H	0.279H			0.01U	2.23H
	2018 Q2		0.276			0.01U	2.19D
	2018 Q4	1.44D	0.28				2.32D
	2019 Q2	1.82D	0.309				222D
	2019 Q4	2.03D	0.335				2.59D
	2020 Q2	1.6D	0.295		0.743		1.97D
	2020 Q4	1.92D	0.29		0.058		2.07D
	2021 Q2	1.69D	0.314				1.86D
	2021 Q4	2.31D	0.338				1.77D
	2022 Q2	1.88HD	0.307H				
	2022 Q4	2.12D	0.01U		0.01U	0.01U	0.851
	2023 Q2	1.92D	0.384			0.01U	0.038
	2023 Q4	1.76D	0.39		0.01U	0.01U	0.735
	1989 Q3		0.012	0.009			
	1989 Q4	0.003	0.005	0.004			
	1990 Q1	0.005U	0.005U	0.005U			
	1990 Q2	0.01U	0.01U	0.01U			
	1990 Q4		0.01U	0.01U			
	1991 Q1	0.01U	0.01U	0.01U			
	1991 Q2	0.01U	0.01U	0.01U			
	1991 Q3	0.01U	0.01U	0.01U			
	1991 Q4	0.01U	0.01U	0.01U			
	1992 Q1	0.01U	0.01U	0.01U			
	1992 Q2	0.01U	0.01U	0.01U			
	1992 Q3		0.01U	0.01U			
	1992 Q4	0.01U	0.01U				
	1993 Q1	0.01U	0.01U	0.015			
	1993 Q2	0.01U	0.01U	0.01U			

* CONF = Confluent growth on all dilutions, no coliforms.
J - Estimated value.

** Indicates detected in the trip blank but not

parameters.
B - Compound found in blank. M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q3	0.01U	0.01U	0.01U			
	1993 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.109
	1994 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1994 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.036
	1994 Q3		0.01U	0.013		0.01U	0.04
	1994 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.027
	1995 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.015
	1995 Q2	0.011	0.01U		0.01U	0.01U	
	1995 Q3		0.01U	0.01U		0.01U	0.017
	1995 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1996 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1996 Q2	0.012	0.01U	0.01U	0.01U	0.01U	0.045
	1996 Q3		0.01U	0.01		0.01U	0.024
	1996 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.018
	1997 Q1	0.014	0.01U	0.01U	0.01U	0.01U	0.036
	1997 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1997 Q3	0.01U	0.01U	0.01U	0.01U	0.01U	0.027
	1997 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1998 Q1	0.011	0.01	0.01U	0.01U	0.01	0.012
	1998 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1998 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1999 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1999Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2000 Q2.3	UJ	UJ	UJ	UJ	UJ	UJ
	2000 Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01
	2001 Q2	0.01U	0.01U	0.01U	0.014	0.01U	0.01U
	2001 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2002 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2002 Q4	0.049	0.01U	0.01U	0.01U	0.01U	0.01
	2003 Q2		0.01U	0.01U	0.01U	0.01U	0.01U
	2003 Q4		0.01U	0.01U	0.027	0.01U	0.01U
	2004 Q2	0.011	0.01U	0.01U	0.01U	0.01U	0.01U
	2004 Q4	0.018	0.01U	0.01U	0.01U	0.01U	0.01U
	2005 Q2	0.015	0.01U	0.01U	0.01U	0.01U	0.01U
	2005 Q4	0.014	0.01U	0.01U	0.01U	0.01U	0.01U
	2006 Q2		0.01U		0.01U	0.01U	0.01U
	2006 Q4	0.022	0.01U				0.013
	2007 Q2		0.01U		0.01U	0.01U	0.015
	2007 Q4	0.012	0.025		0.01U	0.01U	0.01U
	2008 Q2	0.022	0.01U		0.01U	0.01U	0.019
	2008 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2009 Q2	0.01U	0.01U		0.01U		0.01U
	2009 Q4	0.1U	0.1U		0.1U	0.1U	0.1U
	2010 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q4	0.016	0.01U		0.01U	0.01U	0.02
	2012 Q2	0.014	0.01U		0.01U	0.01U	0.022
	2012 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2015 Q2		0.01U		0.01U	0.01U	0.01U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2015 Q4		0.01U		0.01U	0.01U	0.01U
	2016 Q1	0.01U					
	2016 Q2		0.01U			0.01U	0.01U
	2016 Q4	0.01U	0.01U			0.01U	0.01U
	2017 Q2	0.01U	0.01U			0.01U	0.01U
	2017 Q4	0.01U	0.01U			0.01U	0.01U
	2018 Q2		0.01H			0.01H	0.01H
	2018 Q4	0.01U	0.01U				UH
	2019 Q2	UH	0.015H				0.01U
	2019 Q4	0.01U	0.015				0.01U
	2020 Q2	0.01U	0.01U		0.01U		0.01U
	2020 Q4	0.01U	0.01U		0.01U		0.01U
	2021 Q2	0.01U	0.013				0.01U
	2021 Q4	0.014H	0.015H				0.011H
	2022 Q2	0.015H	UH				
	2022 Q4	0.01UH	0.01UH		0.01U	0.01U	0.01U
	2023 Q2	UH	UH			0.01U	UH
	2023 Q4	UH	UH		UH	UH	UH
Solids, Total Dissolved, mg/l							
	1989 Q3		0.1	282			
	1995 Q4	360	270	220	200	210	240
	1996 Q2	410	260	250	140	180	260
	1996 Q3		260	220		210	260
Sulfate, mg/L							
	1989 Q3		62.9	16.3			
	1989 Q4	141.4	76.8	16.1			
	1990 Q1	146.7	67.4	16			
	1990 Q2	163.1	64.9	15.5			
	1990 Q4		63.7	12.6			
	1991 Q1	135	62.3	15.3			
	1991 Q2	170	65	15.9			
	1991 Q3	193.7	62.8	18.5			
	1991 Q4	36.1	27.9	8.6			
	1992 Q1	159.2	16.6	68.4			
	1992 Q2	161.8	66.6	15.7			
	1992 Q3		64.7	14.8			
	1992 Q4	138	67.4				
	1993 Q1	148	65.8	16.5			
	1993 Q2	161	65.8	16.1			
	1993 Q3	171	65	16.6			
	1993 Q4	138	72.4	17.3	29.3	31.8	141
	1994 Q1	157	73	17.4	26	30.4	38
	1994 Q2	184	70.9	16.4	30.9	34.5	38.1
	1994 Q3		68	16		33	34
	1994 Q4	150	65	16	28	32	34
	1995 Q1	150	63	15	28	31	36
	1995 Q2	130	62		30	34	
	1995 Q3		62	17		33	35
	1995 Q4	130	60	13	29	32	34
	1996 Q1	180	65	16	29	32	33
	1996 Q2	140	63	16	28	31	34
	1996 Q3		67	17		32	34
	1996 Q4	120	62	30	18	31	32

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q1	120	61	17	29	31	31
	1997 Q2	150	64	16	31	35	33
	1997 Q3	140	68	18	30	32	34
	1997 Q4	120	65	16	31	31	29
	1998 Q1	120	69	18	32	32	32
	1998 Q2	130	68	14	34	35	31
	1998 Q4	120	70	17	36	33	35
	1999 Q2	130	66	16	33	36	32
	1999Q4.3	99	65	18	34	32	32
	2000 Q2.3	140	76	20	35	38	38
	2000 Q4.3	110J	69J	19J	36J	33J	35J
	2001 Q2	99	67	16	33	34	34
	2001 Q4	89	64	15	35	32	35
	2002 Q2	130	66	12	29	31	30
	2002 Q4	110	67	17	35	31	32
	2003 Q2		58	15	30	33	32
	2003 Q4		65	16	34	32	34
	2004 Q2	120	66.5	16.2	30.9	37.3	37
	2004 Q4	86.5	55.9	15.2	32.8	30.6	34
	2005 Q2	124	65.8	15.4	28.8	35.4	38
	2005 Q4	93.1	52.7	14.2	35.4	28.1	38.1
	2006 Q2		66.1		29.4	35.5	43.2
	2006 Q4	99	62.6				40.2
	2007 Q2		57		33.9	34.3	47.5
	2007 Q4	98.2	61.5		38.1	33.7	52.7
	2008 Q2	117	68.3		31.3	32.6	52.6
	2008 Q4	96.3	63.1		38.3	33.5	44.6
	2009 Q2	122	65.9		32.1		54.2
	2009 Q4	93.3	70.1		36.9	34	59.3
	2010 Q2	89.4	19.1		34.1	39.5	26.8
	2010 Q4	78.8	61		37.2	33.9	54
	2011 Q2	100	64.1		30.2	32.4	66.3
	2011 Q4	87.3	67.3		38.1	34.7	67.9
	2012 Q2	117	68.2		31.1	36.5	83.8
	2012 Q4	102	74.4		40.9	27.6	86.2
	2013 Q2	102	70.5		34.1	31.3	88.4
	2013 Q4	88.9	67.9		36.4	27.6	83.9
	2014 Q2	109	69.2		32.6	28.5	91.5
	2014 Q4	88.3	76.6		38.1	29.2	91.4
	2015 Q2		68.9		28.2	25.4	80
	2015 Q4		65.1		36.2	27.1	88
	2016 Q1	86.2					
	2016 Q4	69.2D	69.9			29D	80.1D
	2017 Q2	90.2D	73.3D			35.1D	90.7D
	2017 Q4	82.6D	74.9D			30.9D	95.1D
	2018 Q2		78.7D			33.5D	87.9D
	2018 Q4	66.7D	57.9D				79.6D
	2019 Q4	75.5D	72.5D				87D
	2020 Q2	90D	70.5D		26.3		77.5D
	2020 Q4	74.5D	71.5D		32		86.5D
	2021 Q2	95.5D	75D				87.5D
	2021 Q4	79.2D	83.2D				83.4D
	2022 Q2	82.5D	83D				
	2022 Q4	75.2D	85.5D		36.2D	25	50.1D

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Turbidity, NTU	2023 Q2	87D	88D			26.8D	27.4D
	2023 Q4	78D	84.6D		33.6D	25.8	94.9D
	1989 Q3		0.12	0.21			
	2019 Q2						
<u>Metals</u>							
Arsenic, Dissolved, mg/L	1989 Q3		50U	50U			
Barium, Dissolved, mg/L	1989 Q3		59	55			
Cadmium, Dissolved, mg/L	1989 Q3		2U	2U			
Calcium, mg/L	1995 Q1	59.2	35.8	19.8	28.7	26.2	19.3
	1995 Q4	55.3	34.3	19.1	26.5	25.3	22
	1996 Q2	62.1	37.5	20	30	27.1	27.3
Chromium, Dissolved, mg/L	1989 Q3		9	13			
Iron, Dissolved, mg/L	1989 Q3		0.036	0.06			
	1989 Q4	0.058	0.025	0.086			
	1990 Q1	0.07	0.028	0.038			
	1990 Q2	0.092	0.019	0.03			
	1990 Q4		0.036	0.04			
	1991 Q1	0.066	0.018	0.024			
	1991 Q2	0.074	0.007	0.007			
	1991 Q3	0.033	0.015	0.019			
	1991 Q4	0.054	0.008	0.012			
	1992 Q1	0.035	0.012	0.01			
	1992 Q2	0.051	0.014	0.024			
	1992 Q3		0.014	0.022			
	1992 Q4	0.022	0.01				
	1993 Q1	0.031	0.014	0.015			
	1993 Q2	0.025B	0.008B	0.01B			
	1993 Q3	0.147	0.012	0.012			
	1993 Q4	0.019	0.006	0.007	0.01	0.114	0.645
	1994 Q1	0.064	0.012	0.013	0.005U	0.119	0.069
	1994 Q2	0.042	0.008	0.011	0.006	0.155	0.051
	1994 Q3		0.008	0.008		0.243	0.005U
	1994 Q4	0.03	0.01U	0.01U	0.01U	0.24	0.01U
	1995 Q1	0.07	0.01U	0.01	0.01U	0.23	0.1
	1995 Q2	0.05	0.01		0.01U	0.21	
	1995 Q3		0.01U	0.01U		0.17	0.01
	1995 Q4	0.1	0.02	0.01U	0.01U	0.22	0.07
	1996 Q1	0.03	0.01	0.02	0.01U	0.22	0.02
	1996 Q2	0.03	0.02	0.03	0.01U	0.2	0.02
	1996 Q3		0.02U	0.02U		0.2	0.02U
	1996 Q4	0.1	0.02	0.02	0.02U	0.22	0.1
	1997 Q1	0.02U	0.02	0.02	0.02U	0.25	0.04

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q2	0.03	0.02U	0.06	0.02U	0.21	0.07
	1997 Q3	0.02	0.02U	0.03	0.02	0.19	0.06
	1997 Q4	0.06	0.02U	0.02	0.02U	0.2	0.02
	1998 Q1	0.02	0.02U	0.03	0.02U	0.22	0.03
	1998 Q2	0.02U	0.02U	0.02U	0.02U	0.21	0.03
	1998 Q4	0.43	0.02U	0.02U	0.02U	0.14	0.02U
	1999 Q2	0.14	0.02U	0.02U	0.02U	0.18	0.02U
	1999Q4.3	0.03	0.02U	0.03	0.02U	0.15	0.02U
	2000 Q2.3	0.03	0.02U	0.02U	0.02U	0.18	0.02U
	2000 Q4.3	0.05	0.02	0.02U	0.02U	0.12	0.02U
	2001 Q2	0.15	0.02U	0.02U	0.02U	0.14	0.06
	2001 Q4	0.37	0.05U	0.05U	0.05U	0.09	0.05U
	2002 Q2	0.07	0.05U	0.05U	0.05U	0.09	0.05U
	2002 Q4	0.07	0.05U	0.05U	0.05U	0.08	0.05U
	2003 Q2		0.05U	0.05U	0.05U	0.14	0.05U
	2003 Q4		0.05U	0.05U	0.05U	0.08	0.05U
	2004 Q2	0.22	0.05U	0.05U	0.05U	0.13	0.05U
	2004 Q4	0.08	0.05U	0.05U	0.05U	0.09	0.05U
	2005 Q2	0.08	0.08	0.05U	0.05U	0.16	0.05U
	2005 Q4	0.08	0.05U	0.05U	0.05U	0.05	0.05U
	2006 Q2		0.05U		0.05U	0.11	0.05U
	2006 Q4	0.06	0.05U				0.05U
	2007 Q2		0.05U		0.05U	0.11	0.05U
	2007 Q4	0.05U	0.05U		0.05U	0.06	0.05U
	2008 Q2	0.05U	0.06		0.05U	0.09	0.05U
	2008 Q4	0.05U	0.05U		0.05U	0.08	0.05U
	2009 Q2	0.05U	0.13		0.05U		0.05U
	2009 Q4	0.07	0.1		0.05U	0.13	0.05U
	2010 Q2	0.1	0.2		0.05U	0.15	0.05U
	2010 Q4	0.06	0.08		0.05U	0.08	0.05U
	2011 Q2	0.05	0.05U		0.05U	0.08	0.05U
	2011 Q4	0.05U	0.05U		0.05U	0.07	0.05U
	2012 Q2	0.12	0.05U		0.05U	0.1	0.05U
	2012 Q4	0.05	0.05U		0.05U	0.05U	0.05U
	2013 Q2	0.06	0.05U		0.05U	0.05U	0.05U
	2013 Q4	0.57	0.06		0.05U	0.05U	0.05U
	2014 Q2	0.07	0.05U		0.05U	0.05U	0.05U
	2014 Q4	0.14	0.05U		0.05U	0.05U	0.05U
	2015 Q2		0.05U		0.05U	0.05U	0.05U
	2015 Q4		0.05U		0.05U	0.05U	0.05U
	2016 Q1	0.04U					
	2016 Q2		0.05U			0.05U	0.05U
	2016 Q4	0.05U	0.05U			0.05U	0.05U
	2017 Q2	0.0582	0.05U			0.0611	0.05U
	2017 Q4	0.0759	0.05U			0.0541	0.05U
	2018 Q2		0.05U			0.0696	0.05U
	2018 Q4	0.129	0.05U				0.05U
	2019 Q2	0.0754	0.146				0.05U
	2019 Q4	0.124	0.05U				0.05U
	2020 Q2	0.119	0.05U		0.0994		0.0575
	2020 Q4	0.124	0.05U		0.05U		0.05U
	2021 Q2	0.25U	0.25U				0.25U
	2021 Q4	0.108	0.05U				
	2022 Q2	0.168	0.05U				

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Iron, Total, mg/L	2022 Q4	0.146	0.05U				
	2023 Q2	0.0882	0.485				0.05U
	2023 Q4	0.0642	0.0779		0.05U	0.05U	0.05U
Lead, Dissolved, ug/L	2022 Q4				0.42	4.19	1.47
	1989 Q3		30U	30U			
Magnesium, Dissolved, mg/L							
	1995 Q1	21.9	11.6	5	9.48	7.04	4.37
	1995 Q4	20.6	11.2	4.85	8.83	6.93	4.69
	1996 Q2	22.2	11.8	4.93	9.62	7.22	5.54
Manganese, Dissolved, mg/L							
	1989 Q3		0.031	0.049			
	1989 Q4	0.008	0.013	0.026			
	1990 Q1	0.01	0.008	0.016			
	1990 Q2	0.006	0.003	0.011			
	1990 Q4		0.005	0.007			
	1991 Q1	0.008	0.003	0.005			
	1991 Q2	0.004	0.004	0.005			
	1991 Q3	0.007	0.004	0.003			
	1991 Q4	0.004	0.002	0.003			
	1992 Q1	0.005	0.002	0.002			
	1992 Q2	0.005	0.003	0.003			
	1992 Q3		0.002	0.003			
	1992 Q4	0.003	0.003				
	1993 Q1	0.008	0.002	0.003			
	1993 Q2	0.005	0.002	0.003			
	1993 Q3	0.007	0.003	0.004			
	1993 Q4	0.004	0.003	0.003	0.026	0.174	0.083
	1994 Q1	0.011	0.001	0.003	0.005	0.189	0.024
	1994 Q2	0.01	0.002	0.004	0.003	0.179	0.022
	1994 Q3		0.003	0.003		0.18	0.018
	1994 Q4	0.003	0.002	0.003	0.024	0.173	0.009
	1995 Q1	0.007	0.002	0.002	0.001U	0.176	0.017
	1995 Q2	0.014	0.001		0.001U	0.169	
	1995 Q3		0.002	0.003		0.171	0.003
	1995 Q4	0.013	0.003	0.003	0.008	0.16	0.006
	1996 Q1	0.013	0.002	0.003	0.017	0.173	0.001U
	1996 Q2	0.007	0.003	0.003	0.002	0.174	0.001U
	1996 Q3		0.003	0.004		0.176	0.001U
	1996 Q4	0.041	0.002	0.004	0.004	0.141	0.001
	1997 Q1	0.007	0.002	0.002	0.008	0.17	0.001U
	1997 Q2	0.006	0.002	0.004	0.001U	0.157	0.001U
	1997 Q3	0.007	0.002	0.002	0.003	0.146	0.006
	1997 Q4	0.053	0.003	0.003	0.003	0.138	0.001U
	1998 Q1	0.007	0.002	0.002	0.009	0.154	0.001U
	1998 Q2	0.005	0.002	0.003	0.001U	0.155	0.001U
	1998 Q4	0.053	0.002	0.002	0.003	0.103	0.001U
	1999 Q2	0.014	0.001	0.003	0.001U	0.134	0.001U
	1999Q4.3	0.005	0.003	0.003	0.003	0.104	0.001U
	2000 Q2.3	0.007	0.002	0.004	0.001U	0.127	0.001U
	2000 Q4.3	0.009	0.001	0.003	0.002	0.081	0.001U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2001 Q2	0.032	0.002	0.003	0.001U	0.113	0.003
	2001 Q4	0.015	0.002	0.003	0.002	0.073	0.002
	2002 Q2	0.006	0.002	0.004	0.001U	0.079	0.001U
	2002 Q4	0.085	0.001U	0.004	0.001U	0.059	0.001U
	2003 Q2		0.001	0.002	0.001U	0.093	0.001U
	2003 Q4		0.001U	0.001U	0.001U	0.065	0.001U
	2004 Q2	0.241	0.001	0.002	0.001U	0.085	0.001U
	2004 Q4	0.055	0.003	0.002	0.001U	0.072	0.001U
	2005 Q2	0.008	0.011	0.002	0.001U	0.106	0.001U
	2005 Q4	0.014	0.007	0.005	0.001	0.039	0.001U
	2006 Q2		0.008		0.001U	0.085	0.001U
	2006 Q4	0.028	0.001U				0.007
	2007 Q2		0.004		0.001U	0.082	0.001U
	2007 Q4	0.008	0.014		0.001U	0.051	0.001U
	2008 Q2	0.002	0.015		0.001U	0.065	0.001U
	2008 Q4	0.004	0.005		0.001U	0.059	0.001U
	2009 Q2	0.004	0.013		0.001U		0.001U
	2009 Q4	0.012	0.025		0.001U	0.071	0.001U
	2010 Q2	0.025	0.032		0.001U	0.091	0.001U
	2010 Q4	0.005	0.02		0.001U	0.053	0.001U
	2011 Q2	0.005	0.009		0.001	0.06	0.001U
	2011 Q4	0.003	0.002		0.001U	0.049	0.001U
	2012 Q2	0.012	0.011		0.001U	0.074	0.001U
	2012 Q4	0.006	0.002		0.001U	0.016	0.001U
	2013 Q2	0.007	0.002		0.001U	0.04	0.001U
	2013 Q4	0.041	0.005		0.001U	0.024	0.001U
	2014 Q2	0.008	0.001		0.001U	0.034	0.001U
	2014 Q4	0.017	0.001		0.001U	0.032	0.001U
	2015 Q2		0.005		0.001U	0.007	0.001U
	2015 Q4		0.01		0.003	0.017	0.003
	2016 Q1	0.011					
	2016 Q2		0.006			0.01	0.001U
	2016 Q4	0.0067	0.0028			0.0325	0.002
	2017 Q2	0.0044	0.001U			0.0456	0.001U
	2017 Q4	0.0076	0.0023			0.0371	0.001U
	2018 Q2		0.0026			0.0548	0.001U
	2018 Q4	0.0193	0.0103				0.001U
	2019 Q2	0.0052	0.191				0.001U
	2019 Q4	0.0076	0.0282				0.001U
	2020 Q2	0.006	0.0093		0.001U		0.0036
	2020 Q4	0.0068	0.0086		0.004U		0.004U
	2021 Q2	0.02U	0.02U				0.02U
	2021 Q4	0.0125	0.004U				
	2022 Q2	0.0137	0.004				
	2022 Q4	0.0113	0.012				
	2023 Q2	0.0058	0.0525				0.168
	2023 Q4	0.0105	0.0188		0.004U	0.004U	0.0673
Manganese, Total, mg/L							
	2022 Q4				0.004U	0.044	0.0608
Mercury, Dissolved, mg/L							
	1989 Q3		0.1U	0.1U			

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Potassium, Dissolved, mg/L							
	1995 Q1	6.6	8.2	13.9	5.7	7.5	4.2
	1995 Q4	6.5	7.8	13.4	5.5	7.3	4
	1996 Q2	6.7	8.3	13.8	5.6	7.7	4.6
Selenium, Dissolved, mg/L							
	1989 Q3		5U	5U			
Silver, Dissolved, mg/L							
	1989 Q3		3U	3U			
Sodium, Dissolved, mg/L							
	1989 Q3		21.2	27.2			
	1995 Q1	17.1	20.2	27.3	17.4	22.1	49.7
	1995 Q4	16.8	19.2	26	16.1	20	40.8
	1996 Q2	17.4	20.2	26.3	18	20.4	38.3
Zinc, Dissolved, mg/L							
	1989 Q3		0.414	0.241			
	1989 Q4	0.061	0.131	0.101			
	1990 Q1	0.064	0.108	0.072			
	1990 Q2	0.047	0.081	0.05			
	1990 Q4		0.038	0.043			
	1991 Q1	0.021	0.033	0.035			
	1991 Q2	0.025	0.043	0.043			
	1991 Q3	0.018	0.022	0.037			
	1991 Q4	0.004U	0.007	0.009			
	1992 Q1	0.019	0.004	0.004			
	1992 Q2	0.022	0.005	0.034			
	1992 Q3		0.028	0.031			
	1992 Q4	0.006	0.008				
	1993 Q1	0.012	0.004U	0.004U			
	1993 Q2	0.004U	0.004U	0.014B			
	1993 Q3	0.007	0.007	0.004			
	1993 Q4	0.006	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q1	0.008	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q2	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q3		0.004U	0.004U		0.005B	0.004U
	1994 Q4	0.015	0.004U	0.004U	0.004U	0.004U	0.004U
	1995 Q1	0.008	0.004U	0.004U	0.004U	0.004U	0.004U
	1995 Q2	0.008	0.005B		0.004U	0.004U	
	1995 Q3		0.004U	0.004U		0.004U	0.004U
	1995 Q4	0.009	0.008	0.004U	0.004U	0.004U	0.004U
	1996 Q1	0.008	0.013	0.018	0.004U	0.004U	0.004U
	1996 Q2	0.007	0.01	0.016	0.004U	0.004U	0.004U
	1996 Q3		0.009	0.016		0.004U	0.004U
	1996 Q4	0.013	0.006	0.004U	0.004U	0.004U	0.004U
	1997 Q1	0.012	0.01	0.016	0.004U	0.004U	0.004U
	1997 Q2	0.012	0.012	0.015	0.004U	0.004U	0.004U
	1997 Q3	0.014	0.01	0.016	0.006	0.004U	0.009
	1997 Q4	0.009	0.008	0.014	0.004U	0.004U	0.004U
	1998 Q1	0.007	0.008	0.013	0.004U	0.004U	0.004U
	1998 Q2	0.009	0.009	0.015	0.004U	0.004U	0.004U
	1998 Q4	0.02	0.008	0.016	0.004U	0.004U	0.004U
	1999 Q2	0.011	0.009	0.017	0.004U	0.004U	0.004U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1999Q4.3	0.006	0.006U	0.016	0.006U	0.006U	0.006U
	2000 Q2.3	0.007	0.009	0.014	0.006U	0.006U	0.006U
	2000 Q4.3	0.016	0.006U	0.011	0.006U	0.007	0.006U
	2001 Q2	0.014	0.011	0.013	0.006U	0.006U	0.006U
	2001 Q4	0.016	0.009	0.013	0.006U	0.006U	0.006U
	2002 Q2	0.016	0.014	0.013	0.006U	0.006U	0.006U
	2002 Q4	0.017	0.013	0.015	0.006U	0.006U	0.006U
	2003 Q2		0.011	0.011	0.006U	0.006U	0.006U
	2003 Q4		0.01	0.01	0.006U	0.006U	0.006U
	2004 Q2	0.022	0.016	0.013	0.006U	0.006U	0.006U
	2004 Q4	0.014	0.011	0.014	0.006U	0.006U	0.006U
	2005 Q2	0.009	0.009	0.01	0.006U	0.006U	0.006U
	2005 Q4	0.012	0.006U	0.011	0.006U	0.006U	0.006U
	2006 Q2		0.01		0.006U	0.006U	0.006U
	2006 Q4	0.006U	0.006U				0.006U
	2007 Q2		0.01U		0.01U	0.01U	0.01U
	2007 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2008 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2008 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2009 Q2	0.01U	0.01U		0.01U		0.01U
	2009 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2012 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2012 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q2	0.02	0.05		0.01U	0.01U	0.01U
	2013 Q4	0.01	0.01U		0.01U	0.01U	0.01U
	2014 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2015 Q2		0.01		0.01U	0.01U	0.01U
	2015 Q4		0.01U		0.01U	0.01U	0.01U
	2016 Q1	0.004U					
	2016 Q2		0.01U			0.01U	0.01U
	2016 Q4	0.01U	0.01U			0.01U	0.01U
	2017 Q2	0.01U	0.01U			0.01U	0.01U
	2017 Q4	0.0104	0.01U			0.01U	0.01U
	2018 Q2		0.01U			0.01U	0.01U
	2018 Q4	0.0105	0.01U				0.01U
	2019 Q2	0.01U	0.01U				0.01U
	2019 Q4	0.01U	0.01U				0.01U
	2020 Q2	0.01U	0.01U		0.01U		0.01U
	2020 Q4	0.02U	0.02U		0.02U		0.02U
	2021 Q2	0.1U	0.1U				0.1U
	2021 Q4	0.02U	0.02U				
	2022 Q2	0.02	0.02U				
	2022 Q4	0.02U	0.02U				
	2023 Q2	0.02U	0.02U				0.02U
	2023 Q4	0.02U	0.0243		0.02U	0.02U	0.02U
Zinc, Total, mg/L							
	2022 Q4				0.02U	0.0261	0.0229

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J - Estimated value.
parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
<u>Summary</u>							
2-Butanone (MEK), ug/L							
	1989 Q3		2.5U	2.5U			
	1989 Q4	5U					
	1990 Q1	5U					
	1990 Q2	5U					
	1991 Q1	7.5U					
	1991 Q2	7.5U					
	1991 Q3	5U					
	1991 Q4	5U					
	1992 Q1	5U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	5U					
	1993 Q3	5U					
	1993 Q4	5U	5U	5U	6.1	34	110
	1994 Q1	5U			56	33	6.7
	1994 Q2	5U			66	22	22
	1994 Q3					8.1	9.3
	1994 Q4	5U			54	5U	6.1
	1995 Q1	1U			23E	8.1	5
	1995 Q2	5U			24	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	8.6
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value, parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	5U	5U
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				5U
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U
	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5U		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
Carbon Tetrachloride, ug/L							
	1989 Q3		0.5U	0.5U			
	1989 Q4	0.6J					
	1990 Q1	5.5					
	1990 Q2	1.2					
	1991 Q1	1M					
	1991 Q2	1.6					
	1991 Q3	3					
	1991 Q4	2.2					
	1992 Q1	1.7					
	1992 Q2	2.1M					
	1992 Q4	1.6					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q1	1M					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1.2M			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1.3			1U	1U	1U
	1995 Q1	1.3			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Carbon, Total Organic, mg/L							
	1989 Q3		0.3	0.3			
	1989 Q4	0.5	0.3	0.3			
	1990 Q1	0.39	0.12	0.12			
	1990 Q2	0.42	0.28	0.18			
	1990 Q4		0.65	0.27			
	1991 Q1	0.24U	0.42	0.24U			
	1991 Q2	1.54U	1.54U	1.54U			
	1991 Q3	0.62U	0.57	0.24U			
	1991 Q4	0.8U	0.8U	0.8U			
	1992 Q1	0.31U	0.31U	0.56			
	1992 Q2	0.71	0.42U	0.42U			
	1992 Q3		0.15U	0.15U			
	1992 Q4	1U	1U				
	1993 Q1	1U	1U	1U			
	1993 Q2	1.01U	1.01U	1.01U			
	1993 Q3	0.6U	0.06U	0.6U			
	1993 Q4	0.27U	0.27U	0.27U	0.94	0.27U	0.29
	1994 Q1	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U
	1994 Q2	1U	1U	1U	1U	1U	1U
	1994 Q3		1.5U	1.5U		1.5U	1.5U
	1994 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1995 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1995 Q2	1.5U	1.5U		1.5U	1.5U	
	1995 Q3		1.5U	1.5U		1.5U	1.5U
	1995 Q4	2.4	1.8	1.5	1.5	1.5U	1.5U
	1996 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q2	1.6	1.6	2.6	2.2	1.5U	1.6
	1996 Q3		1.5U	1.5U		1.5U	1.5U
	1996 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1997 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q1	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1998 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	1999 Q2	1.5U	1.5U	1.5U	1.9	1.5U	1.5U
	1999Q4.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2000 Q2.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2000 Q4.3	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2001 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2001 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2002 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2002 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2003 Q2		1.5U	1.5U	1.5U	1.5U	1.5U
	2003 Q4		1.5U	1.5U	1.5U	1.5U	1.5U
	2004 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2004 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2005 Q2	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2005 Q4	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
	2006 Q2		1.5U		1.5U	1.5U	1.5U
	2006 Q4	1.5U	1.5U				1.5U
	2007 Q2		1.5U		1.5U	1.5U	1.5U
	2007 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2008 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2008 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2009 Q2	1.5U	1.5U		1.5U		1.5U
	2009 Q4	3.3	2.04		1.75	2.35	3.36
	2010 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2010 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2011 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2011 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2012 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2012 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2013 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2013 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2014 Q2	1.5U	1.5U		1.5U	1.5U	1.5U
	2014 Q4	1.5U	1.5U		1.5U	1.5U	1.5U
	2015 Q2		0.5U		0.58	0.5U	1.54
	2015 Q4		0.5U		0.65	0.78	1.6
	2016 Q1	0.69					
	2016 Q2		0.5U			0.5U	1.18
	2016 Q4	0.5U	0.5U			0.5U	1.07
	2017 Q2	0.5U	0.5U			0.5U	1.2
	2017 Q4	0.5U	0.5U			0.5U	1.16
	2018 Q2		0.5U			0.5U	1.23
	2018 Q4	0.5U	0.5U				1.25
	2019 Q2	0.5U	0.5U				2.19
	2019 Q4	0.5U	0.5U				1.28
	2020 Q2	0.5U	0.5U		0.5U		2.3

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2020 Q4	0.5U	0.5U		0.5U		1.15
	2021 Q2	0.5U	0.5U				1.08
	2021 Q4	0.66	0.5				1.6
	2022 Q2	0.58	0.5U				
	2022 Q4	1	0.7		0.5U	0.76	7.32
	2023 Q2	0.78	0.5U			0.75	17.3D
	2023 Q4	0.55	0.5U		0.5U	1.06	4.17
	Chemical Oxygen Demand (COD), mg/L						
	1989 Q3		8.5	5U			
	1989 Q4	5U	5U	5U			
	1990 Q1	5U	5U	5U			
	1990 Q2	5U	5U	5U			
	1991 Q1	5U	5U	5U			
	1991 Q2	8	5U	5U			
	1991 Q3	5U	5U	5U			
	1991 Q4	5U	5U	5U			
	1992 Q1	5U	7.7	5U			
	1992 Q2	5U	5U	5U			
	1992 Q3		5U	5U			
	1992 Q4	5U	5U				
	1993 Q1	5U	5U	5U			
	1993 Q2	5U	5.1	5U			
	1993 Q3	5U	5U	5U			
	1993 Q4	5U	5U	5U	5U	5U	5U
	1994 Q1	8.1	5U	5U	5.6	5.3	6.6
	1994 Q2	5U	5U	5U	6	6.7	7.1
	1994 Q3		5U	5U		6	5U
	1994 Q4	5U	5U	5U	5U	5U	5U
	1995 Q1	9.9	7.9	5.6	5U	9.2	8.2
	1995 Q2	5U	7.2		5U	5U	
	1995 Q3		5U	5U		6	5U
	1995 Q4	5.4	5U	5U	5.8	5U	5U
	1996 Q1	5U	5U	5U	5U	5U	6.8
	1996 Q2	5.9	5U	5U	5U	5U	7.3
	1996 Q3		5U	5U		5U	5U
	1996 Q4	5U	5U	5U	5U	5U	5U
	1997 Q1	5U	5U	5U	5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U	5U	5U	5U	5U	5U
	1997 Q4	5U	5U	5U	5U	5U	5U
	1998 Q1	5U	5U	5U	5U	5U	5U
	1998 Q2	5.9	5U	5U	5U	5U	5U
	1998 Q4	5U	5U	5U	5U	5U	5U
	1999 Q2	5U	5U	5U	5U	5U	5U
	1999Q4.3	5U	5U	5U	5U	7.4	5U
	2000 Q2.3	5U	5U	5U	5U	5U	5U
	2000 Q4.3	8.1	5U	5U	5U	5U	5U
	2001 Q2	5U	5U	5U	5U	5U	5U
	2001 Q4	7.9	5U	7.2	5U	5.9	5U
	2002 Q2	5U	5U	5	5U	5U	5U
	2002 Q4	5U	14	5.4	5U	5U	12
	2003 Q2		5U	5U	7.4	5U	5U
	2003 Q4		5U	5U	5U	5U	5U

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** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2004 Q2	5U	5U	6.88	5U	5U	5U
	2004 Q4	6.69	8.36	6.35	5.02	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	7.24	5.54	5U	5U	5.2	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5.26	5U				5U
	2007 Q2		5U		5U	5U	5.79
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	6.98
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	7.82		5U		5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	18.3
	2013 Q4	10U	10U		10U	10U	10U
	2014 Q2	10U	10U		10U	10U	10U
	2014 Q4	10U	10U		10U	13	10U
	2015 Q2		10U		10U	10U	10U
	2015 Q4		10U		10U	10U	10U
	2016 Q1	10U					
	2016 Q2		11.4			10U	14.8
	2016 Q4	10U	10U			10U	10U
	2017 Q2	10U	10U			10U	10U
	2017 Q4	10U	10U			10U	10U
	2018 Q2		10U			10U	10U
	2018 Q4	10U	10U				10U
	2019 Q2	10U	10U				10U
	2019 Q4	10U	10U				10U
	2020 Q2	10U	10U		10U		10U
	2020 Q4	10U	10U		10U		10U
	2021 Q2	10U	10U				10U
	2021 Q4	10U	10U				50U
	2022 Q2	10U	10U				
	2022 Q4	10U	10U		10U	10U	40.5
	2023 Q2	10U	10U			10U	123
	2023 Q4	10U	10U		10U	10U	50.7
Chloride, mg/L	1989 Q3		4.71	3.38			
	1989 Q4	10.3	3.8	2.1			
	1990 Q1	10.1	4.6	3.1			
	1990 Q2	10.1	3.4	2.7			
	1990 Q4		4.5	3			
	1991 Q1	11.3	4.3	2.3			
	1991 Q2	11.2	4.2	2.8			
	1991 Q3	11.7	4.2	2.7			
	1991 Q4	12.5	4.7	3.3			
	1992 Q1	11.3	4	2.8			
	1992 Q2	12	4.3	3.4			

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q3		5.48	4.22			
	1992 Q4	11.8	4.86				
	1993 Q1	12.1	4.76	3.44			
	1993 Q2	12.9	4.5	3.1			
	1993 Q3	13.5	4.5	3.3			
	1993 Q4	13	4.5	3.2	4.7	4.2	9.5
	1994 Q1	12.3	4.3	3	4.8	4.8	7.1
	1994 Q2	12.8	4.2	3.2	4.9	4.8	6.8
	1994 Q3		4.4	3.2		4.7	5.2
	1994 Q4	15	4.6	3.2	5	5	6.9
	1995 Q1	13	4.2	3.2	4.6	4.4	4.7
	1995 Q2	13	4.7		5	4.8	
	1995 Q3		4.6	3.3		5	5.2
	1995 Q4	12	5.1	3.9	5.9	6.3	6
	1996 Q1	13	4.9	4.4	5.4	5.4	5.5
	1996 Q2	12	4	2.7	4.4	4.5	5.6
	1996 Q3		5	3.7		5.7	5.7
	1996 Q4	13	4.3	5	3.3	4.9	4.9
	1997 Q1	12	3.8	2.7	4.4	4.6	4.1
	1997 Q2	14	4.5	3.3	5.3	5	5.2
	1997 Q3	13	4.6	3.2	5.2	4.9	6
	1997 Q4	15	4.5	3.4	5.7	5.3	5
	1998 Q1	13	4.4	3.2	5.6	5.4	4.9
	1998 Q2	14	4	2.5	4.9	4.8	5.8
	1998 Q4	16	4.7	3.3	5.3	4.6	5.7
	1999 Q2	14	4	2.9	4.8	4.3	6
	1999Q4.3	18	4.4	3.2	5.7	4.9	6.3
	2000 Q2.3	15	4.7	3.1	4.2	4.1	7
	2000 Q4.3	16	4.1	3.2	5	4.3	6.3
	2001 Q2	17	4.4	3.2	4.9	5.8	9
	2001 Q4	20	4.6	2.7	5.1	4.3	6.4
	2002 Q2	18	4.2	3	4.8	5.1	9.2
	2002 Q4	19	4.7	3.8	6	5.1	8
	2003 Q2		5.3	3.3	5.4	6.1	11
	2003 Q4		4.2	2.8	5.6	5	8.2
	2004 Q2	20.4	4.7	3.2	5.4	5.8	11.2
	2004 Q4	20.4	5	3.5	6.4	5.9	9.8
	2005 Q2	20	5	3.1	5.3	6	14.2
	2005 Q4	16.6	4.9	3.3	6.3	4.8	12.4
	2006 Q2		4.9		5.6	6	15.6
	2006 Q4	16.7	4.9				14.2
	2007 Q2		5.1		5.7	6	17.9
	2007 Q4	17.2	5.6		6.4	5.3	16.7
	2008 Q2	16	4.9		5.2	5.6	17.4
	2008 Q4	15.6	5		6	5	17
	2009 Q2	16.7	5.4		5.8		23.5
	2009 Q4	15.6	6.1		6.1	5.5	19.8
	2010 Q2	15.8	6.2		5.7	6.2	26.6
	2010 Q4	16.2	6		6.8	5.5	25.9
	2011 Q2	16	5.5		5.8	5.3	32.9
	2011 Q4	16.1	5.2		6.5	5.2	32.4
	2012 Q2	17.9	6		6.2	6.3	38.3
	2012 Q4	17.5	5.3		7.2	4.6	38.4
	2013 Q2	16.3	5.1		6.5	5.2	1U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2013 Q4	16.7	4.9		6.8	4.5	36.5
	2014 Q2	16.4	4.9		6.3	4.9	38.1
	2014 Q4	16.9	4.8		7	5.4	37.8
	2015 Q2		5.6		6.5	4.2	37.5
	2015 Q4		5.2		7.2	4.4	33.9
	2016 Q1	16.8					
	2016 Q4	15.6D	4.92			5.05	26.7D
	2017 Q2	15.1D	4.92			5.82	29.6D
	2017 Q4	16.5D	5.03			5.15	31.9D
	2018 Q2		5.27			6.33	29.6D
	2018 Q4	15.6D	5.24				29.7
	2019 Q2	17D	10D				29.7D
	2019 Q4	16.5D	5.74				32.1D
	2020 Q2	16.6D	4.88		7.6		31.4D
	2020 Q4	16D	4.67		7.47		28.5D
	2021 Q2	15.9	4.75				28.2D
	2021 Q4	17.9D	4.68				25.2D
	2022 Q2	18.2D	5.05				
	2022 Q4	17.3D	5.95		7.97	4.18	31.3D
	2023 Q2	17D	9.04			4.08	42.2D
	2023 Q4	17.2D	6.18		7.98	4.1	23.1D
cis-1,2-Dichloroethene, ug/L							
	1989 Q3		1.2U	1.2U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.

B - Compound found in blank.

M - Estimated value - low spectral match

parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.28	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.31	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.21	0.2U	0.2U
	2015 Q4		0.2U		0.43	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.35		0.2U
	2020 Q4	0.2U	0.2U		0.44		0.2U
	2021 Q2	0.24	0.2U		0.2U		0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Dichlorodifluoromethane (CFC 12), ug/L	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.53	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.55	0.2U	0.2U
	2016 Q4	0.87	0.2U			0.2U	0.2U
	2017 Q2	0.54	0.2U			0.2U	0.26
	2017 Q4	1.09	0.2U			0.2U	0.39
	2018 Q2		0.2U			0.2U	0.39
	2018 Q4	0.74	0.2U				0.2U
	2019 Q2	0.81	0.2U				0.38
	2019 Q4	1.1	0.2U				0.51
	2020 Q2	0.72	0.2U		0.42		0.3
	2020 Q4	0.88Q	0.2U		0.36Q		0.3Q
	2021 Q2	1	0.2U		0.2U		0.35
	2021 Q4	1.02	0.2U				0.2U
	2022 Q2	0.77Q	0.2U				
	2022 Q4	0.6	0.2U		0.38	0.2U	0.22
	2023 Q2	0.8	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.31	0.2U	0.2U
Iron, Dissolved, mg/L							
	1989 Q3		0.036	0.06			
	1989 Q4	0.058	0.025	0.086			
	1990 Q1	0.07	0.028	0.038			
	1990 Q2	0.092	0.019	0.03			
	1990 Q4		0.036	0.04			
	1991 Q1	0.066	0.018	0.024			
	1991 Q2	0.074	0.007	0.007			
	1991 Q3	0.033	0.015	0.019			
	1991 Q4	0.054	0.008	0.012			
	1992 Q1	0.035	0.012	0.01			
	1992 Q2	0.051	0.014	0.024			
	1992 Q3		0.014	0.022			
	1992 Q4	0.022	0.01				
	1993 Q1	0.031	0.014	0.015			
	1993 Q2	0.025B	0.008B	0.01B			
	1993 Q3	0.147	0.012	0.012			
	1993 Q4	0.019	0.006	0.007	0.01	0.114	0.645
	1994 Q1	0.064	0.012	0.013	0.005U	0.119	0.069
	1994 Q2	0.042	0.008	0.011	0.006	0.155	0.051
	1994 Q3		0.008	0.008		0.243	0.005U
	1994 Q4	0.03	0.01U	0.01U	0.01U	0.24	0.01U
	1995 Q1	0.07	0.01U	0.01	0.01U	0.23	0.1
	1995 Q2	0.05	0.01		0.01U	0.21	
	1995 Q3		0.01U	0.01U		0.17	0.01
	1995 Q4	0.1	0.02	0.01U	0.01U	0.22	0.07
	1996 Q1	0.03	0.01	0.02	0.01U	0.22	0.02
	1996 Q2	0.03	0.02	0.03	0.01U	0.2	0.02
	1996 Q3		0.02U	0.02U		0.2	0.02U
	1996 Q4	0.1	0.02	0.02	0.02U	0.22	0.1
	1997 Q1	0.02U	0.02	0.02	0.02U	0.25	0.04
	1997 Q2	0.03	0.02U	0.06	0.02U	0.21	0.07

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q3	0.02	0.02U	0.03	0.02	0.19	0.06
	1997 Q4	0.06	0.02U	0.02	0.02U	0.2	0.02
	1998 Q1	0.02	0.02U	0.03	0.02U	0.22	0.03
	1998 Q2	0.02U	0.02U	0.02U	0.02U	0.21	0.03
	1998 Q4	0.43	0.02U	0.02U	0.02U	0.14	0.02U
	1999 Q2	0.14	0.02U	0.02U	0.02U	0.18	0.02U
	1999Q4.3	0.03	0.02U	0.03	0.02U	0.15	0.02U
	2000 Q2.3	0.03	0.02U	0.02U	0.02U	0.18	0.02U
	2000 Q4.3	0.05	0.02	0.02U	0.02U	0.12	0.02U
	2001 Q2	0.15	0.02U	0.02U	0.02U	0.14	0.06
	2001 Q4	0.37	0.05U	0.05U	0.05U	0.09	0.05U
	2002 Q2	0.07	0.05U	0.05U	0.05U	0.09	0.05U
	2002 Q4	0.07	0.05U	0.05U	0.05U	0.08	0.05U
	2003 Q2		0.05U	0.05U	0.05U	0.14	0.05U
	2003 Q4		0.05U	0.05U	0.05U	0.08	0.05U
	2004 Q2	0.22	0.05U	0.05U	0.05U	0.13	0.05U
	2004 Q4	0.08	0.05U	0.05U	0.05U	0.09	0.05U
	2005 Q2	0.08	0.08	0.05U	0.05U	0.16	0.05U
	2005 Q4	0.08	0.05U	0.05U	0.05U	0.05	0.05U
	2006 Q2		0.05U		0.05U	0.11	0.05U
	2006 Q4	0.06	0.05U				0.05U
	2007 Q2		0.05U		0.05U	0.11	0.05U
	2007 Q4	0.05U	0.05U		0.05U	0.06	0.05U
	2008 Q2	0.05U	0.06		0.05U	0.09	0.05U
	2008 Q4	0.05U	0.05U		0.05U	0.08	0.05U
	2009 Q2	0.05U	0.13		0.05U		0.05U
	2009 Q4	0.07	0.1		0.05U	0.13	0.05U
	2010 Q2	0.1	0.2		0.05U	0.15	0.05U
	2010 Q4	0.06	0.08		0.05U	0.08	0.05U
	2011 Q2	0.05	0.05U		0.05U	0.08	0.05U
	2011 Q4	0.05U	0.05U		0.05U	0.07	0.05U
	2012 Q2	0.12	0.05U		0.05U	0.1	0.05U
	2012 Q4	0.05	0.05U		0.05U	0.05U	0.05U
	2013 Q2	0.06	0.05U		0.05U	0.05U	0.05U
	2013 Q4	0.57	0.06		0.05U	0.05U	0.05U
	2014 Q2	0.07	0.05U		0.05U	0.05U	0.05U
	2014 Q4	0.14	0.05U		0.05U	0.05U	0.05U
	2015 Q2		0.05U		0.05U	0.05U	0.05U
	2015 Q4		0.05U		0.05U	0.05U	0.05U
	2016 Q1	0.04U					
	2016 Q2		0.05U			0.05U	0.05U
	2016 Q4	0.05U	0.05U			0.05U	0.05U
	2017 Q2	0.0582	0.05U			0.0611	0.05U
	2017 Q4	0.0759	0.05U			0.0541	0.05U
	2018 Q2		0.05U			0.0696	0.05U
	2018 Q4	0.129	0.05U				0.05U
	2019 Q2	0.0754	0.146				0.05U
	2019 Q4	0.124	0.05U				0.05U
	2020 Q2	0.119	0.05U		0.0994		0.0575
	2020 Q4	0.124	0.05U		0.05U		0.05U
	2021 Q2	0.25U	0.25U				0.25U
	2021 Q4	0.108	0.05U				
	2022 Q2	0.168	0.05U				
	2022 Q4	0.146	0.05U				

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2023 Q2	0.0882	0.485				0.05U
	2023 Q4	0.0642	0.0779		0.05U	0.05U	0.05U
Manganese, Dissolved, mg/L							
	1989 Q3		0.031	0.049			
	1989 Q4	0.008	0.013	0.026			
	1990 Q1	0.01	0.008	0.016			
	1990 Q2	0.006	0.003	0.011			
	1990 Q4		0.005	0.007			
	1991 Q1	0.008	0.003	0.005			
	1991 Q2	0.004	0.004	0.005			
	1991 Q3	0.007	0.004	0.003			
	1991 Q4	0.004	0.002	0.003			
	1992 Q1	0.005	0.002	0.002			
	1992 Q2	0.005	0.003	0.003			
	1992 Q3		0.002	0.003			
	1992 Q4	0.003	0.003				
	1993 Q1	0.008	0.002	0.003			
	1993 Q2	0.005	0.002	0.003			
	1993 Q3	0.007	0.003	0.004			
	1993 Q4	0.004	0.003	0.003	0.026	0.174	0.083
	1994 Q1	0.011	0.001	0.003	0.005	0.189	0.024
	1994 Q2	0.01	0.002	0.004	0.003	0.179	0.022
	1994 Q3		0.003	0.003		0.18	0.018
	1994 Q4	0.003	0.002	0.003	0.024	0.173	0.009
	1995 Q1	0.007	0.002	0.002	0.001U	0.176	0.017
	1995 Q2	0.014	0.001		0.001U	0.169	
	1995 Q3		0.002	0.003		0.171	0.003
	1995 Q4	0.013	0.003	0.003	0.008	0.16	0.006
	1996 Q1	0.013	0.002	0.003	0.017	0.173	0.001U
	1996 Q2	0.007	0.003	0.003	0.002	0.174	0.001U
	1996 Q3		0.003	0.004		0.176	0.001U
	1996 Q4	0.041	0.002	0.004	0.004	0.141	0.001
	1997 Q1	0.007	0.002	0.002	0.008	0.17	0.001U
	1997 Q2	0.006	0.002	0.004	0.001U	0.157	0.001U
	1997 Q3	0.007	0.002	0.002	0.003	0.146	0.006
	1997 Q4	0.053	0.003	0.003	0.003	0.138	0.001U
	1998 Q1	0.007	0.002	0.002	0.009	0.154	0.001U
	1998 Q2	0.005	0.002	0.003	0.001U	0.155	0.001U
	1998 Q4	0.053	0.002	0.002	0.003	0.103	0.001U
	1999 Q2	0.014	0.001	0.003	0.001U	0.134	0.001U
	1999Q4.3	0.005	0.003	0.003	0.003	0.104	0.001U
	2000 Q2.3	0.007	0.002	0.004	0.001U	0.127	0.001U
	2000 Q4.3	0.009	0.001	0.003	0.002	0.081	0.001U
	2001 Q2	0.032	0.002	0.003	0.001U	0.113	0.003
	2001 Q4	0.015	0.002	0.003	0.002	0.073	0.002
	2002 Q2	0.006	0.002	0.004	0.001U	0.079	0.001U
	2002 Q4	0.085	0.001U	0.004	0.001U	0.059	0.001U
	2003 Q2		0.001	0.002	0.001U	0.093	0.001U
	2003 Q4		0.001U	0.001U	0.001U	0.065	0.001U
	2004 Q2	0.241	0.001	0.002	0.001U	0.085	0.001U
	2004 Q4	0.055	0.003	0.002	0.001U	0.072	0.001U
	2005 Q2	0.008	0.011	0.002	0.001U	0.106	0.001U
	2005 Q4	0.014	0.007	0.005	0.001	0.039	0.001U

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2006 Q2		0.008		0.001U	0.085	0.001U
	2006 Q4	0.028	0.001U				0.007
	2007 Q2		0.004		0.001U	0.082	0.001U
	2007 Q4	0.008	0.014		0.001U	0.051	0.001U
	2008 Q2	0.002	0.015		0.001U	0.065	0.001U
	2008 Q4	0.004	0.005		0.001U	0.059	0.001U
	2009 Q2	0.004	0.013		0.001U		0.001U
	2009 Q4	0.012	0.025		0.001U	0.071	0.001U
	2010 Q2	0.025	0.032		0.001U	0.091	0.001U
	2010 Q4	0.005	0.02		0.001U	0.053	0.001U
	2011 Q2	0.005	0.009		0.001	0.06	0.001U
	2011 Q4	0.003	0.002		0.001U	0.049	0.001U
	2012 Q2	0.012	0.011		0.001U	0.074	0.001U
	2012 Q4	0.006	0.002		0.001U	0.016	0.001U
	2013 Q2	0.007	0.002		0.001U	0.04	0.001U
	2013 Q4	0.041	0.005		0.001U	0.024	0.001U
	2014 Q2	0.008	0.001		0.001U	0.034	0.001U
	2014 Q4	0.017	0.001		0.001U	0.032	0.001U
	2015 Q2		0.005		0.001U	0.007	0.001U
	2015 Q4		0.01		0.003	0.017	0.003
	2016 Q1	0.011					
	2016 Q2		0.006			0.01	0.001U
	2016 Q4	0.0067	0.0028			0.0325	0.002
	2017 Q2	0.0044	0.001U			0.0456	0.001U
	2017 Q4	0.0076	0.0023			0.0371	0.001U
	2018 Q2		0.0026			0.0548	0.001U
	2018 Q4	0.0193	0.0103				0.001U
	2019 Q2	0.0052	0.191				0.001U
	2019 Q4	0.0076	0.0282				0.001U
	2020 Q2	0.006	0.0093		0.001U		0.0036
	2020 Q4	0.0068	0.0086		0.004U		0.004U
	2021 Q2	0.02U	0.02U				0.02U
	2021 Q4	0.0125	0.004U				
	2022 Q2	0.0137	0.004				
	2022 Q4	0.0113	0.012				
	2023 Q2	0.0058	0.0525				0.168
	2023 Q4	0.0105	0.0188		0.004U	0.004U	0.0673
Methyl tert-Butyl Ether, ug/L							
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Nitrate, mg/L as N							
	1989 Q3		0.21	0.16			
	1989 Q4	2.177	0.239	0.194			
	1990 Q1	2.035	0.238	0.197			
	1990 Q2	2.656	0.256	0.202			
	1990 Q4		0.245	0.227			
	1991 Q1	2.32	0.263	0.208			
	1991 Q2	2.38	0.214	0.205			
	1991 Q3	2.41	0.0289	0.225			
	1991 Q4	2.77	0.269	0.206			
	1992 Q1	2.56	0.243	0.199			
	1992 Q2	2.58	0.279	0.218			
	1992 Q3		0.337	0.238			
	1992 Q4	2.59	0.246				
	1993 Q1	2.4	0.25	0.2			
	1993 Q2	0.082	0.267	0.223			
	1993 Q3	2.62	0.29	0.206			
	1993 Q4	2.79	0.252	0.205	0.058	0.01U	0.548
	1994 Q1	2.74	0.313	0.218	0.248	0.027	0.244
	1994 Q2	3.35	0.264	0.212	0.075	0.01U	0.177
	1994 Q3		0.27	0.2		0.01U	0.17
	1994 Q4	3.2	0.28	0.26	0.99	0.016	0.18
	1995 Q1	2.8	0.26	0.22	0.29	0.01U	0.21
	1995 Q2	4.5	0.3		0.36	0.029	
	1995 Q3		0.26	0.22		0.015	0.2
	1995 Q4	6.5	0.31	0.24	0.018	0.04	0.21
	1996 Q1	2.8	0.26	0.2	0.01U	0.01U	0.2
	1996 Q2	5.5	0.26	0.19	0.23	0.01U	0.21
	1996 Q3		0.25	0.19		0.01	0.23
	1996 Q4	2.6	0.25	0.01U	0.2	0.01U	0.16
	1997 Q1	3.8	0.29	0.22	0.02	0.01U	0.01U
	1997 Q2	3.1	0.29	0.22	0.51	0.01U	0.27
	1997 Q3	3	0.27	0.21	0.49	0.01U	0.26
	1997 Q4	7	0.28	0.23	0.01U	0.01U	0.21
	1998 Q1	3.4	0.28	0.23	0.018	0.01U	0.23
	1998 Q2	3.1	0.28	0.21	0.042	0.01U	0.36
	1998 Q4	2.4	0.24	0.19	0.01U	0.01U	0.24
	1999 Q2	3.8	0.28	0.22	0.55	0.01	0.43
	1999Q4.3	3.4	0.27	0.22	0.01U	0.01U	0.26
	2000 Q2.3	3.6J	0.26J	0.21J	0.36J	UJ	0.52J
	2000 Q4.3	3.7	0.3	0.23	0.01U	0.01U	0.39
	2001 Q2	2.5	0.3	0.21	0.52		0.75
	2001 Q4	3.5	0.31	0.24	0.01U	0.01U	0.48
	2002 Q2	3.3	0.3	0.21	0.61	0.01U	0.74
	2002 Q4	2.7	0.26	0.21	0.01	0.011	0.52
	2003 Q2		0.29	0.2	0.57	0.01U	0.9
	2003 Q4		0.29	0.2	0.01U	0.01U	0.7
	2004 Q2	3.27	0.272	0.185	0.574	0.01U	0.93
	2004 Q4	3.47	0.285	0.2	0.01U	0.01U	0.876
	2005 Q2	3.18	0.287	0.204	0.672	0.01U	1.48
	2005 Q4	3.05	0.283	0.196	0.01U	0.01U	1.31
	2006 Q2		0.286		0.69	0.01U	1.67
	2006 Q4	3.11	0.311				1.61

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Nitrite, mg/L as N	2007 Q2		0.278		0.194	0.01U	1.9
	2007 Q4	2.51	0.257		0.01U	0.01U	1.87
	2008 Q2	2.49J	0.277J		0.569J	UJ	1.87J
	2008 Q4	2.53	0.299		0.012	0.01U	1.98
	2009 Q2	2.42	0.29		0.573		2.48
	2009 Q4	2.4	0.4		0.1U	0.1U	2.3
	2010 Q2	2.23	0.287		0.461	0.01U	2.77
	2010 Q4	2.15	0.289		0.014	0.01U	2.59
	2011 Q2	1.71	0.342		0.438	0.01U	3.29
	2011 Q4	2.11	0.29		0.011	0.01U	3.06
	2012 Q2	1.69	0.317		0.474	0.01U	3.55
	2012 Q4	1.95	0.262		0.01U	0.01U	3.3
	2013 Q2	1.61	0.272		0.268	0.01U	3.43
	2013 Q4	2.06	0.301		0.01U	0.01U	3.41
	2014 Q2	1.24	0.26		0.294	0.01U	3.38
	2014 Q4	2.13	0.289		0.01U	0.01U	3.22
	2015 Q2		0.308		0.671	0.01U	3.16
	2015 Q4		0.287		0.01U	0.01U	2.68
	2016 Q1	2.29					
	2016 Q2		0.27			0.01U	2.38
	2016 Q4	1.9	0.283			0.02U	2
	2017 Q2	2.08	0.27			0.02U	2.2
	2017 Q4	1.93H	0.279H			0.02U	2.23H
	2018 Q2		0.276			0.02U	2.19
	2018 Q4	1.44	0.28				2.32
	2019 Q2	1.82H	0.294H				222
	2019 Q4	2.03	0.32				2.58
	2020 Q2	1.59	0.295		0.743		1.94
	2020 Q4	1.92	0.29		0.0581		2.07
	2021 Q2	1.69	0.301				1.86
	2021 Q4	2.29H	0.323H				1.76H
	2022 Q2	1.86H	0.307H				
	2022 Q4	2.12H	0.02UH		0.02U	0.02U	0.851
	2023 Q2	1.92H	0.384H			0.02U	0.0378H
	2023 Q4	1.76H	0.39H		UH	UH	0.735H
	1989 Q3		0.012	0.009			
	1989 Q4	0.003	0.005	0.004			
	1990 Q1	0.005U	0.005U	0.005U			
	1990 Q2	0.01U	0.01U	0.01U			
	1990 Q4		0.01U	0.01U			
	1991 Q1	0.01U	0.01U	0.01U			
	1991 Q2	0.01U	0.01U	0.01U			
	1991 Q3	0.01U	0.01U	0.01U			
	1991 Q4	0.01U	0.01U	0.01U			
	1992 Q1	0.01U	0.01U	0.01U			
	1992 Q2	0.01U	0.01U	0.01U			
	1992 Q3		0.01U	0.01U			
	1992 Q4	0.01U	0.01U				
	1993 Q1	0.01U	0.01U	0.015			
	1993 Q2	0.01U	0.01U	0.01U			
	1993 Q3	0.01U	0.01U	0.01U			
	1993 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.109

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1994 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1994 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.036
	1994 Q3		0.01U	0.013		0.01U	0.04
	1994 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.027
	1995 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.015
	1995 Q2	0.011	0.01U		0.01U	0.01U	
	1995 Q3		0.01U	0.01U		0.01U	0.017
	1995 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1996 Q1	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1996 Q2	0.012	0.01U	0.01U	0.01U	0.01U	0.045
	1996 Q3		0.01U	0.01		0.01U	0.024
	1996 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.018
	1997 Q1	0.014	0.01U	0.01U	0.01U	0.01U	0.036
	1997 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1997 Q3	0.01U	0.01U	0.01U	0.01U	0.01U	0.027
	1997 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1998 Q1	0.011	0.01	0.01U	0.01U	0.01	0.012
	1998 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1998 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1999 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	1999Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2000 Q2.3	UJ	UJ	UJ	UJ	UJ	UJ
	2000 Q4.3	0.01U	0.01U	0.01U	0.01U	0.01U	0.01
	2001 Q2	0.01U	0.01U	0.01U	0.014	0.01U	0.01U
	2001 Q4	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2002 Q2	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
	2002 Q4	0.049	0.01U	0.01U	0.01U	0.01U	0.01
	2003 Q2		0.01U	0.01U	0.01U	0.01U	0.01U
	2003 Q4		0.01U	0.01U	0.027	0.01U	0.01U
	2004 Q2	0.011	0.01U	0.01U	0.01U	0.01U	0.01U
	2004 Q4	0.018	0.01U	0.01U	0.01U	0.01U	0.01U
	2005 Q2	0.015	0.01U	0.01U	0.01U	0.01U	0.01U
	2005 Q4	0.014	0.01U	0.01U	0.01U	0.01U	0.01U
	2006 Q2		0.01U		0.01U	0.01U	0.01U
	2006 Q4	0.022	0.01U				0.013
	2007 Q2		0.01U		0.01U	0.01U	0.015
	2007 Q4	0.012	0.025		0.01U	0.01U	0.01U
	2008 Q2	0.022	0.01U		0.01U	0.01U	0.019
	2008 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2009 Q2	0.01U	0.01U		0.01U		0.01U
	2009 Q4	0.1U	0.1U		0.1U	0.1U	0.1U
	2010 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q4	0.016	0.01U		0.01U	0.01U	0.02
	2012 Q2	0.014	0.01U		0.01U	0.01U	0.022
	2012 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2015 Q2		0.01U		0.01U	0.01U	0.01U
	2015 Q4		0.01U		0.01U	0.01U	0.01U
	2016 Q1	0.01U					

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qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2016 Q2		0.01U			0.01U	0.01U
	2016 Q4	0.01U	0.01U			0.01U	0.01U
	2017 Q2	0.01U	0.01U			0.01U	0.01U
	2017 Q4	0.01U	0.01U			0.01U	0.01U
	2018 Q2		0.01H			0.01H	0.01H
	2018 Q4	0.01U	0.01U				UH
	2019 Q2	UH	0.015H				0.01U
	2019 Q4	0.01U	0.015				0.01U
	2020 Q2	0.01U	0.01U		0.01U		0.01U
	2020 Q4	0.01U	0.01U		0.01U		0.01U
	2021 Q2	0.01U	0.013				0.01U
	2021 Q4	0.014H	0.015H				0.011H
	2022 Q2	0.015H	UH				
	2022 Q4	0.01UH	0.01UH		0.01U	0.01U	0.01U
	2023 Q2	UH	UH			0.01U	UH
	2023 Q4	UH	UH		UH	UH	UH
Sulfate, mg/L							
	1989 Q3		62.9	16.3			
	1989 Q4	141.4	76.8	16.1			
	1990 Q1	146.7	67.4	16			
	1990 Q2	163.1	64.9	15.5			
	1990 Q4		63.7	12.6			
	1991 Q1	135	62.3	15.3			
	1991 Q2	170	65	15.9			
	1991 Q3	193.7	62.8	18.5			
	1991 Q4	36.1	27.9	8.6			
	1992 Q1	159.2	16.6	68.4			
	1992 Q2	161.8	66.6	15.7			
	1992 Q3		64.7	14.8			
	1992 Q4	138	67.4				
	1993 Q1	148	65.8	16.5			
	1993 Q2	161	65.8	16.1			
	1993 Q3	171	65	16.6			
	1993 Q4	138	72.4	17.3	29.3	31.8	141
	1994 Q1	157	73	17.4	26	30.4	38
	1994 Q2	184	70.9	16.4	30.9	34.5	38.1
	1994 Q3		68	16		33	34
	1994 Q4	150	65	16	28	32	34
	1995 Q1	150	63	15	28	31	36
	1995 Q2	130	62		30	34	
	1995 Q3		62	17		33	35
	1995 Q4	130	60	13	29	32	34
	1996 Q1	180	65	16	29	32	33
	1996 Q2	140	63	16	28	31	34
	1996 Q3		67	17		32	34
	1996 Q4	120	62	30	18	31	32
	1997 Q1	120	61	17	29	31	31
	1997 Q2	150	64	16	31	35	33
	1997 Q3	140	68	18	30	32	34
	1997 Q4	120	65	16	31	31	29
	1998 Q1	120	69	18	32	32	32
	1998 Q2	130	68	14	34	35	31
	1998 Q4	120	70	17	36	33	35

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1999 Q2	130	66	16	33	36	32
	1999Q4.3	99	65	18	34	32	32
	2000 Q2.3	140	76	20	35	38	38
	2000 Q4.3	110J	69J	19J	36J	33J	35J
	2001 Q2	99	67	16	33	34	34
	2001 Q4	89	64	15	35	32	35
	2002 Q2	130	66	12	29	31	30
	2002 Q4	110	67	17	35	31	32
	2003 Q2		58	15	30	33	32
	2003 Q4		65	16	34	32	34
	2004 Q2	120	66.5	16.2	30.9	37.3	37
	2004 Q4	86.5	55.9	15.2	32.8	30.6	34
	2005 Q2	124	65.8	15.4	28.8	35.4	38
	2005 Q4	93.1	52.7	14.2	35.4	28.1	38.1
	2006 Q2		66.1		29.4	35.5	43.2
	2006 Q4	99	62.6				40.2
	2007 Q2		57		33.9	34.3	47.5
	2007 Q4	98.2	61.5		38.1	33.7	52.7
	2008 Q2	117	68.3		31.3	32.6	52.6
	2008 Q4	96.3	63.1		38.3	33.5	44.6
	2009 Q2	122	65.9		32.1		54.2
	2009 Q4	93.3	70.1		36.9	34	59.3
	2010 Q2	89.4	19.1		34.1	39.5	26.8
	2010 Q4	78.8	61		37.2	33.9	54
	2011 Q2	100	64.1		30.2	32.4	66.3
	2011 Q4	87.3	67.3		38.1	34.7	67.9
	2012 Q2	117	68.2		31.1	36.5	83.8
	2012 Q4	102	74.4		40.9	27.6	86.2
	2013 Q2	102	70.5		34.1	31.3	88.4
	2013 Q4	88.9	67.9		36.4	27.6	83.9
	2014 Q2	109	69.2		32.6	28.5	91.5
	2014 Q4	88.3	76.6		38.1	29.2	91.4
	2015 Q2		68.9		28.2	25.4	80
	2015 Q4		65.1		36.2	27.1	88
	2016 Q1	86.2					
	2016 Q4	69.2D	69.9			29D	80.1D
	2017 Q2	90.2D	73.3D			35.1D	90.7D
	2017 Q4	82.6D	74.9D			30.9D	95.1D
	2018 Q2		78.7D			33.5D	87.9D
	2018 Q4	66.7D	57.9D				79.6D
	2019 Q4	75.5D	72.5D				87D
	2020 Q2	90D	70.5D		26.3		77.5D
	2020 Q4	74.5D	71.5D		32		86.5D
	2021 Q2	95.5D	75D				87.5D
	2021 Q4	79.2D	83.2D				83.4D
	2022 Q2	82.5D	83D				
	2022 Q4	75.2D	85.5D		36.2D	25	50.1D
	2023 Q2	87D	88D			26.8D	27.4D
	2023 Q4	78D	84.6D		33.6D	25.8	94.9D
Tetrachloroethene (PCE), ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	12					
	1990 Q1	46					

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parameters.
B - Compound found in blank. M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1990 Q2	26					
	1991 Q1	27					
	1991 Q2	31					
	1991 Q3	31					
	1991 Q4	31					
	1992 Q1	26					
	1992 Q2	40					
	1992 Q4	30					
	1993 Q1	15					
	1993 Q2	18					
	1993 Q3	11					
	1993 Q4	27	1U	1U	1U	1U	1U
	1994 Q1	17			1.9	1U	1U
	1994 Q2	12			3.8	1U	26
	1994 Q3					1U	1U
	1994 Q4	30			2.4	1U	1U
	1995 Q1	21E			3.7	0.2U	0.2U
	1995 Q2	9.2			4.5	1U	
	1995 Q3					1U	1U
	1995 Q4	16	1U	1U	3.8	1U	1U
	1996 Q1	9.8			4.6	1U	1U
	1996 Q2	9.9	1U	1U	6.9	1U	1U
	1996 Q3					1U	1U
	1996 Q4	10			5.8	1U	1U
	1997 Q1	6.4			5.2	1U	1U
	1997 Q2	5.1	1U	1U	5.4	1U	1U
	1997 Q3	7.1			8	1U	1U
	1997 Q4	3.5			8.6	1U	1U
	1998 Q1	5.3			7.2	1U	1U
	1998 Q2	5.4	1U	1U	7.2	1U	1U
	1998 Q4	20			8.8	1U	1U
	1999 Q2	350	1U	1U	9.4	1U	1U
	1999Q4.3	3.7			9.3	1U	1U
	2000 Q2.3	6			6.8	1U	1U
	2000 Q4.3	7.5			8.6	1U	1U
	2001 Q2	8.7			6.1	1U	1U
	2001 Q4	12			6.9	1U	1U
	2002 Q2	9.7	1U	1U	6.5	1U	1U
	2002 Q4	11	1U	1U	5.8	1U	1U
	2003 Q2		1U	1U	9.1	1U	1U
	2003 Q4		1U	1U	7.4	1U	1U
	2004 Q2	14	1U	1U	7.6	1U	1U
	2004 Q4	14	1U	1U	6.1	1U	1U
	2005 Q2	14	1U	1U	7.5	1U	1U
	2005 Q4	7.1	1U	1U	6.1	1U	1U
	2006 Q2		1U		11	1U	1U
	2006 Q4	6	1U				1U
	2007 Q2		1U		7.6	1U	1U
	2007 Q4	5	1U		7.8	1U	1U
	2008 Q2	7.4	1U		7.2	1U	1U
	2008 Q4	6.4	1U		8.5	1U	1U
	2009 Q2	5.8	1U		9		1
	2009 Q3						1U
	2009 Q4	5	1U		7.2	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010 Q2	9.2	1U		9.2	1U	1.5
	2010 Q4	9.6	1U		7.2	1U	1.2
	2010-Q2.5						1.5
	2011 Q2	12	1U		7.9	1U	12
	2011 Q4	12	1U		7.1	1U	2.2
	2012 Q2	12	0.2U		8.6	0.2U	3.4
	2012 Q4	13	1U		6.4	1U	3
	2013 Q2	12	0.2U		8.2	0.2U	3.4
	2013 Q4	11	0.2U		7.8	0.2U	3
	2014 Q2	13	0.2U		8.2	0.2U	3.2
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	14	0.2U		6.7	0.2U	3
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		9.2	0.2U	4
	2015 Q4		0.2U		7.5	0.2U	3
	2016 Q1	8.6					
	2016 Q2		0.2U			0.2U	3.2
	2016 Q4	7.27	0.2U			0.2U	1.64
	2017 Q2	8.49	0.2U			0.2U	2.69
	2017 Q4	11.1	0.2U			0.2U	2.57
	2018 Q2		0.2U			0.2U	2.84
	2018 Q4	12.8	0.2U				3.57
	2019 Q2	12.7	0.2U				2.7
	2019 Q4	11.8	0.2U				3.83
	2020 Q2	10.9	0.2U		5.93		2.63
	2020 Q4	14.2	0.2U		1.8		2.43
	2021 Q2	17	0.2U		1.16		3.11
	2021 Q4	14.1	0.2U				1.73
	2022 Q2	12	0.2U				
	2022 Q4	11.3	0.2U		2.34	0.2U	0.97
	2023 Q2	8.65	0.2U			0.2U	0.49
	2023 Q4	4.46	0.2U		3.83	0.2U	1.33
Trichloroethene (TCE), ug/L							
	1989 Q3		0.8U	0.8U			
	1989 Q4	0.3M					
	1990 Q1	1.4					
	1990 Q2	0.9J					
	1991 Q1	1.2M					
	1991 Q2	1.1					
	1991 Q3	0.8J					
	1991 Q4	0.8J					
	1992 Q1	1U					
	1992 Q2	1.4					
	1992 Q4	1.2					
	1993 Q1	1U					
	1993 Q2	1.1					
	1993 Q3	1U					
	1993 Q4	1.6	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1.1
	1994 Q3					1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1994 Q4	1.5			1U	1U	1U
	1995 Q1	0.4			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.4	0.2U		0.4	0.2U	0.2
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.49	0.2U		0.41	0.2U	0.27
	2013 Q4	0.47	0.2U		0.38	0.2U	0.24
	2014 Q2	0.6	0.2U		0.45	0.2U	0.3
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.7	0.2U		0.61	0.2U	0.22
	2014 Q4.1						
	2014 Q4.2						

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2015 Q2		0.2U		0.44	0.2U	0.29
	2015 Q4		0.2U		0.73	0.2U	0.2
	2016 Q1	0.45					
	2016 Q2		0.2U			0.2U	0.25
	2016 Q4	0.3	0.2U			0.2U	0.2U
	2017 Q2	0.45	0.2U			0.2U	0.2U
	2017 Q4	0.58	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.21
	2018 Q4	0.61	0.2U				0.22
	2019 Q2	0.62	0.2U				0.24
	2019 Q4	0.67	0.2U				0.28
	2020 Q2	0.75	0.2U		0.59		0.2U
	2020 Q4	0.9	0.2U		0.46		0.2U
	2021 Q2	0.89	0.2U		0.2U		0.23
	2021 Q4	0.72	0.2U				0.2U
	2022 Q2	0.66	0.2U				
	2022 Q4	0.59	0.2U		0.67	0.2U	0.2U
	2023 Q2	0.53	0.2U			0.2U	0.2U
	2023 Q4	0.31	0.2U		0.82	0.2U	0.2U
	Trichlorofluoromethane (CFC 11), ug/L						
1989 Q3		1U	1U				
1989 Q4	1U						
1990 Q1	1.2						
1990 Q2	1U						
1991 Q1	2U						
1991 Q2	1U						
1991 Q3	1J						
1991 Q4	2U						
1992 Q1	2U						
1992 Q2	2U						
1992 Q4	2U						
1993 Q1	2U						
1993 Q2	2U						
1993 Q3	2U						
1993 Q4	2U	2U	2U	2U	2U	2U	
1994 Q1	2U			2U	2U	2U	
1994 Q2	2U			2U	2U	2U	
1994 Q3					2U	2U	
1994 Q4	2U			2U	2U	2U	
1995 Q1	2.1			0.2U	0.2U	0.2U	
1995 Q2	2U			2U	2U		
1995 Q3					2U	2U	
1995 Q4	2U	2U	2U	2U	2U	2U	
1996 Q1	2U			2U	2U	2U	
1996 Q2	2U	2U	2U	2U	2U	2U	
1996 Q3					2U	2U	
1996 Q4	2U			2U	2U	2U	
1997 Q1	2U			2U	2U	2U	
1997 Q2	2U	2U	2U	2U	2U	2U	
1997 Q3	2U			2U	2U	2U	
1997 Q4	2U			2U	2U	2U	
1998 Q1	1U			2U	1U	1U	
1998 Q2	2U	2U	2U	2U	2U	2U	

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value, parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.5	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.73	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.45	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.79	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.35					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.29	0.2U			0.2U	0.2U
	2017 Q2	0.21	0.2U			0.2U	0.2U
	2017 Q4	0.4	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.27	0.2U				0.2U
	2019 Q2	0.32	0.2U				0.2U
	2019 Q4	0.29	0.2U				0.2U
	2020 Q2	0.24	0.2U		0.2U		0.2U
	2020 Q4	0.37Q	0.2U		0.2U		0.2U
	2021 Q2	0.35	0.2U		0.2U		0.2U
	2021 Q4	0.29	0.2U				0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Vinyl Chloride, ug/L	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.24	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Vinyl Chloride, ug/L	1989 Q3		1.1U	1.1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	3U					
	1991 Q2	3U					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Zinc, Dissolved, mg/L	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		0.414	0.241			
	1989 Q4	0.061	0.131	0.101			
	1990 Q1	0.064	0.108	0.072			
	1990 Q2	0.047	0.081	0.05			
	1990 Q4		0.038	0.043			
	1991 Q1	0.021	0.033	0.035			
	1991 Q2	0.025	0.043	0.043			
	1991 Q3	0.018	0.022	0.037			
	1991 Q4	0.004U	0.007	0.009			

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q1	0.019	0.004	0.004			
	1992 Q2	0.022	0.005	0.034			
	1992 Q3		0.028	0.031			
	1992 Q4	0.006	0.008				
	1993 Q1	0.012	0.004U	0.004U			
	1993 Q2	0.004U	0.004U	0.014B			
	1993 Q3	0.007	0.007	0.004			
	1993 Q4	0.006	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q1	0.008	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q2	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U
	1994 Q3		0.004U	0.004U		0.005B	0.004U
	1994 Q4	0.015	0.004U	0.004U	0.004U	0.004U	0.004U
	1995 Q1	0.008	0.004U	0.004U	0.004U	0.004U	0.004U
	1995 Q2	0.008	0.005B		0.004U	0.004U	
	1995 Q3		0.004U	0.004U		0.004U	0.004U
	1995 Q4	0.009	0.008	0.004U	0.004U	0.004U	0.004U
	1996 Q1	0.008	0.013	0.018	0.004U	0.004U	0.004U
	1996 Q2	0.007	0.01	0.016	0.004U	0.004U	0.004U
	1996 Q3		0.009	0.016		0.004U	0.004U
	1996 Q4	0.013	0.006	0.004U	0.004U	0.004U	0.004U
	1997 Q1	0.012	0.01	0.016	0.004U	0.004U	0.004U
	1997 Q2	0.012	0.012	0.015	0.004U	0.004U	0.004U
	1997 Q3	0.014	0.01	0.016	0.006	0.004U	0.009
	1997 Q4	0.009	0.008	0.014	0.004U	0.004U	0.004U
	1998 Q1	0.007	0.008	0.013	0.004U	0.004U	0.004U
	1998 Q2	0.009	0.009	0.015	0.004U	0.004U	0.004U
	1998 Q4	0.02	0.008	0.016	0.004U	0.004U	0.004U
	1999 Q2	0.011	0.009	0.017	0.004U	0.004U	0.004U
	1999Q4.3	0.006	0.006U	0.016	0.006U	0.006U	0.006U
	2000 Q2.3	0.007	0.009	0.014	0.006U	0.006U	0.006U
	2000 Q4.3	0.016	0.006U	0.011	0.006U	0.007	0.006U
	2001 Q2	0.014	0.011	0.013	0.006U	0.006U	0.006U
	2001 Q4	0.016	0.009	0.013	0.006U	0.006U	0.006U
	2002 Q2	0.016	0.014	0.013	0.006U	0.006U	0.006U
	2002 Q4	0.017	0.013	0.015	0.006U	0.006U	0.006U
	2003 Q2		0.011	0.011	0.006U	0.006U	0.006U
	2003 Q4		0.01	0.01	0.006U	0.006U	0.006U
	2004 Q2	0.022	0.016	0.013	0.006U	0.006U	0.006U
	2004 Q4	0.014	0.011	0.014	0.006U	0.006U	0.006U
	2005 Q2	0.009	0.009	0.01	0.006U	0.006U	0.006U
	2005 Q4	0.012	0.006U	0.011	0.006U	0.006U	0.006U
	2006 Q2		0.01		0.006U	0.006U	0.006U
	2006 Q4	0.006U	0.006U				0.006U
	2007 Q2		0.01U		0.01U	0.01U	0.01U
	2007 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2008 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2008 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2009 Q2	0.01U	0.01U		0.01U		0.01U
	2009 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2010 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2011 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2012 Q2	0.01U	0.01U		0.01U	0.01U	0.01U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2012 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2013 Q2	0.02	0.05		0.01U	0.01U	0.01U
	2013 Q4	0.01	0.01U		0.01U	0.01U	0.01U
	2014 Q2	0.01U	0.01U		0.01U	0.01U	0.01U
	2014 Q4	0.01U	0.01U		0.01U	0.01U	0.01U
	2015 Q2		0.01		0.01U	0.01U	0.01U
	2015 Q4		0.01U		0.01U	0.01U	0.01U
	2016 Q1	0.004U					
	2016 Q2		0.01U			0.01U	0.01U
	2016 Q4	0.01U	0.01U			0.01U	0.01U
	2017 Q2	0.01U	0.01U			0.01U	0.01U
	2017 Q4	0.0104	0.01U			0.01U	0.01U
	2018 Q2		0.01U			0.01U	0.01U
	2018 Q4	0.0105	0.01U				0.01U
	2019 Q2	0.01U	0.01U				0.01U
	2019 Q4	0.01U	0.01U				0.01U
	2020 Q2	0.01U	0.01U		0.01U		0.01U
	2020 Q4	0.02U	0.02U		0.02U		0.02U
	2021 Q2	0.1U	0.1U				0.1U
	2021 Q4	0.02U	0.02U				
	2022 Q2	0.02	0.02U				
	2022 Q4	0.02U	0.02U				
	2023 Q2	0.02U	0.02U				0.02U
	2023 Q4	0.02U	0.0243		0.02U	0.02U	0.02U

VOC

(StiropHos) TetrachlorinpHos, ug/L

1989 Q3 0.02U 0.02U

1,1,1,2-Tetrachloroethane, ug/L

1994 Q4	1U			1U	1U	1U
1995 Q3					1U	1U
1995 Q4	1U	1U	1U	1U	1U	1U
1996 Q1	1U			1U	1U	1U
1996 Q2	1U	1U	1U	1U	1U	1U
1996 Q3					1U	1U
1996 Q4	1U			1U	1U	1U
1997 Q1	1U			1U	1U	1U
1997 Q2	1U	1U	1U	1U	1U	1U
1997 Q3	1U			1U	1U	1U
1997 Q4	1U			1U	1U	1U
1998 Q1	1U			1U	1U	1U
1998 Q2	1U	1U	1U	1U	1U	1U
1998 Q4	1U			1U	1U	1U
1999 Q2	29U	1U	1U	1U	1U	1U
1999Q4.3	1U			1U	1U	1U
2000 Q2.3	1U			1U	1U	1U
2000 Q4.3	1U			1U	1U	1U
2001 Q2	1U			1U	1U	1U
2001 Q4	1U			1U	1U	1U
2002 Q2	1U	1U	1U	1U	1U	1U
2002 Q4	1U	1U	1U	1U	1U	1U
2003 Q2		1U	1U	1U	1U	1U
2003 Q4		1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,1,1-Trichloroethane (TCA), ug/L							
	1989 Q3		1U	1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1.1	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1.1			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
1,1,2,2-Tetrachloroethane, ug/L	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,1,2-Trichloro-1,2,2-trifluoroetha, ug/l	2001 Q2	2U			2U	2U	2U
	2001 Q4	2U			2U	2U	2U
	2002 Q2	2U	2U	2U	2U	2U	2U
	2002 Q4	2U	2U	2U	2U	2U	2U
	2003 Q2		2U	2U	2U	2U	2U
	2003 Q4		2U	2U	2U	2U	2U
	2004 Q2	2U	2U	2U	2U	2U	2U
	2004 Q4	2U	2U	2U	2U	2U	2U
	2005 Q2	2U	2U	2U	2U	2U	2U
	2005 Q4	2U	2U	2U	2U	2U	2U
	2006 Q2		2U		2U	2U	2U
	2006 Q4	2U	2U				2U
	2007 Q2		2U		2U	2U	2U
	2007 Q4	2U	2U		2U	2U	2U
	2008 Q2	2U	2U		2U	2U	2U
	2008 Q4	2U	2U		2U	2U	2U
	2009 Q2	2U	2U		2U		2U
	2009 Q3						2U
	2009 Q4	2U	2U		2U	2U	2U
	2010 Q2	2U	2U		2U	2U	2U
	2010 Q4	2U	2U		2U	2U	2U
	2010-Q2.5						0.2U
	2011 Q2	2U	2U		2U	2U	2U
	2011 Q4	2U	2U		2U	2U	2U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	2U	2U		2U	2U	2U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.22	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
1,1,2-Trichloroethane, ug/L	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.33
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.79
	2023 Q2	0.2U	0.2U			0.2U	1.45
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		0.3U	0.3U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
1,1,2-Trichlorotrifluoroethane(CFC), ug/L	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,1,2-Trichlorotrifluoroethane(CFC), ug/L	1989 Q3		1U	1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	5U					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	58U	2U	2U	2U	2U	2U
	1999Q4.3	2U			2U	2U	2U
	2000 Q2.3	2U			2U	2U	2U
	2000 Q4.3	2U			2U	2U	2U
1,1-Dichloroethane, ug/L	1989 Q3		1.1U	1.1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q4	1U					
	1993 Q1	1U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,1-Dichloroethene, ug/L	1989 Q3		1.3U	1.3U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	2U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.

B - Compound found in blank.

M - Estimated value - low spectral match

parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.24	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.26	0.2U				0.2U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.3	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.36	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.36	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.29	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,1-Dichloropropene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene, ug/L							
	1994 Q4	5U			5U	5U	5U
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	2.5U			5U	2.5U	2.5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						0.5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
1,2,3-Trichloropropane, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					UY	UY
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	2.5U			1U	2.5U	2.5U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	87U	3U	3U	3U	3U	3U
	1999Q4.3	3U			3U	3U	3U
	2000 Q2.3	3U			3U	3U	3U
	2000 Q4.3	3U			3U	3U	3U
	2001 Q2	3U			3U	3U	3U
	2001 Q4	3U			3U	3U	3U
	2002 Q2	3U	3U	3U	3U	3U	3U
	2002 Q4	3U	3U	3U	3U	3U	3U
	2003 Q2		3U	3U	3U	3U	3U
	2003 Q4		3U	3U	3U	3U	3U
	2004 Q2	3U	3U	3U	3U	3U	3U
	2004 Q4	2U	2U	2U	2U	2U	2U
	2005 Q2	2U	2U	2U	2U	2U	2U
	2005 Q4	2U	2U	2U	2U	2U	2U
	2006 Q2		2U		2U	2U	2U
	2006 Q4	2U	2U				2U
	2007 Q2		2U		2U	2U	2U
	2007 Q4	2U	2U		2U	2U	2U
	2008 Q2	2U	2U		2U	2U	2U
	2008 Q4	2U	2U		2U	2U	2U
	2009 Q2	2U	2U		2U		2U
	2009 Q3						2U
	2009 Q4	2U	2U		2U	2U	2U
	2010 Q2	2U	2U		2U	2U	2U
	2010 Q4	2U	2U		2U	2U	2U
	2010-Q2.5						0.5U
	2011 Q2	2U	2U		2U	2U	2U
	2011 Q4	2U	2U		2U	2U	2U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	2U	2U		2U	2U	2U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene, ug/L							
	1994 Q4	5U			5U	5U	5U
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	2.5U			5U	2.5U	2.5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010-Q2.5						0.5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane (DBCP), ug/L							
	1994 Q4	5U			5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						0.5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

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J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.58
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	1,2-Dibromoethane (EDB), ug/L						
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1,2-Dichlorobenzene, ug/L						
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC), ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.

B - Compound found in blank.

M - Estimated value - low spectral match

parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
1,2-Dichloropropane, ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
1,3-Dichlorobenzene, ug/L	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,3-Dichlorobenzene, ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,3-Dichloropropane, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						0.2U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
1,4-Dichlorobenzene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
2,2-Dichloropropane, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
2,4,5-T, ug/L	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
2,4-D, ug/L	1989 Q3		2U	2U			
	1989 Q3		2U	2U			
2,4-DB, ug/L	1989 Q3		2U	2U			
	1989 Q3		2U	2U			
2-Butanone (MEK), ug/L	1989 Q3		2.5U	2.5U			
	1989 Q4	5U					
	1990 Q1	5U					
	1990 Q2	5U					
	1991 Q1	7.5U					
	1991 Q2	7.5U					
	1991 Q3	5U					
	1991 Q4	5U					
	1992 Q1	5U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	5U					
	1993 Q3	5U					
	1993 Q4	5U	5U	5U	6.1	34	110
	1994 Q1	5U			56	33	6.7
	1994 Q2	5U			66	22	22
	1994 Q3					8.1	9.3
	1994 Q4	5U			54	5U	6.1

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q1	1U			23E	8.1	5
	1995 Q2	5U			24	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	8.6
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	5U	5U
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				5U
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U
	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5U		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
	2-Chloroethyl Vinyl Ether, ug/L						
	1989 Q3		1.5U	1.5U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	5U			5U	5U	5U
	1994 Q2	5U			5U	5U	5U
	1994 Q3					5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q1	0.5U			0.5U	0.5U	0.5U
	1995 Q2	5U			5U	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	2.5U			5U	2.5U	2.5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						1U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	1U	1U		1U	1U	1U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
2-Chlorotoluene, ug/L	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
2-Hexanone, ug/L	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		1.3U	1.3U			
	1989 Q4	5U					
	1990 Q1	5U					
	1990 Q2	5U					
	1991 Q1	2U					
	1991 Q2	4U					
	1991 Q3	5U					
	1991 Q4	5U					
	1992 Q1	5U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	5U					
	1993 Q3	5U					
	1993 Q4	5U	5U	5U	5U	5U	5U
	1994 Q1	5U			5U	5U	5U
	1994 Q2	5U			5U	5U	5U
	1994 Q3					5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q1	1U			1U	1U	1U
	1995 Q2	5U			5U	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	5U	5U
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				5U
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
4,4'-DDD, ug/L	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5U		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
4,4'-DDE, ug/L	1989 Q3		0.06U	0.06U			
	1989 Q3		0.04U	0.04U			
4,4'-DDT, ug/L	1989 Q3		0.06U	0.06U			
4-Chlorotoluene, ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
4-Isopropyltoluene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.

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parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
4-Methyl-2-pentanone (MIBK), ug/L							
	1989 Q3		1.8U	1.8U			
	1989 Q4	7.5U					
	1990 Q1	7.5U					
	1990 Q2	7.5U					
	1991 Q1	2U					
	1991 Q2	2U					
	1991 Q3	5U					
	1991 Q4	5U					
	1992 Q1	5U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	5U					
	1993 Q3	5U					
	1993 Q4	5U	5U	5U	5U	5U	5U
	1994 Q1	5U			5U	5U	5U
	1994 Q2	5U			5U	5U	5U
	1994 Q3					5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q1	1U			1U	1U	1U
	1995 Q2	5U			5U	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	5U	5U
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				5U
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U
	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5U		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
Acetone, ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	5U					
	1990 Q1	5U					
	1990 Q2	5U					
	1991 Q1	3U					
	1991 Q2	2.3JB					
	1991 Q3	5U					
	1991 Q4	5U					
	1992 Q1	5U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	5U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q3	5U					
	1993 Q4	5U	5U	5U	5U	5U	5U
	1994 Q1	9.9			9.1	9	8.7
	1994 Q2	11			13	11	25
	1994 Q3					5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q1	1U			3	1U	1U
	1995 Q2	5U			5U	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5.7			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	11	5U	5U	5U	5U
	1997 Q3	5U			6	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			30	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	10U	10U		10U		10U
	2009 Q3						10U
	2009 Q4	10U	10U		10U	10U	10U
	2010 Q2	10U	10U		10U	10U	10U
	2010 Q4	10U	10U		10U	10U	10U
	2010-Q2.5						5U
	2011 Q2	10U	10U		10U	10U	10U
	2011 Q4	10U	10U		10U	10U	10U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	10U	10U		10U	10U	10U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	12	5U

* CONF = Confluent growth on all dilutions, no coliforms. qualified.

** Indicates detected in the trip blank but not

J - Estimated value. parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				13.9
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U
	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5.9		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
Acrolein, ug/L	1994 Q4	25Y			25Y	25Y	25Y
	1995 Q3					50U	50U
	1995 Q4	50U	50U	50U	50U	50U	50U
	1996 Q1	50U			50U	50U	50U
	1996 Q2	50U	50U	50U	50U	50U	50U
	1996 Q3					50U	50U
	1996 Q4	50U			50U	50U	50U
	1997 Q1	50U			50U	50U	50U
	1997 Q2	50U	50U	50U	50U	50U	50U
	1997 Q3	50U			50U	50U	50U
	1997 Q4	50U			50U	50U	50U
	1998 Q1	25U			50U	25U	25U
	1998 Q2	50U	50U	50U	50U	50U	50U
	1998 Q4	50U			50U	50U	50U
	1999 Q2	1500U	50U	50U	50U	50U	50U
	1999Q4.3	50U			50U	50U	50U
	2000 Q2.3	50U			50U	50U	50U
	2000 Q4.3	50U			50U	50U	50U
	2001 Q2	50U			50U	50U	50U
	2001 Q4	50U			50U	50U	50U
	2002 Q2	50U	50U	50U	50U	50U	50U
	2002 Q4	50U	50U	50U	50U	50U	50U
	2003 Q2		50U	50U	50U	50U	50U
	2003 Q4		50U	50U	50U	50U	50U
	2004 Q2	50U	50U	50U	50U	50U	50U
	2004 Q4	50U	50U	50U	50U	50U	50U
	2005 Q2	50U	50U	50U	50U	50U	50U
	2005 Q4	50U	50U	50U	50U	50U	50U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Acrylonitrile, ug/L	2006 Q2		50U		50U	50U	50U
	2006 Q4	50U	50U				50U
	2007 Q2		50U		50U	50U	50U
	2007 Q4	50U	50U		50U	50U	50U
	2008 Q2	10U	10U		10U	10U	10U
	2008 Q4	10U	10U		10U	10U	10U
	2009 Q2	10U	10U		10U		10U
	2009 Q3						10U
	2009 Q4	10U	10U		10U	10U	10U
	2010 Q2	10U	10U		10U	10U	10U
	2010 Q4	10U	10U		10U	10U	10U
	2010-Q2.5						5U
	2011 Q2	10U	10U		10U	10U	10U
	2011 Q4	10U	10U		10U	10U	10U
	2012 Q2	5U	5U		5U	5U	5U
	2012 Q4	10U	10U		10U	10U	10U
	2013 Q2	5U	5U		5U	5U	5U
	2013 Q4	5U	5U		5U	5U	5U
	2014 Q2	5U	5U		5U	5U	5U
	2014 Q2.5					5U	
	2014 Q2.6					5U	
	2014 Q4	5U	5U		5U	5U	5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		5U		5U	5U	5U
	2015 Q4		5U		5U	5U	5U
	2016 Q1	5U					
	2016 Q2		5U			5U	5U
	2016 Q4	5U	5U			5U	5U
	2017 Q2	5U	5U			5U	5U
	2017 Q4	5U	5U			5U	5U
	2018 Q2		5U			5U	5U
	2018 Q4	5U	5U				5U
	2019 Q2	5U	5U				5U
	2019 Q4	5U	5U				5U
	2020 Q2	5U	5U		5U		5U
	2020 Q4	5U	5U		5U		5U
	2021 Q2	5U	5U		5U		5U
	2021 Q4	5U	5U				5U
	2022 Q2	5U	5U				
	2022 Q4	5U	5U		5U	5U	5U
	2023 Q2	5U	5U			5U	5U
	2023 Q4	5U	5U		5U	5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						1U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	1U	1U		1U	1U	1U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				
	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
Alachlor (Lasso), ug/L							
	1989 Q3		0.1U	0.1U			
Aldrin, ug/L							
	1989 Q3		0.03U	0.03U			
AlpHa-BHC, ug/L							
	1989 Q3		0.02U	0.02U			
AlpHa-Chlordane, ug/L							
	1989 Q3		0.03U	0.03U			
Aroclor-1221, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1232, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1242/1016, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1248, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1254, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1260, ug/L							
	1989 Q3		0.4U	0.4U			
Aroclor-1262, ug/L							
	1989 Q3		4U	4U			
Aroclor-1268, ug/L							
	1989 Q3		0.68U	0.68U			
Benzene, ug/L							
	1989 Q3		0.4U	0.4U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	0.9M					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					

* CONF = Confluent growth on all dilutions, no coliforms. qualified.

** Indicates detected in the trip blank but not

J - Estimated value. parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	21J	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Beta-BHC, ug/L	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Bromobenzene, ug/L	1989 Q3		0.03U	0.03U			
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Bromochloromethane, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Bromodichloromethane, ug/L							
	1989 Q3		0.2U	0.2U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.

B - Compound found in blank.

M - Estimated value - low spectral match

parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Bromoethane, ug/L							
	1994 Q4	2U			2U	2U	2U
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	58U	2U	2U	2U	2U	2U
	1999Q4.3	2U			2U	2U	2U
	2000 Q2.3	2U			2U	2U	2U
	2000 Q4.3	2U			2U	2U	2U
	2001 Q2	2U			2U	2U	2U
	2001 Q4	2U			2U	2U	2U
	2002 Q2	2U	2U	2U	2U	2U	2U
	2002 Q4	2U	2U	2U	2U	2U	2U
	2003 Q2		2U	2U	2U	2U	2U
	2003 Q4		2U	2U	2U	2U	2U
	2004 Q2	2U	2U	2U	2U	2U	2U
	2004 Q4	2U	2U	2U	2U	2U	2U
	2005 Q2	2U	2U	2U	2U	2U	2U
	2005 Q4	2U	2U	2U	2U	2U	2U
	2006 Q2		2U		2U	2U	2U
	2006 Q4	2U	2U				2U
	2007 Q2		2U		2U	2U	2U
	2007 Q4	2U	2U		2U	2U	2U
	2008 Q2	2U	2U		2U	2U	2U
	2008 Q4	2U	2U		2U	2U	2U
	2009 Q2	2U	2U		2U		2U
	2009 Q3						2U
	2009 Q4	2U	2U		2U	2U	2U
	2010 Q2	2U	2U		2U	2U	2U
	2010 Q4	2U	2U		2U	2U	2U
	2010-Q2.5						0.2U
	2011 Q2	2U	2U		2U	2U	2U
	2011 Q4	2U	2U		2U	2U	2U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	2U	2U		2U	2U	2U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Bromoform, ug/L	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	1989 Q3		0.3U	0.3U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	3U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	5U					
	1992 Q4	5U					
	1993 Q1	5U					
	1993 Q2	1U					
	1993 Q3	5U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.5U			0.5U	0.5U	0.5U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	2.5U			1U	2.5U	2.5U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Bromomethane, ug/L	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		0.9U	0.9U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	3U					
	1991 Q3	2U					
	1991 Q4	2U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						1U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Carbon Disulfide, ug/L	2012 Q2	1U	1U		1U	1U	1U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				
	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
	1989 Q3		2U	2U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	2U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			20	1U	5.1
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1.8	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.29
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.25
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.7
	2023 Q2	0.2U	0.2U			0.2U	1.71
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Carbon Tetrachloride, ug/L							
	1989 Q3		0.5U	0.5U			
	1989 Q4	0.6J					
	1990 Q1	5.5					
	1990 Q2	1.2					
	1991 Q1	1M					
	1991 Q2	1.6					
	1991 Q3	3					
	1991 Q4	2.2					
	1992 Q1	1.7					
	1992 Q2	2.1M					
	1992 Q4	1.6					
	1993 Q1	1M					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1.2M			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1.3			1U	1U	1U
	1995 Q1	1.3			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Chlorobenzene, ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Chloroethane, ug/L							
	1989 Q3		0.9U	0.9U			
	1989 Q4	2U					
	1990 Q1	2U					
	1990 Q2	2U					
	1991 Q1	3U					
	1991 Q2	3U					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Chloroform, ug/L	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.29		0.29
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1989 Q3		0.9U	0.9U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Chloromethane, ug/L	1989 Q3		2.9U	2.9U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2						
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.5U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
Chlorpyrifos (Dursban), ug/L							
	1989 Q3		0.04U	0.04U			
cis-1,2-Dichloroethene, ug/L							
	1989 Q3		1.2U	1.2U			
	1989 Q4	1U					

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

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M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.28	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.31	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.21	0.2U	0.2U
	2015 Q4		0.2U		0.43	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.35		0.2U
	2020 Q4	0.2U	0.2U		0.44		0.2U
	2021 Q2	0.24	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.53	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.55	0.2U	0.2U
cis-1,3-Dichloropropene, ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Dalapon, ug/L							
	1989 Q3		40U	40U			
Delta-BHC, ug/L							
	1989 Q3		0.04U	0.04U			
Diazinon (Spectracide), ug/L							
	1989 Q3		0.02U	0.02U			
Dibromochloromethane, ug/L							
	1989 Q3		0.9U	0.9U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	4.7			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Dibromomethane, ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Dicamba, ug/L							
	1989 Q3		0.3U	0.3U			
Dichlorodifluoromethane (CFC 12), ug/L							
	2016 Q4	0.87	0.2U			0.2U	0.2U
	2017 Q2	0.54	0.2U			0.2U	0.26
	2017 Q4	1.09	0.2U			0.2U	0.39
	2018 Q2		0.2U			0.2U	0.39
	2018 Q4	0.74	0.2U				0.2U
	2019 Q2	0.81	0.2U				0.38
	2019 Q4	1.1	0.2U				0.51
	2020 Q2	0.72	0.2U		0.42		0.3
	2020 Q4	0.88Q	0.2U		0.36Q		0.3Q
	2021 Q2	1	0.2U		0.2U		0.35
	2021 Q4	1.02	0.2U				0.2U
	2022 Q2	0.77Q	0.2U				
	2022 Q4	0.6	0.2U		0.38	0.2U	0.22
	2023 Q2	0.8	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.31	0.2U	0.2U
Dichloromethane(Methylene Chloride), ug/L							
	1989 Q3		1.1B	0.6JB			
	1989 Q4	0.6JB					
	1990 Q1	0.6JB					

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1990 Q2	1.1JB					
	1991 Q1	0.7MB					
	1991 Q2	2B					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	4B					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2.1B			2U	2B	2U
	1994 Q2	303			2U	2U	2.6
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			2.2B	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1.1			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	58U	2U	2U	2U	2U	2U
	1999Q4.3	2U			2U	2U	2U
	2000 Q2.3	2U			2U	2U	2U
	2000 Q4.3	2U			2U	2U	2U
	2001 Q2	2U			2U	2U	2U
	2001 Q4	2U			2U	2U	2U
	2002 Q2	2U	2U	2U	2U	2U	2U
	2002 Q4	2U	2U	2U	2U	2U	2U
	2003 Q2		2U	2U	2U	2U	2U
	2003 Q4		2U	2U	2U	2U	2U
	2004 Q2	2U	2U	2U	2U	2U	2U
	2004 Q4	2U	2U	2U	2U	2U	2U
	2005 Q2	2U	2U	2U	2U	2U	2U
	2005 Q4	2U	2U	2U	2U	2U	2U
	2006 Q2		2U		2U	2U	2U
	2006 Q4	2U	2U				2U
	2007 Q2		2U		2U	2U	2U
	2007 Q4	2U	2U		2U	2U	2U
	2008 Q2	2U	2U		2U	2U	2U
	2008 Q4	2U	2U		2U	2U	2U
	2009 Q2	2U	2U		2U		2U
	2009 Q3						2U
	2009 Q4	2U	2U		2U	2U	2U

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** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010 Q2	2U	2U		2U	2U	2U
	2010 Q4	2U	2U		2U	2U	2U
	2010-Q2.5						0.5U
	2011 Q2	2U	2U		2U	2U	2U
	2011 Q4	2U	2U		2U	2U	2U
	2012 Q2	1U	1U		1U	1U	1U
	2012 Q4	2U	2U		2U	2U	2U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				
	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
Dichlorprop, ug/L							
	1989 Q3		1U	1U			
Dichlorvos(DDVP), ug/L							
	1989 Q3		0.05U	0.05U			
Dieldrin, ug/L							
	1989 Q3		0.04U	0.04U			
Dinoseb, ug/L							
	1989 Q3		0.4U	0.4U			
Disulfoton (Di-Syston), ug/L							
	1989 Q3		0.02U	0.02U			
Endosulfan I, ug/L							
	1989 Q3		0.03U	0.03U			
Endosulfan II, ug/L							
	1989 Q3		0.04U	0.04U			
Endosulfan Sulfate, ug/L							
	1989 Q3		0.09U	0.09U			

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Endrin, ug/L							
	1989 Q3		0.04U	0.04U			
Endrin Ketone, ug/L							
	1989 Q3		0.06U	0.06U			
EPTC (Eptam), ug/L							
	1989 Q3		0.05U	0.05U			
Ethoprop (Mocap), ug/L							
	1989 Q3		0.01U	0.01U			
Ethylbenzene, ug/L							
	1989 Q3		1U	1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Ethylene Dibromide, ug/L							
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U

* CONF = Confluent growth on all dilutions, no coliforms.
J - Estimated value.

** Indicates detected in the trip blank but not

B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
Fensulfothioon (Desanit), ug/L							
	1989 Q3		0.02U	0.02U			
Gamma-BHC (Lindane), ug/L							
	1989 Q3		0.02U	0.02U			
Gamma-Chlordane, ug/L							
	1989 Q3		0.03U	0.03U			
Heptachlor, ug/L							
	1989 Q3		0.02U	0.02U			
Heptachlor Epoxide, ug/L							
	1989 Q3		0.03U	0.03U			
Hexachlorobutadiene, ug/L							
	1994 Q4	5U			5U	5U	5U
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms. qualified.

** Indicates detected in the trip blank but not

J - Estimated value. parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	2.5U			5U	2.5U	2.5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						0.5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					
	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Hexazinon (Velpar), ug/L	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	2U	2U				2U
	2022 Q2	2U	2U				
	2022 Q4	2U	2U		2U	2U	2U
	2023 Q2	2U	2U			2U	2U
	2023 Q4	2U	2U		2U	2U	2U
Iodomethane, ug/L	1989 Q3		0.07U	0.07U			
	1994 Q4	1U			1U	1U	1U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				
	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
Isopropylbenzene (Cumene), ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
m,p-Xylene, ug/L	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
m,p-Xylene, ug/L	1994 Q4	0U			0U	0U	0U
	1995 Q1	0.4U			0.4U	0.4U	0.4U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	2U			1U	2U	2U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	2U	2U		2U	2U	2U
	2009 Q2	2U	2U		2U		2U
	2009 Q3						2U
	2009 Q4	2U	2U		2U	2U	2U
	2010 Q2	2U	2U		2U	2U	2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2010 Q4	2U	2U		2U	2U	2U
	2010-Q2.5						0.4U
	2011 Q2	2U	2U		2U	2U	2U
	2011 Q4	2U	2U		2U	2U	2U
	2012 Q2	0.4U	0.4U		0.4U	0.4U	0.4U
	2012 Q4	2U	2U		2U	2U	2U
	2013 Q2	0.4U	0.4U		0.4U	0.4U	0.4U
	2013 Q4	0.4U	0.4U		0.4U	0.4U	0.4U
	2014 Q2	0.4U	0.4U		0.4U	0.4U	0.4U
	2014 Q2.5					0.4U	
	2014 Q2.6					0.4U	
	2014 Q4	0.4U	0.4U		0.4U	0.4U	0.4U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.4U		0.4U	0.4U	0.4U
	2015 Q4		0.4U		0.4U	0.4U	0.4U
	2016 Q1	0.4U					
	2016 Q2		0.4U			0.4U	0.4U
	2016 Q4	0.4U	0.4U			0.4U	0.4U
	2017 Q2	0.4U	0.4U			0.4U	0.4U
	2017 Q4	0.4U	0.4U			0.4U	0.4U
	2018 Q2		0.4U			0.4U	0.4U
	2018 Q4	0.4U	0.4U				0.4U
	2019 Q2	0.4U	0.4U				0.4U
	2019 Q4	0.4U	0.4U				0.4U
	2020 Q2	0.4U	0.4U		0.4U		0.4U
	2020 Q4	0.4U	0.4U		0.4U		0.4U
	2021 Q2	0.4U	0.4U		0.4U		0.4U
	2021 Q4	0.4U	0.4U				0.4U
	2022 Q2	0.4U	0.4U				
	2022 Q4	0.4U	0.4U		0.4U	0.4U	0.4U
	2023 Q2	0.4U	0.4U			0.4U	0.4U
	2023 Q4	0.4U	0.4U		0.4U	0.4U	0.4U
Malathion (Cythion), ug/L							
	1989 Q3		0.05U	0.05U			
MCCP, ug/L							
	1989 Q3		250U	250U			
Methoxychlor, ug/L							
	1989 Q3		0.08U	0.08U			
Methyl Iodide, ug/L							
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						1U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	1U	1U		1U	1U	1U
Methyl tert-Butyl Ether, ug/L							
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
Metribuzin (Lexone), ug/L							
	1989 Q3		0.07U	0.07U			
MevinpHos (pHosdrin), ug/L							
	1989 Q3		0.15U	0.15U			
NapHthalene, ug/L							
	1994 Q4	5U			5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	2.5U			5U	2.5U	2.5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						0.5U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2013 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q2.5					0.5U	
	2014 Q2.6					0.5U	
	2014 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.5U		0.5U	0.5U	0.5U
	2015 Q4		0.5U		0.5U	0.5U	0.5U
	2016 Q1	0.5U					

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qualified.

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parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
n-Butylbenzene, ug/L	2016 Q2		0.5U			0.5U	0.5U
	2016 Q4	0.5U	0.5U			0.5U	0.5U
	2017 Q2	0.5U	0.5U			0.5U	0.5U
	2017 Q4	0.5U	0.5U			0.5U	0.5U
	2018 Q2		0.5U			0.5U	0.5U
	2018 Q4	0.5U	0.5U				0.5U
	2019 Q2	0.5U	0.5U				0.5U
	2019 Q4	0.5U	0.5U				0.5U
	2020 Q2	0.5U	0.5U		0.5U		0.5U
	2020 Q4	0.5U	0.5U		0.5U		0.5U
	2021 Q2	0.5U	0.5U		0.5U		0.5U
	2021 Q4	0.5U	0.5U				0.5U
	2022 Q2	0.5U	0.5U				
	2022 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
	2023 Q2	0.5U	0.5U			0.5U	0.5U
	2023 Q4	0.5U	0.5U		0.5U	0.5U	0.5U
n-Butylbenzene, ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
n-Propylbenzene, ug/L	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match
parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
o-Xylene, ug/L	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value, parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Ronnel (FenchlorpHos), ug/L							
	1989 Q3		0.11U	0.11U			
sec-Butylbenzene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Silvex (2,4,5-TP), ug/L							
	1989 Q3		0.2U	0.2U			
Styrene, ug/L							
	1989 Q3		0.5U	0.5U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Systox (Demeton), ug/L							
	1989 Q3		0.2U	0.2U			
tert-Butylbenzene, ug/L							
	1994 Q4	1U			1U	1U	1U
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Tetrachloroethene (PCE), ug/L							
	1989 Q3		0.6U	0.6U			
	1989 Q4	12					

* CONF = Confluent growth on all dilutions, no coliforms.
qualified.

** Indicates detected in the trip blank but not

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1990 Q1	46					
	1990 Q2	26					
	1991 Q1	27					
	1991 Q2	31					
	1991 Q3	31					
	1991 Q4	31					
	1992 Q1	26					
	1992 Q2	40					
	1992 Q4	30					
	1993 Q1	15					
	1993 Q2	18					
	1993 Q3	11					
	1993 Q4	27	1U	1U	1U	1U	1U
	1994 Q1	17			1.9	1U	1U
	1994 Q2	12			3.8	1U	26
	1994 Q3					1U	1U
	1994 Q4	30			2.4	1U	1U
	1995 Q1	21E			3.7	0.2U	0.2U
	1995 Q2	9.2			4.5	1U	
	1995 Q3					1U	1U
	1995 Q4	16	1U	1U	3.8	1U	1U
	1996 Q1	9.8			4.6	1U	1U
	1996 Q2	9.9	1U	1U	6.9	1U	1U
	1996 Q3					1U	1U
	1996 Q4	10			5.8	1U	1U
	1997 Q1	6.4			5.2	1U	1U
	1997 Q2	5.1	1U	1U	5.4	1U	1U
	1997 Q3	7.1			8	1U	1U
	1997 Q4	3.5			8.6	1U	1U
	1998 Q1	5.3			7.2	1U	1U
	1998 Q2	5.4	1U	1U	7.2	1U	1U
	1998 Q4	20			8.8	1U	1U
	1999 Q2	350	1U	1U	9.4	1U	1U
	1999Q4.3	3.7			9.3	1U	1U
	2000 Q2.3	6			6.8	1U	1U
	2000 Q4.3	7.5			8.6	1U	1U
	2001 Q2	8.7			6.1	1U	1U
	2001 Q4	12			6.9	1U	1U
	2002 Q2	9.7	1U	1U	6.5	1U	1U
	2002 Q4	11	1U	1U	5.8	1U	1U
	2003 Q2		1U	1U	9.1	1U	1U
	2003 Q4		1U	1U	7.4	1U	1U
	2004 Q2	14	1U	1U	7.6	1U	1U
	2004 Q4	14	1U	1U	6.1	1U	1U
	2005 Q2	14	1U	1U	7.5	1U	1U
	2005 Q4	7.1	1U	1U	6.1	1U	1U
	2006 Q2		1U		11	1U	1U
	2006 Q4	6	1U				1U
	2007 Q2		1U		7.6	1U	1U
	2007 Q4	5	1U		7.8	1U	1U
	2008 Q2	7.4	1U		7.2	1U	1U
	2008 Q4	6.4	1U		8.5	1U	1U
	2009 Q2	5.8	1U		9		1
	2009 Q3						1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Toluene, ug/L	2009 Q4	5	1U		7.2	1U	1U
	2010 Q2	9.2	1U		9.2	1U	1.5
	2010 Q4	9.6	1U		7.2	1U	1.2
	2010-Q2.5						1.5
	2011 Q2	12	1U		7.9	1U	12
	2011 Q4	12	1U		7.1	1U	2.2
	2012 Q2	12	0.2U		8.6	0.2U	3.4
	2012 Q4	13	1U		6.4	1U	3
	2013 Q2	12	0.2U		8.2	0.2U	3.4
	2013 Q4	11	0.2U		7.8	0.2U	3
	2014 Q2	13	0.2U		8.2	0.2U	3.2
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	14	0.2U		6.7	0.2U	3
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		9.2	0.2U	4
	2015 Q4		0.2U		7.5	0.2U	3
	2016 Q1	8.6					
	2016 Q2		0.2U			0.2U	3.2
	2016 Q4	7.27	0.2U			0.2U	1.64
	2017 Q2	8.49	0.2U			0.2U	2.69
	2017 Q4	11.1	0.2U			0.2U	2.57
	2018 Q2		0.2U			0.2U	2.84
	2018 Q4	12.8	0.2U				3.57
	2019 Q2	12.7	0.2U				2.7
	2019 Q4	11.8	0.2U				3.83
	2020 Q2	10.9	0.2U		5.93		2.63
	2020 Q4	14.2	0.2U		1.8		2.43
	2021 Q2	17	0.2U		1.16		3.11
	2021 Q4	14.1	0.2U				1.73
	2022 Q2	12	0.2U				
	2022 Q4	11.3	0.2U		2.34	0.2U	0.97
	2023 Q2	8.65	0.2U			0.2U	0.49
	2023 Q4	4.46	0.2U		3.83	0.2U	1.33
	1989 Q3		0.6U	0.6U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

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M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Total Xylenes, ug/L	1989 Q3		1.5U	1.5U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	2U					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	2016 Q4	0.6U	0.6U			0.6U	0.6U
	2017 Q2	0.6U	0.6U			0.6U	0.6U
	2017 Q4	0.6U	0.6U			0.6U	0.6U
	2018 Q2		0.6U			0.6U	0.6U
	2018 Q4	0.6U	0.6U				0.6U
	2019 Q2	0.6U	0.6U				0.6U
	2019 Q4	0.6U	0.6U				0.6U
	2020 Q2	0.6U	0.6U		0.6U		0.6U
	2020 Q4	0.6U	0.6U		0.6U		0.6U
	2021 Q2	0.6U	0.6U		0.6U		0.6U
	2021 Q4	0.6U	0.6U				0.6U
	2022 Q2	0.6U	0.6U				
	2022 Q4	0.6U	0.6U		0.6U	0.6U	0.6U
	2023 Q2	0.6U	0.6U			0.6U	0.6U

* CONF = Confluent growth on all dilutions, no coliforms.
J - Estimated value.

** Indicates detected in the trip blank but not

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Toxaphene, ug/L	2023 Q4	0.6U	0.6U		0.6U	0.6U	0.6U
	1989 Q3		0.5U	0.5U			
trans-1,2-Dichloroethene, ug/L	1989 Q3		1.1U	1.1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	1U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
trans-1,3-Dichloropropene, ug/L							
	1989 Q3		0.5U	0.5U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1U					
	1991 Q4	1U					
	1992 Q1	1U					
	1992 Q2	1U					

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q2	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1U
	1994 Q3					1U	1U
	1994 Q4	1U			1U	1U	1U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene, ug/L							
	1994 Q4	5U			5U	5U	5U
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	5U			5U	5U	5U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						1U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	1U	1U		1U	1U	1U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	1U	1U		1U	1U	1U
	2013 Q4	1U	1U		1U	1U	1U
	2014 Q2	1U	1U		1U	1U	1U
	2014 Q2.5					1U	
	2014 Q2.6					1U	
	2014 Q4	1U	1U		1U	1U	1U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		1U		1U	1U	1U
	2015 Q4		1U		1U	1U	1U
	2016 Q1	1U					
	2016 Q2		1U			1U	1U
	2016 Q4	1U	1U			1U	1U
	2017 Q2	1U	1U			1U	1U
	2017 Q4	1U	1U			1U	1U
	2018 Q2		1U			1U	1U
	2018 Q4	1U	1U				1U
	2019 Q2	1U	1U				1U
	2019 Q4	1U	1U				1U
	2020 Q2	1U	1U		1U		1U
	2020 Q4	1U	1U		1U		1U
	2021 Q2	1U	1U		1U		1U
	2021 Q4	1U	1U				1U
	2022 Q2	1U	1U				
	2022 Q4	1U	1U		1U	1U	1U
	2023 Q2	1U	1U			1U	1U
	2023 Q4	1U	1U		1U	1U	1U
Trichloroethene (TCE), ug/L							
	1989 Q3		0.8U	0.8U			
	1989 Q4	0.3M					
	1990 Q1	1.4					
	1990 Q2	0.9J					
	1991 Q1	1.2M					
	1991 Q2	1.1					

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

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parameters.

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M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1991 Q3	0.8J					
	1991 Q4	0.8J					
	1992 Q1	1U					
	1992 Q2	1.4					
	1992 Q4	1.2					
	1993 Q1	1U					
	1993 Q2	1.1					
	1993 Q3	1U					
	1993 Q4	1.6	1U	1U	1U	1U	1U
	1994 Q1	1U			1U	1U	1U
	1994 Q2	1U			1U	1U	1.1
	1994 Q3					1U	1U
	1994 Q4	1.5			1U	1U	1U
	1995 Q1	0.4			0.2U	0.2U	0.2U
	1995 Q2	1U			1U	1U	
	1995 Q3					1U	1U
	1995 Q4	1U	1U	1U	1U	1U	1U
	1996 Q1	1U			1U	1U	1U
	1996 Q2	1U	1U	1U	1U	1U	1U
	1996 Q3					1U	1U
	1996 Q4	1U			1U	1U	1U
	1997 Q1	1U			1U	1U	1U
	1997 Q2	1U	1U	1U	1U	1U	1U
	1997 Q3	1U			1U	1U	1U
	1997 Q4	1U			1U	1U	1U
	1998 Q1	1U			1U	1U	1U
	1998 Q2	1U	1U	1U	1U	1U	1U
	1998 Q4	1U			1U	1U	1U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.4	0.2U		0.4	0.2U	0.2
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.49	0.2U		0.41	0.2U	0.27
	2013 Q4	0.47	0.2U		0.38	0.2U	0.24
	2014 Q2	0.6	0.2U		0.45	0.2U	0.3
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.7	0.2U		0.61	0.2U	0.22
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.44	0.2U	0.29
	2015 Q4		0.2U		0.73	0.2U	0.2
	2016 Q1	0.45					
	2016 Q2		0.2U			0.2U	0.25
	2016 Q4	0.3	0.2U			0.2U	0.2U
	2017 Q2	0.45	0.2U			0.2U	0.2U
	2017 Q4	0.58	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.21
	2018 Q4	0.61	0.2U				0.22
	2019 Q2	0.62	0.2U				0.24
	2019 Q4	0.67	0.2U				0.28
	2020 Q2	0.75	0.2U		0.59		0.2U
	2020 Q4	0.9	0.2U		0.46		0.2U
	2021 Q2	0.89	0.2U		0.2U		0.23
	2021 Q4	0.72	0.2U				0.2U
	2022 Q2	0.66	0.2U				
	2022 Q4	0.59	0.2U		0.67	0.2U	0.2U
	2023 Q2	0.53	0.2U			0.2U	0.2U
	2023 Q4	0.31	0.2U		0.82	0.2U	0.2U
Trichlorofluoromethane (CFC 11), ug/L							
	1989 Q3		1U	1U			
	1989 Q4	1U					
	1990 Q1	1.2					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1J					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	2.1			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	

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parameters.

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M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.5	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.73	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.45	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.79	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.35					

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.29	0.2U			0.2U	0.2U
	2017 Q2	0.21	0.2U			0.2U	0.2U
	2017 Q4	0.4	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.27	0.2U				0.2U
	2019 Q2	0.32	0.2U				0.2U
	2019 Q4	0.29	0.2U				0.2U
	2020 Q2	0.24	0.2U		0.2U		0.2U
	2020 Q4	0.37Q	0.2U		0.2U		0.2U
	2021 Q2	0.35	0.2U		0.2U		0.2U
	2021 Q4	0.29	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.24	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
Vinyl Acetate, ug/L							
	1989 Q3		1.7U	1.7U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	2U					
	1991 Q2	1U					
	1991 Q3	1U					
	1992 Q2	1U					
	1992 Q4	1U					
	1993 Q1	1U					
	1993 Q3	1U					
	1993 Q4	1U	1U	1U	1U	1U	1U
	1994 Q1	5U			5U	5U	5U
	1994 Q2	5U			5U	5U	5U
	1994 Q3					5U	5U
	1994 Q4	5U			5U	5U	5U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	5U			5U	5U	
	1995 Q3					5U	5U
	1995 Q4	5U	5U	5U	5U	5U	5U
	1996 Q1	5U			5U	5U	5U
	1996 Q2	5U	5U	5U	5U	5U	5U
	1996 Q3					5U	5U
	1996 Q4	5U			5U	5U	5U
	1997 Q1	5U			5U	5U	5U
	1997 Q2	5U	5U	5U	5U	5U	5U
	1997 Q3	5U			5U	5U	5U
	1997 Q4	5U			5U	5U	5U
	1998 Q1	1U			5U	1U	1U
	1998 Q2	5U	5U	5U	5U	5U	5U
	1998 Q4	5U			5U	5U	5U
	1999 Q2	150U	5U	5U	5U	5U	5U
	1999Q4.3	5U			5U	5U	5U
	2000 Q2.3	5U			5U	5U	5U
	2000 Q4.3	5U			5U	5U	5U
	2001 Q2	5U			5U	5U	5U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

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parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2001 Q4	5U			5U	5U	5U
	2002 Q2	5U	5U	5U	5U	5U	5U
	2002 Q4	5U	5U	5U	5U	5U	5U
	2003 Q2		5U	5U	5U	5U	5U
	2003 Q4		5U	5U	5U	5U	5U
	2004 Q2	5U	5U	5U	5U	5U	5U
	2004 Q4	5U	5U	5U	5U	5U	5U
	2005 Q2	5U	5U	5U	5U	5U	5U
	2005 Q4	5U	5U	5U	5U	5U	5U
	2006 Q2		5U		5U	5U	5U
	2006 Q4	5U	5U				5U
	2007 Q2		5U		5U	5U	5U
	2007 Q4	5U	5U		5U	5U	5U
	2008 Q2	5U	5U		5U	5U	5U
	2008 Q4	5U	5U		5U	5U	5U
	2009 Q2	5U	5U		5U		5U
	2009 Q3						5U
	2009 Q4	5U	5U		5U	5U	5U
	2010 Q2	5U	5U		5U	5U	5U
	2010 Q4	5U	5U		5U	5U	5U
	2010-Q2.5						1U
	2011 Q2	5U	5U		5U	5U	5U
	2011 Q4	5U	5U		5U	5U	5U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	5U	5U		5U	5U	5U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

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Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
Vinyl Chloride, ug/L	1989 Q3		1.1U	1.1U			
	1989 Q4	1U					
	1990 Q1	1U					
	1990 Q2	1U					
	1991 Q1	3U					
	1991 Q2	3U					
	1991 Q3	2U					
	1991 Q4	2U					
	1992 Q1	2U					
	1992 Q2	2U					
	1992 Q4	2U					
	1993 Q1	2U					
	1993 Q2	2U					
	1993 Q3	2U					
	1993 Q4	2U	2U	2U	2U	2U	2U
	1994 Q1	2U			2U	2U	2U
	1994 Q2	2U			2U	2U	2U
	1994 Q3					2U	2U
	1994 Q4	2U			2U	2U	2U
	1995 Q1	0.2U			0.2U	0.2U	0.2U
	1995 Q2	2U			2U	2U	
	1995 Q3					2U	2U
	1995 Q4	2U	2U	2U	2U	2U	2U
	1996 Q1	2U			2U	2U	2U
	1996 Q2	2U	2U	2U	2U	2U	2U
	1996 Q3					2U	2U
	1996 Q4	2U			2U	2U	2U
	1997 Q1	2U			2U	2U	2U
	1997 Q2	2U	2U	2U	2U	2U	2U
	1997 Q3	2U			2U	2U	2U
	1997 Q4	2U			2U	2U	2U
	1998 Q1	1U			2U	1U	1U
	1998 Q2	2U	2U	2U	2U	2U	2U
	1998 Q4	2U			2U	2U	2U
	1999 Q2	29U	1U	1U	1U	1U	1U
	1999Q4.3	1U			1U	1U	1U
	2000 Q2.3	1U			1U	1U	1U
	2000 Q4.3	1U			1U	1U	1U
	2001 Q2	1U			1U	1U	1U
	2001 Q4	1U			1U	1U	1U
	2002 Q2	1U	1U	1U	1U	1U	1U
	2002 Q4	1U	1U	1U	1U	1U	1U
	2003 Q2		1U	1U	1U	1U	1U
	2003 Q4		1U	1U	1U	1U	1U
	2004 Q2	1U	1U	1U	1U	1U	1U
	2004 Q4	1U	1U	1U	1U	1U	1U
	2005 Q2	1U	1U	1U	1U	1U	1U
	2005 Q4	1U	1U	1U	1U	1U	1U
	2006 Q2		1U		1U	1U	1U
	2006 Q4	1U	1U				1U
	2007 Q2		1U		1U	1U	1U
	2007 Q4	1U	1U		1U	1U	1U

* CONF = Confluent growth on all dilutions, no coliforms qualified.

** Indicates detected in the trip blank but not

J - Estimated value.
parameters.

B - Compound found in blank.

M - Estimated value - low spectral match

Appendix D. Groundwater Monitoring Data, Snipes Mountain Landfill

Constituent	Event	SMW-1	SMW-2	SMW-3	SMW-4	SMW-5d	SMW-5s
	2008 Q2	1U	1U		1U	1U	1U
	2008 Q4	1U	1U		1U	1U	1U
	2009 Q2	1U	1U		1U		1U
	2009 Q3						1U
	2009 Q4	1U	1U		1U	1U	1U
	2010 Q2	1U	1U		1U	1U	1U
	2010 Q4	1U	1U		1U	1U	1U
	2010-Q2.5						0.2U
	2011 Q2	1U	1U		1U	1U	1U
	2011 Q4	1U	1U		1U	1U	1U
	2012 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2012 Q4	1U	1U		1U	1U	1U
	2013 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2013 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q2.5					0.2U	
	2014 Q2.6					0.2U	
	2014 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2014 Q4.1						
	2014 Q4.2						
	2015 Q2		0.2U		0.2U	0.2U	0.2U
	2015 Q4		0.2U		0.2U	0.2U	0.2U
	2016 Q1	0.2U					
	2016 Q2		0.2U			0.2U	0.2U
	2016 Q4	0.2U	0.2U			0.2U	0.2U
	2017 Q2	0.2U	0.2U			0.2U	0.2U
	2017 Q4	0.2U	0.2U			0.2U	0.2U
	2018 Q2		0.2U			0.2U	0.2U
	2018 Q4	0.2U	0.2U				0.2U
	2019 Q2	0.2U	0.2U				0.2U
	2019 Q4	0.2U	0.2U				0.2U
	2020 Q2	0.2U	0.2U		0.2U		0.2U
	2020 Q4	0.2U	0.2U		0.2U		0.2U
	2021 Q2	0.2U	0.2U		0.2U		0.2U
	2021 Q4	0.2U	0.2U				0.2U
	2022 Q2	0.2U	0.2U				
	2022 Q4	0.2U	0.2U		0.2U	0.2U	0.2U
	2023 Q2	0.2U	0.2U			0.2U	0.2U
	2023 Q4	0.2U	0.2U		0.2U	0.2U	0.2U

* CONF = Confluent growth on all dilutions, no coliforms. ** Indicates detected in the trip blank but not qualified.

J - Estimated value. B - Compound found in blank. M - Estimated value - low spectral match parameters.

Appendix E. Historical Landfill Gas Data Tables

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
Flare		6/21/2004	36.1	30.9	0
Flare		6/17/2005	29.1	26.8	0
Flare		12/9/2003	16.9	20.1	3.6
Flare		9/27/2005	0	0	20
Flare		9/13/2004	44.3	34.9	0
Flare		10/1/2003	26.6	25.2	2.9
Flare		1/12/2006	10.3	15.7	6.4
Flare		9/19/2006	0	0	20.9
Flare		7/18/2003	25.5	27	0.5
Flare		12/14/2006	19.1	25.3	0.4
Flare		3/13/2003	0	0	21.1
Flare		4/5/2004	31.7	28.4	0
Flare	2007 Q1	3/26/2007	23.7	27.7	0
Flare	2007 Q2	6/25/2007	20.6	22.8	3.7
Flare	2007 Q3	9/24/2007	14.9	18.2	4.5
Flare	2007 Q4	12/10/2007	0	0.1	20.3
Flare	2008 Q1	3/12/2008	27.7	29.6	0
Flare	2008 Q2	6/24/2008	24.3	26.2	1.2
Flare	2008 Q3	9/16/2008	26.3	28	0
Flare	2008 Q4	12/30/2008	0.1	0.9	17.9
Flare	2009 Q1	3/30/2009	2.3	5.3	11.9
Flare	2009 Q2	6/16/2009	6.8	16.2	4.5
Flare	2009 Q3	9/16/2009	3.3	13.2	3.2
Flare	2009 Q4	12/3/2009	0.8	1.7	16
Flare	2010 Q1	3/24/2010	5.3	19.7	0.5
Flare	2010 Q2	6/2/2010	0.5	11.1	8.2
Flare	2010 Q3	9/30/2010	30.1	26.8	0.2
Flare	2010 Q4	12/8/2010	28.3	28.5	0
Flare	2011 Q1	3/21/2011	36.1	30.4	0
Flare	2011 Q2	6/24/2011	22.4	22.4	1.5
Flare	2011 Q3	9/20/2011	17.4	19.6	2.4
Flare	2011 Q4	12/12/2011	0.2	0.5	19.3
Flare	2012 Q1	3/27/2012	0.3	13.9	4.7
Flare	2012 Q3	9/26/2012	16	17.2	5.5
Flare	2012 Q4	12/4/2012	6.5	18	3.2
Flare	2013 Q1	3/27/2013	23.7	26.3	0.5
Flare	2013 Q3	9/25/2013	18.8	23.9	0.8
Flare	2013 Q4	12/2/2013	16.1	19.4	6.4
Flare	2014 Q1	3/26/2014	18.6	27.3	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
Flare	2014 Q2	6/16/2014	27.2	28.6	0.4
Flare	2014 Q4	12/1/2014	0	0.2	20.8
Flare	2015 Q1	3/5/2015	8.4	14.8	6.4
Flare	2015 Q2	6/23/2015	13.2	18.3	3.6
Flare	2015 Q3	9/11/2015	16.6	19.8	2.7
Flare	2015 Q4	11/30/2015	0	0.4	1.6
Flare	2016 Q1	3/30/2016	19.9	24.4	0.9
Flare	2016 Q2	6/14/2016	13.8	17	7.2
Flare	2016 Q3	9/7/2016	9.8	15.3	5.2
Flare	2016 Q4	12/13/2016	0.2	0.7	18.8
Flare	2017 Q1	3/7/2017	3.3	7.9	10.7
Flare	2017 Q2	6/5/2017	3	11.3	7.3
Flare	2017 Q3	9/15/2017	0	0	18.7
Flare	2018 Q1	3/27/2018	1.3	8.9	7.4
Flare	2018 Q2	6/25/2018	16.1	15.6	7.4
Flare	2018 Q3	9/17/2018	15.7	20.2	2.7
Flare	2018 Q4	12/10/2018	0.4	0.4	19.7
Flare	2019 Q2	6/11/2019	9.3	16.8	2.6
Flare	2019 Q3	9/2/2019	6.7	14.7	5.4
Flare	2019 Q4	12/10/2019	0.8	10.1	6.5
Flare	2020 Q1	3/12/2020	3.8	11.7	7.5
Flare	2020 Q2	6/8/2020	0.1	14.3	7.6
Flare	2020 Q3	9/9/2020	7.9	20.8	0.1
Flare	2020 Q4	12/28/2020	1	11	6.9
Flare	2021 Q1	3/18/2021	0.4	0.7	20.7
Flare	2021 Q2	6/2/2021	11.3	22.5	0
Flare	2021 Q3	9/7/2021	4.8	16.8	2.2
Flare	2021 Q4	12/7/2021	3.7	22.2	0
Flare	2022 Q1	3/29/2022	4.9	17	4.5
Flare	2022 Q2	6/20/2022	0	16.5	4.5
Flare	2022 Q3	8/15/2022	8.4	23.8	0
Flare	2022 Q4	1/10/2023	0.5	0.1	20.9
Flare	2023 Q1	3/1/2023	0	0	20.6
Flare	2023 Q2	5/22/2023	4.1	7.2	14
Flare	2023 Q3	8/29/2023	11.4	14.1	8
Flare	2023 Q4	12/5/2023	0	0.1	21.2
Flare	2024 Q1	2/22/2024	0	0.1	21.8
Flare	2024 Q2	6/11/2024	0	0.1	20.9
GP-1D		3/13/2003	0	18.8	4.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-1D		4/5/2004	0	16.9	4.9
GP-1D		6/21/2004	0	16.3	1.2
GP-1D		9/13/2004	0	15.7	6.3
GP-1D		12/16/2004	0	0.1	19.1
GP-1D		6/17/2005	0	13.6	7.2
GP-1D		12/14/2006	0	12.3	7.7
GP-1D		1/12/2006	0	17	6.5
GP-1D		12/9/2003	0	17.7	6.5
GP-1D		9/19/2006	0.1	14.2	8.7
GP-1D		9/27/2005	0	15.7	8.6
GP-1D		10/1/2003	0	16.8	6
GP-1D		7/18/2003	0	9.2	
GP-1D	2007 Q1	3/26/2007	0	17.3	6
GP-1D	2007 Q2	6/25/2007	0.1	13	9.6
GP-1D	2007 Q3	9/24/2007	0.1	13.9	8.8
GP-1D	2007 Q4	12/10/2007	0	14.9	8.4
GP-1D	2008 Q1	3/12/2008	0.1	15.4	6.9
GP-1D	2008 Q2	6/24/2008	0	13.5	8.3
GP-1D	2008 Q3	9/16/2008	0.1	14.2	8.2
GP-1D	2008 Q4	12/30/2008	0	14.9	7.9
GP-1D	2009 Q1	3/30/2009	0	14.3	7.5
GP-1D	2009 Q2	6/16/2009	0	13.5	7.8
GP-1D	2009 Q3	9/16/2009	0	12.5	9
GP-1D	2009 Q4	12/3/2009	0.1	9.4	11.6
GP-1D	2010 Q1	3/24/2010	0	13.7	7.9
GP-1D	2010 Q2	6/2/2010	0.1	13.8	8.2
GP-1D	2010 Q3	9/30/2010	0	12	9.6
GP-1D	2010 Q4	12/8/2010	0.1	13.9	0
GP-1D	2011 Q1	3/21/2011	0.1	4.2	14.5
GP-1D	2011 Q2	6/24/2011	0	10.6	9.4
GP-1D	2011 Q3	9/20/2011	0	9.9	10.7
GP-1D	2011 Q4	12/12/2011	0.1	0.6	13.6
GP-1D	2012 Q1	3/27/2012	0	13.1	7.9
GP-1D	2012 Q2	6/12/2012	0	11.3	8.9
GP-1D	2012 Q3	9/26/2012	0	6.9	13.4
GP-1D	2012 Q4	12/4/2012	0.1	12.8	10.5
GP-1D	2013 Q1	3/27/2013	0	11.3	9.8
GP-1D	2013 Q2	6/11/2013	0	9.4	11.6
GP-1D	2013 Q3	9/25/2013	0	10.9	11.4

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-1D	2013 Q4	12/2/2013	0	12.4	10.7
GP-1D	2014 Q1	3/26/2014	0	14	9
GP-1D	2014 Q2	6/16/2014	0	10.4	11.4
GP-1D	2014 Q3	9/19/2014	0	8.9	13
GP-1D	2014 Q4	12/1/2014	0	9.4	13.1
GP-1D	2015 Q1	3/5/2015	0	10.3	11.1
GP-1D	2015 Q2	6/23/2015	0	9.2	12.1
GP-1D	2015 Q3	9/11/2015	0	9.1	11.7
GP-1D	2015 Q4	11/30/2015	0	8.8	12.9
GP-1D	2016 Q1	3/30/2016	0	9.9	11
GP-1D	2016 Q2	6/14/2016	0	9	11.6
GP-1D	2016 Q3	9/7/2016	0	9.2	11.5
GP-1D	2016 Q4	12/13/2016	0	0.2	18.4
GP-1D	2017 Q1	3/7/2017	0	10.5	10.6
GP-1D	2017 Q2	6/5/2017	0	9	10.7
GP-1D	2017 Q3	9/15/2017	0	0	18.6
GP-1D	2017 Q4	12/4/2017	0	0.1	17.7
GP-1D	2018 Q1	3/27/2018	0	10.4	9.5
GP-1D	2018 Q2	6/25/2018	0.1	0	21.2
GP-1D	2018 Q3	9/17/2018	0	9.5	12.7
GP-1D	2018 Q4	12/10/2018	0.3	12.6	10.5
GP-1D	2019 Q1	3/6/2019	0.3	12.7	10.2
GP-1D	2019 Q2	6/11/2019	0	8.9	12.1
GP-1D	2019 Q3	9/2/2019	0	9.3	11.8
GP-1D	2019 Q4	12/10/2019	0.2	10.4	11
GP-1D	2020 Q1	3/12/2020	0.1	11.3	10.5
GP-1D	2020 Q2	6/8/2020	0	8.8	12.8
GP-1D	2020 Q3	9/9/2020	0	10	11.5
GP-1D	2020 Q4	12/28/2020	0.4	12.2	11.7
GP-1D	2021 Q1	3/18/2021	0.1	0.2	20.2
GP-1D	2021 Q2	6/2/2021	0	10	10.5
GP-1D	2021 Q3	9/7/2021	0	9.4	11.2
GP-1D	2021 Q4	12/7/2021	0.4	12.5	9.1
GP-1D	2022 Q1	3/29/2022	0	0.2	18.3
GP-1D	2022 Q2	6/20/2022	0	0.7	18.1
GP-1D	2022 Q3	8/15/2022	0	10.2	10.3
GP-1D	2022 Q4	1/10/2023	0.3	9.6	13.6
GP-1D	2023 Q1	3/1/2023	0	7.3	14
GP-1D	2023 Q2	5/22/2023	0.6	7.9	13.8

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-1D	2023 Q3	8/29/2023	0	6.5	14.9
GP-1D	2023 Q4	12/5/2023	0	9.4	13.6
GP-1D	2024 Q1	2/22/2024	0	7.5	14.5
GP-1D	2024 Q2	6/11/2024	0	5.4	15.5
GP-1S		6/17/2005	0	3.7	14
GP-1S		9/27/2005	0	1.2	18.4
GP-1S		4/5/2004	0	4.5	15.8
GP-1S		9/13/2004	0	3	19.5
GP-1S		12/16/2004	0	0	20.1
GP-1S		6/21/2004	0	10.8	5.4
GP-1S		9/19/2006	0	0.5	20.2
GP-1S		1/12/2006	0	1.9	16.4
GP-1S		3/13/2003	0	2.5	18.5
GP-1S		12/9/2003	0	6.9	12.3
GP-1S		12/14/2006	0	7.5	13.5
GP-1S		10/1/2003	0	0.7	19.3
GP-1S		7/18/2003	0	4.5	12.1
GP-1S	2007 Q1	3/26/2007	0	9.3	10.8
GP-1S	2007 Q2	6/25/2007	0.1	0.3	19.6
GP-1S	2007 Q3	9/24/2007	0.1	2.3	16.7
GP-1S	2007 Q4	12/10/2007	0	0.9	18.9
GP-1S	2008 Q1	3/12/2008	0.2	9	10.6
GP-1S	2008 Q2	6/24/2008	0	4.5	14.5
GP-1S	2008 Q3	9/16/2008	0	7.8	11.7
GP-1S	2008 Q4	12/30/2008	0	0.5	18.2
GP-1S	2009 Q1	3/30/2009	0	1.4	15.9
GP-1S	2009 Q2	6/16/2009	0	5.5	13
GP-1S	2009 Q3	9/16/2009	0.1	3.9	14
GP-1S	2009 Q4	12/3/2009	0.1	3.3	15.5
GP-1S	2010 Q1	3/24/2010	0	7.5	11.9
GP-1S	2010 Q2	6/2/2010		8.1	12.1
GP-1S	2010 Q3	9/30/2010	0	7.1	13.3
GP-1S	2010 Q4	12/8/2010	0	7.6	0
GP-1S	2011 Q1	3/21/2011	0.1	13.2	7.9
GP-1S	2011 Q2	6/24/2011	0	3.1	15.4
GP-1S	2011 Q3	9/20/2011	0	4.5	14.8
GP-1S	2011 Q4	12/12/2011	0	3.2	17.2
GP-1S	2012 Q1	3/27/2012	0	11.9	12
GP-1S	2012 Q2	6/12/2012	0	6.2	12.4

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-1S	2012 Q3	9/26/2012	0	1.1	18.1
GP-1S	2012 Q4	12/4/2012	0.1	6.1	14.4
GP-1S	2013 Q1	3/27/2013	0	5.5	14.2
GP-1S	2013 Q2	6/11/2013	0	0.4	19.7
GP-1S	2013 Q3	9/25/2013	0	6.5	14.4
GP-1S	2013 Q4	12/2/2013	0	4.9	15.8
GP-1S	2014 Q1	3/26/2014	0	9	11.6
GP-1S	2014 Q2	6/16/2014	0	5.7	14.8
GP-1S	2014 Q3	9/19/2014	0	1	18.6
GP-1S	2014 Q4	12/1/2014	0	3.6	16.2
GP-1S	2015 Q1	3/5/2015	0	3.1	16.2
GP-1S	2015 Q2	6/23/2015	0	3.2	16.3
GP-1S	2015 Q3	9/11/2015	0	5.3	14.3
GP-1S	2015 Q4	11/30/2015	0	7.2	13.1
GP-1S	2016 Q1	3/30/2016	0	4.3	14.5
GP-1S	2016 Q2	6/14/2016	0	5.8	13.4
GP-1S	2016 Q3	9/7/2016	0	4.1	14.8
GP-1S	2016 Q4	12/13/2016	0	1.5	17.4
GP-1S	2017 Q1	3/7/2017	0	1.1	16.1
GP-1S	2017 Q2	6/5/2017	0	2.5	15.4
GP-1S	2017 Q3	9/15/2017	0	2	17.5
GP-1S	2017 Q4	12/4/2017	0	0.6	17.6
GP-1S	2018 Q1	3/27/2018	0	4.5	13
GP-1S	2018 Q2	6/25/2018	0.1	0.8	20.4
GP-1S	2018 Q3	9/17/2018	0	4.6	16.5
GP-1S	2018 Q4	12/10/2018	0.3	6.8	14.4
GP-1S	2019 Q1	3/6/2019	0.2	7.9	13.1
GP-1S	2019 Q2	6/11/2019	0	4.1	16.4
GP-1S	2019 Q3	9/2/2019	0	4.2	16.2
GP-1S	2019 Q4	12/10/2019	0.2	5.3	14.3
GP-1S	2020 Q1	3/12/2020	0.1	4.5	15.5
GP-1S	2020 Q2	6/8/2020	0	1.6	19
GP-1S	2020 Q3	9/9/2020	0	6.2	14.8
GP-1S	2020 Q4	12/28/2020	0.4	5.6	14.4
GP-1S	2021 Q1	3/18/2021	0.1	5.9	15.1
GP-1S	2021 Q2	6/2/2021	0	5.9	14.1
GP-1S	2021 Q3	9/7/2021	0	5.5	13.9
GP-1S	2021 Q4	12/7/2021	0.4	7.7	12.3
GP-1S	2022 Q1	3/29/2022	0	2.1	16.5

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-1S	2022 Q2	6/20/2022	0	2.6	16.2
GP-1S	2022 Q3	8/15/2022	0	5.5	13.3
GP-1S	2022 Q4	1/10/2023	0.4	4.5	17.1
GP-1S	2023 Q1	3/1/2023	0	0.2	20.5
GP-1S	2023 Q2	5/22/2023	0.5	3	17.5
GP-1S	2023 Q3	8/29/2023	0	3.2	17.3
GP-1S	2023 Q4	12/5/2023	0	5.1	16.7
GP-1S	2024 Q1	2/22/2024	0	0.1	21.6
GP-1S	2024 Q2	6/11/2024	0	3.8	16.4
GP-2D		10/1/2003	0	0	19.5
GP-2D		12/14/2004	0	0	20.1
GP-2D		6/17/2005	0.3	0.2	16.1
GP-2D		6/21/2004	0	0	19.8
GP-2D		1/12/2006	0.1	0.3	20.1
GP-2D		9/27/2005	0.1	0.1	19.3
GP-2D		9/19/2006	0	0.2	20.4
GP-2D		12/13/2006	0	0.2	20.3
GP-2D		12/11/2003	0	0	18.8
GP-2D		9/13/2004	0	0	21.2
GP-2D		7/18/2003	0	0	14.9
GP-2D		3/13/2003	0	0	20.7
GP-2D		4/5/2004	0	0.3	20.4
GP-2D	2007 Q1	3/26/2007	0	0.2	20.1
GP-2D	2007 Q2	6/25/2007	0	8.6	11.5
GP-2D	2007 Q3	9/24/2007	0	0.2	19.6
GP-2D	2007 Q4	12/10/2007	0	0.3	20.1
GP-2D	2008 Q1	3/12/2008	0	0.2	19.3
GP-2D	2008 Q2	6/24/2008	0	0.2	19.1
GP-2D	2008 Q3	9/16/2008	0	0.1	18.7
GP-2D	2008 Q4	12/30/2008	0	0.2	19.2
GP-2D	2009 Q1	3/30/2009	0	0.2	18.6
GP-2D	2009 Q2	6/16/2009	0	0	18.7
GP-2D	2009 Q3	9/16/2009	0	0.2	18.3
GP-2D	2009 Q4	12/2/2009	0	0.4	18.1
GP-2D	2010 Q1	3/24/2010	0	0.1	19.9
GP-2D	2010 Q2	6/2/2010	0	0.1	20
GP-2D	2010 Q3	9/30/2010	0	0.1	19.7
GP-2D	2010 Q4	12/8/2010	0	0.3	0
GP-2D	2011 Q1	3/21/2011	0	0.2	19.4

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-2D	2011 Q2	6/24/2011	0	0.1	19
GP-2D	2011 Q3	9/20/2011	0	0	19.3
GP-2D	2011 Q4	12/12/2011	0	0.3	18.8
GP-2D	2012 Q1	3/27/2012	0	0.2	18.9
GP-2D	2012 Q2	6/12/2012	0	0	19.4
GP-2D	2012 Q3	9/26/2012	0	0.1	19
GP-2D	2012 Q4	12/4/2012	0	0.4	20.3
GP-2D	2013 Q1	3/27/2013	0	0.2	20.1
GP-2D	2013 Q2	6/11/2013	0	0	20.3
GP-2D	2013 Q3	9/25/2013	0	0.2	19.7
GP-2D	2013 Q4	12/2/2013	0	0.3	19.6
GP-2D	2014 Q1	3/26/2014	0	0.2	19.5
GP-2D	2014 Q2	6/16/2014	0	0.2	19.5
GP-2D	2014 Q3	9/19/2014	0	0	19.5
GP-2D	2014 Q4	12/1/2014	0	0.1	19.8
GP-2D	2015 Q1	3/5/2015	0	0.2	19.1
GP-2D	2015 Q2	6/23/2015	0	0.2	19.1
GP-2D	2015 Q3	9/11/2015	0	0.1	18.8
GP-2D	2015 Q4	11/30/2015	0	0.2	15.3
GP-2D	2016 Q1	3/30/2016	0	0.2	18.9
GP-2D	2016 Q2	6/14/2016	0	0.2	18.7
GP-2D	2016 Q3	9/7/2016	0	0.2	18.4
GP-2D	2016 Q4	12/13/2016	0	0.3	18.3
GP-2D	2017 Q1	3/7/2017	0	0.2	18.2
GP-2D	2017 Q2	6/5/2017	0	0.1	18.3
GP-2D	2017 Q3	9/15/2017	0	0.2	18.1
GP-2D	2017 Q4	12/4/2017	0	0.1	17.7
GP-2D	2018 Q1	3/27/2018	0	0.2	17.2
GP-2D	2018 Q2	6/25/2018	0.1	0.2	20.5
GP-2D	2018 Q3	9/17/2018	0	0.2	20.9
GP-2D	2018 Q4	12/10/2018	0.3	0.4	19.4
GP-2D	2019 Q1	3/6/2019	0.3	0.5	19.6
GP-2D	2019 Q2	6/11/2019	0	0	21.3
GP-2D	2019 Q3	9/2/2019	0	0.1	20.7
GP-2D	2019 Q4	12/10/2019	0.2	0.3	19
GP-2D	2020 Q1	3/12/2020	0.1	0.3	19.5
GP-2D	2020 Q2	6/8/2020	0	0	20.6
GP-2D	2020 Q3	9/9/2020	0	0.2	20.1
GP-2D	2020 Q4	12/28/2020	0.4	0.5	18.5

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-2D	2021 Q1	3/18/2021	0	0.2	20.4
GP-2D	2021 Q2	6/2/2021	0	0.1	20
GP-2D	2021 Q3	9/7/2021	0	0.3	18.3
GP-2D	2021 Q4	12/7/2021	0.4	0.5	17.4
GP-2D	2022 Q1	3/29/2022	0.2	0.3	18.2
GP-2D	2022 Q2	6/20/2022	0	0.2	18.4
GP-2D	2022 Q3	8/15/2022	0	0.2	17.6
GP-2D	2022 Q4	1/10/2023	0.4	0.3	21.5
GP-2D	2023 Q1	3/1/2023	0	0.2	20.5
GP-2D	2023 Q2	5/22/2023	0.5	0.2	20.3
GP-2D	2023 Q3	8/29/2023	0	0.1	20.2
GP-2D	2023 Q4	12/5/2023	0	0.3	20.9
GP-2D	2024 Q1	2/22/2024	0	0.2	21.1
GP-2D	2024 Q2	6/11/2024	0	0.2	20.3
GP-2S		1/12/2006	0	0.2	20.1
GP-2S		9/19/2006	0	0.2	20.5
GP-2S		12/13/2006	0.1	0.2	20.3
GP-2S		7/18/2003	0	0	14.9
GP-2S		10/1/2003	0	0.1	19.6
GP-2S		6/17/2005	0.2	16.4	0.1
GP-2S		12/14/2004	0	0	20.2
GP-2S		9/27/2005	0	0	19.5
GP-2S		12/11/2003	0	0	18.9
GP-2S		4/5/2004	0	0.3	20.4
GP-2S		9/13/2004	0	0.1	21.2
GP-2S		6/21/2004	0	0	19.8
GP-2S		3/13/2003	0	0	20.8
GP-2S	2007 Q1	3/26/2007	0	0.2	20.2
GP-2S	2007 Q2	6/25/2007	0	2.7	18.5
GP-2S	2007 Q3	9/24/2007	0.1	0.2	19.7
GP-2S	2007 Q4	12/10/2007	0	0.2	19.9
GP-2S	2008 Q1	3/12/2008	0	0.2	19.2
GP-2S	2008 Q2	6/24/2008	0	0.1	19.1
GP-2S	2008 Q3	9/16/2008	0	0.2	18.6
GP-2S	2008 Q4	12/30/2008	0	0.2	19.1
GP-2S	2009 Q1	3/30/2009	0	0.2	18.2
GP-2S	2009 Q2	6/16/2009	0	0.1	18.5
GP-2S	2009 Q3	9/16/2009	0	0.2	18.6
GP-2S	2009 Q4	12/2/2009	0	0.3	18.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-2S	2010 Q1	3/24/2010	0	0.2	19.9
GP-2S	2010 Q2	6/2/2010	0.1	0.1	20
GP-2S	2010 Q3	9/30/2010	0	0.1	19.9
GP-2S	2010 Q4	12/8/2010	0.1	0.3	0
GP-2S	2011 Q1	3/21/2011	0	0.2	19.5
GP-2S	2011 Q2	6/24/2011	0	0.1	19.1
GP-2S	2011 Q3	9/20/2011	0	0.1	19.6
GP-2S	2011 Q4	12/12/2011	0	0.3	18.9
GP-2S	2012 Q1	3/27/2012	0	0.2	19
GP-2S	2012 Q2	6/12/2012	0	0	19.3
GP-2S	2012 Q3	9/26/2012	0	0.2	18.9
GP-2S	2012 Q4	12/4/2012	0	0.3	20.3
GP-2S	2013 Q1	3/27/2013	0	0.2	20.2
GP-2S	2013 Q2	6/11/2013	0	0.01	19.9
GP-2S	2013 Q3	9/25/2013	0	0.3	19.8
GP-2S	2013 Q4	12/2/2013	0	0.3	19.7
GP-2S	2014 Q1	3/26/2014	0	0.2	19.3
GP-2S	2014 Q2	6/16/2014	0	0.2	19.5
GP-2S	2014 Q3	9/19/2014	0	0.2	19.2
GP-2S	2014 Q4	12/1/2014	0	0.1	19.8
GP-2S	2015 Q1	3/5/2015	0	0.2	19.1
GP-2S	2015 Q2	6/23/2015	0	0.2	19.1
GP-2S	2015 Q3	9/11/2015	0	0.2	18.7
GP-2S	2015 Q4	11/30/2015	0	0.3	18.7
GP-2S	2016 Q1	3/30/2016	0	0.2	18.8
GP-2S	2016 Q2	6/14/2016	0	0.2	18.8
GP-2S	2016 Q3	9/7/2016	0	0.2	18.3
GP-2S	2016 Q4	12/13/2016	0	0.3	18.4
GP-2S	2017 Q1	3/7/2017	0	0.2	18.2
GP-2S	2017 Q2	6/5/2017	0	0.1	18.4
GP-2S	2017 Q3	9/15/2017	0	0.4	18.2
GP-2S	2017 Q4	12/4/2017	0	0.1	17.6
GP-2S	2018 Q1	3/27/2018	0	0.2	17.2
GP-2S	2018 Q2	6/25/2018	0.1	0.2	20.4
GP-2S	2018 Q3	9/17/2018	0	0.3	21
GP-2S	2018 Q4	12/10/2018	0.3	0.5	19.4
GP-2S	2019 Q1	3/6/2019	0.3	0.3	19.7
GP-2S	2019 Q2	6/11/2019	0	0	21.3
GP-2S	2019 Q3	9/2/2019	0	0.2	20.8

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-2S	2019 Q4	12/10/2019	0.2	0.3	19.2
GP-2S	2020 Q1	3/12/2020	0	0.3	19.7
GP-2S	2020 Q2	6/8/2020	0.1	0.2	20.3
GP-2S	2020 Q3	9/9/2020	0	0.2	20.3
GP-2S	2020 Q4	12/28/2020	0.4	0.5	18.7
GP-2S	2021 Q1	3/18/2021	0	0.4	19.9
GP-2S	2021 Q2	6/2/2021	0	0.1	19.5
GP-2S	2021 Q3	9/7/2021	0	0.1	18.8
GP-2S	2021 Q4	12/7/2021	0.4	0.4	17.8
GP-2S	2022 Q1	3/29/2022	0.1	0.2	18.4
GP-2S	2022 Q2	6/20/2022	0	0.2	18.5
GP-2S	2022 Q3	8/15/2022	0	0.3	17.3
GP-2S	2022 Q4	1/10/2023	0.5	0.3	21.7
GP-2S	2023 Q1	3/1/2023	0	0.2	20.8
GP-2S	2023 Q2	5/22/2023	0.5	0.2	20.3
GP-2S	2023 Q3	8/29/2023	0	0.2	20.1
GP-2S	2023 Q4	12/5/2023	0	0.2	21.1
GP-2S	2024 Q1	2/22/2024	0	0.2	21.1
GP-2S	2024 Q2	6/11/2024	0	0.2	20.3
GP-3D		9/19/2006	0	0	20.9
GP-3D		12/14/2006	0	17.3	6.3
GP-3D		12/9/2003	0	10.4	8.2
GP-3D		9/27/2005	0	0	19.9
GP-3D		1/12/2006	0	11.4	9
GP-3D		4/5/2004	0	10.5	8.5
GP-3D		12/16/2004	0	5.8	15
GP-3D		10/1/2003	0	9	11.1
GP-3D		7/18/2003	0	6	9.5
GP-3D		9/13/2004	0	11.5	6.7
GP-3D		3/13/2003	0	11	7.5
GP-3D		6/21/2004	0	11.7	2.8
GP-3D		6/17/2005	0	10.7	9.1
GP-3D	2007 Q1	3/26/2007	0	12.6	7.3
GP-3D	2007 Q2	6/25/2007	0	0.1	19.9
GP-3D	2007 Q3	9/24/2007	0	9.9	9.8
GP-3D	2007 Q4	12/10/2007	0	9.5	11
GP-3D	2008 Q1	3/12/2008	0	11.9	7.4
GP-3D	2008 Q2	6/24/2008	0	10.4	8.5
GP-3D	2008 Q3	9/16/2008	0.2	10.8	7.5

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-3D	2008 Q4	12/30/2008	0	0.2	19.2
GP-3D	2009 Q1	3/30/2009	0	8.6	10.2
GP-3D	2009 Q2	6/16/2009	0	10.2	8
GP-3D	2009 Q3	9/16/2009	0	9.7	9
GP-3D	2009 Q4	12/3/2009	0	8.2	11.1
GP-3D	2010 Q1	3/24/2010	0	11	8.4
GP-3D	2010 Q2	6/2/2010	0.1	10.7	7.9
GP-3D	2010 Q3	9/30/2010	0	10	8.5
GP-3D	2010 Q4	12/8/2010	0	11	0
GP-3D	2011 Q1	3/21/2011	0	10.5	8.4
GP-3D	2011 Q2	6/24/2011	0.1	8.5	9.2
GP-3D	2011 Q3	9/20/2011	0.1	8.3	9.8
GP-3D	2011 Q4	12/12/2011	0.1	0.1	19.4
GP-3D	2012 Q1	3/27/2012	0	10	8.5
GP-3D	2012 Q2	6/12/2012	0	4.3	13.4
GP-3D	2012 Q3	9/26/2012	0	7.7	10.9
GP-3D	2012 Q4	12/4/2012	0	7	13.6
GP-3D	2013 Q1	3/27/2013	0	9.7	9.6
GP-3D	2013 Q2	6/11/2013	0	0	20
GP-3D	2013 Q3	9/25/2013	0	7.7	11.2
GP-3D	2013 Q4	12/2/2013	0	0.3	19.6
GP-3D	2014 Q1	3/26/2014	0	11.9	7.9
GP-3D	2014 Q2	6/16/2014	0	0.1	19.9
GP-3D	2014 Q3	9/19/2014	0	0	19.4
GP-3D	2014 Q4	12/1/2014	0	10	10.6
GP-3D	2015 Q1	3/5/2015	0	8.6	11.1
GP-3D	2015 Q2	6/23/2015	0	8.2	10.3
GP-3D	2015 Q3	9/11/2015	0	8.7	9.8
GP-3D	2015 Q4	11/30/2015	0	11.4	19.3
GP-3D	2016 Q1	3/30/2016	0	9.4	9.4
GP-3D	2016 Q2	6/14/2016	0	0	19.3
GP-3D	2016 Q3	9/7/2016	0	8.7	9.7
GP-3D	2016 Q4	12/13/2016	0	0.2	18.5
GP-3D	2017 Q1	3/7/2017	0	10.1	9.2
GP-3D	2017 Q2	6/5/2017	0	9.4	8.7
GP-3D	2017 Q3	9/15/2017	0	0	18.7
GP-3D	2017 Q4	12/6/2017	0	0.1	17.7
GP-3D	2018 Q1	3/27/2018	0	10.3	7.9
GP-3D	2018 Q2	6/25/2018	0.1	0	20.6

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-3D	2018 Q3	9/17/2018	0.1	9.5	10
GP-3D	2018 Q4	12/10/2018	0.3	12.1	11.6
GP-3D	2019 Q1	3/6/2019	0.2	8.2	12.2
GP-3D	2019 Q2	6/11/2019	0.2	8.7	10.4
GP-3D	2019 Q3	9/2/2019	0	8.9	10.2
GP-3D	2019 Q4	12/10/2019	0.2	11.1	9.9
GP-3D	2020 Q1	3/12/2020	0.1	9.8	9.9
GP-3D	2020 Q2	6/8/2020	0.1	0.1	20.8
GP-3D	2020 Q3	9/9/2020	0.1	9.2	10.1
GP-3D	2020 Q4	12/28/2020	0.4	11.3	9.2
GP-3D	2021 Q1	3/18/2021	0.3	12.1	9.3
GP-3D	2021 Q2	6/2/2021	0	9.6	8.9
GP-3D	2021 Q3	9/7/2021	0	9.9	8.8
GP-3D	2021 Q4	12/7/2021	0.4	12.2	7.1
GP-3D	2022 Q1	3/29/2022	0	6.2	13
GP-3D	2022 Q2	6/20/2022	0	4.6	14.5
GP-3D	2022 Q3	8/15/2022	0	10.7	8.4
GP-3D	2022 Q4	1/10/2023	0.4	10.2	11.6
GP-3D	2023 Q1	3/1/2023	0	4.5	16.3
GP-3D	2023 Q2	5/22/2023	0.6	8.4	12.3
GP-3D	2023 Q3	8/29/2023	0	0	20.3
GP-3D	2023 Q4	12/6/2023	0	10.6	10.3
GP-3D	2024 Q1	2/22/2024	0	0.2	21.8
GP-3D	2024 Q2	6/11/2024	0	3.5	16.7
GP-3S		1/12/2006	0.1	5.8	14.6
GP-3S		12/9/2003	0	7.5	11.7
GP-3S		10/1/2003	0	4	17.1
GP-3S		3/13/2003	0	8.1	11.8
GP-3S		9/13/2004	0	7.2	13.5
GP-3S		12/14/2006	0	7.3	12.6
GP-3S		9/19/2006	0	0	20.9
GP-3S		9/27/2005	0	3.1	17.9
GP-3S		7/18/2003	0	6.7	9.8
GP-3S		4/5/2004	0	6.2	14.6
GP-3S		6/17/2005	0	7.2	11.9
GP-3S		6/21/2004	0	8.8	5.8
GP-3S		12/16/2004	0	2.1	19.4
GP-3S	2007 Q1	3/26/2007	0	9	10.6
GP-3S	2007 Q2	6/25/2007	0	0.1	20

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-3S	2007 Q3	9/24/2007	0	4.4	15.9
GP-3S	2007 Q4	12/10/2007	0	3	17.4
GP-3S	2008 Q1	3/12/2008	0	7.2	12.1
GP-3S	2008 Q2	6/24/2008	0	4.7	15
GP-3S	2008 Q3	9/16/2008	0.1	6.1	12.8
GP-3S	2008 Q4	12/30/2008	0	0.1	19.3
GP-3S	2009 Q1	3/30/2009	0	3.6	15.2
GP-3S	2009 Q2	6/16/2009	0	5.2	13.2
GP-3S	2009 Q3	9/16/2009	0	4.4	14.7
GP-3S	2009 Q4	12/3/2009	0	1.8	16.6
GP-3S	2010 Q1	3/24/2010	0	6.8	12.7
GP-3S	2010 Q2	6/2/2010	0	6.6	12.4
GP-3S	2010 Q3	9/30/2010	0	5.9	13.4
GP-3S	2010 Q4	12/8/2010	0.1	6.7	0
GP-3S	2011 Q1	3/21/2011	0	4.6	14.9
GP-3S	2011 Q2	6/24/2011	0	3.7	14.9
GP-3S	2011 Q3	9/20/2011	0.2	3.5	15.8
GP-3S	2011 Q4	12/12/2011	0.1	3	17.6
GP-3S	2012 Q1	3/27/2012	0	4.7	14.3
GP-3S	2012 Q2	6/12/2012	0	3.9	14.8
GP-3S	2012 Q3	9/26/2012	0	2.2	17.6
GP-3S	2012 Q4	12/4/2012	0	5.3	15.1
GP-3S	2013 Q1	3/27/2013	0	4.4	15.7
GP-3S	2013 Q2	6/11/2013	0	2.7	17.5
GP-3S	2013 Q3	9/25/2013	0	3.9	15.8
GP-3S	2013 Q4	12/2/2013	0.1	1.8	19.2
GP-3S	2014 Q1	3/26/2014	0	10.9	18.2
GP-3S	2014 Q2	6/16/2014	0.1	0.2	19.8
GP-3S	2014 Q3	9/19/2014	0	0.9	19
GP-3S	2014 Q4	12/1/2014	0	4.3	16.5
GP-3S	2015 Q1	3/5/2015	0	3.1	16.7
GP-3S	2015 Q2	6/23/2015	0	3.4	16.1
GP-3S	2015 Q3	9/11/2015	0	3.7	15.7
GP-3S	2015 Q4	11/30/2015	0	5.3	9.2
GP-3S	2016 Q1	3/30/2016	0	3.9	14.9
GP-3S	2016 Q2	6/14/2016	0	4.5	15.2
GP-3S	2016 Q3	9/7/2016	0	3.9	15.2
GP-3S	2016 Q4	12/13/2016	0	0.2	18.4
GP-3S	2017 Q1	3/7/2017	0	4.2	14.4

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GP-3S	2017 Q2	6/5/2017	0	4.9	13.4
GP-3S	2017 Q3	9/15/2017	0	0	18.7
GP-3S	2017 Q4	12/6/2017	0	0.1	17.8
GP-3S	2018 Q1	3/27/2018	0	5.8	11.9
GP-3S	2018 Q2	6/25/2018	0.1	0.1	20.2
GP-3S	2018 Q3	9/17/2018	0.1	5.6	15.5
GP-3S	2018 Q4	12/10/2018	0.3	4.5	18.7
GP-3S	2019 Q1	3/6/2019	0.1	8.6	11.7
GP-3S	2019 Q2	6/11/2019	0	5	15.4
GP-3S	2019 Q3	9/2/2019	0	5.1	15.4
GP-3S	2019 Q4	12/10/2019	0.2	4.7	15.2
GP-3S	2020 Q1	3/12/2020	0	4.8	15.3
GP-3S	2020 Q2	6/8/2020	0.1	0.1	21
GP-3S	2020 Q3	9/9/2020	0.1	5.9	13.8
GP-3S	2020 Q4	12/28/2020	0.4	5.4	14.5
GP-3S	2021 Q1	3/18/2021	0.3	7.5	14.7
GP-3S	2021 Q2	6/2/2021	0	12.6	6.4
GP-3S	2021 Q3	9/7/2021	0	5.1	13.8
GP-3S	2021 Q4	12/7/2021	0.4	7.9	10.1
GP-3S	2022 Q1	3/29/2022	0.2	3.3	16.4
GP-3S	2022 Q2	6/20/2022	0	3.5	16
GP-3S	2022 Q3	8/15/2022	0	5.8	13
GP-3S	2022 Q4	1/10/2023	0.3	5.2	16.7
GP-3S	2023 Q1	3/1/2023	0	2	19.4
GP-3S	2023 Q2	5/22/2023	0.6	3.3	18.2
GP-3S	2023 Q3	8/29/2023	0	0	20.2
GP-3S	2023 Q4	12/6/2023	0.1	7.8	13.3
GP-3S	2024 Q1	2/22/2024	0	0.1	22
GP-3S	2024 Q2	6/11/2024	0	3.5	17.8
GW-1		12/16/2004	0	0	20.4
GW-1		12/14/2006	1.6	15.6	4.6
GW-1		10/1/2003	28.2	26.7	2.7
GW-1		9/19/2006	0.1	0	20.9
GW-1		6/21/2004	19	25.5	0
GW-1		9/13/2004	35.5	32.8	0
GW-1		3/13/2003	0.8	1.2	20
GW-1		9/27/2005	0	0	19.8
GW-1		12/9/2003	1.1	10.3	7.6
GW-1		7/18/2003	2.3	14.4	4.4

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-1		4/5/2004	26	25	1.2
GW-1		6/17/2005	41.9	33.4	0
GW-1		1/12/2006	0.4	4.4	14.4
GW-1	2007 Q1	3/26/2007	2.4	17.4	3.4
GW-1	2007 Q2	6/25/2007	15.8	18.4	6.1
GW-1	2007 Q3	9/24/2007	2.4	7.8	10.9
GW-1	2007 Q4	12/10/2007	0.1	0.1	19.8
GW-1	2008 Q1	3/12/2008	2.7	19.7	0.1
GW-1	2008 Q2	6/24/2008	0.9	11.8	6.7
GW-1	2008 Q3	9/16/2008	1.6	19.1	0.7
GW-1	2008 Q4	12/30/2008	0	0.2	18.7
GW-1	2009 Q1	3/30/2009	0.1	2.8	14.8
GW-1	2009 Q2	6/16/2009	0.3	11.1	7
GW-1	2009 Q3	9/16/2009	0.1	9.5	6.8
GW-1	2009 Q4	12/3/2009	0.5	2.5	16
GW-1	2010 Q1	3/24/2010	1	17	1.8
GW-1	2010 Q2	6/2/2010	1.4	21	0.1
GW-1	2010 Q3	9/30/2010	1.4	19.2	0.7
GW-1	2010 Q4	12/8/2010	1.4	17.9	0
GW-1	2011 Q1	3/21/2011	34.8	30.2	0
GW-1	2011 Q2	6/24/2011	6.1	12.9	6.5
GW-1	2011 Q3	9/20/2011	0.6	8.3	8.8
GW-1	2011 Q4	12/12/2011	0.2	0.4	19.4
GW-1	2012 Q1	3/27/2012	0.4	14.1	4.8
GW-1	2012 Q2	6/12/2012	0.7	18.2	0.6
GW-1	2012 Q3	9/26/2012	15.7	16.9	5.6
GW-1	2012 Q4	12/4/2012	0.3	14.9	4.9
GW-1	2013 Q1	3/27/2013	12.3	17.8	5
GW-1	2013 Q2	6/11/2013	10.2	14.2	7.8
GW-1	2013 Q3	9/25/2013	11.6	18.9	3.6
GW-1	2013 Q4	12/2/2013	3.4	15.4	6.7
GW-1	2014 Q1	3/26/2014	1.5	22.5	0
GW-1	2014 Q2	6/16/2014	19.3	19.8	6.2
GW-1	2014 Q3	9/19/2014	4.1	7.4	12.5
GW-1	2014 Q4	12/1/2014	0.1	8.2	9.6
GW-1	2015 Q1	3/5/2015	2	5.9	13.5
GW-1	2015 Q2	6/23/2015	0.7	6.2	11.4
GW-1	2015 Q3	9/11/2015	0.3	9.8	8.3
GW-1	2015 Q4	11/30/2015	0.3	17.5	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-1	2016 Q1	3/30/2016	1	8.7	9.3
GW-1	2016 Q2	6/14/2016	0	18.9	1
GW-1	2016 Q3	9/7/2016	0.2	6.5	11.3
GW-1	2016 Q4	12/13/2016	0	0.2	18.7
GW-1	2017 Q1	3/7/2017	0	3.4	14.6
GW-1	2017 Q2	6/5/2017	0	7.4	10.3
GW-1	2017 Q3	9/15/2017	0	0.1	18.5
GW-1	2018 Q1	3/27/2018	0	7.6	8.3
GW-1	2018 Q2	6/25/2018	15.5	14.3	8.7
GW-1	2018 Q3	9/17/2018	0.6	11.9	7.6
GW-1	2018 Q4	12/10/2018	0.5	14.8	4.7
GW-1	2019 Q1	3/6/2019	2.1	23.7	0.2
GW-1	2019 Q2	6/11/2019	0.2	10.2	7.5
GW-1	2019 Q3	9/2/2019	0	11.2	7.6
GW-1	2019 Q4	12/10/2019	0.3	8.6	10
GW-1	2020 Q1	3/12/2020	0.1	7.7	10.9
GW-1	2020 Q2	6/8/2020	0.1	15	7.2
GW-1	2020 Q3	9/9/2020	0.2	17.4	1.1
GW-1	2020 Q4	12/28/2020	0.4	9.6	8.7
GW-1	2021 Q1	3/18/2021	0.4	16.1	5.9
GW-1	2021 Q2	6/2/2021	0.6	19.7	0
GW-1	2021 Q3	9/7/2021	0	11.4	6.2
GW-1	2021 Q4	12/7/2021	0.5	20.7	0
GW-1	2022 Q1	3/29/2022	0	4.9	13.2
GW-1	2022 Q2	6/20/2022	0	4.9	13.2
GW-1	2022 Q3	8/15/2022	0	15.9	2.8
GW-1	2022 Q4	1/10/2023	0.4	12.7	7.4
GW-1	2023 Q1	3/1/2023	0	0	20.5
GW-1	2023 Q2	5/22/2023	0.7	12.8	6.6
GW-1	2023 Q3	8/29/2023	3.4	6.1	14.8
GW-1	2023 Q4	12/6/2023	0.1	18.7	1.2
GW-1	2024 Q1	2/21/2024	0.1	0.1	21.2
GW-1	2024 Q2	6/11/2024	0	0	21
GW-10		10/1/2003	18.7	17.9	6.9
GW-10		1/12/2006	15.6	24	0.8
GW-10		4/5/2004	39.2	33.1	0.1
GW-10		7/18/2003	38.3	34.5	0.3
GW-10		12/14/2006	47.7	36.2	0
GW-10		12/9/2003	35.9	32.1	0.6

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-10		9/19/2006	38.9	31.3	1.1
GW-10		6/21/2004	52.3	39.2	0
GW-10		9/27/2005	36.3	34.9	1.8
GW-10		9/13/2004	58.1	40.5	0
GW-10		3/13/2003	18.4	19.2	7
GW-10		12/16/2004	0	0	20.4
GW-10		6/17/2005	54.7	40.3	0
GW-10	2007 Q1	3/26/2007	47.7	36.1	0
GW-10	2007 Q2	6/25/2007	30	27.7	0.6
GW-10	2007 Q3	9/24/2007	26.8	28.2	0
GW-10	2007 Q4	12/10/2007	21.4	22.3	5.1
GW-10	2008 Q1	3/12/2008	50.3	37.1	0
GW-10	2008 Q2	6/24/2008	36.1	33.7	0
GW-10	2008 Q3	9/16/2008	44.9	35.9	0
GW-10	2008 Q4	12/30/2008	0	0.1	19.2
GW-10	2009 Q1	3/30/2009	2.7	14.5	0.8
GW-10	2009 Q2	6/16/2009	34.5	33.1	0
GW-10	2009 Q3	9/16/2009	14.7	21.6	0
GW-10	2009 Q4	12/3/2009	1	10.1	7.5
GW-10	2010 Q1	3/24/2010	38.3	33.1	0.3
GW-10	2010 Q2	6/2/2010	50.2	35.8	0.1
GW-10	2010 Q3	9/30/2010	50.1	33.8	0.5
GW-10	2010 Q4	12/8/2010	53.6	36.9	0
GW-10	2011 Q1	3/21/2011	50.8	36.2	0
GW-10	2011 Q2	6/24/2011	26.4	27.3	0.7
GW-10	2011 Q3	9/20/2011	21.4	24.2	0.9
GW-10	2011 Q4	12/12/2011	19.5	16.6	10.1
GW-10	2012 Q1	3/27/2012	33.9	30.9	0
GW-10	2012 Q2	6/12/2012	48.9	33.9	0.2
GW-10	2012 Q3	9/26/2012	15.7	17.8	3.3
GW-10	2012 Q4	12/4/2012	29.7	30.6	0.2
GW-10	2013 Q1	3/27/2013	39.1	34	0
GW-10	2013 Q2	6/11/2013	27.7	27.5	0.07
GW-10	2013 Q3	9/25/2013	28.8	28.9	3.9
GW-10	2013 Q4	12/2/2013	35.2	33.5	0.1
GW-10	2014 Q1	3/26/2014	45.3	37.7	0
GW-10	2014 Q2	6/16/2014	45.9	36.1	0
GW-10	2014 Q3	9/19/2014	30	26	3.4
GW-10	2014 Q4	12/1/2014	14	0	23.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-10	2015 Q1	3/5/2015	2	13.4	5.1
GW-10	2015 Q2	6/23/2015	15.1	23	0.5
GW-10	2015 Q3	9/11/2015	26.6	27.8	0.4
GW-10	2015 Q4	11/30/2015	30.5	30.4	0
GW-10	2016 Q1	3/30/2016	25.2	28.3	0
GW-10	2016 Q2	6/14/2016	41.8	35.1	0
GW-10	2016 Q3	9/7/2016	13.1	7	21
GW-10	2016 Q4	12/13/2016	26.9	25.6	5.2
GW-10	2017 Q1	3/7/2017	6.9	19.2	0.5
GW-10	2017 Q2	6/5/2017	16.5	21.7	0.2
GW-10	2017 Q3	9/15/2017	0	0	18.7
GW-10	2018 Q1	3/27/2018	10.4	19.7	0
GW-10	2018 Q2	6/25/2018	30.5	25.9	1.3
GW-10	2018 Q3	9/17/2018	24.1	26.3	0.3
GW-10	2018 Q4	12/10/2018	33.9	33.2	0
GW-10	2019 Q1	3/6/2019	48.8	35.1	2.7
GW-10	2019 Q2	6/11/2019	16.5	21	0.6
GW-10	2019 Q3	9/2/2019	10.4	17.7	1.1
GW-10	2019 Q4	12/10/2019	15.9	23.8	0
GW-10	2020 Q1	3/12/2020	13.6	21.5	1.2
GW-10	2020 Q2	6/8/2020	0.1	0	20.6
GW-10	2020 Q3	9/9/2020	27.2	27.3	0
GW-10	2020 Q4	12/28/2020	45.9	36.2	0
GW-10	2021 Q1	3/18/2021	42.5	34.1	0
GW-10	2021 Q2	6/2/2021	42.2	33.4	0
GW-10	2021 Q3	9/7/2021	20.7	25.6	0
GW-10	2021 Q4	12/7/2021	50.9	38.5	0
GW-10	2022 Q1	3/29/2022	5	12.9	5.5
GW-10	2022 Q2	6/20/2022	0	0.1	18.5
GW-10	2022 Q3	8/15/2022	33.4	36.2	0
GW-10	2022 Q4	1/10/2023	36.7	29.2	0.4
GW-10	2023 Q1	3/1/2023	0	0.2	20.8
GW-10	2023 Q2	5/22/2023	19.3	22.6	0.6
GW-10	2023 Q3	8/29/2023	7.3	13.7	6.6
GW-10	2023 Q4	12/6/2023	44.3	33.3	0
GW-10	2024 Q1	2/21/2024	0	0.1	21.5
GW-10	2024 Q2	6/11/2024	0	0.3	20.5
GW-2		10/1/2003	25.5	23.7	5.1
GW-2		4/5/2004	14.4	19.3	2.6

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-2		1/12/2006	1.4	7.8	11.6
GW-2		6/17/2005	26.5	25.8	0.5
GW-2		7/18/2003	3.5	17.5	1.5
GW-2		9/19/2006	0	0	20.8
GW-2		9/13/2004	44.8	34	0
GW-2		3/13/2003	1.3	1.9	19.4
GW-2		12/16/2004	0	0	20.4
GW-2		9/27/2005	0.6	2	17.3
GW-2		12/9/2003	2.8	12.9	7
GW-2		12/14/2006	2.6	17.7	2
GW-2	2007 Q1	3/26/2007	5.5	21.4	0
GW-2	2007 Q2	6/25/2007	16.4	18.5	5.9
GW-2	2007 Q3	9/24/2007	3.5	12.6	6.8
GW-2	2007 Q4	12/10/2007	0.1	0.2	19.7
GW-2	2008 Q1	3/12/2008	7.1	22.6	0
GW-2	2008 Q2	6/24/2008	2	14.9	4.5
GW-2	2008 Q3	9/16/2008	5.4	20.8	0
GW-2	2008 Q4	12/30/2008	0	0.3	18.6
GW-2	2009 Q1	3/30/2009	0.9	7.4	11
GW-2	2009 Q2	6/16/2009	1.5	13.9	5.2
GW-2	2009 Q3	9/16/2009	1.6	12.6	4.2
GW-2	2009 Q4	12/3/2009	3.4	5.1	14.6
GW-2	2010 Q1	3/24/2010	5.2	20	0.3
GW-2	2010 Q2	6/2/2010	10.2	23.5	0
GW-2	2010 Q3	9/30/2010	8.9	21.6	0.3
GW-2	2010 Q4	12/8/2010	7.4	22.6	0
GW-2	2011 Q1	3/21/2011	38.7	31.5	0
GW-2	2011 Q2	6/24/2011	1.7	12.5	5.2
GW-2	2011 Q3	9/20/2011	1.7	11.4	6.6
GW-2	2011 Q4	12/12/2011	0.3	0.7	19.1
GW-2	2012 Q1	3/27/2012	2.1	17.4	1.9
GW-2	2012 Q2	6/12/2012	5.1	20.3	0.2
GW-2	2012 Q3	9/26/2012	15.4	16.5	5.9
GW-2	2012 Q4	12/4/2012	1.2	15.5	2.5
GW-2	2013 Q1	3/27/2013	4.6	16.9	3.3
GW-2	2013 Q2	6/11/2013	9.5	13.1	8.5
GW-2	2013 Q3	9/25/2013	1.2	12.8	6.8
GW-2	2013 Q4	12/2/2013	20.5	24.8	2.6
GW-2	2014 Q1	3/26/2014	9.5	21.1	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-2	2014 Q2	6/16/2014	23.4	26	0.5
GW-2	2014 Q3	9/19/2014	4.1	7.7	12.4
GW-2	2014 Q4	12/1/2014	0.4	9.8	7.8
GW-2	2015 Q1	3/5/2015	0.6	6	12.6
GW-2	2015 Q2	6/23/2015	0.6	9.2	9.5
GW-2	2015 Q3	9/11/2015	0.8	12.1	6.5
GW-2	2015 Q4	11/30/2015	1.6	18.6	0
GW-2	2016 Q1	3/30/2016	0.7	11.9	6.2
GW-2	2016 Q2	6/14/2016	18.8	22.2	3.9
GW-2	2016 Q3	9/7/2016	0.7	8.8	9.7
GW-2	2016 Q4	12/13/2016	0.1	0.3	18.6
GW-2	2017 Q1	3/7/2017	0.5	6.2	12.3
GW-2	2017 Q2	6/5/2017	0.7	9.3	18.5
GW-2	2017 Q3	9/15/2017	0	0.1	18.7
GW-2	2018 Q1	3/27/2018	0.5	9.7	6.6
GW-2	2018 Q2	6/25/2018	13.7	13.9	9.5
GW-2	2018 Q3	9/17/2018	2.2	14.6	4.3
GW-2	2018 Q4	12/10/2018	2.2	17.7	4.9
GW-2	2019 Q1	3/6/2019	10.2	25.6	0
GW-2	2019 Q2	6/11/2019	1.8	13.4	13.7
GW-2	2019 Q3	9/2/2019	2.4	12.1	6.7
GW-2	2019 Q4	12/10/2019	1.2	10.6	6.3
GW-2	2020 Q1	3/12/2020	0.8	10.2	8.5
GW-2	2020 Q2	6/8/2020	0.5	2.3	17.8
GW-2	2020 Q3	9/9/2020	5	19.4	0
GW-2	2020 Q4	12/28/2020	1	10.1	6.7
GW-2	2021 Q1	3/18/2021	2.3	21.4	0
GW-2	2021 Q2	6/2/2021	9	22.2	0
GW-2	2021 Q3	9/7/2021	1.3	15.2	2.5
GW-2	2021 Q4	12/7/2021	5.3	23.9	0
GW-2	2022 Q1	3/29/2022	2.2	14.5	5.6
GW-2	2022 Q2	6/20/2022	0.8	7.7	11
GW-2	2022 Q3	8/15/2022	1.8	20.6	0
GW-2	2022 Q4	1/10/2023	0.9	12.8	8.3
GW-2	2023 Q1	3/1/2023	0	0.1	20.5
GW-2	2023 Q2	5/22/2023	3.5	5.5	15.6
GW-2	2023 Q3	8/29/2023	2	4.8	15.3
GW-2	2023 Q4	12/6/2023	3.4	20.1	0.1
GW-2	2024 Q1	2/21/2024	0	0.1	21.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-2	2024 Q2	6/11/2024	0	0	21
GW-3		9/27/2005	19.7	21.3	6.5
GW-3		6/17/2005	21.4	27.5	0.1
GW-3		12/14/2006	10.1	23.2	0
GW-3		3/13/2003	3.8	4	17.8
GW-3		9/13/2004	26.8	33.2	0
GW-3		1/12/2006	1	3.6	14.7
GW-3		9/19/2006	0	0	20.8
GW-3		10/1/2003	31.6	28.7	1
GW-3		12/16/2004	0	0	20.4
GW-3		4/5/2004	11.9	18.4	2.9
GW-3		12/9/2003	3.2	13.1	2.4
GW-3		6/21/2004	19	28	0
GW-3		7/18/2003	7.5	20.6	0.4
GW-3	2007 Q1	3/26/2007	10.9	23.5	1.4
GW-3	2007 Q2	6/25/2007	16.7	19	5.7
GW-3	2007 Q3	9/24/2007	1.8	8.6	7.7
GW-3	2007 Q4	12/10/2007	11.6	14.8	8.4
GW-3	2008 Q1	3/12/2008	15.6	25.6	0
GW-3	2008 Q2	6/24/2008	5.6	19.3	2.3
GW-3	2008 Q3	9/16/2008	11.8	25	0
GW-3	2008 Q4	12/30/2008	0	0.1	18.8
GW-3	2009 Q1	3/30/2009	0.1	1.5	14.9
GW-3	2009 Q2	6/16/2009	2.1	14.9	4
GW-3	2009 Q3	9/16/2009	2.2	11.9	0.3
GW-3	2009 Q4	12/3/2009	4.1	6.3	13.4
GW-3	2010 Q1	3/24/2010	11.8	22.5	0.2
GW-3	2010 Q2	6/2/2010	18	26.7	0
GW-3	2010 Q3	9/30/2010	17.2	25.5	0.2
GW-3	2010 Q4	12/8/2010	16.8	26.4	0
GW-3	2011 Q1	3/21/2011	39.1	31.6	0
GW-3	2011 Q2	6/24/2011	2.5	14.4	3.7
GW-3	2011 Q3	9/20/2011	4.3	15.9	2.9
GW-3	2011 Q4	12/12/2011	0.4	1.1	17.7
GW-3	2012 Q1	3/27/2012	7	19.7	1.4
GW-3	2012 Q2	6/12/2012	15.6	25.1	0.3
GW-3	2012 Q3	9/26/2012	2.6	3.1	15.3
GW-3	2012 Q4	12/4/2012	6.8	20.1	0
GW-3	2013 Q1	3/27/2013	9.6	21.1	1.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-3	2013 Q2	6/11/2013	1.7	4.7	14.6
GW-3	2013 Q3	9/25/2013	8.1	22.7	0.5
GW-3	2013 Q4	12/2/2013	7.6	20.3	2.6
GW-3	2014 Q1	3/26/2014	17.6	27.3	0
GW-3	2014 Q2	6/16/2014	10.7	24.1	0
GW-3	2014 Q3	9/19/2014	4.3	7.8	12.5
GW-3	2014 Q4	12/1/2014	14.3	20.1	1.3
GW-3	2015 Q1	3/5/2015	0.5	3.4	15.3
GW-3	2015 Q2	6/23/2015	0.3	10.1	8
GW-3	2015 Q3	9/11/2015	4.3	18	2.2
GW-3	2015 Q4	11/30/2015	10.8	22.1	0
GW-3	2016 Q1	3/30/2016	1.2	14.3	4
GW-3	2016 Q2	6/14/2016	10.3	24.5	0
GW-3	2016 Q3	9/7/2016	0.4	8.6	7.7
GW-3	2016 Q4	12/13/2016	4.7	9.1	12.6
GW-3	2017 Q1	3/7/2017	0	1.8	15.2
GW-3	2017 Q2	6/5/2017	0.3	9.6	6.9
GW-3	2017 Q3	9/15/2017	0	0	18.7
GW-3	2018 Q1	3/27/2018	0.5	8	5.3
GW-3	2018 Q2	6/25/2018	15.9	15.7	7.3
GW-3	2018 Q3	9/17/2018	5.2	17.3	1.6
GW-3	2018 Q4	12/10/2018	11.4	22.2	0.6
GW-3	2019 Q1	3/6/2019	19.9	27.8	0
GW-3	2019 Q2	6/11/2019	10.2	19.6	0.6
GW-3	2019 Q3	9/2/2019	8.8	19.7	1.1
GW-3	2019 Q4	12/10/2019	1.9	12.2	1.1
GW-3	2020 Q1	3/12/2020	1.5	12.1	5.2
GW-3	2020 Q2	6/8/2020	0.1	0	20.7
GW-3	2020 Q3	9/9/2020	15.8	24.3	0
GW-3	2020 Q4	12/28/2020	1.9	14.4	0.3
GW-3	2021 Q1	3/18/2021	1	20.8	0
GW-3	2021 Q2	6/2/2021	19.5	25.6	0
GW-3	2021 Q3	9/7/2021	7.8	21.1	0
GW-3	2021 Q4	12/7/2021	13.8	25.9	0
GW-3	2022 Q1	3/29/2022	4	17	14.2
GW-3	2022 Q2	6/20/2022	3.4	4.3	15.5
GW-3	2022 Q3	8/15/2022	10.4	27.9	0
GW-3	2022 Q4	1/10/2023	3.1	16.9	2.3
GW-3	2023 Q1	3/1/2023	0	0.1	20.6

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-3	2023 Q2	5/22/2023	2.1	14.9	4.4
GW-3	2023 Q3	8/29/2023	0	0	20.2
GW-3	2023 Q4	12/6/2023	2.1	8.4	12.7
GW-3	2024 Q1	2/21/2024	0	0.1	21.3
GW-3	2024 Q2	6/11/2024	0	0	21
GW-4		6/17/2005	34.5	30.4	0
GW-4		6/21/2004	34.1	28.8	0
GW-4		10/1/2003	32.6	29.3	0.6
GW-4		12/9/2003	24.7	25.8	1.8
GW-4		7/18/2003	24.5	26.7	0.4
GW-4		9/13/2004	39	32.3	0
GW-4		3/13/2003	6.9	8.9	13.8
GW-4		12/16/2004	0	0	20.4
GW-4		9/19/2006	0	0	20.5
GW-4		4/5/2004	32.6	30.1	0
GW-4		1/12/2006	13.1	17.8	4.4
GW-4		9/27/2005	1.4	4	14.9
GW-4		12/14/2006	29.2	29.5	0
GW-4	2007 Q1	3/26/2007	26.8	28.3	0
GW-4	2007 Q2	6/25/2007	5.9	8.3	10.7
GW-4	2007 Q3	9/24/2007	13.8	16.8	4.7
GW-4	2007 Q4	12/10/2007	10.5	14.1	9
GW-4	2008 Q1	3/12/2008	29.6	29.7	0
GW-4	2008 Q2	6/24/2008	24	26.4	0.6
GW-4	2008 Q3	9/16/2008	25.4	27.4	0
GW-4	2008 Q4	12/30/2008	0.2	0.7	17.9
GW-4	2009 Q1	3/30/2009	4.8	8.7	8.5
GW-4	2009 Q2	6/16/2009	14.6	22.6	0.9
GW-4	2009 Q3	9/16/2009	8.8	16.2	0.7
GW-4	2009 Q4	12/3/2009	23.1	26.8	1.3
GW-4	2010 Q1	3/24/2010	27.2	26.6	0.2
GW-4	2010 Q2	6/2/2010	28.6	26.4	0
GW-4	2010 Q3	9/30/2010	27.9	25	0.3
GW-4	2010 Q4	12/8/2010	28	27.8	0
GW-4	2011 Q1	3/21/2011	27.2	26.7	0
GW-4	2011 Q2	6/24/2011	9.6	7.8	12.5
GW-4	2011 Q3	9/20/2011	25.8	22.2	1.2
GW-4	2011 Q4	12/12/2011	26.8	27.2	2.3
GW-4	2012 Q1	3/27/2012	26	24.7	1

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-4	2012 Q2	6/12/2012	23	21	3
GW-4	2012 Q3	9/26/2012	24.1	22	1.5
GW-4	2012 Q4	12/4/2012	27.7	28.1	0
GW-4	2013 Q1	3/27/2013	23.6	24.5	1.5
GW-4	2013 Q2	6/11/2013	10.7	14.6	7.7
GW-4	2013 Q3	9/25/2013	14	22.9	0.4
GW-4	2013 Q4	12/2/2013	23.3	28	0
GW-4	2014 Q1	3/26/2014	23	27.7	0
GW-4	2014 Q2	6/16/2014	24.6	25.7	0.4
GW-4	2014 Q3	9/19/2014	1.2	2.9	15.9
GW-4	2014 Q4	12/1/2014	15.8	21.7	0.8
GW-4	2015 Q1	3/5/2015	20.2	26.1	0
GW-4	2015 Q2	6/23/2015	5.2	6.8	13.6
GW-4	2015 Q3	9/11/2015	11.7	17.2	3.2
GW-4	2015 Q4	11/30/2015	18.6	25.5	0
GW-4	2016 Q1	3/30/2016	22.2	26.2	0
GW-4	2016 Q2	6/14/2016	0.4	0.7	18.3
GW-4	2016 Q3	9/7/2016	7.7	12.9	0.1
GW-4	2016 Q4	12/13/2016	18.2	26.2	0.5
GW-4	2017 Q1	3/7/2017	10.6	15.9	4.6
GW-4	2017 Q2	6/5/2017	7.4	8.4	12.1
GW-4	2017 Q3	9/15/2017	0	0	18.8
GW-4	2018 Q1	3/27/2018	18.5	25.3	0
GW-4	2018 Q2	6/25/2018	1.1	1.1	19.3
GW-4	2018 Q3	9/17/2018	12	11.9	10.8
GW-4	2018 Q4	12/10/2018	26.8	29.2	0
GW-4	2019 Q1	3/6/2019	25.1	27.6	1
GW-4	2019 Q2	6/11/2019	8.5	7.5	13.7
GW-4	2019 Q3	9/2/2019	4.8	5.1	15.7
GW-4	2019 Q4	12/10/2019	25.3	25.7	0.2
GW-4	2020 Q1	3/12/2020	18.2	18.6	5
GW-4	2020 Q2	6/8/2020	1	1.7	19.6
GW-4	2020 Q3	9/9/2020	21.8	21.7	2
GW-4	2020 Q4	12/28/2020	25.9	30.1	0
GW-4	2021 Q1	3/18/2021	19.8	20.7	4.2
GW-4	2021 Q2	6/2/2021	16	17.7	4.2
GW-4	2021 Q3	9/7/2021	7.3	8.2	11.2
GW-4	2021 Q4	12/7/2021	26.5	28.2	0
GW-4	2022 Q1	3/29/2022	8.2	5.2	14.5

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-4	2022 Q2	6/20/2022	4.6	3.4	16
GW-4	2022 Q3	8/15/2022	7.8	10.3	9.9
GW-4	2022 Q4	1/10/2023	17.9	21.2	2
GW-4	2023 Q1	3/1/2023	1.1	2.2	18.3
GW-4	2023 Q2	5/22/2023	13.4	17.2	3.6
GW-4	2023 Q3	8/29/2023	1.9	7.9	11.6
GW-4	2023 Q4	12/6/2023	8.2	16.6	5.3
GW-4	2024 Q1	2/21/2024	0	0.1	21.3
GW-4	2024 Q2	6/11/2024	0	0.1	20.6
GW-5		1/12/2006	8.9	14.6	6.8
GW-5		12/16/2004	0	0	20.3
GW-5		9/13/2004	28.8	29.5	0
GW-5		9/27/2005	23.3	28.4	2.7
GW-5		6/21/2004	44.9	34.3	0
GW-5		6/17/2005	24.6	27.1	0
GW-5		4/5/2004	34.7	30.3	0.2
GW-5		7/18/2003	33.7	30.9	0.3
GW-5		10/1/2003	14.7	14.1	10
GW-5		9/19/2006	0.1	0.1	20.6
GW-5		3/13/2003	7.1	7.7	14.4
GW-5		12/9/2003	21.4	23	2.5
GW-5		12/14/2006	23.6	27.8	0
GW-5	2007 Q1	3/26/2007	37.7	31.7	0
GW-5	2007 Q2	6/25/2007	17.6	25.2	0.7
GW-5	2007 Q3	9/24/2007	21.9	26.8	0
GW-5	2007 Q4	12/10/2007	10.2	13.6	9.1
GW-5	2008 Q1	3/12/2008	39.4	32.5	0
GW-5	2008 Q2	6/24/2008	18.6	25.3	0.5
GW-5	2008 Q3	9/16/2008	33.6	30.2	0
GW-5	2008 Q4	12/30/2008	0.2	0.7	18.5
GW-5	2009 Q1	3/30/2009	7.1	12.4	6.7
GW-5	2009 Q2	6/16/2009	17.4	25.6	0.1
GW-5	2009 Q3	9/16/2009	11.6	21.8	0.4
GW-5	2009 Q4	12/3/2009	11.4	17.7	6
GW-5	2010 Q1	3/24/2010	17.7	24.1	0.3
GW-5	2010 Q2	6/2/2010	18.9	24.6	0
GW-5	2010 Q3	9/30/2010	32.8	27.7	0.3
GW-5	2010 Q4	12/8/2010	22.1	27.1	0
GW-5	2011 Q1	3/21/2011	39.3	31.4	0.3

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-5	2011 Q2	6/24/2011	21	24.2	0.5
GW-5	2011 Q3	9/20/2011	21.7	24.4	0.5
GW-5	2011 Q4	12/12/2011	0.8	1.7	18.4
GW-5	2012 Q1	3/27/2012	17.9	23.6	0.4
GW-5	2012 Q2	6/12/2012	20.8	23.3	0.3
GW-5	2012 Q3	9/26/2012	18.8	23.8	0.6
GW-5	2012 Q4	12/4/2012	8.6	19.4	3.5
GW-5	2013 Q1	3/27/2013	14.2	23.2	0.5
GW-5	2013 Q2	6/11/2013	13.2	21.5	1.8
GW-5	2013 Q3	9/25/2013	15.9	24.9	0.4
GW-5	2013 Q4	12/2/2013	16.6	26.4	0.9
GW-5	2014 Q1	3/26/2014	18.6	27.4	0
GW-5	2014 Q2	6/16/2014	17.6	25.1	0
GW-5	2014 Q3	9/19/2014	12.1	20.5	3.2
GW-5	2014 Q4	12/1/2014	14.7	23.4	0.3
GW-5	2015 Q1	3/5/2015	15	23.8	0.8
GW-5	2015 Q2	6/23/2015	17.9	25.5	0.5
GW-5	2015 Q3	9/11/2015	17.7	24.5	0.2
GW-5	2015 Q4	11/30/2015	12.4	24.3	0
GW-5	2016 Q1	3/30/2016	16.7	24.6	0
GW-5	2016 Q2	6/14/2016	15.7	24.8	0
GW-5	2016 Q3	9/7/2016	16.1	24.8	1
GW-5	2016 Q4	12/13/2016	12.6	21.6	3.2
GW-5	2017 Q1	3/7/2017	6.9	13.9	6.1
GW-5	2017 Q2	6/5/2017	15.2	23.1	0.6
GW-5	2017 Q3	9/15/2017	0	0.1	18.8
GW-5	2018 Q1	3/27/2018	7.9	19	1.5
GW-5	2018 Q2	6/25/2018	10.2	15.9	5.5
GW-5	2018 Q3	9/17/2018	19.1	24.2	0
GW-5	2018 Q4	12/10/2018	19.9	28.4	0.1
GW-5	2019 Q1	3/6/2019	34.4	33.6	0
GW-5	2019 Q2	6/11/2019	16.2	19.3	1.9
GW-5	2019 Q3	9/2/2019	13.1	16	4.8
GW-5	2019 Q4	12/10/2019	16.1	23.7	0
GW-5	2020 Q1	3/12/2020	14.5	20.1	2.7
GW-5	2020 Q2	6/8/2020	0.1	0	20.7
GW-5	2020 Q3	9/9/2020	20.8	23.7	0
GW-5	2020 Q4	12/28/2020	17.3	26.9	0
GW-5	2021 Q1	3/18/2021	18.3	25.6	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-5	2021 Q2	6/2/2021	31.7	28.7	0
GW-5	2021 Q3	9/7/2021	16.7	23.9	0
GW-5	2021 Q4	12/7/2021	18.3	27.6	0
GW-5	2022 Q1	3/29/2022	0	0.3	18.2
GW-5	2022 Q2	6/20/2022	0	0.1	16.1
GW-5	2022 Q3	8/15/2022	15.1	28.2	0
GW-5	2022 Q4	1/10/2023	13	21.1	2.2
GW-5	2023 Q1	3/1/2023	0	0.1	20.9
GW-5	2023 Q2	5/22/2023	14	22.2	0.6
GW-5	2023 Q3	8/29/2023	12.6	20.4	1.9
GW-5	2023 Q4	12/6/2023	10.4	20.2	3.1
GW-5	2024 Q1	2/21/2024	0	0.1	21.4
GW-5	2024 Q2	6/11/2024	12.3	21.6	0.6
GW-6		12/14/2006	1.2	18.9	1.1
GW-6		9/19/2006	0	0	21
GW-6		3/13/2003	0	0	20.9
GW-6		1/12/2006	3.2	6.7	13.7
GW-6		6/17/2005	41.6	33.2	0.1
GW-6		9/27/2005	0	0	19.6
GW-6	2007 Q1	3/26/2007	1.9	19.8	0.4
GW-6	2007 Q2	6/25/2007	15.7	18	6.2
GW-6	2007 Q3	9/24/2007	10.8	14.4	7.1
GW-6	2007 Q4	12/10/2007	4.1	5.9	14.6
GW-6	2008 Q1	3/12/2008	2.8	21.1	0
GW-6	2008 Q2	6/24/2008	7.8	14.7	6
GW-6	2008 Q3	9/16/2008	6	20.4	0
GW-6	2008 Q4	12/30/2008	0	0.2	18.8
GW-6	2009 Q1	3/30/2009	1	2.7	14.5
GW-6	2009 Q2	6/16/2009	0.1	9.2	8.7
GW-6	2009 Q3	9/16/2009	0	13.8	3.8
GW-6	2009 Q4	12/3/2009	1.6	3.1	15.6
GW-6	2010 Q1	3/24/2010	0.6	17.5	0.8
GW-6	2010 Q2	6/2/2010	1.1	20.3	0
GW-6	2010 Q3	9/30/2010	4.1	20.7	0.3
GW-6	2010 Q4	12/8/2010	2	21.4	0
GW-6	2011 Q1	3/21/2011	35.1	30.6	0
GW-6	2011 Q2	6/24/2011	10.6	14.8	5.2
GW-6	2011 Q3	9/20/2011	0.9	7.2	10.1
GW-6	2011 Q4	12/12/2011	0.1	0.2	19.5

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-6	2012 Q1	3/27/2012	0.2	13.9	4.6
GW-6	2012 Q2	6/12/2012	2	19.3	0.5
GW-6	2012 Q3	9/26/2012	15.8	17.3	5.3
GW-6	2012 Q4	12/4/2012	0.3	20.4	0.8
GW-6	2013 Q1	3/27/2013	21	24.5	1.3
GW-6	2013 Q2	6/11/2013	9.4	12.9	8.8
GW-6	2013 Q3	9/25/2013	17.7	23.5	1.2
GW-6	2013 Q4	12/2/2013	1.5	14.5	6.8
GW-6	2014 Q1	3/26/2014	1.4	21.9	0
GW-6	2014 Q2	6/16/2014	11.9	20.3	2.9
GW-6	2014 Q3	9/19/2014	3.8	6.9	13.1
GW-6	2014 Q4	12/1/2014	0.2	9.7	7.7
GW-6	2015 Q1	3/5/2015	8.3	13.9	7.5
GW-6	2015 Q2	6/23/2015	5.4	10.9	8.6
GW-6	2015 Q3	9/11/2015	0.3	9	8.9
GW-6	2015 Q4	11/30/2015	0.3	18.4	1
GW-6	2016 Q1	3/30/2016	1.3	8.5	9.9
GW-6	2016 Q2	6/14/2016	0.1	18.9	1.2
GW-6	2016 Q3	9/7/2016	0.3	6	12
GW-6	2016 Q4	12/13/2016	0	0.2	18.7
GW-6	2017 Q1	3/7/2017	0.1	2.2	15.8
GW-6	2017 Q2	6/5/2017	0	8.2	9.7
GW-6	2017 Q3	9/15/2017	1.1	7	12.8
GW-6	2018 Q1	3/27/2018	0	8.8	8
GW-6	2018 Q2	6/25/2018	18.5	19.1	3.8
GW-6	2018 Q3	9/17/2018	0.3	11.1	7.8
GW-6	2018 Q4	12/10/2018	0.4	0.4	19.5
GW-6	2019 Q2	6/11/2019	0.2	11	6.1
GW-6	2019 Q3	9/2/2019	0.1	10.1	9.9
GW-6	2019 Q4	12/10/2019	0.2	8.9	8.7
GW-6	2020 Q1	3/12/2020	0.1	7.5	11.6
GW-6	2020 Q2	6/8/2020	0.3	8.3	11.4
GW-6	2020 Q3	9/9/2020	0.3	18	0.4
GW-6	2020 Q4	12/28/2020	0.4	0.5	17.1
GW-6	2021 Q1	3/18/2021	0.5	20.5	0
GW-6	2021 Q2	6/2/2021	0.9	19.6	0
GW-6	2021 Q3	9/7/2021	0.1	11.8	6
GW-6	2021 Q4	12/7/2021	0.7	21.6	0
GW-6	2022 Q1	3/29/2022	0	0.2	18.3

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-6	2022 Q2	6/20/2022	0	0.2	18.2
GW-6	2022 Q3	8/15/2022	0	16.6	2.5
GW-6	2022 Q4	1/10/2023	0.5	0.1	22.3
GW-6	2023 Q1	3/1/2023	0	0	20.5
GW-6	2023 Q2	5/22/2023	0.7	12.4	7.1
GW-6	2023 Q3	8/29/2023	2.5	3.4	17
GW-6	2023 Q4	12/6/2023	0.4	19.9	0
GW-6	2024 Q1	2/21/2024	0.1	0.1	21.2
GW-6	2024 Q2	6/11/2024	0	0.1	20.5
GW-7		9/13/2004	50.4	37.1	0
GW-7		6/21/2004	44.7	34.4	0
GW-7		12/16/2004	0	0	20.4
GW-7		6/17/2005	46.5	35.9	0
GW-7		3/13/2003	11.9	9.6	14
GW-7		1/12/2006	6.3	14.2	6.2
GW-7		7/18/2003	31.5	30.5	0.3
GW-7		4/5/2004	30.9	28.3	1
GW-7		9/19/2006	0.1	0.1	20.7
GW-7		9/27/2005	4.8	7.6	13.3
GW-7		12/14/2006	26.2	28.4	0
GW-7		12/9/2003	14.8	21.7	2.1
GW-7		10/1/2003	28.9	6.3	2.5
GW-7	2007 Q1	3/26/2007	38	32.7	0
GW-7	2007 Q2	6/25/2007	4.9	5.4	15.1
GW-7	2007 Q3	9/24/2007	13.6	4.1	18.1
GW-7	2007 Q4	12/10/2007	7.4	10.6	11.5
GW-7	2008 Q1	3/12/2008	39.6	33.2	0
GW-7	2008 Q2	6/24/2008	32.2	29.5	0.8
GW-7	2008 Q3	9/16/2008	29.3	29.1	0
GW-7	2008 Q4	12/30/2008	0	0.6	18.5
GW-7	2009 Q1	3/30/2009	2.8	9.1	6.9
GW-7	2009 Q2	6/16/2009	30.9	30.1	0.3
GW-7	2009 Q3	9/16/2009	11.2	18.3	0.3
GW-7	2009 Q4	12/3/2009	0.7	3.6	14.7
GW-7	2010 Q1	3/24/2010	30.3	28.8	0.1
GW-7	2010 Q2	6/2/2010	41.2	32.1	0
GW-7	2010 Q3	9/30/2010	36.7	29.4	0.2
GW-7	2010 Q4	12/8/2010	31.8	29.5	0
GW-7	2011 Q1	3/21/2011	39.7	32	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-7	2011 Q2	6/24/2011	26.7	24.7	1.5
GW-7	2011 Q3	9/20/2011	19	19.5	3.2
GW-7	2011 Q4	12/12/2011	0.3	1	18.6
GW-7	2012 Q1	3/27/2012	27.1	27.8	0
GW-7	2012 Q2	6/12/2012	38.1	30.3	0.2
GW-7	2012 Q3	9/26/2012	5.9	7.6	12.4
GW-7	2012 Q4	12/4/2012	3.8	14.7	6.2
GW-7	2013 Q1	3/27/2013	29.6	29.6	0.2
GW-7	2013 Q2	6/11/2013	9.9	11.8	9.7
GW-7	2013 Q3	9/25/2013	22.2	25.7	1.6
GW-7	2013 Q4	12/2/2013	21.5	23	4.2
GW-7	2014 Q1	3/26/2014	37.7	34	0
GW-7	2014 Q2	6/16/2014	36.1	32.5	0
GW-7	2014 Q3	9/19/2014	0.7	2.7	16.4
GW-7	2014 Q4	12/1/2014	3.5	12.3	2.7
GW-7	2015 Q1	3/5/2015	3.5	10.1	9.3
GW-7	2015 Q2	6/23/2015	18	21.1	3.5
GW-7	2015 Q3	9/11/2015	20.6	22.1	2.3
GW-7	2015 Q4	11/30/2015	15.6	24.9	0
GW-7	2016 Q1	3/30/2016	25.1	28	0.2
GW-7	2016 Q2	6/14/2016	33.9	31.8	0
GW-7	2016 Q3	9/7/2016	14.4	18.1	4.5
GW-7	2016 Q4	12/13/2016	0.4	2.6	16.4
GW-7	2017 Q1	3/7/2017	2.5	9.1	7.3
GW-7	2017 Q2	6/5/2017	20.9	23.4	1.1
GW-7	2017 Q3	9/15/2017	0	0	18.8
GW-7	2018 Q1	3/27/2018	6.8	17.5	0.4
GW-7	2018 Q2	6/25/2018	22.2	22	3.6
GW-7	2018 Q3	9/17/2018	21.1	22.3	3
GW-7	2018 Q4	12/10/2018	20.4	26.8	0
GW-7	2019 Q1	3/6/2019	35.4	33.7	0
GW-7	2019 Q2	6/11/2019	18	20.2	2.2
GW-7	2019 Q3	9/2/2019	11.4	14.8	6.1
GW-7	2019 Q4	12/10/2019	8.5	16.8	1
GW-7	2020 Q1	3/12/2020	9.5	15.6	4.4
GW-7	2020 Q2	6/8/2020	0	0	20.8
GW-7	2020 Q3	9/9/2020	20.6	23.9	0
GW-7	2020 Q4	12/28/2020	14.4	23.2	0
GW-7	2021 Q1	3/18/2021	32.5	31.7	0

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-7	2021 Q2	6/2/2021	31.9	29.7	0
GW-7	2021 Q3	9/7/2021	17.6	27.1	0.7
GW-7	2021 Q4	12/7/2021	27.4	31.5	0
GW-7	2022 Q1	3/29/2022	0	0.4	17.8
GW-7	2022 Q2	6/20/2022	6	9.1	8.7
GW-7	2022 Q3	8/15/2022	26	33.1	0
GW-7	2022 Q4	1/10/2023	0.7	12.9	7.5
GW-7	2023 Q1	3/1/2023	0	0	21.1
GW-7	2023 Q2	5/22/2023	19.3	21.1	4.4
GW-7	2023 Q3	8/29/2023	14.2	14.5	8.1
GW-7	2023 Q4	12/6/2023	19.7	24	2.5
GW-7	2024 Q1	2/21/2024	0	0.1	21.5
GW-7	2024 Q2	6/11/2024	22.1	23.3	3.2
GW-8		12/9/2003	35.7	32.1	1
GW-8		4/5/2004	35.4	30	0
GW-8		10/1/2003	11.1	12.2	10
GW-8		9/27/2005	35.8	33.5	2.7
GW-8		6/21/2004	47.4	34.7	0
GW-8		7/18/2003	33.5	30.8	0.2
GW-8		12/14/2006	48.2	36.1	0
GW-8		12/16/2004	0	0	19.8
GW-8		1/12/2006	14.1	3.1	2.3
GW-8		6/17/2005	48.4	36.1	0
GW-8		9/13/2004	51.9	38.2	0
GW-8		9/19/2006	40.3	32.6	0.2
GW-8		3/13/2003	9.9	7.5	15.8
GW-8	2007 Q1	3/26/2007	47.8	36.7	0
GW-8	2007 Q2	6/25/2007	37.5	32.4	0.2
GW-8	2007 Q3	9/24/2007	45	34.3	0
GW-8	2007 Q4	12/10/2007	22.8	23.3	4.2
GW-8	2008 Q1	3/12/2008	50.3	37	0
GW-8	2008 Q2	6/24/2008	28.6	27.5	0.1
GW-8	2008 Q3	9/16/2008	40.8	32.6	0
GW-8	2008 Q4	12/30/2008	0.1	0.3	18.8
GW-8	2009 Q1	3/30/2009	5.6	14.9	1.8
GW-8	2009 Q2	6/16/2009	29.6	29.6	0.2
GW-8	2009 Q3	9/16/2009	17.2	23.2	0
GW-8	2009 Q4	12/3/2009	2.3	7.6	10.2
GW-8	2010 Q1	3/24/2010	36.2	30.5	0.2

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-8	2010 Q2	6/2/2010	42.5	32.2	0
GW-8	2010 Q3	9/30/2010	45.1	31.2	0.3
GW-8	2010 Q4	12/8/2010	53.5	36.8	0
GW-8	2011 Q1	3/21/2011	40.7	31.3	0.2
GW-8	2011 Q2	6/24/2011	31.4	27.5	0.6
GW-8	2011 Q3	9/20/2011	19.3	21.3	0.7
GW-8	2011 Q4	12/12/2011	0.1	0.1	19
GW-8	2012 Q1	3/27/2012	32.6	29.5	0
GW-8	2012 Q2	6/12/2012	43.6	30.8	0.2
GW-8	2012 Q3	9/26/2012	24.7	22.6	2.4
GW-8	2012 Q4	12/4/2012	10.3	15	9.2
GW-8	2013 Q1	3/27/2013	25.6	27	0
GW-8	2013 Q2	6/11/2013	0.1	0.4	19.8
GW-8	2013 Q3	9/25/2013	27.9	28.3	0.4
GW-8	2013 Q4	12/2/2013	0.5	0.6	19.1
GW-8	2014 Q1	3/26/2014	33.2	32	0
GW-8	2014 Q2	6/16/2014	26.6	28.3	0.7
GW-8	2014 Q3	9/19/2014	1.1	0.2	19.1
GW-8	2014 Q4	12/1/2014	10.1	16.7	3.2
GW-8	2015 Q1	3/5/2015	0.6	5.8	11.9
GW-8	2015 Q2	6/23/2015	3.5	13.4	4.1
GW-8	2015 Q3	9/11/2015	22.6	24.5	1.3
GW-8	2015 Q4	11/30/2015	20.8	26.7	0
GW-8	2016 Q1	3/30/2016	23.8	27.6	0
GW-8	2016 Q2	6/14/2016	0.4	0.5	18.8
GW-8	2016 Q3	9/7/2016	5	12.6	4.9
GW-8	2016 Q4	12/13/2016	0	0.1	18.7
GW-8	2017 Q1	3/7/2017	0.4	4.5	10.4
GW-8	2017 Q2	6/5/2017	5.8	15	2
GW-8	2017 Q3	9/15/2017	0	0	18.9
GW-8	2018 Q1	3/27/2018	9.4	18.4	0
GW-8	2018 Q2	6/25/2018	22.5	18.1	7.7
GW-8	2018 Q3	9/17/2018	33.1	29	0.2
GW-8	2018 Q4	12/10/2018	36.1	32.3	1.2
GW-8	2019 Q1	3/6/2019	39.5	32	3.1
GW-8	2019 Q2	6/11/2019	15.9	20.6	0.7
GW-8	2019 Q3	9/2/2019	9.5	17.5	1.3
GW-8	2019 Q4	12/10/2019	7.1	15.2	0.2
GW-8	2020 Q1	3/12/2020	6.4	13.1	5.1

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-8	2020 Q2	6/8/2020	0.1	0.1	20.3
GW-8	2020 Q3	9/9/2020	24.7	25.6	0.2
GW-8	2020 Q4	12/28/2020	14.6	23	0.4
GW-8	2021 Q1	3/18/2021	28.3	29.1	0
GW-8	2021 Q2	6/2/2021	34.6	29	0
GW-8	2021 Q3	9/7/2021	13	20.6	0.1
GW-8	2021 Q4	12/7/2021	28.3	31.6	0
GW-8	2022 Q1	3/29/2022	0	0.1	18.3
GW-8	2022 Q2	6/20/2022	6.3	9.5	8.9
GW-8	2022 Q3	8/15/2022	22.1	32	0
GW-8	2022 Q4	1/10/2023	8.5	7.8	16.4
GW-8	2023 Q1	3/1/2023	0	0.1	20.6
GW-8	2023 Q2	5/22/2023	3.4	4.7	15.1
GW-8	2023 Q3	8/29/2023	1.9	2.7	16.9
GW-8	2023 Q4	12/6/2023	24.7	27.8	0
GW-8	2024 Q1	2/21/2024	0	0.1	21.6
GW-8	2024 Q2	6/11/2024	23.4	25.9	0.3
GW-9		6/17/2005	40.8	33.1	0
GW-9		12/9/2003	21.3	22	2.9
GW-9		12/16/2004	0	0	20.4
GW-9		12/14/2006	31.2	28.7	0
GW-9		9/27/2005	3.6	7.8	11.9
GW-9		3/13/2003	13.5	13.2	10.1
GW-9		10/1/2003	22.4	22	5.1
GW-9		7/18/2003	32.8	29.7	0.3
GW-9		1/12/2006	9.6	15.1	6.7
GW-9		9/13/2004	45	34.4	0
GW-9		9/19/2006	0	0	20.5
GW-9		4/5/2004	32	28.7	0.4
GW-9		6/21/2004	41.1	32.5	0
GW-9	2007 Q1	3/26/2007	34.8	30.5	0
GW-9	2007 Q2	6/25/2007	8.7	13	8
GW-9	2007 Q3	9/24/2007	16	18.5	4.4
GW-9	2007 Q4	12/10/2007	10.2	13.8	8.8
GW-9	2008 Q1	3/12/2008	35.2	31.6	0
GW-9	2008 Q2	6/24/2008	25.5	27.5	0.6
GW-9	2008 Q3	9/16/2008	32.1	29	0
GW-9	2008 Q4	12/30/2008	0.1	1.4	17.4
GW-9	2009 Q1	3/30/2009	5	9.4	8.3

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-9	2009 Q2	6/16/2009	29	28.9	0.4
GW-9	2009 Q3	9/16/2009	15.2	19.3	1.8
GW-9	2009 Q4	12/3/2009	3.6	6.8	12.4
GW-9	2010 Q1	3/24/2010	28.5	27.7	0.1
GW-9	2010 Q2	6/2/2010	35.4	30.2	0
GW-9	2010 Q3	9/30/2010	36.2	28.7	0.3
GW-9	2010 Q4	12/8/2010	32.9	29.5	0
GW-9	2011 Q1	3/21/2011	34.3	30.1	0
GW-9	2011 Q2	6/24/2011	25.4	24.8	0.9
GW-9	2011 Q3	9/20/2011	21.9	20.8	2.1
GW-9	2011 Q4	12/12/2011	1	2.8	17
GW-9	2012 Q1	3/27/2012	28.5	27.8	0
GW-9	2012 Q2	6/12/2012	33.2	27.7	0.2
GW-9	2012 Q3	9/26/2012	11	11.9	9.2
GW-9	2012 Q4	12/4/2012	7.2	17.5	4.5
GW-9	2013 Q1	3/27/2013	27	28.6	0
GW-9	2013 Q2	6/11/2013	16.1	18.8	5.2
GW-9	2013 Q3	9/25/2013	24.8	26.7	0.5
GW-9	2013 Q4	12/2/2013	26.2	28.8	0.7
GW-9	2014 Q1	3/26/2014	30.8	31.7	0
GW-9	2014 Q2	6/16/2014	29.8	29.6	0
GW-9	2014 Q3	9/19/2014	1.1	4.1	14.6
GW-9	2014 Q4	12/1/2014	10.9	3.4	15.9
GW-9	2015 Q1	3/5/2015	7.9	13.7	7.6
GW-9	2015 Q2	6/23/2015	15.8	19.9	3.4
GW-9	2015 Q3	9/11/2015	19.8	22	1.8
GW-9	2015 Q4	11/30/2015	20.9	26.5	0
GW-9	2016 Q1	3/30/2016	23.5	27.9	0
GW-9	2016 Q2	6/14/2016	28.3	29	0
GW-9	2016 Q3	9/7/2016	13.7	17.8	4.4
GW-9	2016 Q4	12/13/2016	1.1	5.3	13.8
GW-9	2017 Q1	3/7/2017	1.5	5.6	11.1
GW-9	2017 Q2	6/5/2017	17.6	23.1	1.1
GW-9	2017 Q3	9/15/2017	0	0	18.8
GW-9	2018 Q1	3/27/2018	6.9	14.8	2.5
GW-9	2018 Q2	6/25/2018	4.4	5.1	15.5
GW-9	2018 Q3	9/17/2018	19.6	21.1	2.5
GW-9	2018 Q4	12/10/2018	22.9	27.6	0.9
GW-9	2019 Q1	3/6/2019	35.7	32.6	1

Bold indicates value above LEL

Appendix E. Landfill Gas Monitoring Data, Lower Valley Transfer Station

Probe	Event	Date	CH4 (% total)	CO2 (% total)	O2 (% total)
GW-9	2019 Q2	6/11/2019	15.2	18.7	2.7
GW-9	2019 Q3	9/2/2019	14.6	16.3	5
GW-9	2019 Q4	12/10/2019	13.7	21.2	0.1
GW-9	2020 Q1	3/12/2020	6.1	11.4	7
GW-9	2020 Q2	6/8/2020	0	0	20.7
GW-9	2020 Q3	9/9/2020	20.7	22.9	0.3
GW-9	2020 Q4	12/28/2020	15.8	25.4	0.1
GW-9	2021 Q1	3/18/2021	20.8	27.5	0
GW-9	2021 Q2	6/2/2021	28.4	29.2	0
GW-9	2021 Q3	9/7/2021	17.3	4.5	0.6
GW-9	2021 Q4	12/7/2021	20.5	29	0
GW-9	2022 Q1	3/29/2022	0	0.2	18
GW-9	2022 Q2	6/20/2022	6.7	7.2	11
GW-9	2022 Q3	8/15/2022	23.3	30.7	0
GW-9	2022 Q4	1/10/2023	17.8	21.3	3.7
GW-9	2023 Q1	3/1/2023	0	0.1	20.9
GW-9	2023 Q2	5/22/2023	0.8	0.7	20.6
GW-9	2023 Q3	8/29/2023	16.7	18.1	5.6
GW-9	2023 Q4	12/6/2023	20.1	23.9	1.9
GW-9	2024 Q1	2/21/2024	0	0.1	21.5
GW-9	2024 Q2	6/11/2024	20.9	24.4	0.4

Appendix F. Historical Groundwater Elevation Data Tables

Appendix F. Well Survey and Water Level Data

Closed Snipes Mountain Landfill

	SMW-1		SMW-2		SMW-3		SMW-4		SMW-5s (Shallow)		SMW-5d (Deep)		30E1 (DNR)		31D1 (Newhouse)	
Ground Elevation, ft	999		895		1035		1000		951		951		819		791	
Measuring Point	TOSM		TOSM		TOSM		TOSM		TOSM		TOSM		TOSM		TOSM	
Measuring Pt Elevation	1001		896.8		1037		1003		953.6		953.6		820.2		793.5	
DATE	DTW	PSE	DTW	PSE	DTW	PSE	DTW	PSE	DTW	PSE	DTW	PSE	DTW	PSE	DTW	PSE
01-Mar-88													37.16	782.99		
01-Nov-88													49.08	771.07		
30-Mar-89													36.79	783.36		
18-Oct-89	227.94	773.29	220.64	676.16	275.15	761.88										
24-Oct-89													43.58	776.57		
05-Dec-89	224.54	776.69	231.67	665.13	276.46	760.57										
27-Feb-90													36.83	783.32		
27-Mar-90	221.16	780.07	221.62	675.18	276.07	760.96										
29-Jun-90	230.69	770.54	221.09	675.71	275.12	761.91										
05-Oct-90	235.00	766.23	226.43	670.37	276.09	760.94										
13-Feb-91	222.00	779.23	222.31	674.49	275.85	761.18										
13-Mar-91													37.17	782.98		
29-Mar-91	220.21	781.02	221.71	675.09	275.83	761.20										
12-Apr-91	220.72	780.51	220.56	676.24	274.66	762.37										
13-Apr-91															75.00	718.54
18-Apr-91															163.58	629.96
26-Apr-91	222.67	778.56	221.43	675.37	274.18	762.85									75.15	718.39
10-May-91	225.80	775.43	222.75	674.05	274.39	762.64									75.49	718.05
13-May-91	226.38	774.85	221.99	674.81	274.16	762.87										
16-May-91	226.38	774.85	221.99	674.81	274.16	762.87										
24-May-91	227.23	774.00	221.91	674.89	274.23	762.80									76.49	717.05
07-Jun-91	227.62	773.61	223.25	673.55	274.33	762.70									77.97	715.57
21-Jun-91	229.75	771.48	223.80	673.00	274.28	762.75									78.35	715.19
05-Jul-91	230.91	770.32	226.07	670.73	274.13	762.90									163.00	630.54
19-Jul-91	233.13	768.10	225.54	671.26	274.83	762.20									81.88	711.66
02-Aug-91	231.99	769.24	227.99	668.81	274.25	762.78							48.84	771.31	162.79	630.75
15-Aug-91	234.44	766.79	228.41	668.39	274.28	762.75									163.01	630.53
28-Aug-91	236.18	765.05														
04-Sep-91	236.84	764.39	229.24	667.56	274.37	762.66									163.31	630.23
20-Sep-91	238.25	762.98	229.79	667.01	274.25	762.78									163.03	630.51
08-Oct-91	236.68	764.55	230.18	666.62	274.61	762.42									163.00	630.54
17-Oct-91	235.48	765.75	230.73	666.07	274.66	762.37									163.00	630.54
04-Nov-91	233.38	767.85	229.89	666.91	274.69	762.34							48.25	771.90	80.17	713.37
20-Nov-91	230.80	770.43	226.85	669.95	274.48	762.55							45.93	774.22	78.37	715.17
04-Dec-91	228.67	772.56	225.62	671.18	274.38	762.65							44.08	776.07	77.50	716.04
23-Dec-91	226.56	774.67	224.95	671.85	274.62	762.41							42.29	777.86	77.13	716.41
06-Jan-92	225.14	776.09	224.30	672.50	274.15	762.88							41.07	779.08	76.13	717.41
21-Jan-92	223.94	777.29	223.78	673.02	274.54	762.49							40.06	780.09	76.58	716.96
04-Feb-92	222.89	778.34	223.51	673.29	274.49	762.54									76.11	717.43
18-Feb-92	221.84	779.39	223.03	673.77	274.06	762.97							40.67	779.48	75.95	717.59
26-Feb-92	221.75	779.48	223.24	673.56	274.87	762.16										
03-Mar-92	221.10	780.13	222.56	674.24	274.12	762.91							38.59	781.56	75.56	717.98
17-Mar-92	220.91	780.32	222.46	674.34	274.19	762.84							33.91	786.24	75.56	717.98
30-Mar-92	220.51	780.72	222.31	674.49	274.35	762.68							37.29	782.86	76.10	717.44
13-Apr-92	223.26	777.97	223.27	673.53	274.12	762.91							40.67	779.48	78.98	714.56
27-Apr-92	223.05	778.18	223.51	673.29	274.30	762.73							78.79	741.36	163.27	630.27
11-May-92	224.35	776.88	225.85	670.95	274.37	762.66							40.67	779.48	163.27	630.27
19-May-92	225.37	775.86	226.33	670.47	273.97	763.06										
26-May-92	226.15	775.08	226.64	670.16	274.11	762.92							44.14	776.01	163.00	630.54
08-Jun-92	228.18	773.05	227.16	669.64	274.05	762.98							79.36	740.79	163.04	630.50
01-Sep-92	239.71	761.52	230.78	666.02	274.49	762.54										
22-Dec-92	228.64	772.59	225.15	671.65												
11-Mar-93	222.96	778.27	223.39	673.41	275.27	761.76										
27-May-93	223.17	778.06	226.61	670.19	274.88	762.15										
25-Aug-93	236.21	765.02	228.97	667.83	275.30	761.73										
21-Dec-93	228.71	772.52	224.71	672.09	275.57	761.46	228.25	774.55	179.07	774.50	179.15	774.42				
30-Mar-94	225.08	776.15	223.50	673.30	276.56	760.47	226.35	776.45	179.30	774.27	176.16	777.41				
15-Jun-94	232.45	768.78	226.16	670.64	275.63	761.40	237.51	765.29	179.61	773.96	189.64	763.93				
22-Sep-94			228.61	668.19	276.29	760.74	250.37	752.43	180.78	772.79	205.49	748.08				
13-Dec-94	236.71	764.52	225.08	671.72	276.66	760.37	236.40	766.40	180.44	773.13	186.06	767.51				
27-Mar-95	229.22	772.01	223.92	672.88	277.33	759.70	232.37	770.43	180.12	773.45	186.05	767.52				
08-Jun-95	231.92	769.31			276.96	760.07	236.31	766.49	180.28	773.29	189.35	764.22				
15-Jun-95			225.39	671.41												
21-Aug-95	242.69	758.54	227.12	669.68	277.12	759.91	249.47	753.33	180.62	772.95	204.27	749.30				
19-Dec-95	231.60	769.63	224.08	672.72	277.70	759.33	231.60	771.20	179.97	773.60	181.60	771.97				
13-Mar-96	226.22	775.01	222.14	674.66	277.55	759.48	226.78	776.02	179.56	774.01	177.05	776.52				
29-May-96	230.34	770.89	223.47	673.33	277.18	759.85	234.60	768.20	179.98	773.59	187.67	765.90				

Appendix F. Well Survey and Water Level Data

Closed Snipes Mountain Landfill

	SMW-1		SMW-2		SMW-3		SMW-4		SMW-5s (Shallow)		SMW-5d (Deep)		30E1 (DNR)		31D1 (Newhouse)	
01-Aug-96	241.40	759.83	225.27	671.53	277.09	759.94	249.81	752.99	180.49	773.08	205.35	748.22				
17-Dec-96	233.29	767.94	224.13	672.67	278.60	758.43	233.31	769.49	180.09	773.48	183.28	770.29				
25-Feb-97	227.24	773.99	221.94	674.86	277.64	759.39	227.86	774.94	179.04	774.53	178.13	775.44				
15-May-97	231.34	769.89	223.19	673.61	277.20	759.83	238.41	764.39	179.53	774.04	194.74	758.83				
08-Jul-97	237.55	763.68	224.70	672.10	277.11	759.92	244.93	757.87	179.83	773.74	200.49	753.08				
04-Dec-97	233.62	767.61	223.10	673.70	277.66	759.37	233.73	769.07	180.77	772.80	183.43	770.14				
25-Feb-98	226.68	774.55	221.53	675.27	277.18	759.85	227.24	775.56	179.31	774.26	177.44	776.13				
03-Jun-98	229.65	771.58	221.56	675.24	276.83	760.20	231.53	771.27	179.78	773.79	181.97	771.60				
09-Dec-98	236.03	765.20	224.04	672.76	278.20	758.83	235.86	766.94	180.54	773.03	185.45	768.12				
27-May-99	231.53	769.70	223.91	672.89	277.32	759.71	237.29	765.51	180.23	773.34	192.67	760.90				
28-Sep-99	245.32	755.91	225.64	671.16	278.08	758.95	248.41	754.39	180.88	772.69	199.8	753.77				
15-Dec-99	234.04	767.19	223.26	673.54	277.62	759.41	233.83	768.97	183.51	770.06	180.3	773.27				
14-Jun-00	231.99	769.24	222.18	674.62	277.65	759.38	236.57	766.23	179.62	773.95	190.69	762.88				
6-Dec-00	234.41	766.82	220.72	676.08	277.55	759.48	234.89	767.91	180.15	773.42	184.18	769.39				
6-Jun-01	233.51	767.72	220.11	676.69	277.38	759.65	237.07	765.73	180.49	773.08	187.13	766.44				
11-Dec-01	235.60	765.63	220.25	676.55	278.42	758.61	236.08	766.72	180.83	772.74	185.79	767.78				
3-Jul-02	234.40	766.83	219.35	677.45	278.15	758.88	240.90	761.90	181.00	772.57	196.65	756.92				
11-Dec-02	234.35	766.88	219.62	677.18	278.74	758.29	234.80	768.00	180.72	772.85	184.57	769.00				
18-Jul-03	241.70	759.53	220.00	676.80	280.00	757.03	245.55	757.25	182.00	771.57	195.15	758.42				
11-Dec-03	239.95	761.28	219.75	677.05	280.71	756.32	239.25	763.55	181.96	771.61	188.39	765.18				
23-Jun-04	234.75	766.48	219.15	677.65	280.71	756.32	240.59	762.21	181.52	772.05	196.73	756.84				
14-Dec-04	234.38	766.85	219.15	677.65	281.75	755.28	234.41	768.39	181.62	771.95	184.00	769.57				
15-Jun-05	236.71	764.52	221.57	675.23	281.40	755.63	243.41	759.39	181.38	772.19	200.40	753.17				
12-Jan-06	234.94	766.29	219.47	677.33	282.65	754.38	235.16	767.64	181.84	771.73	184.83	768.74				
29-Jun-06	239.10	762.13	219.58	677.22	283.09	753.94	246.60	756.20	181.67	771.90	198.69	754.88				
13-Dec-06	232.74	768.49	219.28	677.52	283.35	753.68	237.61	765.19	181.37	772.20	186.85	766.72				
27-Jun-07	238.97	762.26	219.36	677.44	283.20	753.83	253.30	749.50	181.08	772.49	198.49	755.08				
11-Dec-07	237.57	763.66	219.63	677.17	284.01	753.02	237.78	765.02	181.18	772.39	187.10	766.47				
25-Jun-08	237.70	763.53	220.35	676.45	283.73	753.30	243.63	759.17	181.29	772.28	201.15	752.42				
9-Dec-08	237.03	764.20	220.45	676.35	284.21	752.82	237.30	765.50	181.50	772.07	186.83	766.74				
17-Jun-09	236.18	765.05	219.11	677.69	283.14	753.89	242.67	760.13	181.12	772.45	200.01	753.56				
15-Sep-09								181.74	771.83							
1-Dec-09	237.49	763.74	220.44	676.36	283.68	753.35	242.30	760.50	181.47	772.10	193.14	760.43				
22-Jun-10	233.88	767.35	219.50	677.30	283.92	753.11	237.05	765.75	180.88	772.69	187.66	765.91				
26-Jul-10								181.12	772.45							
7-Dec-10	234.79	766.44	219.02	677.78	283.09	753.94	235.14	767.66	180.92	772.65	184.58	768.99				
29-Jun-11	233.62	767.61	218.86	677.94	282.08	754.95	238.58	764.22	180.75	772.82	192.69	760.88				
13-Dec-11	233.03	768.20	218.50	715.30	282.50	754.53	233.63	769.17	180.98	772.59	183.12	770.45				
13-Jun-12	233.16	768.07	219.22	677.58	282.05	754.98	239.15	763.65	180.85	772.72	195.55	758.02				
5-Dec-12	234.45	766.78	219.52	677.28	282.56	754.47	234.52	768.28	181.12	772.45	183.68	769.89				
12-Jun-13	232.00	769.23	219.50	677.30	282.10	754.93	237.90	764.90	180.85	772.72	190.00	763.57				
2-Dec-13	234.62	766.61	219.22	677.58	282.18	754.85	235.02	767.78	181.12	772.45	184.43	769.14				
17-Jun-14	235.64	765.59	219.52	677.28	281.56	755.47	239.17	763.63	181.26	772.31	212.91	740.66				
17-Jul-14	240.67	760.56					247.50	755.30	181.43	772.14	204.90	748.67				
10-Nov-14	238.00	763.23					238.32	764.48	182.29	771.28	187.31	766.26				
2-Dec-14	235.13	766.10	219.49	677.31	282.10	754.93	235.43	767.37	182.15	771.42	184.94	768.63				
23-Jun-15	240.42	760.81	219.52	677.28	281.74	755.29			182.60	770.97	199.83	753.74				
1-Dec-15	240.20	761.03	220.00	676.80	282.65	754.38			183.87	769.70	189.46	764.11				
30-Mar-16	230.14	771.09														
15-Jun-16	239.27	761.96	219.59	677.21	282.51	754.52			182.62	770.95	197.24	756.33				
7-Sep-16	245.00	756.23					250.09	752.71	183.69	769.88	198.17	755.40				
14-Dec-16	234.66	766.57	220.00	676.80	283.32	753.71			182.61	770.96	184.23	769.34				
6-Jun-17	230.60	770.63	219.22	677.58	282.63	754.40			181.32	772.25	182.71	770.86				
5-Dec-17	232.76	768.47	219.69	677.11	283.02	754.01	233.03	769.77	182.35	771.22	182.62	770.95				
26-Jun-18	244.04	757.19	219.43	677.37	282.13	754.90	238.64	764.16	181.66	771.91	191.24	762.33				
12-Dec-18	234.64	766.59	219.22	677.58	282.52	754.51	233.05	769.75	181.79	771.78	182.44	771.13				
12-Jun-19	230.60	770.63	219.73	677.07	292.84	744.19	234.35	768.45	181.09	772.48	194.72	758.85				
12-Dec-19	231.87	769.36	218.86	677.94	282.09	754.94	232.48	770.32	182.15	771.42	181.45	772.12				
9-Jun-20	233.91	767.32	219.82	676.98	282.52	754.51	237.12	765.68	182.30	771.27	187.47	766.10				
29-Dec-20	233.48	767.75	219.70	677.10	281.99	755.04	233.23	769.57	182.64	770.93	183.74	769.83				
2-Jun-21	233.12	768.11	219.80	677.00	281.70	755.33	238.58	764.22	182.18	771.39	195.04	758.53				
8-Dec-21	235.42	765.81	219.09	677.71	282.56	754.47	235.03	767.77	181.51	772.06	184.60	768.97				
29-Nov-22	237.37	763.86	219.33	677.47	282.51	754.52	237.70	765.10	182.41	771.16	186.97	766.60				
10-Jan-23	NT		NT		NT		233.32	769.48	181.90	771.67	183.12	770.45				
23-May-23	231.26	769.97	219.98	676.82	282.48	754.55	235.38	767.42	181.77	771.80	191.85	761.72				
5-Dec-23	236.95	764.28	210.05	686.75	282.14	754.89	236.70	766.10	182.68	770.89	186.01	767.56				

TOSM = Top of Steel Casing Monument.

DTW = Depth to Water.

PSE = Potentiometric Surface Elevation (MSL).

NT = Not Taken.

Appendix G. Well Construction Details

Project: Snipes Mountain Landfill
Consulting Firm: Parametrix, Inc.

Casing Type: 2" Diameter Stainless Steel — Well (+ 2 to 243 ft)
 3/4" Diameter Schedule 80 PVC — Sounding Tube
 Joint Type: Flush Threaded S.S. & PVC
 Screen Type: Wire Wrapped S.S. (243 to 248 ft)
 Slot Size: 0.020 Inch
 Seal Type: Bentonite #8 & Chip
 Installation Method: Tremie
 Filter: #8-12 Silica Sand (240 to 250 ft)
 Installation Method: Tremie
 Grout: Concrete (0 to 10 ft)

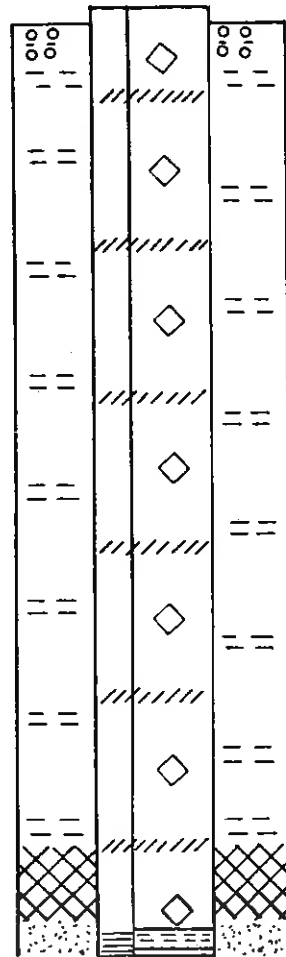
Location: NW1/4 SW1/4 Sec 30 T10N R22E
 Start Card No: 34514

Drilling Method: Air Rotary
 Sampling Method: 5 ft Cuttings Grab
 Rep: C. Nadler — PMX
 Drilling Contractor: Bach Drilling
 Driller: A. McCorkindale
 Water Level: 232' 231.5' 231 ±'
 Time: 1420 1140 1020
 Date: 08/02/89 08/10/89 08/29/89
 Datum: BGS BGS BGS
 Ground Elevation: 998.83 Feet

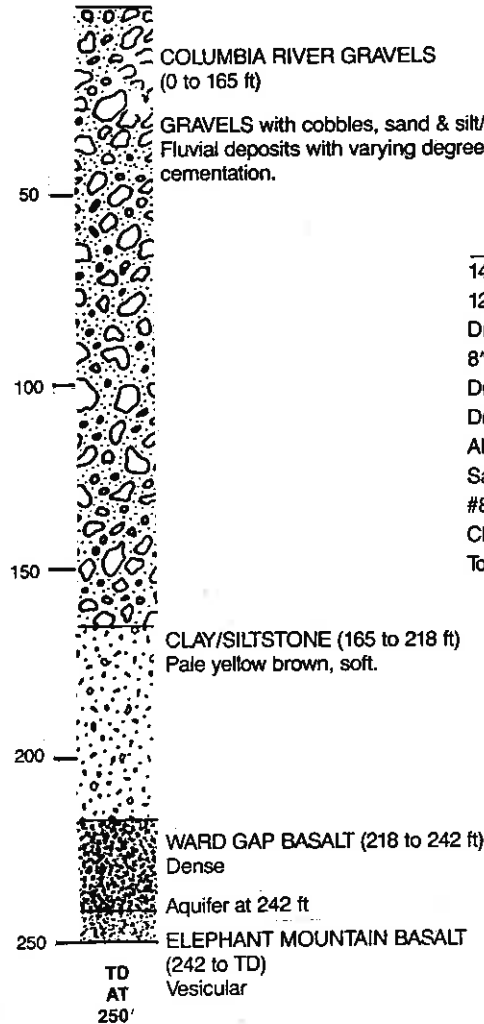
Wells Details

Depth

Log Description



Graphic Log



Notes

14" Diameter Boring 0 to 20 ft
 12" Diameter Casing 0 to 20 ft
 Drill & Drive 8" Diameter Casing 20 to 180 ft
 8" Diameter Boring 180 to 250 ft
 Drill with Water 0 to 240 ft
 Drill without Water 240 to 250 ft
 Alignment Test Positive (6" Diameter x 20' Casing)
 Sample Pump Set at 240 ft
 #8 Bentonite: 128 - 50 lb Sacks
 Chip Bentonite: 11 - 50 lb Sacks
 Total Annular Seal: 139 - 50 lb Sacks

	Start	Finish
Bore:	07/20/89	08/02/89
Well:	08/29/89	09/08/89

- //// S.S. Hose Clamp
- ◇ S.S. Centralizer with Nylon Strap
- == #8 Bentonite
- XXXX Bentonite Chips
- Silica Sand
- Concrete

Figure A-1
Well Installation Log
Well Number MW-1

Project: Snipes Mountain Landfill
Consulting Firm: Parametrix, Inc.

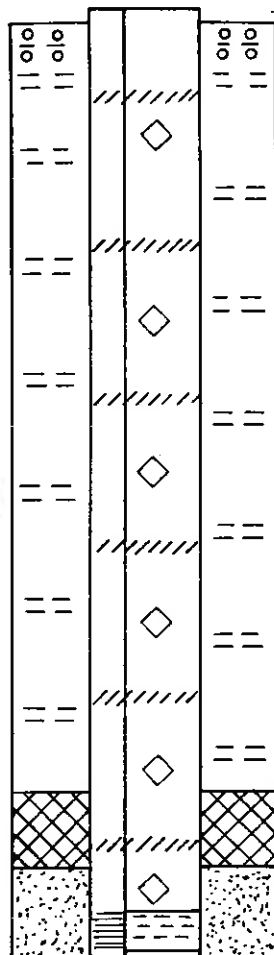
Casing Type: 2" Diameter Stainless Steel — Well (+ 2 to 238 ft)
 ¾" Diameter Schedule 80 PVC — Sounding Tube
 Joint Type: Flush Threaded S.S. & PVC
 Screen Type: Wire Wrapped S.S. (238 to 248 ft)
 Slot Size: 0.020 Inch
 Seal Type: Bentonite #8 & Chip (10 to 225 ft)
 Installation Method: Tremie
 Filter: #8-12 Silica Sand (225 to 250 ft)
 Installation Method: Tremie
 Grout: Concrete (0 to 10 ft)

Location: SW1/4 SW1/4 Sec 30 T10N R22E
 Start Card No: 34514
 Drilling Method: Air Rotary
 Sampling Method: 5 ft Cuttings Grab
 Rep: C. Nadler — PMX
 Drilling Contractor: Bach Drilling
 Driller: A. McCorkindale
 Water Level: 219.9' 219.5'
 Time: 1010 1545
 Date: 08/10/89 09/05/89
 Datum: BGS BGS
 Ground Elevation: 894.91 Feet

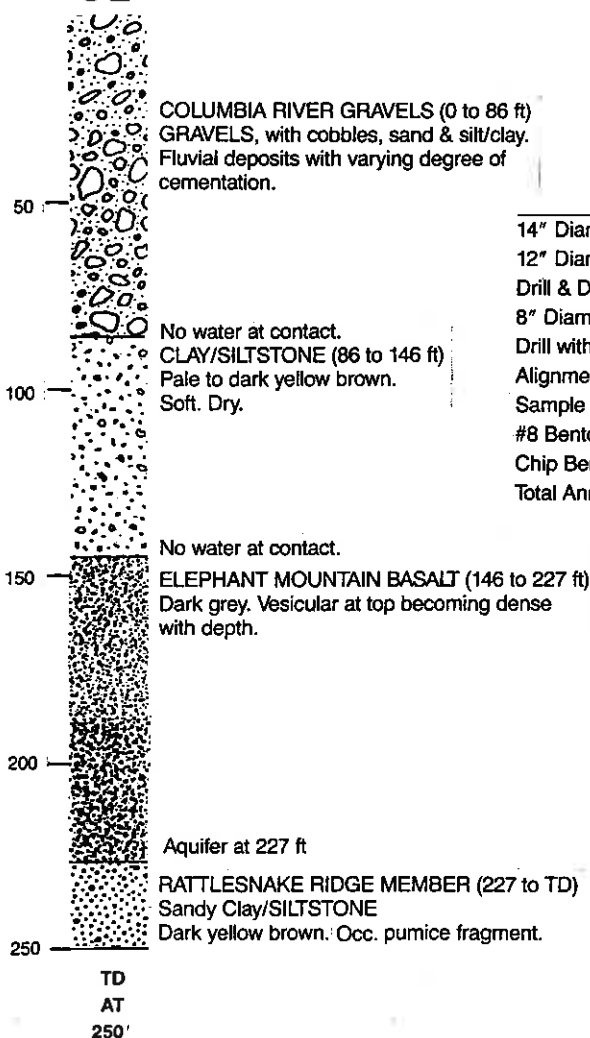
Wells Details

Depth

Log Description



Graphic Log



Notes

14" Diameter Boring 0 to 20 ft
 12" Diameter Casing 0 to 20 ft
 Drill & Drive 8" Diameter Casing 20 to 146 ft
 8" Diameter Boring 146 to 250 ft
 Drill without Water 0 to 250 ft
 Alignment Test Positive (6" Diameter x 20' Casing)
 Sample Pump at 230 ft
 #8 Bentonite: 129 - 50 lb Sacks
 Chip Bentonite: 8 - 50 lb Sacks
 Total Annular Seal: 137 - 50 lb Sacks

	Start	Finish
Bore:	08/02/89	08/10/89
Well:	09/05/89	09/08/89

- //// S.S. Hose Clamp
- ◇ S.S. Centralizer with Nylon Strap
- == #8 Bentonite
- XXXX Bentonite Chips
- Silica Sand
- ○ Concrete

Figure A-2
Well Installation Log
Well Number MW-2

Project: Snipes Mountain Landfill
Consulting Firm: Parametrix, Inc.

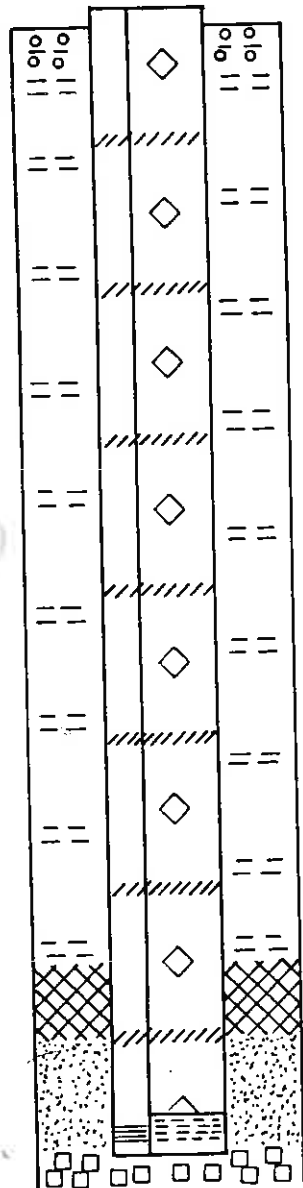
Casing Type: 2" Diameter Stainless Steel — Well (+ 2 to 289 ft)
 3/4" Diameter Schedule 80 PVC — Sounding Tube
 Joint Type: Flush Threaded S.S. & PVC
 Screen Type: Wire Wrapped S.S. (289 to 299 ft)
 Slot Size: 0.020 Inch
 Seal Type: Bentonite #8 & Chip (10 to 270 ft)
 Installation Method: Tremie
 Filter: #8-12 Silica Sand (270 to 300 ft)
 Installation Method: Tremie
 Grout: Concrete (0 to 10 ft)

Location: SW1/4 SW1/4 Sec 30 T10N R22E
 Start Card: 34514
 Drilling Method: Air Rotary
 Sampling Method: 5 ft Cuttings Grab
 Rep: C. Nadler — PMX
 Drilling Contractor: Bach Drilling
 Driller: A. McCorkindale
 Water Level: 273.8' 273.7'
 Time: 0900 0730
 Date: 08/23/89 08/25/89
 Datum: BGS BGS
 Ground Elevation: 1034.89 Feet

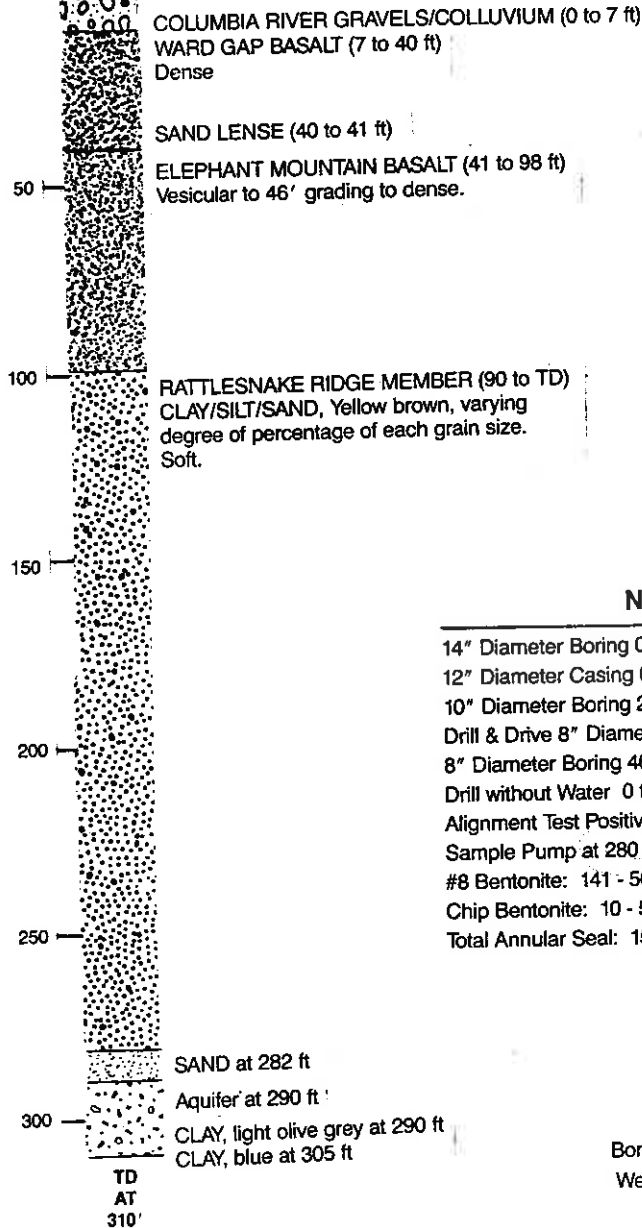
Wells Details

Depth

Log Description



Graphic Log



Notes

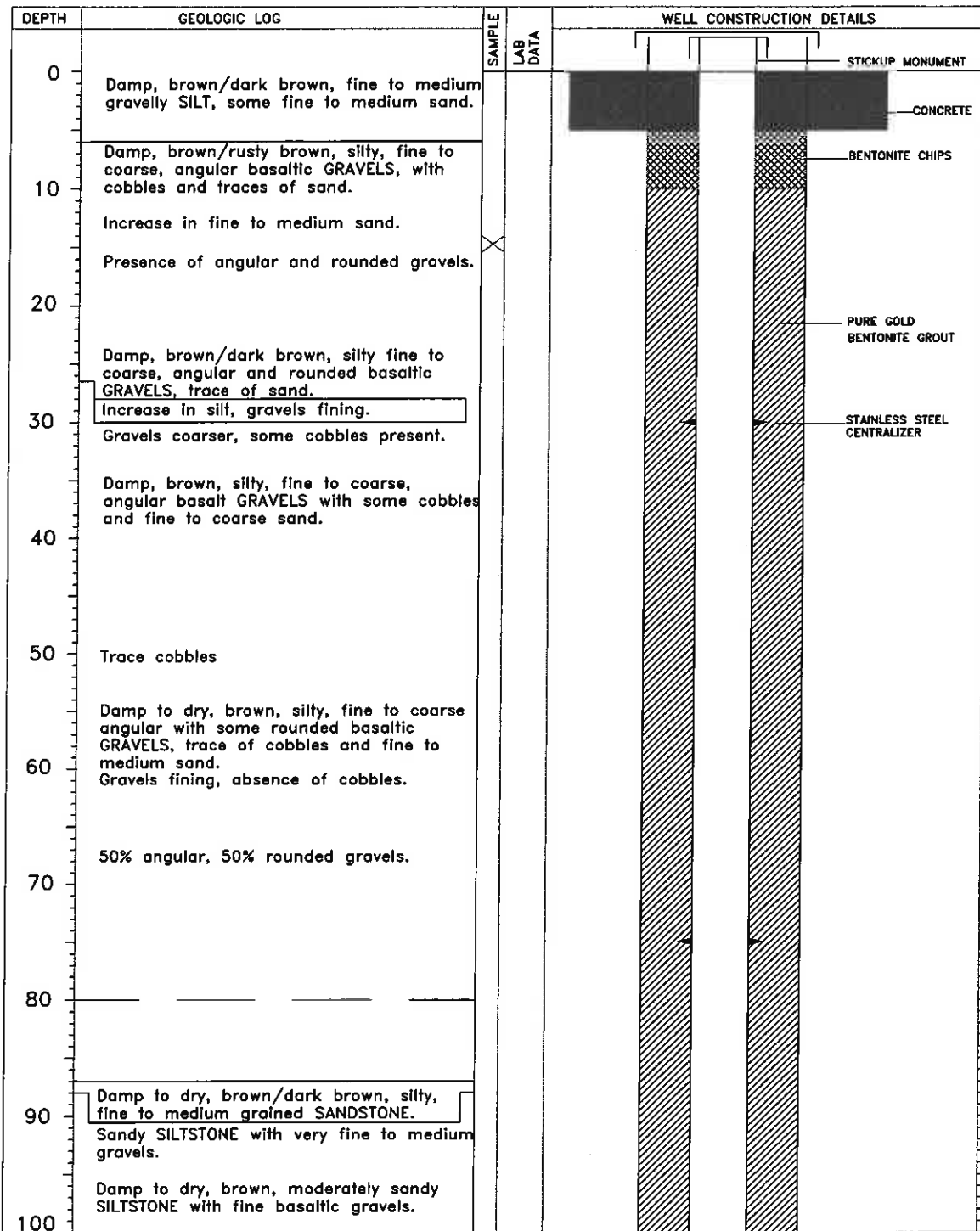
14" Diameter Boring 0 to 20 ft
 12" Diameter Casing 0 to 7 ft
 10" Diameter Boring 20 to 41 ft
 Drill & Drive 8" Diameter Casing 41 to 46 ft
 8" Diameter Boring 46 to 310 ft
 Drill without Water 0 to 310 ft
 Alignment Test Positive (6" Diameter x 20' Casing)
 Sample Pump at 280 ft
 #8 Bentonite: 141 - 50 lb Sacks
 Chip Bentonite: 10 - 50 lb Sacks
 Total Annular Seal: 151 - 50 lb Sacks

	Start	Finish
Bore:	08/15/89	08/22/89
Well:	08/23/89	08/25/89

- //// S.S. Hose Clamp
- ◇ S.S. Centralizer with Nylon Strap
- = #8 Bentonite
- XXXX Bentonite Chips
- Silica Sand
- Concrete
- Hole Collapsed

Figure A-3
Well Installation Log
Well Number MW-3

MW-4



Page 1

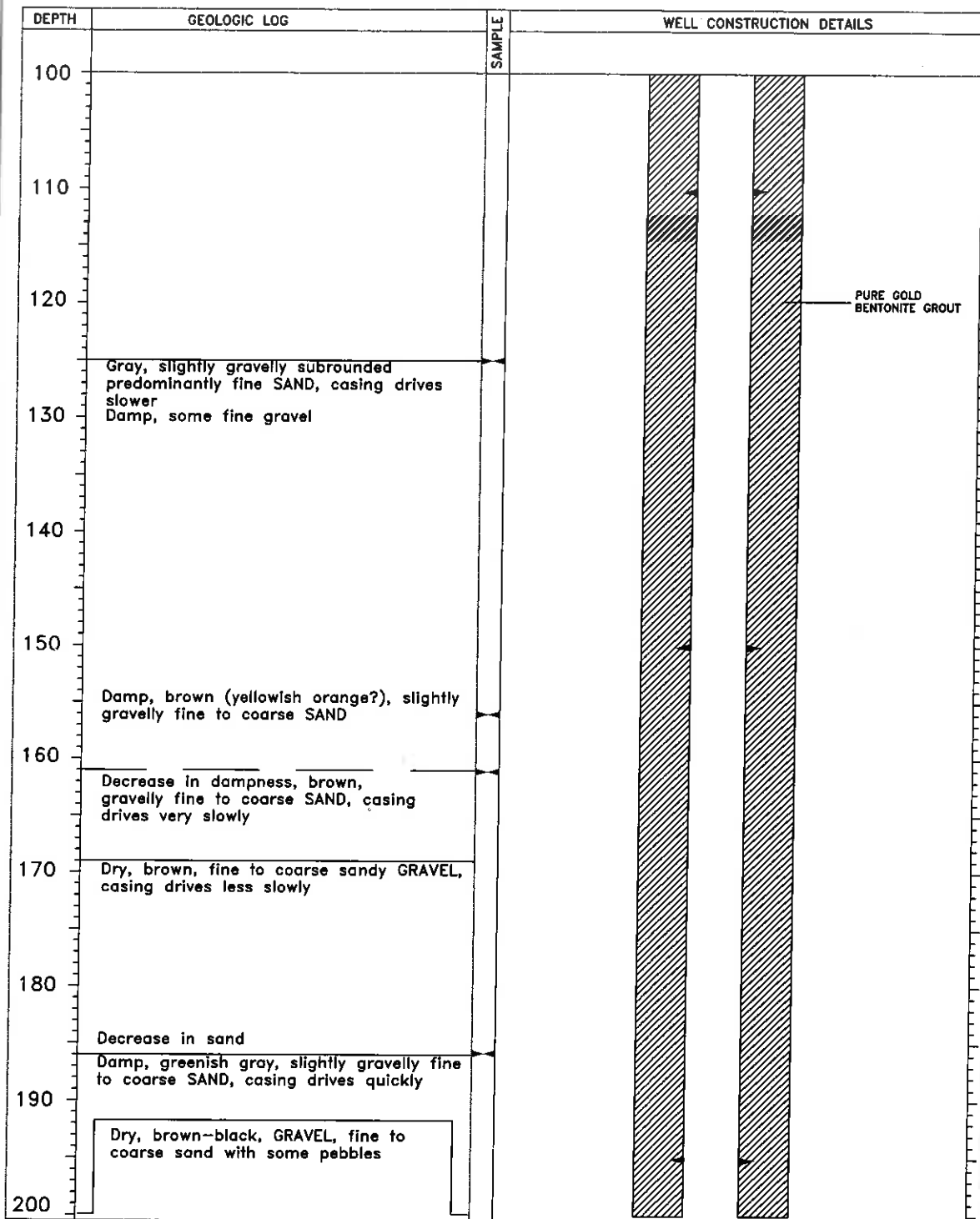
PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-4
DRILLING METHOD: Air Rotary
DRILLER: Robert Stadell
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

LOCATION: NW 1/4 NW 1/4 Sec. 30, T10N, R22E
REF. TOP OF MONUMENT, ELEVATION = 1002.80 FEET
DATUM: MSL
WATER LEVEL ELEVATION: 774.55 on 12/21/93
INSTALLED: 11/15/93 to 11/17/93
DEVELOPED: 12/7/93

FIGURE A-1



MW-4



Page 2

PROJECT NAME: Snipes Mountain Landfill
 WELL IDENTIFICATION NUMBER: MW-4
 DRILLING METHOD: Air Rotary
 DRILLER: Robert Stadelit
 FIRM: Staco Well Services, Inc.
 CONSULTING FIRM: Pacific Groundwater Group
 REPRESENTATIVE: Ali Tabaal

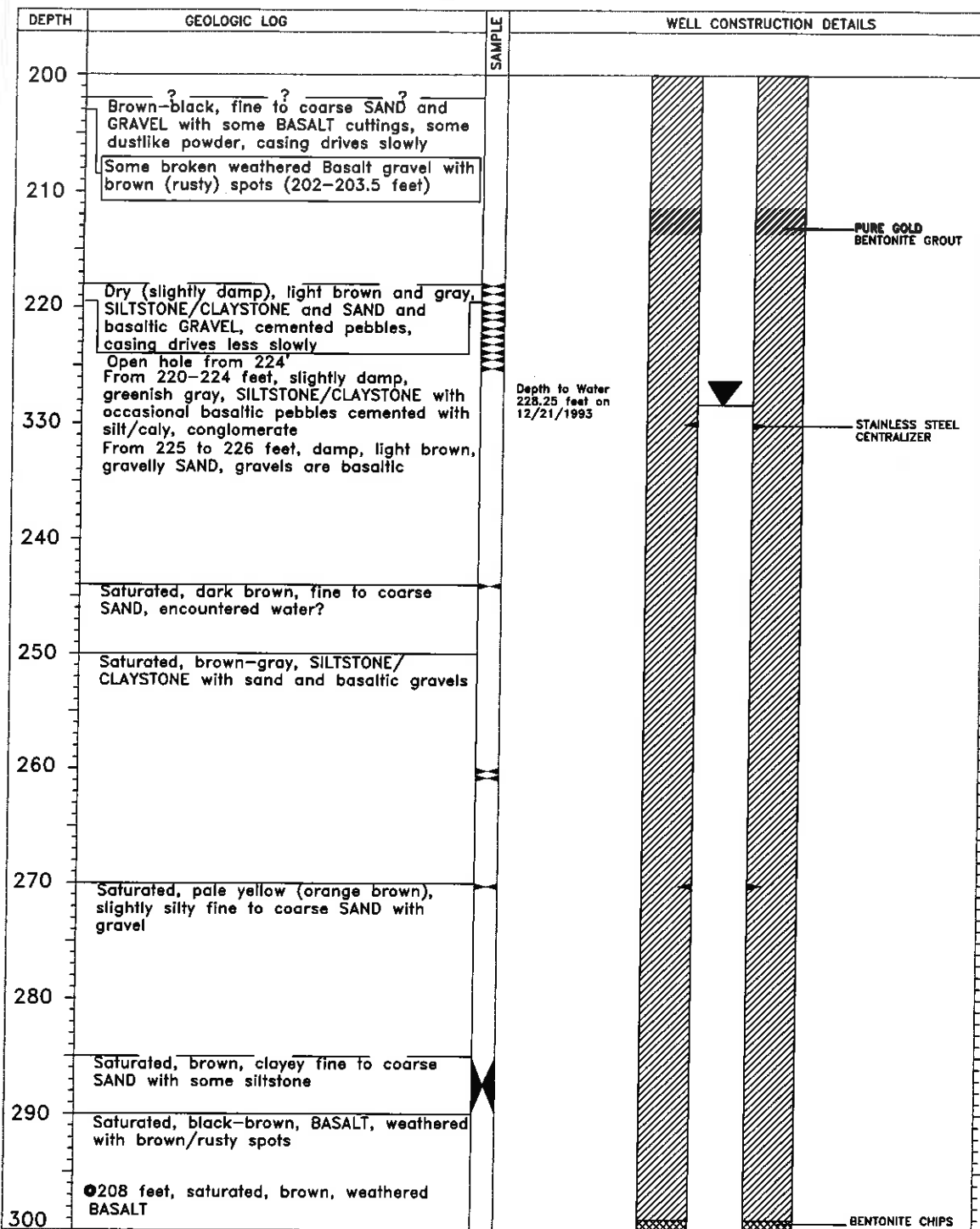
LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD
 WATER LEVEL ELEVATION: 774.55 on 12/21/93
 INSTALLED: 11/15/93 to 11/17/93
 DEVELOPED: 12/7/93

FIGURE A-1



MW-4



Page 3

FIGURE A-1

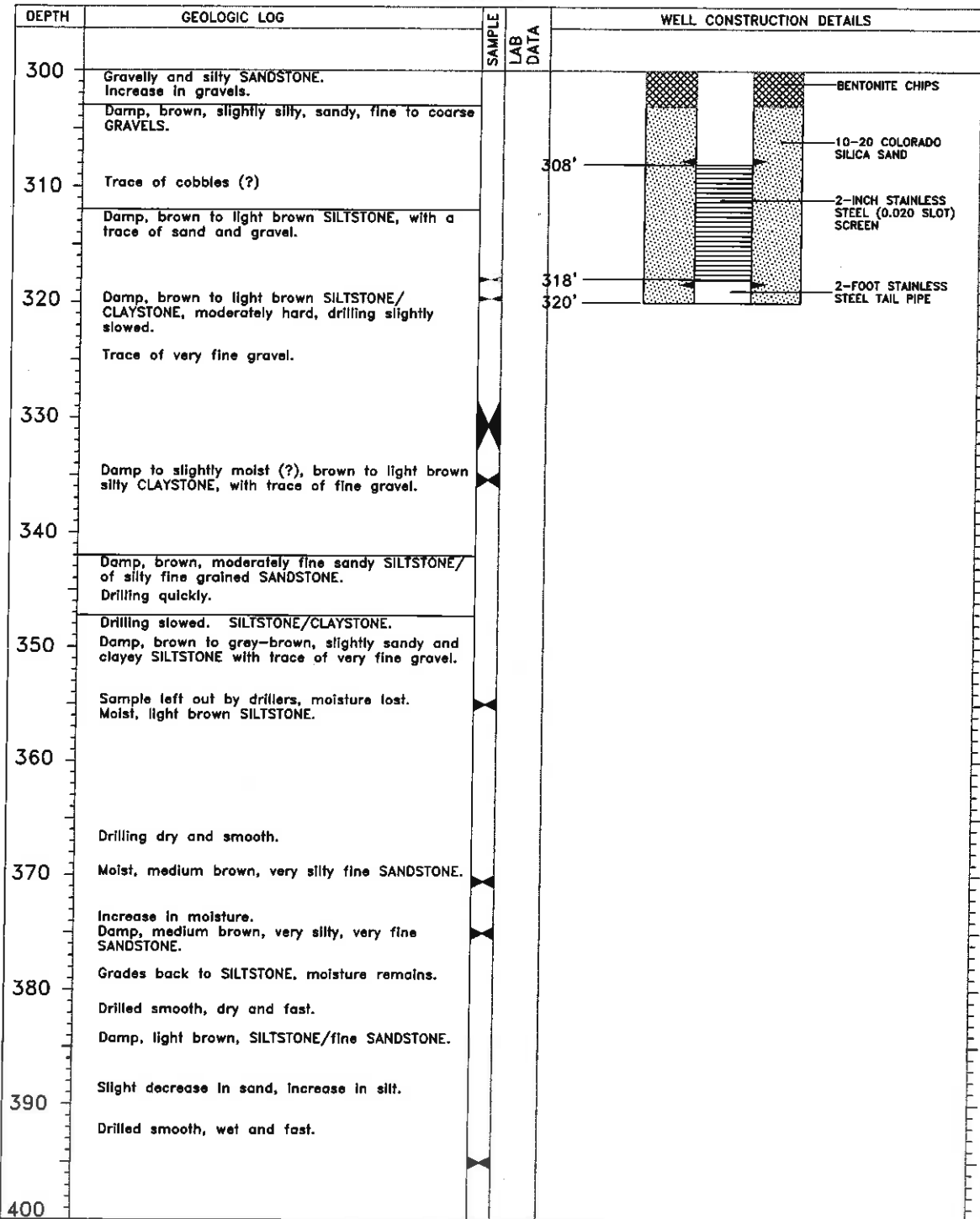
PROJECT NAME: Snipes Mountain Landfill
 WELL IDENTIFICATION NUMBER: MW-4
 DRILLING METHOD: Air Rotary
 DRILLER: Robert Stadelit/Steve Zimmerman
 FIRM: Staco Well Services, Inc.
 CONSULTING FIRM: Pacific Groundwater Group
 REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD
 WATER LEVEL ELEVATION: 774.55 on 12/21/93
 INSTALLED: 11/15/93 to 11/17/93
 DEVELOPED: 12/7/93



MW-4



Page 4

PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-4
DRILLING METHOD: Air Rotary
DRILLER: Steve Zimmerman
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

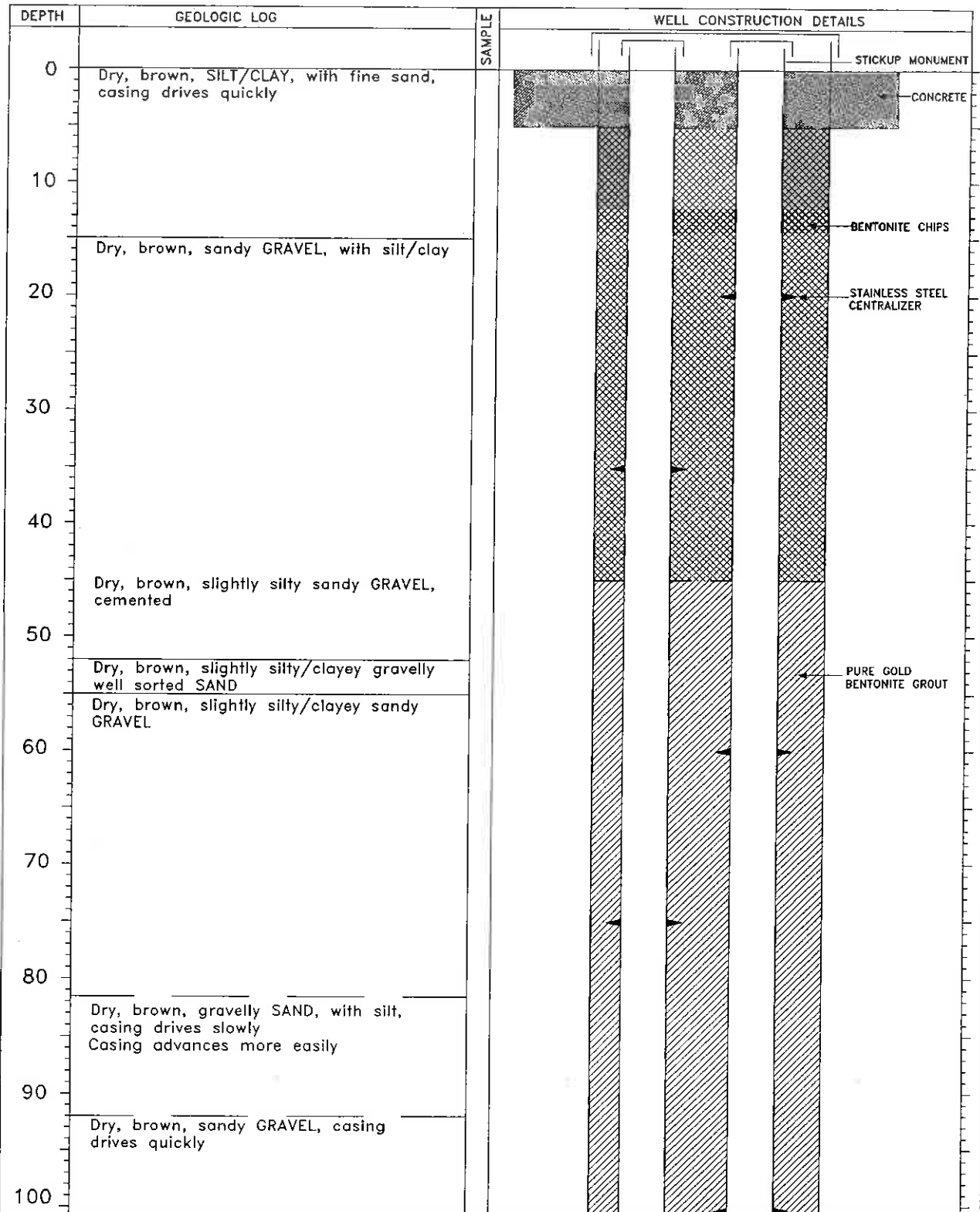
LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD
WATER LEVEL ELEVATION: 774.55 on 12/21/93
INSTALLED: 11/15/93 to 11/17/93
DEVELOPED: 12/7/93

FIGURE A-1



SNIPES MOUNTAIN LANDFILL MW-5



Page 1

► Indicates collected blown-back sample.

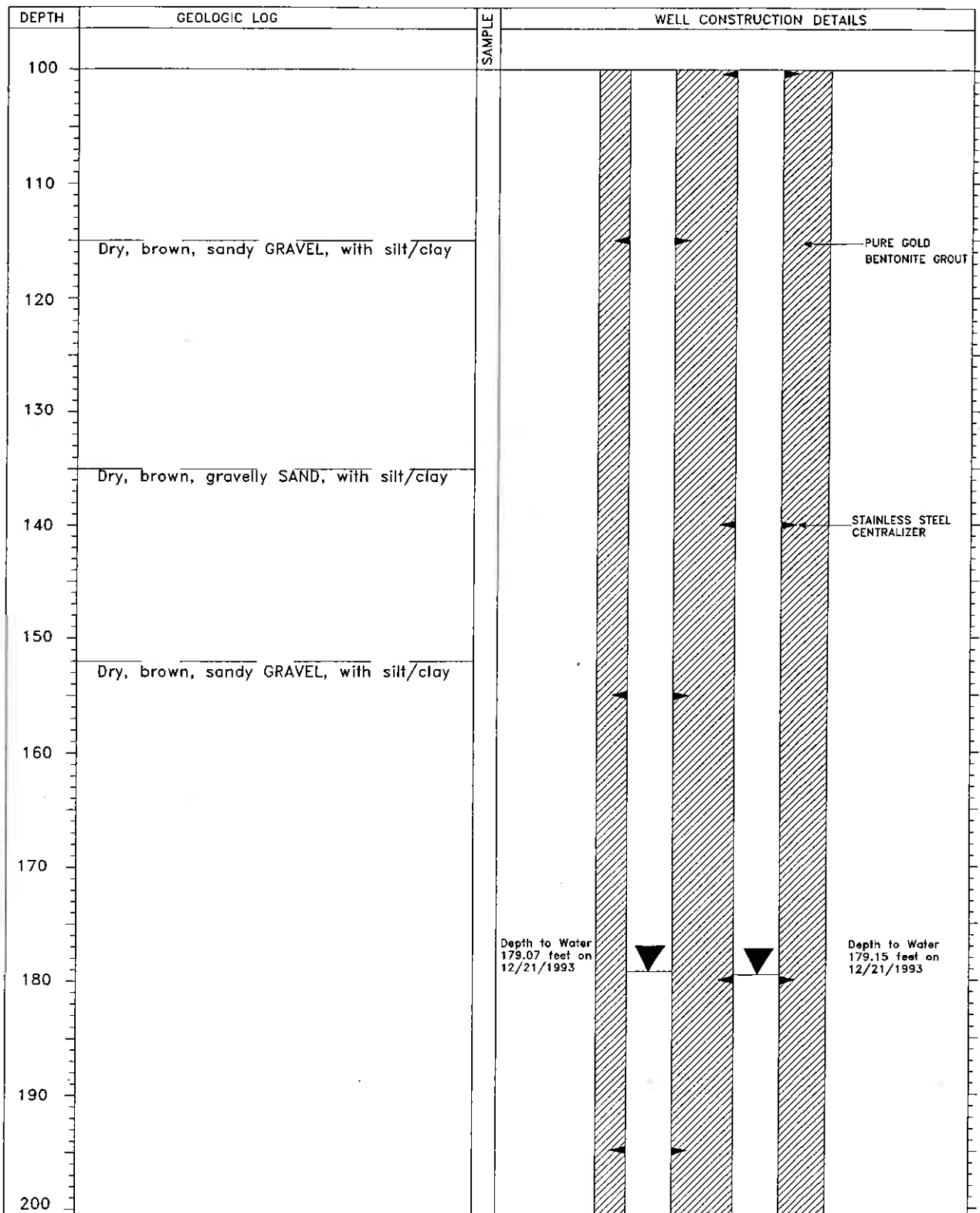
PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-5
DRILLING METHOD: Air Rotary
DRILLER: Steve Zimmerman
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E
MP: TOP OF MONUMENT, ELEVATION = 953.57 FEET
DATUM: MSL
WATER LEVEL ELEVATION:
SHALLOW: 774.50 on 12/21/93
DEEP: 774.42 on 12/21/93
INSTALLED: 11/18/93 to 12/2/93
DEVELOPED: 12/7/93 to 12/9/93

FIGURE A-2

 Pacific
Groundwater
Group

SNIPES MOUNTAIN LANDFILL MW-5



Page 2

▲ Indicates collected blown-back sample.

PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-5
DRILLING METHOD: Air Rotary
DRILLER: Steve Zimmerman
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD

WATER LEVEL ELEVATION:

SHALLOW: 774.50 on 12/21/93
DEEP: 774.42 on 12/21/93

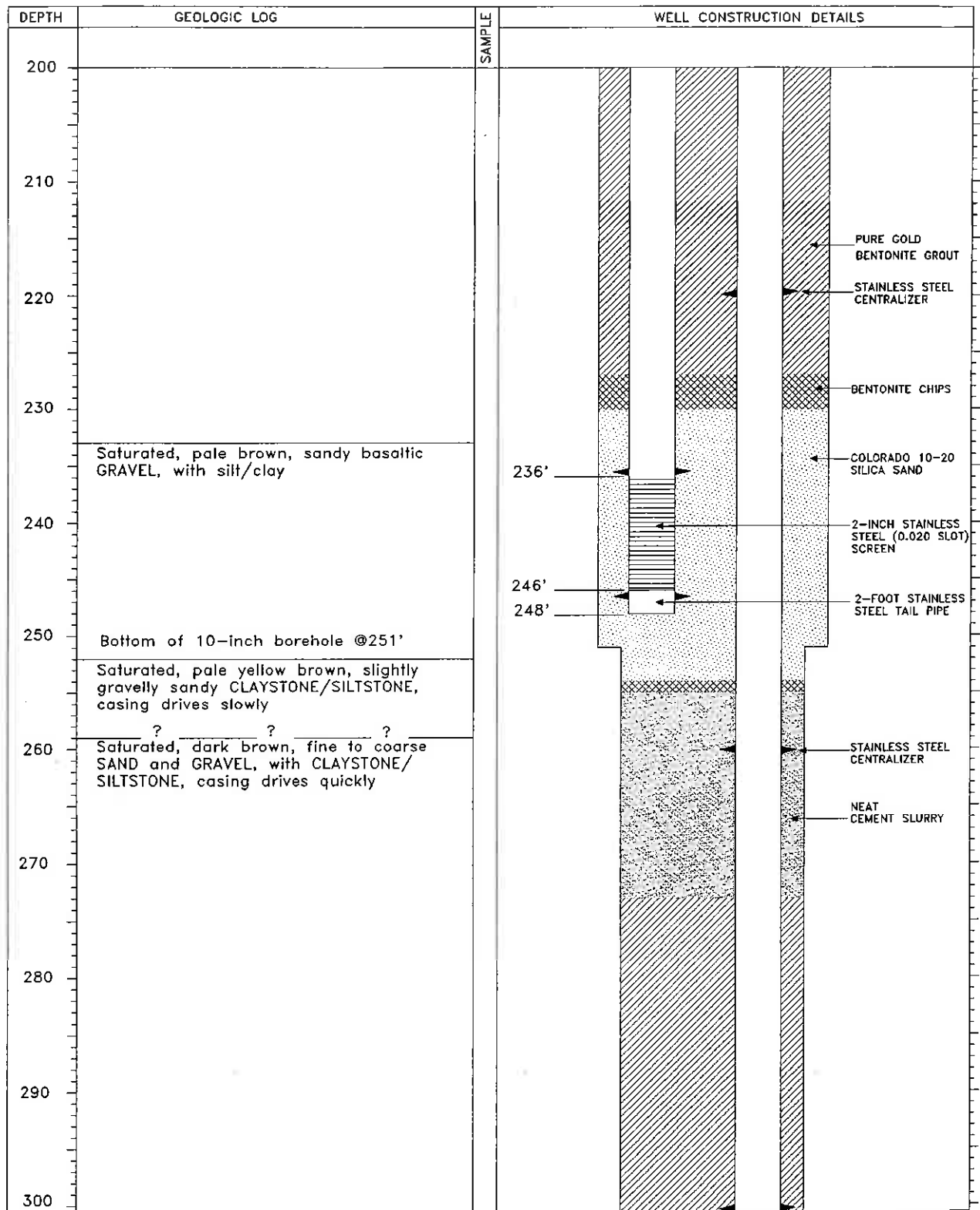
INSTALLED: 11/18/93 to 12/2/93

DEVELOPED: 12/7/93 to 12/9/93

FIGURE A-2



SNIPES MOUNTAIN LANDFILL MW-5



Page 3

► Indicates collected blown-back sample.

PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-5
DRILLING METHOD: Air Rotary
DRILLER: Driller's Name
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group, Inc.
REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD

WATER LEVEL ELEVATION:

SHALLOW: 774.50 on 12/21/93

DEEP: 774.42 on 12/21/93

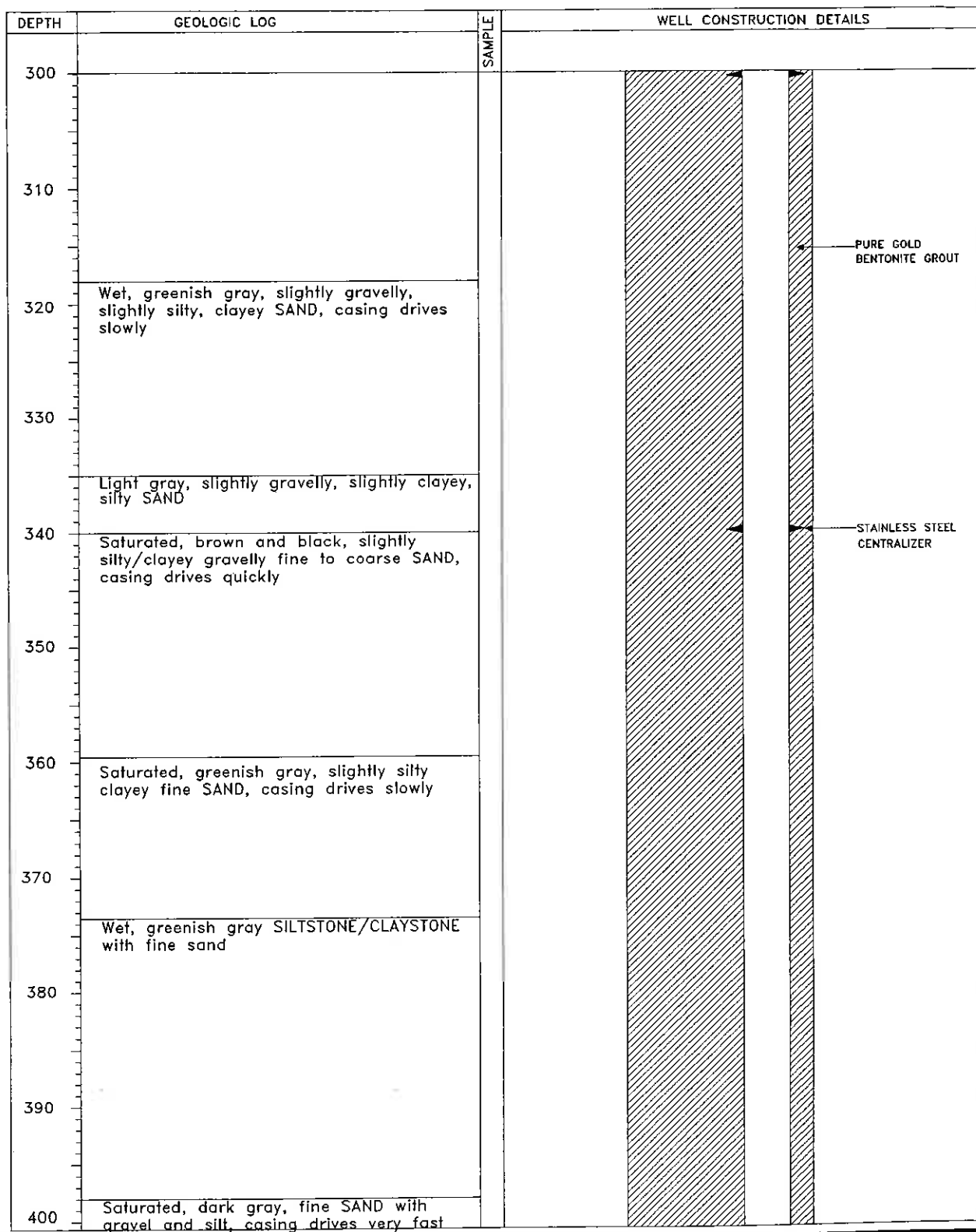
INSTALLED: 11/18/93 to 12/2/93

DEVELOPED: 12/7/93 to 12/9/93

FIGURE A-2

 Pacific Groundwater Group

SNIPES MOUNTAIN LANDFILL MW-5



Page 4

► Indicates collected blown-back sample.

PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-5
DRILLING METHOD: Air Rotary
DRILLER: Steve Zimmerman
FIRM: Staco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD

WATER LEVEL ELEVATION:

SHALLOW: 774.50 on 12/21/93

DEEP: 774.42 on 12/21/93

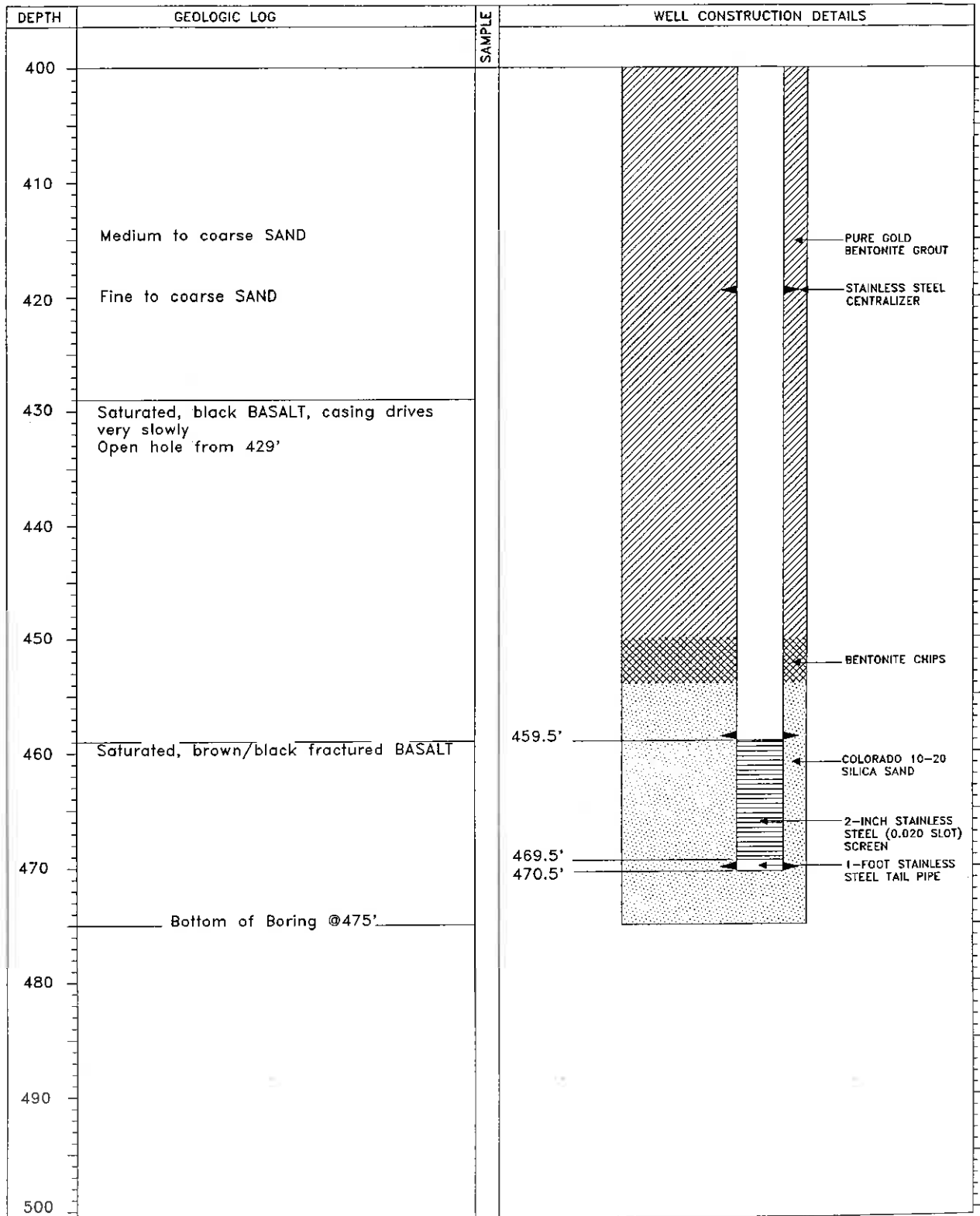
INSTALLED: 11/18/93 to 12/2/93

DEVELOPED: 12/7/93 to 12/9/93

FIGURE A-2

 Pacific Groundwater Group

SNIPES MOUNTAIN LANDFILL MW-5



Page 5

▲ Indicates collected blown-back sample.

PROJECT NAME: Snipes Mountain Landfill
WELL IDENTIFICATION NUMBER: MW-5
DRILLING METHOD: Air Rotary
DRILLER: Steve Zimmerman
FIRM: Slaco Well Services, Inc.
CONSULTING FIRM: Pacific Groundwater Group
REPRESENTATIVE: Ali Tabaei

LOCATION: NW¼ NW¼ Sec. 30, T10N, R22E

DATUM: NGVD

WATER LEVEL ELEVATION:

SHALLOW: 774.50 on 12/21/93

DEEP: 774.42 on 12/21/93

INSTALLED: 11/18/93 to 12/2/93

DEVELOPED: 12/7/93 to 12/9/93

FIGURE A-2

**Pacific
Groundwater
Group**

WATER WELL REPORT

STATE OF WASHINGTON

Permit No. 10233

1) OWNER: Name DEPT. OF NAT. RES. Address

2) LOCATION OF WELL: County GRANT YAKIMA SW 1/4, NW 1/4, Sec 30, T. 10 N., R. 22 E. and distance from section or subdivision corner 1068.44 S 76° 22' E from N 1/4 Cor on West line 30-10N-22E

10POSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

1) TYPE OF WORK: Owner's number of well (if more than one) New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☒ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐

5) DIMENSIONS: Diameter of well 16x12 inches. Drilled 885 ft. Depth of completed well 885 ft.

6) CONSTRUCTION DETAILS: Casing installed: 16" Diam. from +2 ft. to 210 ft. Threaded ☐ 12" Diam. from 201 ft. to 771 ft. Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒ Type of perforator used SIZE of perforations in. by in. perforations from ft. to ft. perforations from ft. to ft. perforations from ft. to ft.

Screens: Yes ☐ No ☒ Manufacturer's Name Type Model No. Diam. Slot size from ft. to ft. Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 55 ft. Material used in seal bentonite Did any strata contain unusable water? Yes ☐ No ☒ Type of water? Depth of strata Method of sealing strata off

PUMP: Manufacturer's Name Type: HP

7) WATER LEVELS: Land-surface elevation above mean sea level 826 ft. Static level 293 ft. below top of well Date 6-28-75 Artesian pressure lbs. per square inch Date Artesian water is controlled by (Cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level Is a pump test made? Yes ☒ No ☐ If yes, by whom? Fosseens Rate 900 gal/min. with 10 ft. drawdown after 42 hrs. 1450 " 36 " 7 " 1450 " 44 " 10 "

Time	Water Level	Time	Water Level	Time	Water Level
2:00	76	12:01	30	12:02	36
12:05	37	12:09	57		

Time of test 6-3-75 Rate 100 gal/min. with no ft. drawdown after 1 hrs. Maximum flow g.p.m. Date temperature of water 69 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG: Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Fill	0	8
Clay, sandy, tan	8	27
Conglomerate, tan	27	31
Sand, brownish, med. to fine, s. gra	43	55
Sand, brown, loose, water	55	67
Conglomerate, tan	67	148
Gravel, sand, silt, tan, loose	148	170
Cong. tan, firm	170	202
Cong. yellowish tan, clean, water	202	208
Cong. tan, heavy silt, sandy	208	220
Cong. tan heavy silt, loose	220	225
Cong. tan silted	225	233
Gravel, sand, silt, loose	233	263
Cong. tan, gray	263	304
Cong. blue gray, small gravel	304	334
Clay, blue, sticky	334	338
Cong. blue gray, some water	338	347
Cong. blue gray, sandy, silty	347	360
Cong. gray, firm	360	412
Sand, gray, soft, no water, silted	412	442
Clay, light green, sticky	442	445
Sandstone, gray, little water	445	455
Sand, gray, loose, fine to med.	455	470
Clay, gray, sticky	470	474
Cong. gray	474	481
Compacted sand, silt, gray, wood, v	481	500
Cong. gray	500	551
Clay, greenish brown, sort	551	558
Cong. greenish gray	558	577
Cong. clay sand gravel, greenish	577	593
Cong. gray	593	611
Clay, green	611	622
Cong. gray	622	653
Clay, green, some sticky	653	701
Clay, gray green	701	733
Clay, gray, sandy, sticky	733	759

Work started 7-15-1974 Completed 6-20-1974

WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Cassel Well Drilling (Person, firm, or corporation) (Type or print) Address 1306 Voelker, Yakima, Wn

[Signed] [Signature] (Well Driller)

License No. 0073 Date 7-7-75 19

F. No. 7336-OS-(Rev. 4-71)

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 20070

Permit No. 10233

PAGE 2 of 2

NAME DNR Address _____

LOCATION OF WELL: County _____

and distance from section or subdivision corner _____

PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐(4) TYPE OF WORK: Owner's number of well (if more than one) _____
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐(5) DIMENSIONS: Diameter of well _____ inches.
Drilled _____ ft. Depth of completed well _____ ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Threaded ☐ _____" Diam. from _____ ft. to _____ ft.
Welded ☐ _____" Diam. from _____ ft. to _____ ft.Perforations: Yes ☐ No ☐
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.Screens: Yes ☐ No ☐
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.Gravel packed: Yes ☐ No ☐ Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.Surface seal: Yes ☐ No ☐ To what depth? _____ ft.
Material used in seal _____
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____(7) PUMP: Manufacturer's Name _____
Type: _____ HP _____(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 38 ft. below top of well Date 6-20-75
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: gal./min. with _____ ft. drawdown after _____ hrs
" " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand, gray, with brown clay lenses	739	742
Clay, gray, sticky	742	744
Sandstone, compacted sand, gray		
narrow brown clay lenses	744	752
clay, sandy, green	752	766
Basalt, black, with green clay	766	783
Basalt, black, with white clay	783	800
some water		
Basalt, black, honeycomb, water	800	811
Basalt, gray, hard	811	814
Basalt, black, seamed, water, clean	814	831
Basalt, black, very abrasive, seamed	831	836
Basalt, black, clean, fractured		
good water bearing	836	845
Basalt, black, fractured, clean,		
loosing some cuttings, water	845	850
Basalt, no cuttings, fractured,		
loose, clean good water sign	850	854
Basalt, gray, firm	854	860
Soft, multi-colored gray rock		
very clean, fractured, water	860	867
Sandstone, or compacted sand, gray		
green, with narrow gray and green		
clay lenses	867	885

Static water level after test
leveled on about 38 ft. Checked
6-20-75. Apparently developing
of a lower head aquifer during test
process toward well static.

Work started _____, 19_____. Completed _____, 19_____.

WELL DRILLER'S STATEMENT:

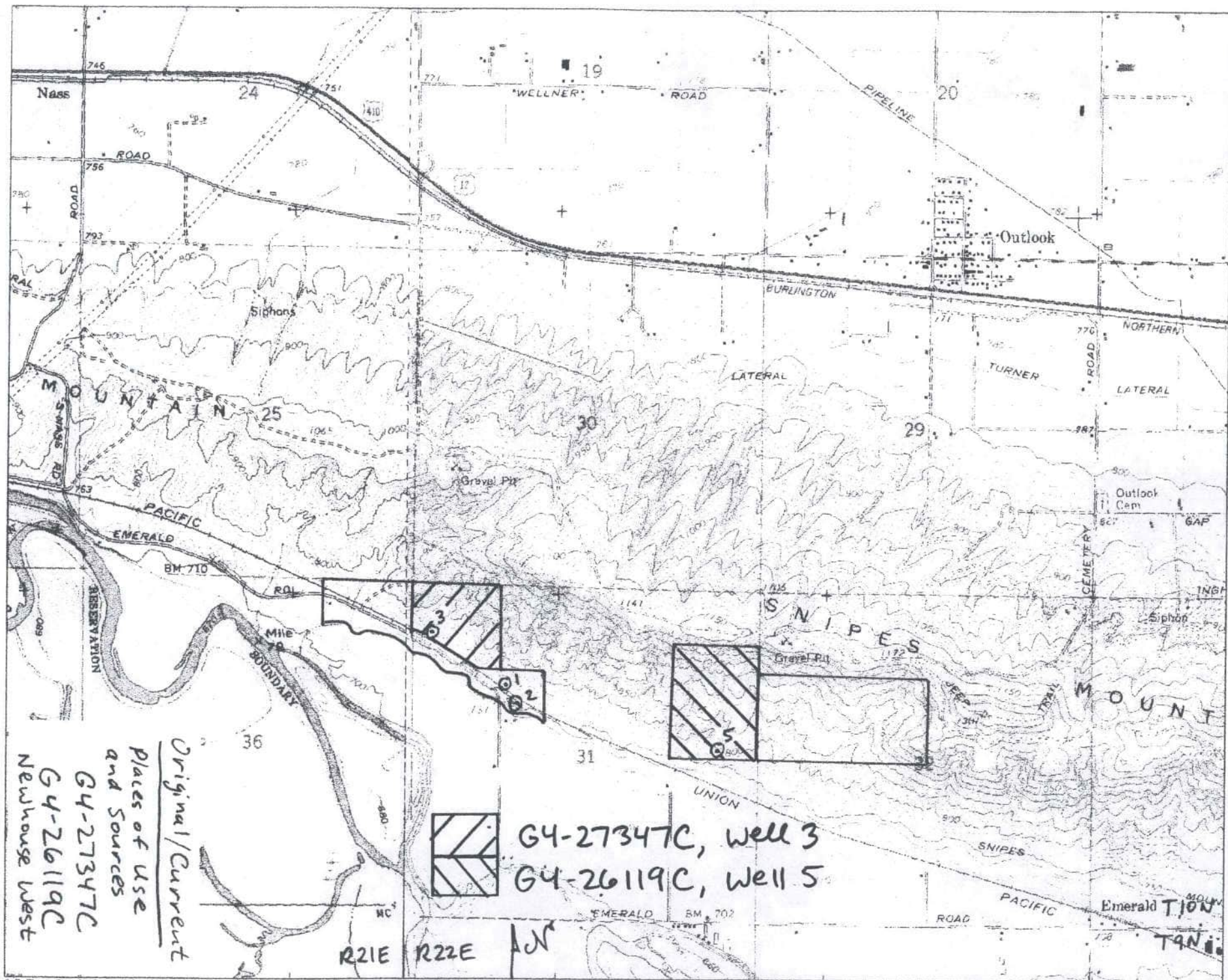
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

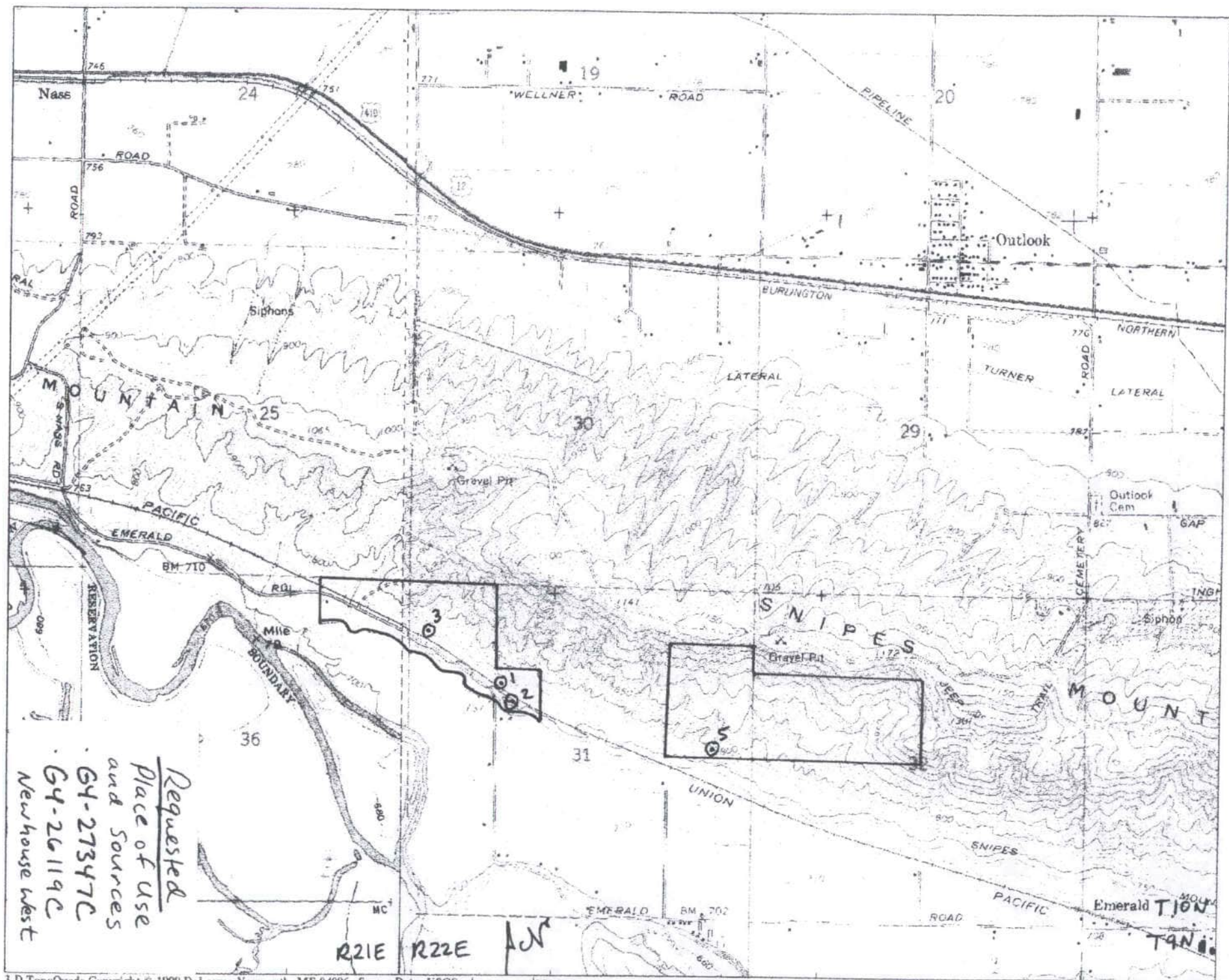
NAME _____ (Person, firm, or corporation) (Type or print)

Address _____

[Signed] Larry R. Cuss (Well Driller)

License No. _____ Date _____, 19_____.





Request Summary

Change of G4-27347C, G4-26119C

A common place of use is requested to allow an integrated system to serve the irrigation project efficiently. Shared wells are requested to allow redundant sources and flexibility of supply. These wells all withdraw from the Saddle Mountains Basalt Formation aquifer. The applicant conducted a water use study during the 2003 irrigation season, resulting in a use estimate of 14 inches for vineyard on drip irrigation and 42 inches for vineyard on sprinkler irrigation. The applicant estimates 48 inches usage on orchard, sprinkler irrigation.

The requested conversion of water savings to added acres is summarized below.

G4-27347C. Beneficial use of 34 acres orchard, sprinklers. Maximum duty limited by water right to 45.5 inches average. Water savings by conversion of 18 acres to drip irrigation. Assuming an average 14 inch water duty with conversion yields 47 af/yr in water savings. Requested for adding 24 water right acres (average duty 2 feet (24 inches) on mixed cropping). Final quantities of 58 water right acres, 129 af/yr, 300 gpm.

G4-26119C. Beneficial use of 12 acres orchard, sprinklers (48 af/yr); and 30 acres vineyard, sprinklers (105 af/yr); totaling 42 acres, 153 af/yr (not 50 acres as stated on certificate). Water savings by conversion of 30 acres to drip irrigation. Assuming an average 14 inch water duty with conversion yields 70 af/yr in savings. Requested for adding 55 water right acres (average duty 1.3 feet (15 inches) on 55 acres mixed cropping). Final quantities of 97 water right acres, 153 af/yr, 500 gpm.

Place of Use – West

G4-27347C, G4-26119C

In T. 10 N., R. 22 E.W.M.

Section 32: S1/2NW1/4.

Section 31: Portions of W1/2NW1/4 and W1/2SE1/4NW1/4 lying N of lateral;
SE1/4NE1/4 and S1/2NE1/4NE1/4 EXCEPT the N 198 feet thereof.

In T. 10 N., R. 21 E.W.M.

Section 36: NE1/4NE1/4 lying N of lateral.

Parcels: All or portions of 221032-23001; 221031-14001, 24003, 24006, 23001,
23004, 22003, 22004, 22001; 211036-11004, 11002, 12403, 11003,
11001.

Well Sources – West

Well 1: 1200 feet west and 1100 feet north of center Sec. 31,
w/in SE1/4NW1/4 Sec. 31, T. 10 N., R. 22 E.W.M.
Original source for G4-25799C (cert. not being changed).

Well 2: 1100 feet west and 800 feet north of center Sec. 31,
w/in SE1/4NW1/4 Sec. 31, T. 10 N., R. 22 E.W.M.
Added source for G4-25799C (cert. not being changed).

Well 3: 800 feet south and 300 feet east from the NW corner Sec. 31,
w/in NW1/4NW1/4 Sec. 31, T. 10 N., R. 22 E.W.M.
Original source for G4-27347C.

Well 5: 620 feet west and 50 feet north of the E1/4 corner Sec. 31,
w/in SE1/4NE1/4 Sec. 31, T. 10 N., R. 22 E.W.M.
Original source for G4-26119C.

Attachment

Change of G4-27347C and G4-26119C
Newhouse West

WATER WELL REPORT

STATE OF WASHINGTON

Application No 67-25299

Permit No

(1) OWNER Name ALFRED Newhouse Address Rt 1 Box 1164 Sunnyside, WA
(2) LOCATION OF WELL County YAKIMA Township NEW, NW Sec 31 T 12 N R 22 W
Bearing and distance from section corner 50.6 200.30 N 11.5 E OF SEC. COR. NW 1/4

(3) PROPOSED USE Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK. Own a well (if more than one) ☐ New well ☐ Bored ☐ Drilled ☐ Deepened ☐ Cable ☒ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS Diameter of well 10 inches
Drilled 400 ft. D pit completed well 400 ft.

(6) CONSTRUCTION DETAILS

Casing installed _____ Diam from _____ ft to _____ ft.
Threaded ☐ _____ Diam. from _____ ft to _____ ft.
Welded ☒ 10 _____ Diam from 0 ft to 300 ft.

Perforations. Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in by _____ in
_____ perforations from _____ ft to _____ ft
_____ perforations from _____ ft to _____ ft
_____ perforations from _____ ft to _____ ft

Screens. Yes ☐ No ☒
Manufacturer's Name _____
Type _____ M del No _____
Diam _____ Slot size _____ from _____ ft to _____ ft
Diam _____ Slot size _____ from _____ ft to _____ ft

Gravel packed Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft to _____ ft.

Surface seal. Yes ☒ No ☐ To what depth? 100 ft.
Material used in seal Pudding Clay
Did any strata contain unusual water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP Manufacturer's Name _____
Type _____ H.P. _____

(8) WATER LEVELS Land-surface elevation _____ ft
Static level 45 ft below top of well Date 6/24/78
Artesian pressure _____ lbs per square inch Date _____
Artesian water is controlled by _____ (Cap above it)

(9) WELL TESTS Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes by whom? _____
Yield _____ gal/min with _____ ft drawdown after _____ hrs

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Date of test _____
Bailer test 20 gal/min with 5 ft drawdown after 2 hrs
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG

Formation, describe by color, texture, size of material and structure and how the material is distributed, with at least one entry for each change of formation

MATERIAL	FROM	TO
Clay	0	20
Gravelly Clay	20	128
Consolidated Gravel	128	135
Blue Clay & Shale	135	330
Brown Gravel	330	355
Red Clay	355	365
Green Gravel	365	400

Work started 4/6/78 Completed 6/24/78

WELL DRILLER'S STATEMENT

This well was drilled under my direct supervision and this report is true to the best of my knowledge and belief

NAME Watkins Well Drilling Co.
(Person firm or corporation) (Type or print)

Address Rt 2 Box 24579, Renton, WA

[Signed] James L. Watkins
(Well Driller)

License No 0516 Date 7/2/78

10050515

UNIQUE WELL I.D. #

STATE OF WASHINGTON

Water Right Permit No.

(1) OWNER: Name ALFRED NEWKIRK Address EMERALD BLVD Water Right Permit No. 1

(2) LOCATION OF WELL: County Waco K 114.1

(2a) STREET ADDRESS OF WELL (or nearest address) PARCEL 24003 1/4 1/4 1/4 Sec 31 T. 10 N. R. 22 W. M.

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐
☒ Irrigation ☐ Test Well ☐ Other ☐
☐ DeWater

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

(4) TYPE OF WORK: Owner's number of well _____
(If more than one) _____

Abandoned ☐ New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☒ Rotary ☐ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 10 inch inches.
Drilled _____ feet. Depth of completed well 422 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 10" - Diam. from _____ ft. to 365 ft.
 Welded ☒ - Diam. from _____ ft. to _____ ft.
 Liner installed ☐ - Diam. from _____ ft. to _____ ft.
 Threaded ☐ - Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations _____ in. by _____ in.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 310 ft.
Material used in seal Bentinite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____

(8) **WATER LEVELS:** Land-surface elevation above mean sea level _____

Static level _____ ft. below top of well Date _____

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap. valve, etc.) _____

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs

11	12	13	14
15	16	17	18

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest _____

Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Driller operator. Ray Scammahorn
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 2771 S. L.I. Rd. Sunnyside, Wa. 98944

(Signed) [Signature] License No. 0556
(WELL DRILLER)

Contractor's
Registration
No. _____ Date _____ 19__

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

WELL 2



APPLICATION FOR PERMIT
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

☐ SURFACE WATER

☐ GROUND WATER

RECEIVED

JAN 25 1979

\$10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION
(GRAY BOXES FOR OFFICE USE ONLY)

APPLICATION NO G426119	W.R.A. 37	COUNTY Yakima	PRIORITY DATE 1-25-79	TIME	ACCEPTED MD
APPLICANT'S NAME Stephen F. + John Newhouse			BUSINESS TEL 837-3467		
ADDRESS (STREET) Rt 1 Box 1166			HOME TEL 837-3717		
CITY Sunnyside			STATE Wash.		
DATE & PLACE OF INCORPORATION IF APPLICANT IS A CORPORATION			ZIP CODE 98944		

1. SOURCE OF SUPPLY	
IF SURFACE WATER SOURCE (NAME OF STREAM, LAKE, SPRING, ETC.) (IF UNNAMED, SO STATE) TRIBUTARY	IF GROUND WATER SOURCE (WELL, TUNNEL, INFILTRATION TRENCH, ETC.) SIZE AND DEPTH 6" x 11" 10" diam, 450' Deep

2. USE			
USE TO WHICH WATER IS TO BE APPLIED (DOMESTIC SUPPLY, IRRIGATION, MINING, MANUFACTURING, ETC.) Irrigation & CONTINUOUS DOMESTIC SUPPLY			
ENTER QUANTITY OF WATER REQUESTED USING UNITS OF	CUBIC FEET PER SECOND CFS	OR	GALLONS PER MINUTE 50 gpm
		ACRE FEET PER YEAR	

TIMES DURING YEAR WATER WILL BE REQUIRED
April - May - Sept.
Continuous for domestic supply and irrigation during irrigation season

IF IRRIGATION NUMBER OF ACRES 50 ACRES	IF DOMESTIC USE NUMBER OF UNITS BY TYPE, E.G. 1-HOME, 2-CAMP SITES, ETC.	IF MUNICIPAL USE, ESTIMATED POPULATION 20 YEARS FROM TODAY
DATE PROJECT WAS OR WILL BE STARTED 2-15-79	DATE PROJECT WAS OR WILL BE COMPLETED	

3. LOCATION OF POINT OF DIVERSION/WITHDRAWAL					
3A. IF IN PLATTED PROPERTY					
LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)	SECTION	TOWN	RANGE
			37	10	22
ALSO, PLEASE ENCLOSE A COPY OF THE PLAT AND MARK THE POINT(S) OF WITHDRAWAL OR DIVERSION					

3B. IF NOT IN PLATTED PROPERTY					
ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER					
ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL					
620' west of S.E. corner of N.E. 1/4					
LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N	RANGE (E OR W) W.W.	COUNTY	
(SE 1/4 NE 1/4)	31	10	22	Yakima	

4. DO YOU OWN THE LAND ON WHICH THIS SOURCE IS LOCATED IF NOT, INSERT NAME & ADDRESS OF OWNER
Yes

5. LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED
ATTACH A COPY OF THE LEGAL DESCRIPTION OF THE PROPERTY (ON WHICH THE WATER WILL BE USED) TAKEN FROM A REAL ESTATE CONTRACT, PROPERTY DEED OR TITLE INSURANCE POLICY, OR COPY CAREFULLY IN THE SPACE BELOW

S.E. 1/4 of N.E. 1/4 - 31-10-22 - 1/2
S 1/2 NE 1/4 NE 1/4
Yakima Co.
Wash.

WELL 5 (no log)

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

CERTIFICATE OF WATER RIGHT

- ☐ Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- ☒ Ground Water (Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE March 2, 1981	APPLICATION NUMBER G4-27347	PERMIT NUMBER G4-27347P	CERTIFICATE NUMBER G4-27347C
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NAME D & G FARMS			
ADDRESS (STREET) Route 1, Box 1212A	(CITY) Sunnyside,	(STATE) Washington	(ZIP CODE) 98944

This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown, but is limited to an amount actually beneficially used.

PUBLIC WATER TO BE APPROPRIATED

SOURCE
A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 300	MAXIMUM ACRE-Feet PER YEAR 129
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QUANTITY, TYPE OF USE, PERIOD OF USE
For irrigation of 34 acres from April 1 to October 31.

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

800 feet south and 300 feet east from the northwest corner of Section 31.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) Gov. Lot 1 (NW $\frac{1}{4}$ NW $\frac{1}{4}$)	SECTION 31	TOWNSHIP N. 10	RANGE, (E. OR W.) W.M. 22 E.	W.R.I.A. 37	COUNTY Yakima
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

That portion of Government Lot 1 (NW $\frac{1}{4}$ NW $\frac{1}{4}$) lying north of Union Pacific Railroad in Section 31, T. 10 N., R. 22 E.W.M., Yakima County.

PROVISIONS

Installation and maintenance of an access port as described in Groundwater Bulletin No. 1 is required. An air line and gage may be installed in addition to the access port.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells.)

This authorization to use public water of the state is classified as a FAMILY FARM PERMIT in accordance with Chapter 90.66 RCW (Initiative Measure No. 59). This means the land being irrigated under this authorization shall comply with the following definition: Family Farm- a geographic area including not more than 2,000 acres of irrigated agricultural lands, whether contiguous or noncontiguous, the controlling interest in which is held by a person having a controlling interest in no more than 2,000 acres of irrigated agricultural lands in the State of Washington which are irrigated under water rights acquired after December 8, 1977. Furthermore, the land being irrigated under this authorization must continue to conform to the definition of a family farm.

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Yakima Washington, this...31st... day
ofMarch....., 19....87.....

Department of Ecology

ENGINEERING DATA

OK RFB

BJ:vaw

by Russell K Taylor

RUSSELL K TAYLOR, P.E., REGIONAL MANAGER

FOR COUNTY USE ONLY

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with
Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

33270

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W039173

UNIQUE WELL I.D. # _____

Water Right Permit No. _____

(1) OWNER: Name Yakima County Public Works Address _____

(2) LOCATION OF WELL: County YAKIMA

SW 1/4 SW 1/4 Sec 30 T. 10 N. R22 W.M. N

(2a) STREET ADDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐
☐ Irrigation ☐ Test Well ☐ Other ☐
☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 413 feet. Depth of completed well 413 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 43 ft. to 413 ft.
Welded ☒ Diam. from _____ ft. to _____ ft.
Liner installed ☐ Diam. from _____ ft. to _____ ft.
Threaded ☐ Diam. from _____ ft. to _____ ft.

Perforations: Yes ☒ No ☐
Type of perforator used Torch-cut
SIZE of perforations 3 in. by 18 in.
125 perforations from 353 ft. to 393 ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 170 ft.
Material used in seal Bentonite with packer
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

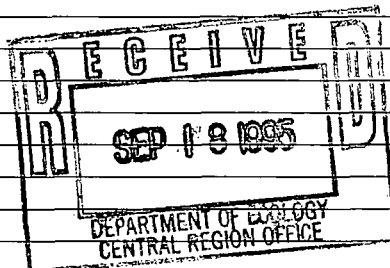
(8) WATER LEVELS: Land-surface elevation _____ ft.
above mean sea level
Static level 212 ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
CEMENTED COBBLES	0	70
SANDSTONE	70	130
BROWN BASALT	130	140
BLACK BASALT	140	200
SANDSTONE	200	250
SANDSTONE-CLAY (WATER)	250	290
BLUE CLAY-SANDSTONE	290	410
SANDSTONE (WATER)	410	415



Work Started 6-7 19. Completed 6-24 19 95

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Bach Drilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address 3340 WILSON CR., ELLENSBURG, WA.
(Signed) Mike Bach License No. 22
(WELL DRILLER)

Contractor's
Registration
No. MIKE BDC 13304 Date 7-5 19 95

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.



