

Second Quarter 2025 Monitoring Report

LRI Landfill

Graham, Washington

Pierce County Recycling, Composting
& Disposal, LLC dba LRI
17925 Meridian Street East
Puyallup, Washington 98375



SCS ENGINEERS

04225001.02 | November 18, 2025

2405 140th Avenue NE, Suite 107
Bellevue, WA 98005
425-746-4600

This document presents the Second Quarter 2025 Monitoring Report for the LRI Landfill located in Graham, Washington. Activities this quarter included monitoring the volume and specific conductance of water pumped from the leak detection/collection system, quarterly groundwater monitoring, monthly landfill gas monitoring, and weekly surface water monitoring. This document was prepared by Jovany Estrada and Travis Berndahl of SCS Engineers and reviewed by Greg Helland of SCS Engineers for submittal to Mr. Keith Johnston of the Tacoma-Pierce County Health Department (TPCHD).



Jovany Estrada
Staff Scientist
SCS Engineers



Travis Berndahl, EIT
Project Manager
SCS Engineers



Gregory D. Helland, LHG
Project Director
SCS Engineers

Attachments: Attachment A: Groundwater Flow Map
Attachment B: Groundwater Data Summary Tables
Attachment C: Field Sampling Documentation
Attachment D: Statistical Calculations
Attachment E: Trilinear Diagrams
Attachment F: Analytical Data Validation Report
Attachment G: Groundwater and LDCS Time Trend Plots
Attachment H: LDCS & Leachate Pumping Records and Conductivity Measurements
Attachment I: Surface Water Data
Attachment J: Landfill Gas Data

cc: Blake Nelson, Ecology (email)
Suzy Lewis, Ecology (email)
Olivier Moi, LRI (email)
George Duvendack, LRI (email)
Samantha Winkle, LRI (email)
Jody Snyder, LRI (email)
Jose Camacho, LRI (email)

GROUNDWATER MONITORING

Second quarter 2025 groundwater samples were collected from the LRI Landfill monitoring network on June 18-19, 2025. Eight monitoring wells (MW-1A, MW-2A, MW-3, MW-4, MW-5A, MW-6, MW-7, MW-9, and MW-10) and eleven leak detection collection locations (LDCS-1, LDCS-2A, LDCS-2B, LDCS-3A, LDCS-4A, LDCS-4B, LDCS-5, LDCS-6, LDCS-7, LDCS-8, and LDCS-9A) were sampled this quarter. Water level elevations were measured at each of the monitoring wells during this quarter. Field quality control samples consisted of one field blank and one duplicate sample collected at MW-7. Sampling procedures followed the LRI Landfill Groundwater Monitoring Plan (GWMP), dated March 10, 2014.

Groundwater samples were collected using low-flow purging and sampling techniques with dedicated pumps at all sampled monitoring wells except MW-4, where a non-dedicated QED Sample Pro pump was deployed. Samples for laboratory analyses were submitted to Eurofins Scientific of Denver, Colorado for the parameters listed in Appendix I and II of WAC 173-351-990. Groundwater sampling locations are illustrated in Figure 1.

A groundwater surface elevation map for the second quarter monitoring event is included as Figure 1. The average groundwater gradients and flow directions calculated for the quarter remain similar to those previously reported at the facility, with a flow rate of approximately 45 feet per year towards the northwest for horizontal groundwater movement within the uppermost aquifer (assuming a horizontal hydraulic conductivity of 1×10^{-3} centimeters per second and an effective porosity of 30 percent).

Field measurements and analytical results for groundwater, the leak detection/collection system (LDCS), leachate, and quality control samples are summarized on the following tables presented in Attachment B: Groundwater Level Elevations, Field Parameters, Inorganic Parameters, Appendix I Metals, Appendix II Metals, Volatile Organic Compounds, Cation-Anion Balance, and Duplicate Sample Results.

Copies of the Field Sampling Data Sheets are included in Attachment C. Statistical calculations are provided in Attachment D. Trilinear (Piper) plots of groundwater and LDCS sample results are included in Attachment E. Data validation results are summarized in Attachment F.

Groundwater results were reviewed and validated (see attached Data Validation Report). Field measurements and analytical data were uploaded into the Washington State Department of Ecology (Ecology) Environmental Information Management (EIM) System. Laboratory reports were provided to the Tacoma-Pierce County Health Department (TPCHD) and the Washington Department of Ecology (Ecology) under separate cover.

A nonparametric inter-well prediction limit approach was used to evaluate the water quality results for the Appendix I parameters listed in WAC 173-351-990 (15 total metals and nitrate). Prediction limits were generated using background data for nitrate and eight rounds of quarterly sampling completed during 2014 and 2015 for fifteen (15) total metals. Using this procedure, the highest concentration of each parameter in the data set was selected as the prediction limit for that parameter. In addition, the prediction limit data set includes ongoing water quality results from background (upgradient) wells MW-9 and MW-10. Appendix I total metal and nitrate concentrations measured at the downgradient monitoring wells were less than or equal to prediction limit values at all of the monitoring wells this quarter.

Groundwater time-trend plots for inorganic parameters and metals are included in Attachment G. The following plots are provided for each monitoring well:

- Plot 1 — alkalinity, ammonia, nitrate, chloride, total dissolved solids (TDS), total organic carbon (TOC) and sulfate.
- Plot 2 — arsenic, calcium, iron, magnesium, manganese, sodium, potassium and zinc.

Time trend plots show that concentrations of metals and inorganic parameters remained generally consistent with previously observed values during the second quarter unless otherwise noted. The highest concentrations of chloride and nitrate in the uppermost aquifer continue to be observed in background well MW-10.

Reported detections of inorganic parameters and metals measured at downgradient monitoring wells during the second quarter were less than or equal to the groundwater quality criteria listed in WAC 173-200-040, with the exceptions shown in Exhibit 1.

Exhibit 1. Groundwater Results Greater Than WAC 173-200-040 Criteria

Parameter	Groundwater Quality Criteria	MW-1A	MW-2A	MW-3	MW-4	MW-5A	MW-6	MW-7
Arsenic, Total	0.00005	**	**	**	0.0088	**	0.0061	**
Iron, Dissolved	0.30	*	0.8	*	*	*	*	*
Manganese, Dissolved	0.05	0.25	0.28	0.29	0.061	0.17	0.24	0.24
Notes: Concentrations listed as mg/L = milligrams per liter. Dissolved Iron and Manganese concentrations are compared to WAC 173-200-040 GW Quality Criteria for informational purposes only as the Sampling Analysis Plan only requires dissolved analyses for these metals. ** = Not detected above the method reporting limit (MRL), but MRL exceeded WAC 173-200-040 GW Quality Criteria. * = Reported value was less than WAC 173-200-040 Groundwater Quality Criteria.								

The results summarized in Exhibit 1 are typical of previous results (see time-trend plots in Attachment G), are interpreted to be within natural background variation, and in the case of total arsenic, are less than or equal to the background level used to establish the prediction limit (prediction limits are not applicable for dissolved iron or manganese). The method reporting limit (MRL) for arsenic is 0.005 milligrams per liter (mg/L), which is greater than the WAC 173-200-040 criteria of 0.00005 mg/L. Therefore, arsenic results reported as non-detect are considered to be greater than the WAC 173-200-040 criterion. SCS is coordinating with the laboratory to reduce the MRL for arsenic for future monitoring events.

Low-level detections of ammonia (ranging between 0.1 and 0.36 mg/L) were reported at downgradient wells MW-2A, MW-3, MW-5A, MW-6, MW-7, and MW-9. These ammonia detections appear to be consistent with historical well data.

The cation-anion balance evaluates the difference in the sum of cations and anions (in milliequivalents per liter [meq/L]) within a water sample to determine if it is electroneutral (balanced cation and anion charges). Consistent with WAC 173-350-430(5), a threshold of ten percent difference is used if the total cation-anion sum is less than 5.0 meq/L, and a threshold of five percent difference is used if the total cation-anion sum is greater than or equal to 5.0 meq/L. During

the second quarter, the cation-anion balance evaluation exceeded the appropriate threshold in monitoring wells MW-2A, MW-4, MW-5A, and MW-10 (see Table 7 in Attachment B).

Graphical plots of the current monitoring well water quality results are presented on trilinear (piper) diagrams in Attachment E. These plots show the water quality differences between groundwater from the monitoring wells, shallow groundwater from the LDCS, and leachate (collected annually in December).

No VOCs were reported in samples collected from the monitoring wells during the second quarter of 2025.

LEAK DETECTION/COLLECTION SYSTEM (LDCS) MONITORING

A leak detection/collection system (LDCS) is present directly beneath the composite liner of each landfill cell to provide for early leak detection and to collect leachate in the event a leachate leak develops in the composite liner or leachate force main. The system consists of a high permeability gravel blanket that is underlain and overlain by geosynthetic fabrics. The system also dewateres groundwater that is present within the glacial till. Leachate leaks are indicated by the presence acetone and 2-butanone (primary leachate indicator parameters) and increases in concentrations of ammonia and chloride (secondary leachate indicator parameters), as well as increases in specific conductance (conductivity), total dissolved solids, alkalinity, sodium, potassium, and total organic carbon.

LDCS Maintenance. No significant maintenance was performed during the second quarter of 2025.

LDCS Daily Monitoring. Daily monitoring of the LDCS sumps for volume of water pumped, liquid level, and specific conductance (conductivity) was performed by using a programmable logic controller (PLC) and through direct measurements by LRI site personnel. Rainfall data were recorded manually using an on-site rain gauge. The combined field and PLC data, as well as time series plots of the data, are included in Attachment H.

Conductivity data from the fully functioning LDCS sumps trended within typical historical ranges during the second quarter of 2025. Conductivity probes for LDCS sumps 8 and 9 malfunctioned, therefore, no data was collected during this quarter. LRI is actively looking into conductivity meters to replace the malfunctioning devices that will operate more consistently.

LDCS Quarterly Monitoring. Samples were collected using disposable bailers at LDCS-1, LDCS-2A, and LDCS-2B, and with dedicated QED Sleeper Pumps at LDCS-3A, LDCS-4A, LDCS-4B, LDCS-5, LDCS-6, and LDCS-7. The samples obtained from LDCS-8 and LDCS-9 were collected as a grab samples from a dewatering pump discharge spigot.

LDCS-1 water quality results included a low-level detection of 1,4-dichlorobenzene at 0.97 µg/L. Concentrations of secondary leachate indicator parameters ammonia and chloride were reported as non-detect and at 4.8 mg/L, respectively. Therefore, the 1,4-dichlorobenzene detection does not appear to be the result of leachate.

LDCS-2A water quality results included a low-level detection of 1,4-dichlorobenzene at 0.56 µg/L. Primary leachate indicator, acetone, was reported at this monitoring location at a low-level concentration of 11 µg/L. Concentrations of secondary leachate indicator parameters, ammonia (0.17 mg/L) and chloride (7.7 mg/L), remained low. Therefore, this 1,4-dichlorobenzene detection does not appear to be the result of leachate.

LDCS-7 water quality results included a low-level detection of benzene at 1.5 µg/L. Primary leachate indicator parameters, acetone and 2-butanone, were not detected in the sample. Additionally, secondary leachate indicator parameters ammonia and chloride remained low with concentrations reported at 0.18 mg/L and 5.5 mg/l for LDCS- 7. As a result, the benzene detection does not appear to be the result of leachate.

LDCS-9 water quality results included low-level detections of cis-1,2-dichloroethene at 0.53 µg/L, benzene at 1.3 µg/L, chloroethane at 0.67 µg/L, and cis-1,2-dichloroethene. However, primary leachate indicator parameters, acetone and 2-butanone, were not detected at LDCS-9. Additionally, secondary leachate indicator parameters were reported as non-detect for ammonia at 5.2 mg/L for chloride. During the second quarter, Cell 9C was undergoing construction and the detections of new constituents may be attributed to the construction activities. The isolated cis-1,2-dichloroethene detection does not appear to be a result of leachate as primary and secondary leachate indicators were not reported. Subsequent 2025 monitoring data will be useful for assessing the cell construction activities on the LDCS water quality.

Water quality results for LDCS-2B, LDCS-3A, LDCS-4A, LDCS-4B, LDCS-5, LDCS-6, LDCS-8, and LDCS-9 did not show any primary leachate indicator detections. Secondary leachate indicator results were consistent with previous values.

LDCS time trend plots for inorganic parameters and dissolved metals are included in Attachment G. The following plots are provided for each leak detection sump:

- Plot 1 — alkalinity, ammonia, chloride, nitrate, sulfate, TDS and TOC.
- Plot 2 — arsenic, calcium, iron, magnesium, manganese, sodium, potassium and zinc.

Graphical plots of the LDCS water quality results are presented on trilinear (piper) diagrams in Attachment D. These plots demonstrate the water quality differences between groundwater from the monitoring wells, shallow groundwater from the LDCS, and leachate (collected annually in December).

SURFACE WATER MONITORING

Surface water monitoring was performed per the requirements of NPDES Construction Stormwater General Permit (CSWGP) WAR 002603C and NPDES Industrial Stormwater General Permit (ISGP) WAR 002557. During the second quarter of 2025, construction and industrial stormwater treatment with Chitosan Sand Enhanced Filtration (CESF) was utilized each month.

Discharge Monitoring Reports (DMR's) were submitted to Ecology on a monthly (Construction Permit) and quarterly (Industrial Permit) basis. Copies of the second quarter 2025 DMR's are included in Attachment I. There were no stormwater discharges in the second quarter of 2025.

LEACHATE MONITORING

Leachate volumes were monitored using the automated PLC system and through direct measurements by LRI site personnel. A summary of daily volumes pumped and leachate sump level data is provided in Attachment H.

Collected leachate was truck-hauled to the pretreatment facility at the Hidden Valley Landfill where it was subsequently discharged to the Pierce County sewer system in accordance with Pierce County

Utilities Department Industrial Discharge Permit Number PC03096, and to the City of Tacoma and City of Salem Wastewater Treatment Plants for proper disposal. A summary of year-to-date leachate volume data based on volumes truck-hauled off site is provided on Exhibit 2.

Exhibit 2. 2025 Leachate Volume Data

Month	Leachate Trucked Offsite for Proper Disposal (gallons)	Monthly Rainfall (inches)
January	3,127,993	1.38
February	3,584,595	4.22
March	3,703,592	5.71
April	3,088,536	2.88
May	2,647,319	1.97
June	2,473,843	1.67
Notes: Leachate was trucked off-site for proper disposal. Leachate volumes that were trucked offsite for disposal determined by trucking records kept by LRI site personnel on a daily basis.		

LANDFILL GAS MONITORING

Monthly monitoring of the landfill gas probes was performed on April 14th, May 20th, and June 10th using an Elkins Envision portable gas monitor. Monitoring results for performance probes installed adjacent to the landfill within the perimeter berm are included in Exhibit 3.

Exhibit 3. Q2 2025 Landfill Gas Probe Monitoring Summary (Percent Methane) Performance Probes

Monitoring Date	GP-1	GP-2	GP-3	GP-4	GP-9	GP-10	GP-10P	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16
April 14	19.9	0.0	0.0	0.0	0.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
May 20	0.0	0.0	0.0	0.0	0.0	0.6	20.0	0.0	16.4	0.0	0.0	0.0	0.0
June 10	0.1	0.0	0.0	0.0	0.0	13.1	14.9	0.0	13.4	0.0	0.0	0.0	0.0

Notes: All values are reported as percent methane by volume.

Methane measurements at or above the lower explosive limit of 5.0% by volume are shown in **bold**.

Monitoring results for five probes that were installed in September 2022 in native soils closer to the property boundary of the facility are included in Exhibit 4. These probes are located on the east and west sides of the landfill. Methane measurements were less than the lower explosive limit (LEL) of five percent by volume at each of these probes.

Exhibit 4. Q1 2025 Landfill Gas Probe Monitoring Summary (Percent Methane)
Native Soils Probes

Monitoring Date	GP-17	GP-18	GP-19	GP-20	GP-21
April 14	0.0	0.0	0.0	0.0	0.0
May 20	0.0	0.0	0.0	0.0	0.0
June 10	0.0	0.0	0.0	0.0	0.0

Notes: All values are reported as percent methane by volume.

Indoor air was tested for the presence of methane on May 19, 2025. The office, maintenance building, scale house, workshop and energy plant building were monitored with a portable flame ionization detector (MicroFID). Methane was detected at the main office at 0.3 ppm. A methane detection was also reported at the energy plant at a concentration of 0.3 ppm. These results are below the regulatory threshold for methane in site structures.

Field records for gas probe and indoor air monitoring are included in Attachment J.

LANDFILL GAS EXTRACTION WELL CONSTRUCTION

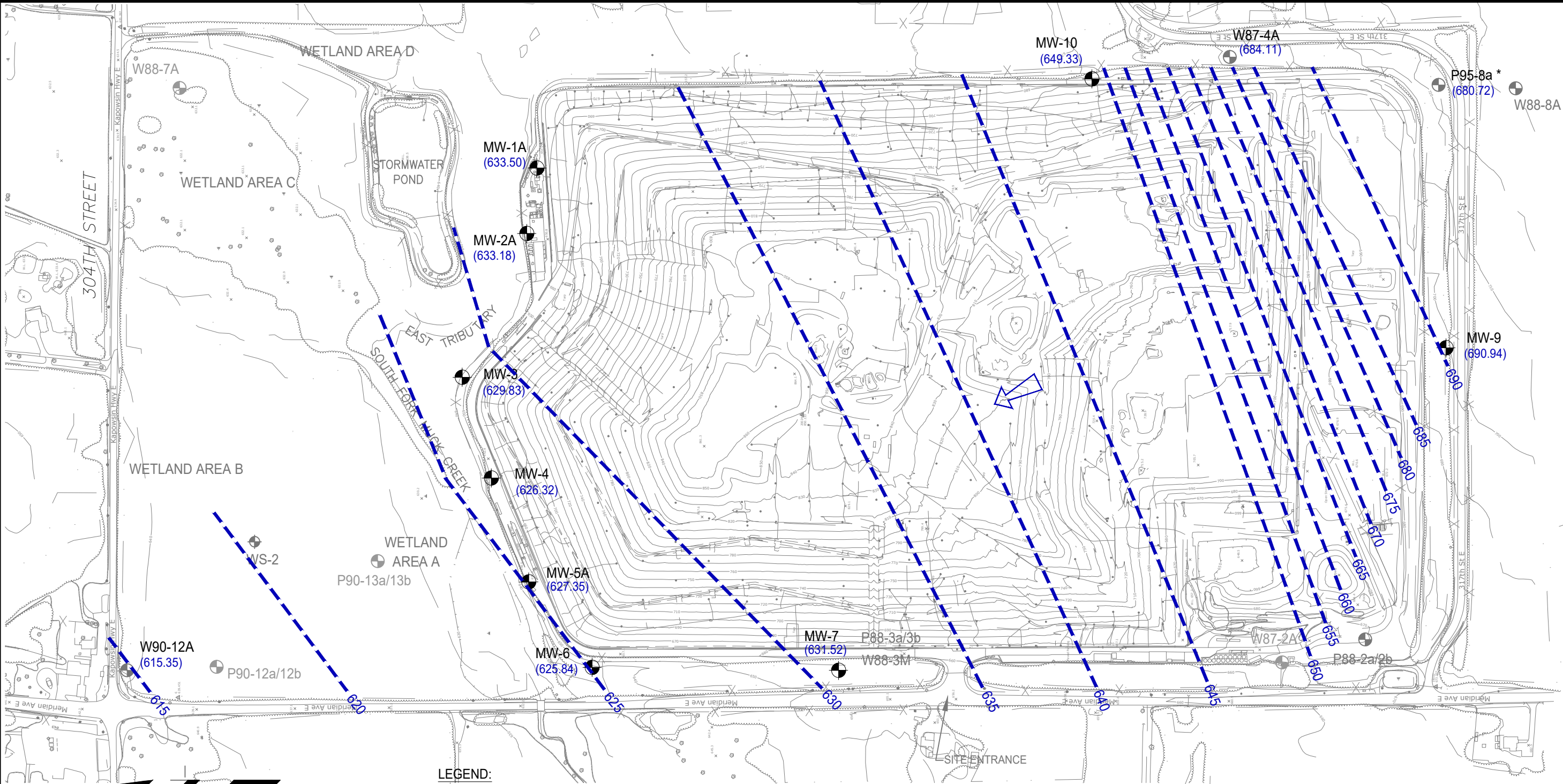
No landfill gas extraction well construction or maintenance activities were performed this quarter.

GROUNDWATER MONITORING WELL CONSTRUCTION AND MAINTENANCE

No well construction or other significant well maintenance activities were performed this quarter.

Attachment A

Groundwater Flow Map

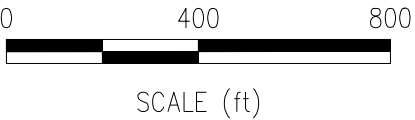


NOTES:

VERTICAL DATUM - BASED ON
PIERCE COUNTY BENCH NO. 112-28,
ELEVATION 660.29 NGVD29

LEGEND:

-  MW-1A MONITORING WELL
-  W87-2A CHARACTERIZATION WELL/ PIEZOMETER
-  (646.11) GROUNDWATER ELEVATION (IN FEET ABOVE MSL)
-  INFERRED GROUNDWATER FLOW DIRECTION
-  (NM) NOT MEASURED



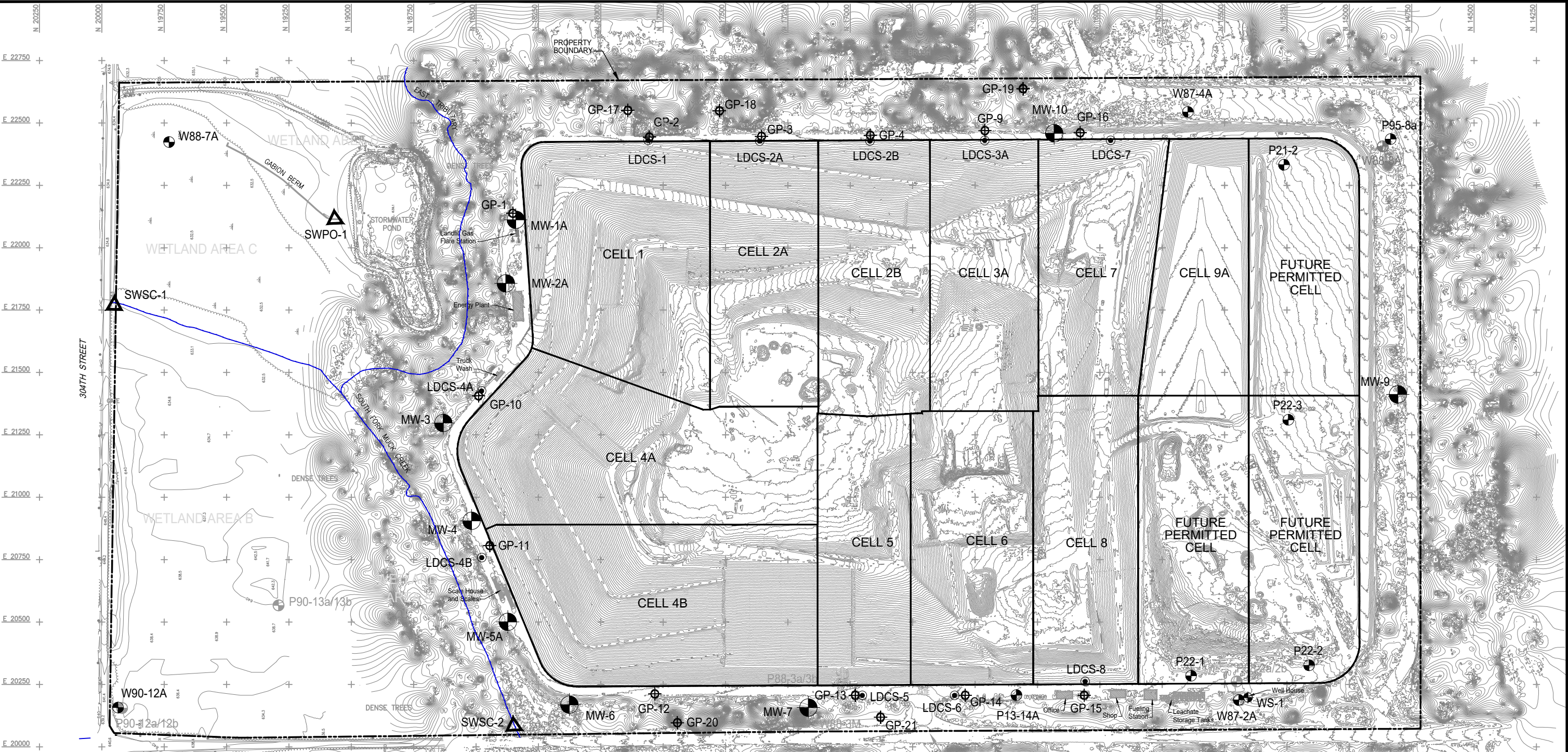
SCS ENGINEERS

Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO.	04225001.02	DES BY	J.E.
SCALE	AS SHOWN	CHK BY	D.V.
CAD FILE	FIGURE 1	APP BY	G.H.

POTENTIOMETRIC SURFACE CONTOUR MAP
JUNE 18, 2025
LRI LANDFILL
30919 MERIDIAN STREET E.
GRAHAM, WASHINGTON

DATE	OCTOBER 2025
FIGURE	1



LEGEND:

- MW-1 MONITORING WELL
- WS-1 WATER SUPPLY WELL
- W87-2A CHARACTERIZATION WELL/ PIEZOMETER
- LDCS-1 LEAK DETECTION/COLLECTION SUMP
- NEWB-2 SURFACE WATER MONITORING LOCATION
- GP-1 GAS PROBE

NOTES:

- TOPOGRAPHIC BASE MAP PREPARED BY LRI, USING PHOTOGRAMMETRIC SURVEY METHODS, DATE OF PHOTOGRAPH SEPTEMBER 2, 2022.
- SOME EDGES OF LANDFILL IS BASED ON TOPOGRAPHIC BASE MAP PREPARED BY COOPER AERIAL SURVEYS CO., USING PHOTOGRAMMETRIC SURVEY METHODS, DATE OF PHOTOGRAPH MAY 09, 2017.
- VERTICAL DATUM – BASED ON PIERCE COUNTY BENCH NO. 112-18, ELEVATION 660.29 NGVD29.

SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO.	04224001.02	DES BY	TAB
SCALE	AS SHOWN	CHK BY	GH
CAD FILE	FIGURE 2	APP BY	GH

SITE MAP
LRI LANDFILL
30919 MERIDIAN STREET EAST
GRAHAM, WASHINGTON

DATE
June 2024
FIGURE
2

Attachment B

Groundwater Data Summary Tables

**Table 1. Groundwater Level Elevations
Second Quarter 2025
LRI Landfill, Pierce County, Washington**

Location	Well Casing Elevation (ft)	Depth to Water (ft)	Water Level Elevation (ft, NGVD29)
Wells			
W87-4A	693.29	9.18	684.11
W90-12A	640.84	25.49	615.35
MW-1A	652.57	19.07	633.50
MW-2A	651.93	18.75	633.18
MW-3	637.41	7.58	629.83
MW-4	652.37	23.05	629.32
MW-5A	655.55	27.05	628.50
MW-6	635.71	9.87	625.84
MW-7	656.03	24.51	631.52
MW-9	701.77	10.83	690.94
MW-10	678.37	29.04	649.33
Piezometers			
P95-8A	722.07	41.35	680.72
GP-1P	652.00	14.14	637.86
GP-2P	658.61	16.13	642.48
GP-3P	658.51	8.77	649.74
GP-4P	662.01	11.21	650.80
GP-9P	674.03	12.93	661.10
South Creek			
SWSC-1	632.68	4.62	628.06
SWSC-2	629.98	3.95	626.03
Leak Detection System			
LDCS-1	657.26	27.69	629.57
LDCS-2A	659.24	29.39	629.85
LDCS-2B	661.70	27.50	634.20

Notes:

NM = not measured

-- = not applicable

All measurements taken on June 18-19, 2025

Table 2. Field Parameters
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Location	Sample Number	Sample Date	Sampling Method	pH	Conductivity	Temperature
Units				(SU)	(μS/cm)	(°C)
WAC 173-200 Criteria				6.5-8.5	700 ^b	—
Monitoring Wells						
MW-1A	304-061925-01	6/19/2025	DP	6.90	200	13.3
MW-2A	304-061925-02	6/19/2025	DP	7.07	279	13.5
MW-3	304-061925-03	6/19/2025	DP	7.10	364.1	12.1
MW-4	304-061925-04	6/19/2025	SP	7.29	344	14.2
MW-5A	304-061925-05	6/19/2025	DP	7.53	366	12.4
MW-6	304-061925-06	6/19/2025	DP	7.34	362	12.0
MW-7	304-061925-07	6/19/2025	DP	7.21	369.2	12.4
MW-9	304-061925-09	6/19/2025	DP	6.54	128.6	11.7
MW-10	304-061925-11	6/19/2025	DP	6.24	274	12.1
Leak Detection System						
LDCS-1	304-061825-12	6/18/2025	DB	6.12	569	22.6
LDCS-2A	304-061825-13	6/18/2025	DB	6.55	914	23.2
LDCS-2B	304-061825-14	6/18/2025	DB	6.38	884	19.3
LDCS-3A	304-061825-15	6/18/2025	DP	6.17	1016	22.2
LDCS-4A	304-061825-16	6/18/2025	DP	6.17	748	20.8
LDCS-4B	304-061825-17	6/18/2025	DP	6.38	916	29.2
LDCS-5	304-061825-18	6/18/2025	DP	6.29	840	25.2
LDCS-6	304-061825-19	6/18/2025	DP	6.43	1,164	25.1
LDCS-7	304-061825-20	6/18/2025	DP	6.66	686	21.0
LDCS-8	304-061825-21	6/18/2025	GB	6.38	1,081	25.7
LDCS-9	304-061825-23	6/18/2025	GB	6.05	741	24.0
Leachate Collection System						
Leachate, Cell 6	304-061825-22	6/18/2025	GB	8.01	35,003	35.2
Leachate, Cell 7	304-061825-24	6/18/2025	GB	7.81	12,242	29.6
Leachate, Cell 8	304-061825-25	6/18/2025	GB	7.89	23,595	30.7
Leachate, Cell 9	304-061825-26	6/18/2025	GB	7.74	22,670	30.1

Notes:

Groundwater (monitoring well) concentrations greater than the WAC 173-200 criteria are shown in **bold**

— = Not applicable or not performed

b = Secondary Drinking Water Standard

°C = degrees celcius

Table 3. Inorganic Parameters
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Parameter	Alkalinity, Total	Ammonia	Chloride	Nitrate	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids
MRL	10	0.10	0.20	0.50	0.20	10	1.0	4.0
WAC 173-200 Criteria	—	—	250	10	250	500	—	—
Monitoring Wells								
MW-1A	91	*	2.1	*	4.8	150	*	*
MW-2A	120	0.14	3.3	*	17	190	*	8.4
MW-3	150	0.1	3.9	*	35	240	*	*
MW-4	160	*	3.7	*	13	230	*	*
MW-5A	170	0.14	3.6	*	19	240	*	4
MW-6	170	0.14	5.3	*	7.4	230	*	*
MW-7	180	0.22	3.3	*	2.7	220	*	*
(BG) MW-9	63	0.36	1.6	*	1.7	130	*	*
(BG) MW-10	110	*	6.2	2.4	6	190	*	4.4
Leak Detection System								
LDCS-1	210	*	4.8	*	5.5	290	8.9	—
LDCS-2A	410	0.17	11	*	46	470	5.9	—
LDCS-2B	340	0.31	27	*	48	480	6.1	—
LDCS-3A	420	0.23	4.5	*	52	530	2.2	—
LDCS-4A	380	0.12	30	*	54	530	6.9	—
LDCS-4B	350	0.24	35	*	83	560	5.5	—
LDCS-5	330	0.23	29	*	70	510	7.2	—
LDCS-6	480	0.2	35	*	110	720	3.6	—
LDCS-7	360	0.18	5.5	*	9.2	480	41	—
LDCS-8	480	*	22	*	64	640	6.2	—
LDCS-9	380	*	5.2	*	18	450	2	—
Leachate Collection System								
Leachate, Cell 6	15000	3600	4200	1.8	7	23000	3700	—
Leachate, Cell 7	11000	1800	3200	1.3	*	15000	2100	—
Leachate, Cell 8	9900	1900	2600	0.99	27	14000	1700	—
Leachate, Cell 9	9600	1900	2700	1.1	*	14000	1500	—

Notes:

All sample units are milligrams per liter (mg/L)

Groundwater (monitoring well) concentrations greater than prediction limits or WAC 173-200 criteria are shown in **bold**

Analyses performed by Eurofins TestAmerica of Denver, Colorado

Method Reporting Limit (MRL) is typical and may be elevated for some samples

* = Sample result was not reported at or above the MRL

Table 4. WAC 173-351 Appendix I Metals
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Parameter	Antimony-D	Antimony-T	Arsenic-D	Arsenic-T	Barium-D	Barium-T	Beryllium-D	Beryllium-T	Cadmium-D	Cadmium-T	Chromium-D	Chromium-T	Cobalt-D	Cobalt-T	Copper-D	Copper-T	Lead-D	Lead-T	Nickel-D	Nickel-T	Selenium-D	Selenium-T	Silver-D	Silver-T	Thallium-D	Thallium-T	Vanadium-D	Vanadium-T	Zinc-D	Zinc-T
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MRL	0.05	0.05	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.01	0.01	0.002	0.002	0.02	0.02	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01
WAC 173-200 Criteria	—	—	—	0.00005	—	1.0	—	—	—	0.01	—	0.05	—	—	—	1.0	—	0.05	—	—	—	0.01	—	0.05	—	—	—	—	—	5.0
Prediction Limit	—	0.05	—	0.011	—	0.091	—	0.005	—	0.005	—	0.011	—	0.01	—	0.063	—	0.042	—	0.020	—	0.005	—	0.01	—	0.005	—	0.016	—	0.290
Monitoring Wells																														
MW-1A	—	*	—	*	—	0.018	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2A	—	*	—	*	—	0.014	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*
MW-3	—	*	—	*	—	0.017	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*
MW-4	—	*	—	0.0088	—	0.017	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	0.02
MW-5A	—	*	—	*	—	0.015	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*
MW-6	—	*	—	0.0061	—	0.015	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*
MW-7	—	*	—	*	—	0.015	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*
(BG) MW-9	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	0.014	—	*
(BG) MW-10	—	*	—	*	—	0.013	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	0.012
Leak Detection System																														
LDCS-1	*	—	0.0092	—	0.022	—	—	—	—	—	*	—	*	—	*	—	*	—	*	—	—	—	—	—	—	—	*	—	*	—
LDCS-2A	*	—	0.016	—	0.041	—	—	—	—	—	*	—	*	—	*	—	*	—	*	—	—	—	—	—	—	—	*	—	*	—
LDCS-2B	*	—	0.11	—	0.062	—	—	—	—	—	*	—	0.0032	—	0.042	—	0.0025	—	*	—	—	—	—	—	—	—	*	—	0.051	—
LDCS-3A	*	—	0.021	—	0.023	—	—	—	—	—	*	—	0.0035	—	*	—	*	—	*	—	—	—	—	—	—	—	*	—	*	—
LDCS-4A	*	—	0.0071	—	0.031	—	—	—	—	—	*	—	0.0029	—	*	—	*	—	*	—	—	—	—	—	—	—	*	—	*	—
LDCS-4B	*	—	0.023	—	0.033	—	—	—	—	—	*	—	0.0011	—	*	—	*	—	*	—	—	—	—	—	—	—	*	—	*	—
LDCS-5	*	—	0.005	—	0.04	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—
LDCS-6	*	—	*	—	0.053	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—
LDCS-7	*	—	0.012	—	0.032	—	*	—	*	—	*	—	0.0021	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—
LDCS-8	*	—	0.0086	—	0.046	—	*	—	*	—	*	—	0.0014	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—
LDCS-9	*	—	0.0054	—	0.039	—	*	—	*	—	*	—	0.0034	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—	*	—
Leachate																														
Leachate, Cell 6	*	—	0.38	—	1.2	—	*	—	*	—	0.98	—	0.051	—	0.069	—	0.023	—	0.52	—	*	—	*	—	*	—	0.15	—	0.20	—
Leachate, Cell 7	0.069	—	0.64	—	1.2	—	*	—	*	—	1.2	—	0.049	—	0.13	—	0.04	—	0.41	—	*	—	*	—	*	—	0.31	—	0.34	—
Leachate, Cell 8	*	—	0.38	—	1.1	—	*	—	*	—	0.93	—	0.06	—	0.043	—	0.021	—	0.37	—	*	—	*	—	*	—	0.17	—	0.23	—
Leachate, Cell 9	*	—	0.14	—	0.93	—	*	—	0.0015	—	0.85	—	0.063	—	0.22	—	0.13	—	0.69	—	*	—	*	—	*	—	0.14	—	0.98	—

Notes:
All sample units are milligrams per liter (mg/L)
WAC 173-200-040 Table 1 Groundwater Quality Criteria are for total metals
Groundwater (monitoring well) concentrations greater than prediction limits or WAC 173-200 criteria are shown in **bold**
Parameter concentrations for monitoring wells are total (T) metals
Parameter concentrations for LDCS sumps are dissolved (D) metals
Parameter concentrations for leachate samples are total (T) metals

**Table 5. WAC 173-351 Appendix II Metals (Dissolved)
Second Quarter 2025
LRI Landfill, Pierce County, Washington**

Parameter	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MRL	0.20	0.10	0.10	0.005	2.0	1.0
WAC 173-200 Criteria	—	0.30	—	0.050	—	—
Monitoring Wells						
MW-1A	16	0.27	9.3	0.25	3.6	11
MW-2A	25	0.8	13	0.28	3.7	17
MW-3	39	*	17	0.29	4.1	14
MW-4	34	*	18	0.061	6	14
MW-5A	30	*	12	0.17	4.5	41
MW-6	39	*	18	0.24	5.1	11
MW-7	31	0.23	21	0.24	6.6	14
(BG) MW-9	9.9	*	6.6	*	2	7.4
(BG) MW-10	27	*	12	*	2.3	14
Leak Detection System						
LDCS-1	50	1.6	22	1.9	5.6	20
LDCS-2A	97	1.7	40	2.8	9.5	31
LDCS-2B	88	29	42	1.6	7.5	23
LDCS-3A	100	5.6	45	3.5	6.5	24
LDCS-4A	85	2.6	57	2.7	5.7	25
LDCS-4B	99	3.5	46	1.3	6.5	33
LDCS-5	82	0.1 U	46	0.96	6.9	36
LDCS-6	110	0.13	62	1.6	7.5	57
LDCS-7	89	0.83	38	3.4	5.1	27
LDCS-8	88	2.7	82	1.6	5.9	25
LDCS-9	86	1.7	34	1.3	5.5	32
Leachate**						
Leachate, Cell 6	44	6.4	130	0.35	1600	5600
Leachate, Cell 7	69	1.4	110	1.3	1100	4000
Leachate, Cell 8	110	3.1	110	1.7	900	3500
Leachate, Cell 9	70	9.2	120	0.61	900	3100

Notes:

All sample units are milligrams per liter (mg/L)

WAC 173-200-040 Table 1 Groundwater Quality Criteria are for total metals

Groundwater (monitoring well) concentrations greater than WAC 173-200 criteria are shown in **bold**

Analyses performed by Eurofins TestAmerica of Denver, Colorado

Method Reporting Limit (MRL) is typical and may be elevated for some samples

* = sample result was not reported at or above the MRL

** = Reported concentrations for leachate are total metals

Table 6. Volatile Organic Compounds (µg/L)
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Parameter	1,2-Dichloroethane	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Carbon disulfide	Chlorobenzene	Chloroethane	cis-1,2-Dichloroethene	Ethylbenzene	m-Xylene & p-Xylene	o-Xylene	Toluene
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MRL	0.5	0.50	6.0	15.0	5.0	10.0	0.50	0.63	0.50	0.50	0.50	1.0	0.50	0.50	0.50
WAC 173-200 Criteria	0.50	4.0	—	—	—	—	1.0	—	—	—	—	—	—	—	—
Monitoring Wells															
MW-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
(BG) MW-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
(BG) MW-10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leak Detection System															
LDCS-1	*	0.97	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-2A	*	0.56	*	*	*	11	*	*	*	*	*	*	*	*	*
LDCS-2B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-3A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-4A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-4B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-7	*	*	*	*	*	*	1.5	*	*	*	*	*	*	*	*
LDCS-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LDCS-9	0.53	*	*	*	*	*	1.3	*	*	0.67	0.81	*	*	*	*
Leachate Collection System															
Leachate, Cell 6	*	*	2900	44	42	6100	*	*	*	*	*	9.7	13	9.3	23
Leachate, Cell 7	*	*	200	*	9.5	370	4.2	9.6	1.3	*	3.3	14	19	16	32
Leachate, Cell 8	*	*	170	*	21	280	1.7	5.9	*	*	*	9	10	7.6	9.5
Leachate, Cell 9	*	*	380	*	40	440	14	*	*	*	*	29	48	26	97
Quality Control Samples															
Field Blank	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Notes:
All sample units are micrograms per liter (µg/L).
Analyses performed by Eurofins TestAmerica of Denver, Colorado
Groundwater (monitoring well) concentrations greater than WAC 173-200 criteria are shown in **bold**

Table 7. Cation-Anion Balance
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Cations	mg/L					meq/L					% of Total		
	Ca	Mg	K	Na	Total	Ca	Mg	K	Na	Total	Na+K	Ca	Mg
MW-1A	16	9.3	3.6	11	39.9	0.80	0.77	0.08	0.48	2.12	26.4	37.6	36.0
MW-2A	25	13	3.7	17	58.7	1.25	1.07	0.08	0.74	3.14	26.2	39.7	34.1
MW-3	39	17	4.1	14	74.1	1.95	1.40	0.09	0.61	4.05	17.3	48.1	34.6
MW-4	34	18	6	14	72	1.70	1.48	0.14	0.61	3.92	19.0	43.3	37.8
MW-5A	30	12	4.5	41	87.5	1.50	0.99	0.10	1.78	4.37	43.1	34.3	22.6
MW-6	39	18	5.1	11	73.1	1.95	1.48	0.12	0.48	4.02	14.8	48.4	36.8
MW-7	31	21	6.6	14	72.6	1.55	1.73	0.15	0.61	4.03	18.8	38.4	42.9
MW-9	9.9	6.6	2	7.4	25.9	0.49	0.54	0.05	0.32	1.40	26.1	35.2	38.7
MW-10	27	12	2.3	14	55.3	1.35	0.99	0.05	0.61	3.00	22.1	45.0	33.0
LDCS-1	50	22	5.6	20	97.6	2.50	1.81	0.13	0.87	5.30	18.8	47.1	34.1
LDCS-2A	97	40	9.5	31	177.5	4.84	3.29	0.21	1.35	9.70	16.1	49.9	34.0
LDCS-2B	88	42	7.5	23	160.5	4.39	3.46	0.17	1.00	9.02	13.0	48.7	38.3
LDCS-3A	100	45	6.5	24	175.5	4.99	3.70	0.15	1.04	9.88	12.0	50.5	37.5
LDCS-4A	85	57	5.7	25	172.7	4.24	4.69	0.13	1.09	10.15	12.0	41.8	46.2
LDCS-4B	99	46	6.5	33	184.5	4.94	3.79	0.15	1.44	10.31	15.3	47.9	36.7
LDCS-5	82	46	6.9	36	170.9	4.09	3.79	0.16	1.57	9.60	17.9	42.6	39.4
LDCS-6	110	62	7.5	57	236.5	5.49	5.10	0.17	2.48	13.24	20.0	41.5	38.5
LDCS-7	89	38	5.1	27	159.1	4.44	3.13	0.12	1.17	8.86	14.6	50.1	35.3
LDCS-8	88	82	5.9	25	200.9	4.39	6.75	0.13	1.09	12.36	9.9	35.5	54.6
LDCS-9	86	34	5.5	32	157.5	4.29	2.80	0.12	1.39	8.61	17.6	49.9	32.5

Anions	mg/L					meq/L					% of Total			Total Ions (meq/L)	Cation - Anion Balance	Applicable Ratio (%)	Ratio Exceedance
	Alk	Cl	NO ₃	SO ₄	Total	Alk	Cl	NO ₃	SO ₄	Total	Cl	Alk	SO ₄				
MW-1A	109.2	2.1	0.5	4.8	116.6	1.79	0.06	0.008	0.10	1.96	3.0	91.5	5.1	4.08	4.1	10	O
MW-2A	144	3.3	0.5	17	164.8	2.36	0.09	0.008	0.35	2.82	3.3	83.9	12.6	5.96	5.4	5	Exceeds
MW-3	180	3.9	0.5	35	219.4	2.95	0.11	0.008	0.73	3.80	2.9	77.7	19.2	7.84	3.2	5	O
MW-4	192	3.7	0.5	13	209.2	3.15	0.10	0.008	0.27	3.53	3.0	89.2	7.7	7.45	5.2	5	Exceeds
MW-5A	204	3.6	0.5	19	227.1	3.35	0.10	0.008	0.40	3.85	2.6	86.9	10.3	8.22	6.3	5	Exceeds
MW-6	204	5.3	0.5	7.4	217.2	3.35	0.15	0.008	0.15	3.66	4.1	91.5	4.2	7.68	4.7	5	O
MW-7	216	3.3	0.5	2.7	222.5	3.54	0.09	0.008	0.06	3.70	2.5	95.7	1.5	7.73	4.3	5	O
MW-9	75.6	1.6	0.5	1.7	79.4	1.24	0.05	0.008	0.04	1.33	3.4	93.3	2.7	2.73	2.8	10	O
MW-10	132	6.2	2.4	6	146.6	2.16	0.17	0.039	0.12	2.50	7.0	86.5	5.0	5.50	9.0	5	Exceeds
LDCS-1	252	4.8	0.5	5.5	262.8	4.13	0.14	0.008	0.11	4.39	3.1	94.1	2.6	9.69	9.4	5	Exceeds
LDCS-2A	492	11	0.5	46	549.5	8.07	0.31	0.008	0.96	9.34	3.3	86.4	10.2	19.04	1.8	5	O
LDCS-2B	408	27	0.5	48	483.5	6.69	0.76	0.008	1.00	8.46	9.0	79.1	11.8	17.48	3.2	5	O
LDCS-3A	504	4.5	0.5	52	561	8.27	0.13	0.008	1.08	9.48	1.3	87.2	11.4	19.37	2.1	5	O
LDCS-4A	456	30	0.5	54	541	7.48	0.85	0.008	1.12	9.46	8.9	79.1	11.9	19.60	3.5	5	O
LDCS-4B	420	35	0.5	83	539	6.89	0.99	0.008	1.73	9.61	10.3	71.7	18.0	19.92	3.5	5	O
LDCS-5	396	29	0.5	70	496	6.49	0.82	0.008	1.46	8.78	9.3	74.0	16.6	18.38	4.5	5	O
LDCS-6	576	35	0.5	110	722	9.45	0.99	0.008	2.29	12.73	7.8	74.2	18.0	25.97	2.0	5	O
LDCS-7	432	5.5	0.5	9.2	447	7.08	0.16	0.008	0.19	7.44	2.1	95.2	2.6	16.30	8.7	5	Exceeds
LDCS-8	576	22	0.5	64	663	9.45	0.62	0.008	1.33	11.41	5.4	82.8	11.7	23.77	4.0	5	O
LDCS-9	456	5.2	0.5	18	480	7.48	0.15	0.008	0.37	8.01	1.8	93.4	4.7	16.61	3.6	5	O

Notes:

mg/L = milligrams per liter

meq/L = milliequivalents per liter

Total alkalinity concentration, reported as calcium carbonate (CaCO₃), is converted to the bicarbonate (HCO₃) ion by multiplying by a factor of 1.2

Cation / anion balance equation is the equivalent percent difference in cations minus anions divided by the sum of cations and anions [(cations-anions)/(anions+cations)*100].

All measurements taken on June 18-19, 2025

A 10% difference threshold is used if the total cation-anion sums are < 5.0 meq/liter

A 5% difference threshold is used if the total cation-anion sums are > or = to 5.0 meq/liter

Table 8. Duplicate Sample Results
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Parameter	MRL	MW-7	MW-7 (Duplicate)	RPD (%)
Volatile Organic Compounds (µg/L)				
No Detections	-	-	-	-
Inorganic Parameters (mg/L)				
Alkalinity, Total		180	190	5.41
Ammonia		0.22	0.19	14.63
Chloride		3.3	3.3	0.00
Sulfate		2.7	2.8	3.64
Total Dissolved Solids		220	220	0.00
Dissolved Metals (mg/L)				
Calcium		31	31	0.00
Iron		0.23	0.23	0.00
Magnesium		21	21	0.00
Manganese		0.24	0.24	0.00
Potassium		6.6	6.4	3.08
Sodium		14	13	7.41
Total Metals (mg/L)				
Arsenic		0.015	0.016	6.45

Notes:

Analyses performed by Eurofins TestAmerica of Denver, Colorado

Parameters not listed were not present at concentrations exceeding the Method Reporting Limit (MRL)

RPD = relative percent difference

µg/L = micrograms per liter

Attachment C

Field Sampling Documentation

June 27, 2025
File No. 04225001.02

Subject: **Second Quarter 2025 Groundwater Monitoring Event**
LRI Landfill, Pierce County, Washington

NOTES/SAMPLE DECODING:

Event Dates: June 18 & 19, 2025

Field Staff: Jovany Estrada & Alex Deszo

- This event served as a quarterly monitoring event.
- Dedicated pumps were used for purging and sampling wells MW-1A, MW-2A, MW-3, MW-5A, MW-6, MW-7, MW-9, MW-10, and leak detection/collection system points LDCS-3A, LDCS-4A, LDCS-4B, LDCS-5, LDCS-6, and LDCS-7.
- Disposable bailers were used to sample leak detection/collection system points LDCS-1, LDCS-2A, LDCS-2B.
- The sample from LDCS-8 and LDCS-9 was collected from the channel discharge spigot.
- A non-dedicated Sample Pro pump was used for purging and sampling monitoring point MW-4.
- A round of water level measurements was completed concurrent with monitoring.
- Multiparameter field meters were calibrated daily, prior to sampling.
- Source water for the field blank was lab-grade deionized water (VOC-free) provided by Eurofins in Denver, Colorado.

Sample Number	Well Number
304-061925-01	MW-1A
304-061925-02	MW-2A
304-061925-03	MW-3
304-061925-04	MW-4
304-061925-05	MW-5
304-061925-06	MW-6
304-061925-07	MW-7
304-061925-08	MW-7 Duplicate
304-061925-09	MW-9
304-061925-11	MW-10
304-061925-12	Field Blank
304-061825-12	LDCS-1
304-061825-13	LDCS-2A
304-061825-14	LDCS-2B
304-061825-15	LDCS-3A

304-061825-16	LDCS-4A
304-061825-17	LDCS-4B
304-061825-18	LDCS-5
304-061825-19	LDCS-6
304-061825-20	LDCS-7
304-061825-21	LDCS-8
304-061825-22	Leachate, Cell 6
304-061825-23	LDCS-9
304-061825-24	Leachate, Cell 7
304-061825-25	Leachate, Cell 8
304-061825-26	Leachate, Cell 9

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #	04225001-62		Sampling Method	Dedicated		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site	LR1 304th		DTW	19.07		CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.26 gallons	
Well ID:	MW-1#		TOS	MP-20		Refill	9		One Well Volume (liters)	Other	
Sample ID:	304-061925-01		Intake	YSI		Discharge	6		Flow Setting		
Date:	6/19/25		BOS			Pressure	50		Total Volume Bailed (liters)		
Weather:	partly cloudy		Total Depth			Flow	250ml/min				
Filtered?	Y	N	Locked?	Y	N	Water in Protector?	Y	N	Damage?	Y	N
Sample Containers	1000 ml Poly		500 ml Poly	250 ml Poly		125 ml Poly					
	500 ml HNO3 x2		500 ml H2SO4 x2	40 ml VOA x3 x6		1000 ml Amber					
	125 ml NaOH										

Notes / Observations (color, odor, anomalies, etc)

TIME	DTW	Temp.	Sp Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1055		14.1	208	7.85	6.97	77.5	24.3	
1100		13.3	195	3.09	6.85	20.8	126.3	
1103		13.3	197	2.59	6.87	6.5	166.4	
1106		13.3	197	2.53	6.87	4.5	169.1	
1109		13.3	198	2.31	6.88	-2.2	193.1	
1112		13.4	199	2.11	6.89	-9.3	180.0	
1115		13.3	200	1.92	6.90	-16.0	243.4	

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb $\pm 10\%$ or ≤ 5

SAMPLER: Jovanny Estrada
Printed Name

Jovanny Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #	01225001-02	Sampling Method	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	121 304th	DTW	18.75	Meter:	CONTROL SETTINGS	1 ft water = 0.62L	1L = 0.26 gallons	
Well ID:	MW-2A	TOS		MP-20	Refill	9	One Well Volume (liters)	Other
Sample ID:	304-061925-C2	Intake		YSI	Discharge	6		Flow Setting
Date:	6/19/25	BOS			Pressure	30	Total Volume Bailed (liters)	
Weather:	partly cloudy	Total Depth			Flow	400ml/min		
Filtered? ☒ Y ☐ N	Locked? ☒ Y ☐ N	Water in Protector? ☒ Y ☐ N	Damage? ☒ Y ☐ N					
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly				
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber				
	125 ml NaOH							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol
1152		14.5	321	7.14	7.13	62.0	11.2	
1157		13.7	287	1.24	6.99	-71.8	8.6	
1200		13.6	284	0.86	7.03	-85.5	8.2	
1203		13.9	283	0.66	7.05	-93.1	9.1	
1206		13.7	280	0.55	7.06	-97.1	9.0	
1208		13.6	279	0.50	7.06	-99.3	8.7	
1212		13.5	279	0.47	7.07	-100.8	8.5	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb $\pm 10\%$ or ≤ 5

SAMPLER:

Jovany Estrada

Printed Name

Signature

Jovany Estrada

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02		Sampling Method :	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	304th		DTW	Meter:	CONTROL SETTINGS:	1 ft water = 0.62L	1L = 0.26 gallons		
Well ID:	MW-3		TOS	MP-20	Refill	One Well Volume	Other :		
Sample ID:	304-061925-03		Intake	YSI	Discharge	(liters)	Flow		
Date:	6/19/25		BOS		Pressure	Total Volume Bailed	Setting :		
Weather:	Cloudy		Total Depth		Flow	(liters)			
Filtered?	Y	N	Locked?	Y	N	Damage?	Y		
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly	Notes / Observations (color, odor, anomalies, etc):				
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber					
	125 ml NaOH								

[illegible]

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Printed Name _____

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>042250C1.02</u>	Sampling Method	Dedicated	<u>1.75" QED SamplePro</u>	Bail	Peristaltic	Grab	Other
Site: <u>LR 304th</u>	DTW	Meter:	<u>CONTROL SETTINGS</u>		1 ft water = 0.62L	1L = 0.26 gallons	
Well ID: <u>MW-4</u>	TOS	MP-20	Refill	<u>9</u>	One Well Volume (liters)	Other	
Sample ID: <u>304-061925-04</u>	Intake	<u>YSI</u>	Discharge	<u>6</u>	Total Volume Bailed (liters)	Flow Setting	
Date: <u>6/19/25</u>	BOS		Pressure	<u>50</u>			
Weather: <u>cloudy</u>	Total Depth		Flow				
Filtered? <u>Y</u> <u>N</u>	Locked? <u>Y</u> <u>N</u>	Water in Protector? <u>Y</u> <u>N</u>	Damage? <u>Y</u> <u>N</u>				
Sample Containers:		1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly		
		500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber		
		125 ml NaOH					

TIME	DTW	Temp	Sp Cond	DO	pH	Eh	Turbidity	Q / Vol
1345		14.6	362	3.57	7.25	46.7	28.6	
1350		14.3	351	3.23	7.27	49.1	35.2	
1353		14.3	350	3.36	7.28	50.2	39.0	
1356		14.2	348	3.44	7.28	51.6	52.9	
1359		14.2	346	3.39	7.29	52.2	62.23	
1402		14.1	345	3.37	7.29	52.2	72.77	
1405		14.2	344	3.29	7.29	52.3	82.15	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Jovany Estrada
Printed Name

Jovany Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 07225001-02	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>LP 304th</u>	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.26 gallons		
Well ID: <u>MW-SA</u>	DTW: <u>27.05</u>	Refill: <u>9</u>	One Well Volume (liters)		Other	
Sample ID: <u>304-P61925-05</u>	TOS	Discharge: <u>6</u>	Total Volume Bailed (liters)		Flow Setting	
Date: <u>6/19/25</u>	Intake	Pressure: <u>40</u>				
Weather: <u>partly cloudy</u>	BOS	Flow				
Filtered? <u>Y</u> <u>N</u>	Total Depth					
Locked? <u>Y</u> <u>N</u>	Damage? <u>Y</u> <u>N</u>					
Sample Containers:	Water in Protector? <u>Y</u> <u>N</u>					
1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly			
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber			
125 ml NaOH						

TIME	DTW	Temp	Sp Cond	DO	pH	Eh	Turbidity	Q / Vol.
1240		13.9	380	4.71	7.45	16.5	64.1	
1245		12.4	335	1.57	7.42	-36.5	18.7	
1248		12.4	350	1.14	7.48	-51.2	18.2	
1251		12.4	358	0.86	7.50	-64.4	24.0	
1254		12.4	361	0.75	7.51	-70.4	29.5	
1257		12.4	365	0.62	7.52	-77.9	31.85	
1300		12.4	366	0.58	7.53	-80.5	37.12	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Jorany Estrada
Printed Name

Jorany Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04225001.02</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>304+K</u>	DTW: <u>9.87</u>	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.26 gallons	
Well ID: <u>MW-6</u>	TOS	MP-20	Refill: <u>9</u>	One Well Volume (liters)	Other: _____	
Sample ID: <u>304-061925-06</u>	Intake	<u>YSI</u>	Discharge: <u>6</u>	Total Volume Bailed (liters)	Flow Setting: _____	
Date: <u>6/19/25</u>	BOS		Pressure: <u>35.25</u>			
Weather: <u>cloudy</u>	Total Depth		Flow			

Filtered? ☒ Y ☐ N Locked? Y ☒ Water in Protector? ☒ Y ☐ N Damage? Y ☒ N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1218		12.7	384.9	8.22	7.46	105.4	6.34	
1223		12.0	362.5	1.13	7.04	64.8	2.45	
1226		12.0	361.4	1.44	7.31	62.3	2.42	
1229		12.0	361.8	1.25	7.37	60.5	2.25	
1232								
1237		12.3	361.1	1.28	7.40	55.1	2.24	
1235								
1240		11.9	361.9	1.26	7.39	55.3	2.23	
1243		12.0	362.0	1.26	7.39	55.2	2.27	

Notes / Observations (color, odor, anomalies, etc):

1229 CO2 out

1237 resume

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Alex Des...
Printed Name

Am
Signature

(425) 746-4600

Signature

**2405 140th ave NE #107
Bellevue, WA 98005**

(425) 746-4600

Project #:	04225001.02			Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	304th			Meter:	CONTROL SETTINGS:			1 ft water = 0.62L 1L = 0.26 gallons		
Well ID:	MW-9			DTW	10.83	Refill	9	One Well Volume (liters)	Other:	
Sample ID:	304-061925-09			TOS		Discharge	6		Flow Setting:	
Date:	6/19/25			Intake	YSI	Pressure	45	Total Volume Bailed (liters)		
Weather:	Cloudy			BOS		Flow				
				Total Depth						
Filtered?	DN	Locked?	YN	Water in Protector?	Y	Damage?	Y	Notes / Observations (color, odor, anomalies, etc):		
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly						
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber						
	125 ml NaOH									

[illegible]

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Printed Name _____

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #	04225001.02		Sampling Method	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other		
Site	421 304th		DTW	29.04	Meter	CONTROL SETTINGS					
Well ID	MW-10		TOS		MP-20	Refill	11				
Sample ID	304-061925-11		Intake		YSI	Discharge	9				
Date	6/19/25		BOS			Pressure	40				
Weather	partly cloudy		Total Depth			Flow					
Filtered?	Y	N	Locked?	Y	N	Water in Protector?	Y	N	Damage?	Y	N
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly							
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber							
	125 ml NaOH										

TIME	DTW	Temp	Sp Cond	DO	pH	Eh	Turbidity	Q / Vol
0956		13.9	306	5.85	6.34	51.2	11.9	
1001		12.3	283	1.11	6.32	102.2	11.9	
1004		12.2	283	1.07	6.31	102.5	12.0	
1007		12.2	277	0.81	6.26	107.7	10.33	
1010		12.1	275	0.74	6.25	109.5	9.83	
1013		12.1	275	0.73	6.25	109.6	9.78	
1016		12.1	274	0.68	6.24	111.4	9.27	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Jovany Estrada
Printed Name

Jovany Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02			Sampling Method	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	LRI 304th			Meter:	CONTROL SETTINGS			1 ft water = 0.62L 1L = 0.26 gallons		
Well ID:	#B			DTW	Refill			One Well Volume (liters)		
Sample ID:	304-C61925-12			TOS	Discharge			Other		
Date:	6/19/25			Intake	Pressure			Flow Setting		
Weather:	partly cloudy			BOS	Flow			Total Volume Bailed (liters)		
Filtered?	Y	N		Total Depth						
Locked?	Y	N		Damage?	Y	N				
Sample Containers	1000 ml Poly	500 ml Poly	250 ml Poly							
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber						
	125 ml NaOH									

TIME	DTW	Temp	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol
1430		19.7	8.2	5.01	7.39	84.1	0.1	

Notes / Observations (color, odor, anomalies, etc.)

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb $\pm 10\%$ or ≤ 5

SAMPLER: Jovany Estrada
Printed Name

Jovany Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04225001-02</u>	Sampling Method	Dedicated	1.75" QED SamplePro	<u>Bail</u>	Peristaltic	Grab	Other
Site: <u>121 304th</u>	DTW	Meter:	CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.26 gallons		
Well ID: <u>304-061825-12</u>	TOS	MP-20	Refill	One Well Volume (liters)	Other		
Sample ID: <u>UBCS-1</u>	Intake	<u>YSI</u>	Discharge	Total Volume Bailed (liters)	Flow Setting		
Date: <u>6/18/25</u>	BOS		Pressure				
Weather: <u>cloudy</u>	Total Depth		Flow				
Filtered? <u>Y</u> N	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y N				
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly			
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber			
	125 ml NaOH						

TIME	DTW	Temp.	Sp Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1445		22.6	569	6.45	6.12	-5.2	20.5	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Jovany Estrada
Printed Name

Signature

Jovany Estrada

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	141 304th	DTW:	29.39	Meter:	CONTROL SETTINGS:	1 ft water = 0.62L	1L = 0.26 gallons	
Well ID:	1DCS-2A	TOS:		MP-20	Refill	One Well Volume (liters)	Other	
Sample ID:	304-061825-13	Intake:		YSI	Discharge	Total Volume Bailed (liters)	Flow Setting	
Date:	6/18/25	BOS:			Pressure			
Weather:	cloudy	Total Depth:			Flow			
Filtered?	Y (N)	Locked?	Y (N)	Water in Protector?	Y (N)	Damage?	Y (N)	
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly				
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber				
	125 ml NaOH							

TIME	DTW	Temp	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1400		23.2	914	6.22	6.55	9.4	10.7	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Jovany Estrada
Printed Name

Signature

Jovany Estrada

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	1st 304th	DTW	Meter:	CONTROL SETTINGS:				
Well ID:	DCS-2B	TOS	MP-20	Refill	1 ft water = 0.62L			
Sample ID:	304-061825-14	Intake	YSI	Discharge	1L = 0.26 gallons			
Date:	6/18/25	BOS		Pressure	One Well Volume (liters)			
Weather:	Cloudy	Total Depth		Flow	Total Volume Bailed (liters)			
Filtered?	Y N				Other			
Sample Containers:	1000 ml Poly	Water in Protector?	Y N		Flow Setting			
	500 ml HNO3 x2	500 ml H2SO4 x2	250 ml Poly					
	125 ml NaOH	40 ml VOA x3 x6	125 ml Poly					

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1340		19.3	884	7.32	6.38	-72.0	51.6	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Jovany Estrada
Printed Name

Jovany Estrada
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04225001.02

Site: 141 304th

Well ID: WCS-3A

Sample ID: 304-061825-15

Date: 3/16/25

Weather: cloudy

Filtered? ☒ Y ☐ N

Locked? Y ☒ N

Water in Protector? Y ☒ N

Damage? Y ☒ N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Sampling Method: Dedicated

Meter: MP-20

YSI

CONTROL SETTINGS:

Refill: 9

Discharge: 6

Pressure: 60

Flow:

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

1 fl water = 0.62L

1L = 0.26 gallons

One Well Volume (liters)

Total Volume Bailed (liters)

Other

Flow Setting

TIME	DTW	Temp	Sp Cond	DO	pH	Eh	Turbidity	Q / Vol
1310		22.2	1016	1.74	6.17	-13.3	3.3	

Notes / Observations (color, odor, anomalies, etc):

pump did not produce water. collected grab sample instead

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Jovanny Estrada

Printed Name

Jovanny Estrada

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001-02		Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	121 304th		DTW	Meter:	CONTROL SETTINGS		1 ft water = 0.62L 1L = 0.26 gallons		
Well ID:	BCS-4A		TOS	MP-20	Refill	7	One Well Volume (liters)	Other	
Sample ID:	304-061825-16		Intake	YSI	Discharge	3	Flow Setting		
Date:	6/18/25		BOS		Pressure	60	Total Volume Bailed (liters)		
Weather:	clear		Total Depth		Flow				
Filtered? Y N	Locked? Y N	Water in Protector? Y N	Damage? Y N						
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly					
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber					
	125 ml NaOH								

TIME	DTW	Temp	Sp Cond	DO	pH	Eh	Turbidity	Q / Vol.
0930		20.6	746	3.39	6.55	85.0	17.5	
0935		19.5	745	1.22	6.38	94.8	7.7	
0938		19.8	714	0.94	6.31	101.1	7.0	
0941		20.2	712	0.91	6.27	105.1	6.1	
0944		20.8	713	1.25	6.21	111.6	5.3	
0947		21.4	717	1.85	6.06	86.6	42.4	
0950		21.3	721	1.72	6.08	64.7	104.3	
0953		20.8	748	1.11	6.17	48.6	237.2	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO $\pm$ 0.2, SpC $\pm$ 10%, Temp $\pm$ 0.5°C, Turb. $\pm$ 10% or $\leq$ 5

SAMPLER:

Jovany Estrada
Printed Name

Jovany Estrada
Signature

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	0422300102		Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	304th		DTW	Meter:	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.26 gallons	
Well ID:	LOCS-413		TOS	MP-20	Refill	12	One Well Volume	Other:	
Sample ID:	304-061825-17		Intake	YSI	Discharge	3	(liters)	Flow	
Date:	6/18/25		BOS		Pressure	60	Total Volume Bailed	Setting:	
Weather:	cloudy		Total Depth		Flow		(liters)		
Filtered?	☒ N	Locked?	Y ☒	Water in Protector?	Y ☒	Damage?	Y ☒		
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly					
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber					
	125 ml NaOH								
Notes / Observations (color, odor, anomalies, etc):									

[illegible]

Notes / Observations (color, odor, anomalies, etc):

Dedicated pump not operating.
Taken as grab from storm
channel discharge.

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Alex Deszo
Printed Name

Signature _____

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02			Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	304+4			Meter:	CONTROL SETTINGS:			1 ft water = 0.62L 1L = 0.26 gallons		
Well ID:	1065-5			DTW	MP-20	Refill	12	One Well Volume	Other:	
Sample ID:	304-061825-18			TOS	YSI	Discharge	3	(liters)	Flow	
Date:	6/18/25			Intake		Pressure	40	Total Volume Bailed	Setting:	
Weather:	Cloudy			BOS		Flow		(liters)		
Filtered?	N			Total Depth						
Sample Containers:	Locked? Y ☒	Water in Protector? Y ☒	Damage? Y ☒							
	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly						
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber						
	125 ml NaOH									
Notes / Observations (color, odor, anomalies, etc):										

[illegible]

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER:

Printed Name _____

Signature _____

Bellevue, WA 98005

(425) 746-4600

Project #:	04225001.02	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	304th	Meter:	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.26 gallons		
Well ID:	LOC-6	MP-20	Refill	12	One Well Volume (liters)	Other:		
Sample ID:	304-061825-19	YSI	Discharge	3	Total Volume Bailed (liters)	Flow Setting:		
Date:	6/18/25	BOS	Pressure	40				
Weather:	Cloudy	Total Depth	Flow					
Filtered?	Y	Locked?	Y	N	Water in Protector?	Y	N	Damage?
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly	Notes / Observations (color, odor, anomalies, etc):			
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber				
	125 ml NaOH							

[illegible]

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Jovany Estrada
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site:	121 304th	DTW	Meter:	CONTROL SETTINGS:				
Well ID:	LPCS-7	TOS	MP-20	Refill	1 ft water = 0.62L		1L = 0.26 gallons	
Sample ID:	304-061825-20	Intake	YSI	Discharge	One Well Volume (liters)		Other	
Date:	6/18/25	BOS		Pressure	Total Volume Bailed (liters)		Flow Setting	
Weather:	Cloudy	Total Depth		Flow				
Filtered? ☒ N	Locked? ☒ N	Water in Protector? ☒ N	Damage? ☒ N					
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly				
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber				
	125 ml NaOH							

TIME	DTW	Temp.	Sp Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1115		19.4	680	2.00	6.60	95.5	4.1	
1120		19.3	680	1.42	6.55	96.0	3.8	
1123		19.2	677	1.21	6.54	96.1	3.8	
1126		19.3	671	0.79	6.58	96.5	4.1	
1129		19.7	673	0.67	6.62	95.8	4.0	
1132		20.5	681	0.58	6.67	93.2	5.0	
1135		21.0	686	0.53	6.66	70.3	4.7	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER Jorany Estrada
Printed Name

Jorany Estrada
Signature

Bellevue, WA 98005

(425) 746-4600

Project #:	0422500102			Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site	304 th			Meter:	CONTROL SETTINGS:					
Well ID:	1DCS-8			DTW			1 ft water = 0.62L	1L = 0.26 gallons		
Sample ID:	304-061825-21			TOS			One Well Volume	Other:		
Date:	6/18/25			Intake			(liters)	Flow		
Weather:	Cloudy, light rain			BOS			Total Volume Bailed	Setting:		
Filtered?	Y N			Total Depth			(liters)			
Locked?	Y N			Damage?	Y N					
Sample Containers:	1000 ml Poly			250 ml Poly	125 ml Poly					
	500 ml HNO3 x2			500 ml H2SO4 x2	40 ml VOA x3 x6					
	125 ml NaOH			1000 ml Amber						
Notes / Observations (color, odor, anomalies, etc):										

[illegible]

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Alex Deszo
Printed Name

Signature AD

Bellevue, WA 98005

(425) 746-4600

Signature

Signature _____

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04225001-02	Sampling Method	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Lr1 304th	DTW	CONTROL SETTINGS:		1 ft water = 0.82L		1L = 0.26 gallons	
Well ID: Leachate, Cell 7	TOS	Meter:	Refill	One Well Volume (liters)	Other		
Sample ID: 304-061825-24	Intake	MP-20	Discharge	Total Volume Bailed (liters)	Flow Setting		
Date: 6/18/25	BOS	YSI	Pressure				
Weather: Cloudy	Total Depth		Flow				
Filtered? Y ☒ N	Locked? Y ☒ N	Water in Protector? Y ☒ N	Damage? Y ☒ N				
Sample Containers:		1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly		
		500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber		
		125 ml NaOH					

TIME	DTW	Temp	Sp. Cond	DO	pH	Eh	Turbidity	Q / Vol
1150		29.6	12242	6.16	7.81	-318.7	362.1	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER

Jovanny Estrada
Printed Name

Signature

Jovanny Estrada

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #:	04225001.02			Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	<u>Grab</u>	Other	
Site	304+4			Meter:	CONTROL SETTINGS:						
Well ID:	Leachate Cell 8			MP-20	1 ft water = 0.62L		1L = 0.26 gallons				
Sample ID:	304-061825-25			Intake	Refill	One Well Volume		Other:			
Date:	6/18/12			BOS	Discharge	(liters)		Flow			
Weather:	Cloudy			Total Depth	Pressure	Total Volume Bailed		Setting:			
					Flow	(liters)					
Filtered? Y <u>N</u>	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y <u>N</u>								
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly							
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber							
	125 ml NaOH										
Notes / Observations (color, odor, anomalies, etc):											

[illegible]

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2 , SpC $\pm 10\%$, Temp $\pm 0.5^\circ\text{C}$, Turb. $\pm 10\%$ or ≤ 5

SAMPLER: Alex Dezo
Printed Name

Signature _____

**2405 140th ave NE #107
Bellevue, WA 98005**

Groundwater Sampling Data Sheet

[illegible]

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is a vertical margin line on the left side, creating a narrow left margin. The paper appears to be from a notebook or a standard ruled document.

SAMPLER: Alfred
Printed Name

Signature _____

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	6/18/25					
Time	0845					
Weather (sky or precip, temp)	Partly cloudy 60°F					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 100, 20, <0.1	800,
Pre-Cal Reading	1432	3.99	6.91	8.68		
Post Cal Reading	1413	4.00	7.00	8.50		
Discrepancy	NO					
Calib. Successful?	Yes					
Calibration by	AMD					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental			YSI Pro DDS / HACH2000		
Calibration Location	304th office lot					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	6/18/25					
Time	0850					
Weather (sky or precip, temp)	Clear					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 100, 20, <0.1	800,
Pre-Cal Reading	1185	3.99	7.32	9.07		
Post Cal Reading	1413	4.00	7.00	8.50		
Discrepancy	No					
Calib. Successful?	yes					
Calibration by	J. Estrada					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental			YSI Pro DDS / HACH2000		
Calibration Location	Parking Lot					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)



Attachment D

Statistical Calculations

Statistical Summary of Total Metals and Nitrate Groundwater Data
Appendix I Parameters, Second Quarter 2025

Location ID	Antimony (Sb)				Arsenic (As)				Barium (Ba)				Beryllium (Be)				Cadmium (Cd)				Chromium (Cr)				Cobalt (Co)				Copper (Cu)				Lead (Pb)				Nickel (Ni)				Selenium (Se)				Silver (Ag)				Thallium (Tl)				Vanadium (V)				Zinc (Zn)				Nitrate (NO ₃)			
Monitoring Date	Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.		Result		Conc.																	
MW-1	3/24/2014	0.002	L	0.001	0.005	L	0.0025	0.022	0.022	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	6/24/2014	0.002	L	0.001	0.005	L	0.0025	0.02	0.02	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	9/17/2014	0.05	L	0.025	0.005	L	0.0025	0.024	0.024	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.01	L	0.005	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.02	0.02	0.5	L	0.25														
	12/16/2014	0.05	L	0.025	0.005	L	0.0025	0.03	0.03	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.032	0.032	0.5	L	0.25																	
	3/23/2015	0.05	L	0.025	0.005	L	0.0025	0.02	0.02	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.05	L	0.25																
	6/8/2015	0.05	L	0.025	0.005	L	0.0025	0.022	0.022	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.5	L	0.25																
	9/16/2015	0.05	L	0.025	0.005	L	0.0025	0.021	0.021	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.5	L	0.25																
	12/14/2015	0.05	L	0.025	0.005	L	0.0025	0.024	0.024	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.5	L	0.25																
	Number Analyzed	8				8				8				8				8				8				8				8				8				8				8				8				8														
Number Detected	0				0				8				0				0				0				0				0				0				0				0				2				0															
Minimum Concentration			0.001				0.02				0.0005				0.0005				0.001				0.0005				0.001				0.0005				0.0025				0.0025				0.0005				0.25																	
Maximum Concentration			0.025				0.0025				0.0025				0.0025				0.005				0.005				0.001				0.001				0.0025				0.005				0.032				0.25																	
Average Concentration			NC				NC				0.02288				NC				NC				NC				NC				NC				NC				NC				NC				NC																	
Variance			NC				NC				1.1E-05				NC				NC				NC				NC				NC				NC				NC				NC				NC																	
Standard Deviation			NC				NC				0.0033				NC				NC				NC				NC				NC				NC				NC				NC				NC																	
Coefficient of Variation (%)			NC				NC				14.2974				NC				NC				NC				NC				NC				NC				NC				NC				NC																	
Standard Error			NC				NC				0.00116				NC				NC				NC				NC				NC				NC				NC				NC				NC																	
MW-2	3/24/2014	0.002	L	0.001	0.005	L	0.0025	0.014	0.014	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	6/26/2014	0.002	L	0.001	0.005	L	0.0025	0.015	0.015	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	9/16/2014	0.05	L	0.025	0.005	L	0.0025	0.018	0.018	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.01	L	0.005	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	12/16/2014	0.05	L	0.025	0.005	L	0.0025	0.014	0.014	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25													
	3/23/2015	0.05	L	0.025	0.005	L	0.0025	0.012	0.012	0.001	L																																																					

Statistical Summary of Total Metals and Nitrate Groundwater Data Appendix I Parameters, Second Quarter 2025

Location ID	Antimony (Sb)			Arsenic (As)		Barium (Ba)		Beryllium (Be)			Cadmium (Cd)		Chromium (Cr)			Cobalt (Co)			Copper (Cu)			Lead (Pb)			Nickel (Ni)			Selenium (Se)			Silver (Ag)			Thallium (Tl)			Vanadium (V)			Zinc (Zn)			Nitrate (NO ₃)							
Monitoring Date	Result	Conc.		Result	Conc.	Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.	Result	Conc.		Result	Conc.								
MW-5	3/24/2014	0.002	L	0.001	0.0072	0.0072	0.032	0.032	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	6/25/2014	0.002	L	0.001	0.0067	0.0067	0.033	0.033	0.001	L	0.0005	0.005	L	0.0025	0.0036		0.0036	0.01	L	0.005	0.0061		0.0061	0.001	L	0.0005	0.0043		0.0043	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	9/16/2014	0.05	L	0.025	0.0059	0.0059	0.036	0.036	0.005	L	0.0025	0.005	L	0.0025	0.0051		0.0051	0.01	L	0.005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.01	L	0.005	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.01	0.5	L	0.25			
	12/16/2014	0.05	L	0.025	0.0055	0.0055	0.022	0.022	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.5	L	0.25			
	3/23/2015	0.05	L	0.025	0.008	0.008	0.03	0.03	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	6/8/2015	0.05	L	0.025	0.0075	0.0075	0.02	0.02	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	9/18/2015	0.05	L	0.025	0.005	L	0.0025	0.014	0.014	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25		
	12/14/2015	0.05	L	0.025	0.0072	0.0072	0.021	0.021	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
Number Analyzed	8			8			8			8			8			8			8			8			8			8			8			8			8			8			8			8				
Number Detected	0			7			8			0			0			2			0			1			0			1			0			0			0			1			0			0				
Minimum Concentration		0.001			0.0025			0.014			0.0005			0.0005			0.001			0.0005			0.001			0.0005			0.0025			0.0025			0.0005			0.0025			0.005			0.25						
Maximum Concentration		0.025			0.008			0.036			0.0025			0.0051			0.005			0.0061			0.001			0.01			0.0025			0.005			0.0025			0.01			0.25									
Average Concentration		NC			0.00631			0.026			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Variance		NC			3E-06			6E-05			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Standard Deviation		NC			0.00175			0.00776			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Coefficient of Variation (%)		NC			27.6653			29.863			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Standard Error		NC			0.00062			0.00275			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
MW-6	3/26/2014	0.002	L	0.001	0.0075	0.0075	0.014	0.014	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	6/25/2014	0.002	L	0.001	0.0065	0.0065	0.011	0.011	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	9/18/2014	0.002	L	0.001	0.0078	0.0078	0.01	0.01	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	12/17/2014	0.05	L	0.025	0.0068	0.0068	0.012	0.012	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25
	3/26/2015	0.05	L	0.025	0.0068	0.0068	0.01	0.01	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	6/8/2015	0.05	L	0.025	0.0075	0.0075	0.01	0.01	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	9/17/2015	0.05	L	0.025	0.0069	0.0069	0.011	0.011	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	12/14/2015	0.05	L	0.025	0.0074	0.0074	0.011	0.011	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
Number Analyzed	8			8			8			8			8			8			8			8			8			8			8			8			8			8			8			8				
Number Detected	0			8			8			0			0			0			0			0			0			0			0			0			0			0			0			0				
Minimum Concentration		0.001			0.0065			0.01			0.0005			0.0005			0.001			0.0005			0.001			0.0005			0.0025			0.0025			0.0005			0.0025			0.005			0.25						
Maximum Concentration		0.025			0.0078			0.014			0.0005			0.0025			0.005			0.0025			0.001			0.01			0.0025			0.005			0.0025			0.005			0.005			0.25						
Average Concentration		NC			0.00715			0.01113			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Variance		NC			2.1E-07			1.8E-06			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Standard Deviation		NC			0.00046			0.00136			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Coefficient of Variation (%)		NC			6.38736			12.1906			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
Standard Error		NC			0.00016			0.00048			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC			NC						
MW-7	3/26/2014	0.002	L	0.001	0.0054	0.0054	0.016	0.016	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	6/26/2014	0.002	L	0.001	0.0053	0.0053	0.016	0.016	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.01	L	0.005	0.01	L	0.005	0.5	L	0.25			
	9/17/2014	0.05	L	0.025	0.0052	0.0052	0.015	0.015	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.01	L	0.005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.01	L	0.005	0.005	L	0.0												

Statistical Summary of Total Metals and Nitrate Groundwater Data Appendix I Parameters, Second Quarter 2025

Location ID	Antimony (Sb)			Arsenic (As)			Barium (Ba)			Beryllium (Be)			Cadmium (Cd)			Chromium (Cr)			Cobalt (Co)			Copper (Cu)			Lead (Pb)			Nickel (Ni)			Selenium (Se)			Silver (Ag)			Thallium (Tl)			Vanadium (V)			Zinc (Zn)			Nitrate (NO ₃)			
Monitoring Date	Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.		Result	Conc.					
MW-9	3/25/2014	0.002	L	0.001	0.005	L	0.0025	0.0047		0.0047	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.016		0.016	0.01		0.01	0.5	L	0.25
	6/24/2014	0.002	L	0.001	0.005	L	0.0025	0.0045		0.0045	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.016		0.016	0.01	L	0.005	0.5	L	0.25
	9/18/2014	0.002	L	0.001	0.005	L	0.0025	0.0057		0.0057	0.001	L	0.0005	0.005	L	0.0025	0.002	L	0.001	0.01	L	0.005	0.002	L	0.001	0.001	L	0.0005	0.002	L	0.001	0.005	L	0.0025	0.01	L	0.005	0.001	L	0.0005	0.014		0.014	0.014		0.014	0.5	L	0.25
	12/17/2014	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	3/24/2015	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.013		0.013	0.01	L	0.005	0.5	L	0.25
	6/9/2015	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	9/18/2015	0.05	L	0.025	0.005	L	0.0025	0.005		0.005	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	12/16/2015	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.042		0.042	0.5	L	0.25
	3/22/2016	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.028		0.028	0.5	L	0.25
	6/8/2016	0.05	L	0.025	0.005	L	0.0025	0.005		0.005	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.023		0.023	0.5	L	0.25
	9/16/2016	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.015		0.015	0.043		0.043	0.5	L	0.25
	12/6/2016	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	3/29/2017	0.05	L	0.025	0.005	L	0.0025	0.0056		0.0056	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	6/22/2017	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	9/26/2017	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.012		0.012	0.01	L	0.005	0.5	L	0.25
	12/13/2017	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.013		0.013	0.01	L	0.005	0.5	L	0.25
	3/21/2018	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.016		0.016	0.01	L	0.005	0.5	L	0.25
	6/19/2018	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.013		0.013	0.01	L	0.005	0.5	L	0.25
	9/19/2018	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.013		0.013	0.01	L	0.005	0.5	L	0.25
	12/4/2018	0.05	L	0.025	0.005	L	0.0025	0.0051		0.0051	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	3/11/2019	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	6/19/2019	0.05	L	0.025	0.005	L	0.0025	0.0051		0.0051	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.013		0.013	0.01	L	0.005	0.5	L	0.25
	9/26/2019	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	12/11/2019	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.016		0.016	0.01	L	0.005	0.5	L	0.25
	3/17/2020	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.015		0.015	0.01	L	0.005	0.5	L	0.25
	6/8/2020	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	9/22/2020	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.016		0.016	0.01	L	0.005	0.5	L	0.25
	12/16/2020	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0.001	L	0.0005	0.001	L	0.0005	0.005	L	0.0025	0.001	L	0.0005	0.01	L	0.005	0.002	L	0.001	0.02	L	0.01	0.005	L	0.0025	0.005	L	0.0025	0.005	L	0.0025	0.014		0.014	0.01	L	0.005	0.5	L	0.25
	3/9/2021	0.05	L	0.025	0.005	L	0.0025	0.005	L	0.0025	0																																						

Statistical Summary of Total Metals and Nitrate Groundwater Data Appendix I Parameters, Second Quarter 2025

[illegible]

Notes: Metals results are for total metals.
mg/L = milligrams per liter.
L = not reported at or above the MRL (Method Reporting Limit).
One-half the MRL value used for statistical calculations when concentrations not reported at or above the MRL.
NC = not calculated due to insufficient number of reported detections.

Groundwater Prediction Limits (mg/L)
Appendix I Parameters, Second Quarter 2025
LRI Landfill, Pierce County, Washington

	MRL (typical)	Prediction Limit	MW-1/ MW-1A	MW-2/ MW-2A	MW-3	MW-4	MW-5/ MW-5A	MW-6	MW-7	MW-9	MW-10
Antimony	0.050	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L	0.050 L
Arsenic	0.005	0.011	0.005 L	0.005 L	0.005 L	0.011	0.008	0.008	0.006	0.005 L	0.005 L
Barium	0.005	0.091	0.030	0.018	0.015	0.091	0.036	0.014	0.016	0.0057	0.017
Beryllium	0.005	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.001 L	0.005 L	0.001 L	0.005 L
Cadmium	0.005	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L
Chromium	0.005	0.011	0.005 L	0.005 L	0.005 L	0.011	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L
Cobalt	0.010	0.010 L	0.010 L	0.010 L	0.010 L	0.004	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L
Copper	0.010	0.063	0.010 L	0.010 L	0.010 L	0.063	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L
Lead	0.002	0.042	0.002 L	0.002 L	0.002 L	0.042	0.002 L	0.002 L	0.002 L	0.002 L	0.002 L
Nickel	0.020	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L	0.020 L
Selenium	0.005	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L
Silver	0.010	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L	0.010 L
Thallium	0.005	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L	0.005 L
Vanadium	0.010	0.017	0.010 L	0.010 L	0.010 L	0.014	0.010 L	0.010 L	0.010 L	0.017	0.010 L
Zinc	0.01	0.290	0.032	0.010 L	0.010 L	0.290	0.010 L	0.010 L	0.010 L	0.043	0.034
Nitrate as Nitrogen	0.50	6.40	0.500 L	0.500 L	0.500 L	0.500 L	0.500 L	0.500 L	0.500 L	0.500 L	6.40

Notes:

Prediction Limits are shown in bold.

Prediction Limits for metals are for total metals.

L = not reported at or above the MRL (Method Reporting Limit).

mg/L = milligrams per liter.

Attachment E

Trilinear Diagrams

SECOND QTR. 2025 DATA VALIDATION REPORT – LRI LANDFILL**Project Details**

Project No.	04225001.02	Site Name	LRI 304 th Street LF
Data Validator	Jovany Estrada	Data Level	Level 2
Date	10/17/2025	DV Tier	Tier 1
QA Document	LRI Landfill Groundwater Monitoring Plan, March 10, 2014		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
280-209353-1	No Comment.	Eurofins, Denver CO
280-209366-1	No Comment.	Eurofins, Denver CO
280-209429-1	No Comment	Eurofins, Denver CO

Analytical Summary

Sample Group	Analyses					
	TDS/Alk/NO3	Metals	NH3/TOC	VOCs	Anions	TSS
280-209353-1	X	X	X	X	X	-
280-209366-1	X	X	X	X	X	-
280-209429-1	X	X	X	X	X	X

Notes:

1. Dissolved metals analysis performed (field filtered)
2. Dissolved and Total metals analysis performed
3. Total Metals analysis performed

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable.	See case narratives
LCS/LCSD	Acceptable.	See case narratives.
MS/MSD	Acceptable	See case narratives.
Metals	Acceptable.	See case narratives.
Duplicates	Acceptable.	See case narratives.
Organics	Acceptable.	See case narratives.
General Chemistry	Acceptable.	See case narratives.
General Comments	Acceptable.	See case narratives.



Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
QC-FB	280-209366	1,4-Dichlorobenzene	

Lab Quality Flags

Flag	Sample Groups	Comments
4	280-209353-1, 280-209366-1, 280-209429-1	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	280-209366-1	MS and/or MSD recovery exceeds control limits.
J	280-209353-1, 280-209366-1, 280-209429-1	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	280-209366-1, 280-209429-1	Result exceeded the calibration range.
H	280-209353-1, 280-209366-1	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
*+	280-209353-1, 280-209366-1, 280-209429-1	LCS and/or LCSD is outside acceptance limits, high biased.
B	280-209353-1	Compound was found in the blank and sample.

Duplicate Evaluation

Analyte	Units	MW-7 (304-061925-07)	MW-7 DUP (304-061925-08)	RPD (%)
Alkalinity	mg/L	180	190	5.41
Ammonia	mg/L	0.22	0.19	14.63
Barium, Total	mg/L	0.015	0.016	6.45
Calcium, Dissolved	mg/L	31	31	0.00
Chloride	mg/L	3.3	3.3	0.00
Iron, Dissolved	mg/L	0.23	0.23	0.00
Magnesium, Dissolved	mg/L	21	21	0.00
Manganese, Dissolved	mg/L	0.24	0.24	0.00
Potassium, Dissolved	mg/L	6.6	6.4	3.08
Sodium, Dissolved	mg/L	14	13	7.41
Sulfate	mg/L	2.7	2.8	3.64
Total Dissolved Solids	mg/L	220	220	0.00

U = Non-detection. Reporting limit (RL) used for calculation of RPD when necessary.

Additional Data Flags

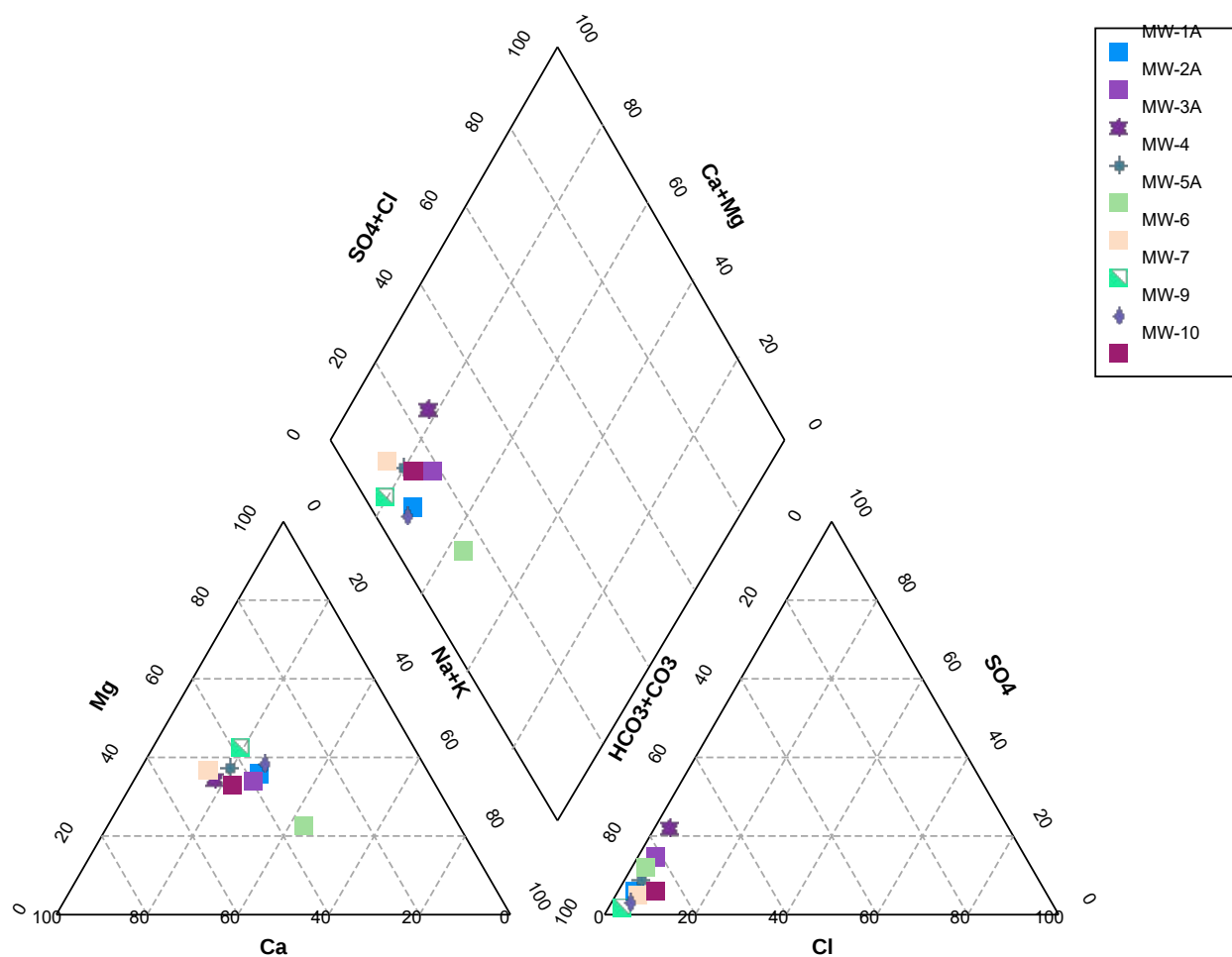
Flag	Description
U	Not detected above the method reporting limit.

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

Attachment F

Analytical Data Validation Report



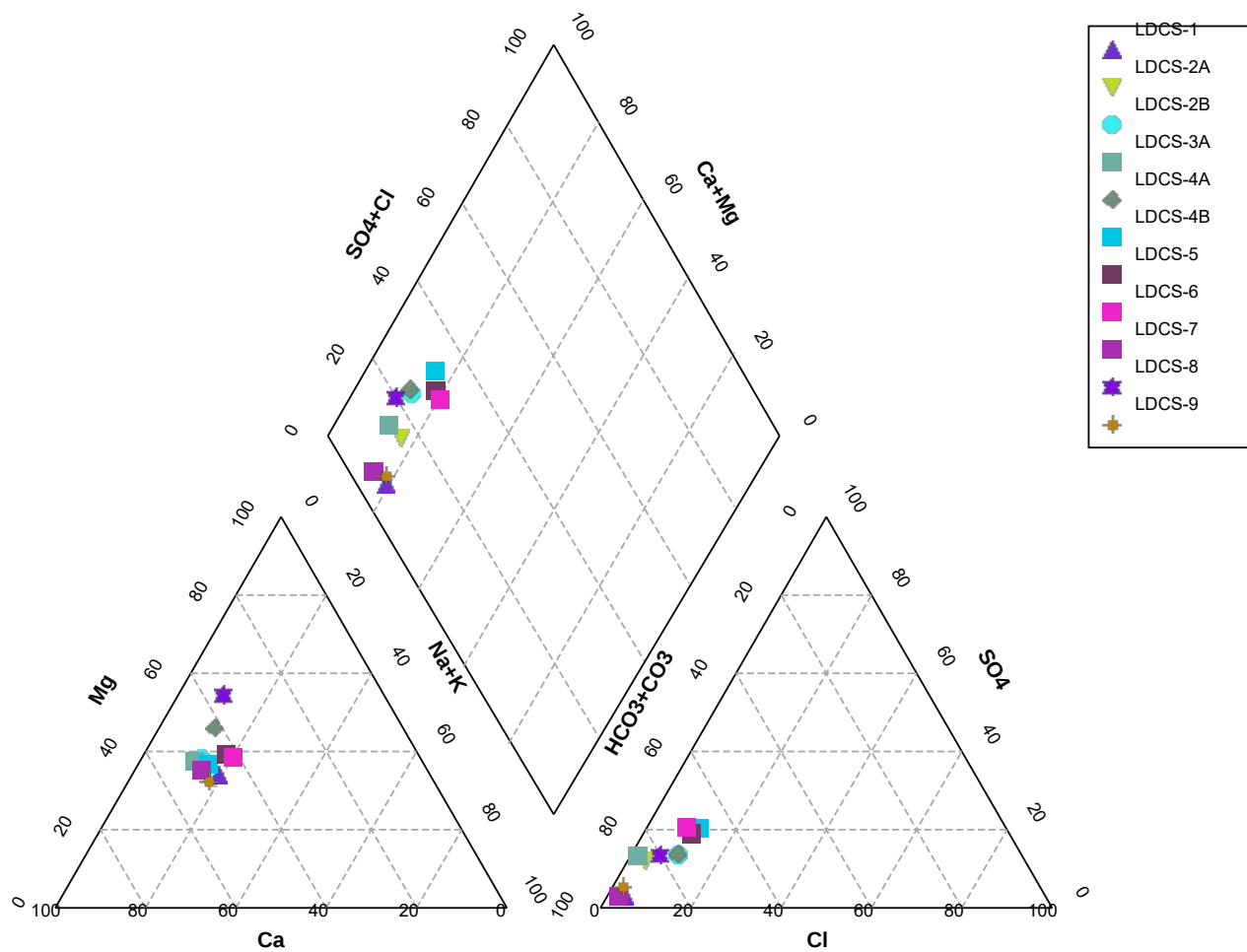
LRI Landfill

Piper Diagram – 25Q2 Monitoring Wells

LRI Inc.

04225001.02

October 21, 2025



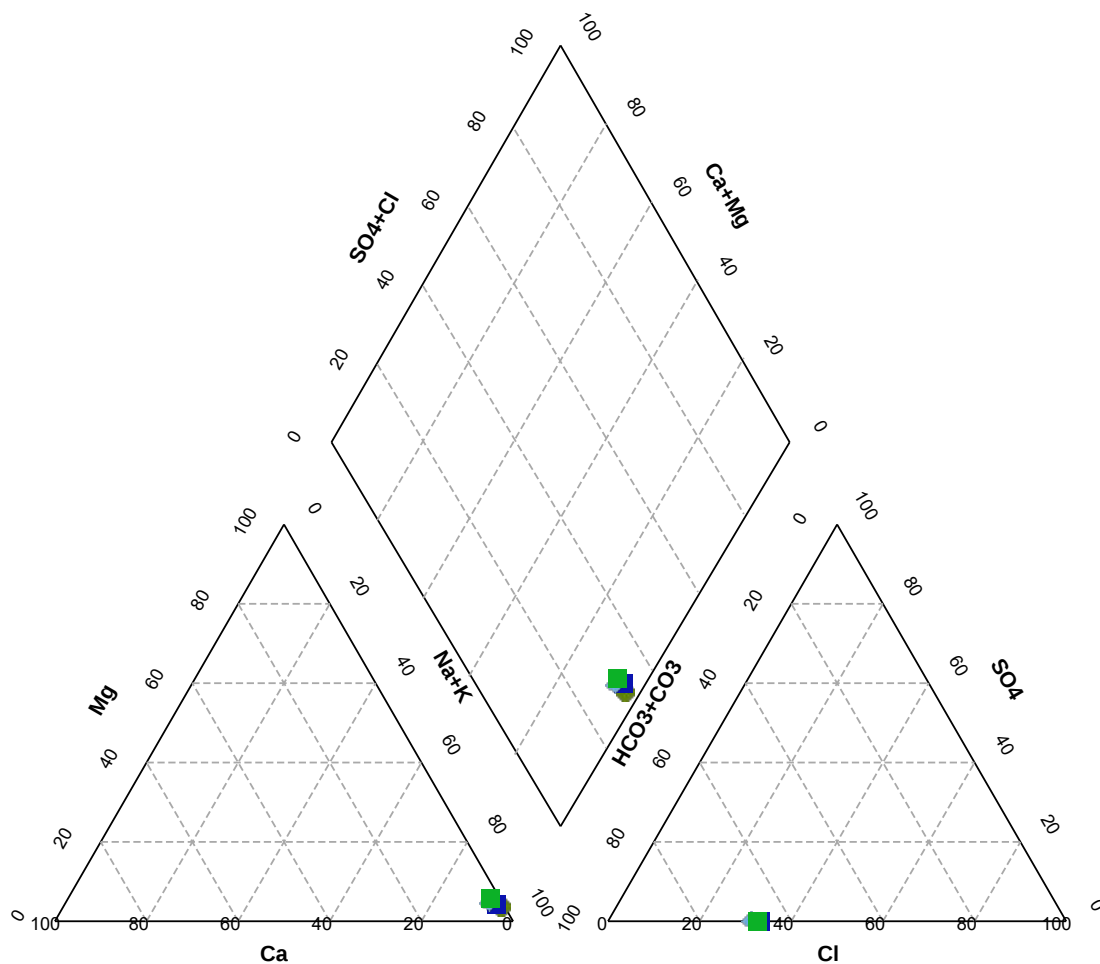
LRI Landfill

Piper Diagram – 25Q2 LDCS

LRI Inc.

04225001.02

October 21, 2025



LRI Landfill

Piper Diagram – 25Q2 Leachate

LRI Inc.

04225001.02

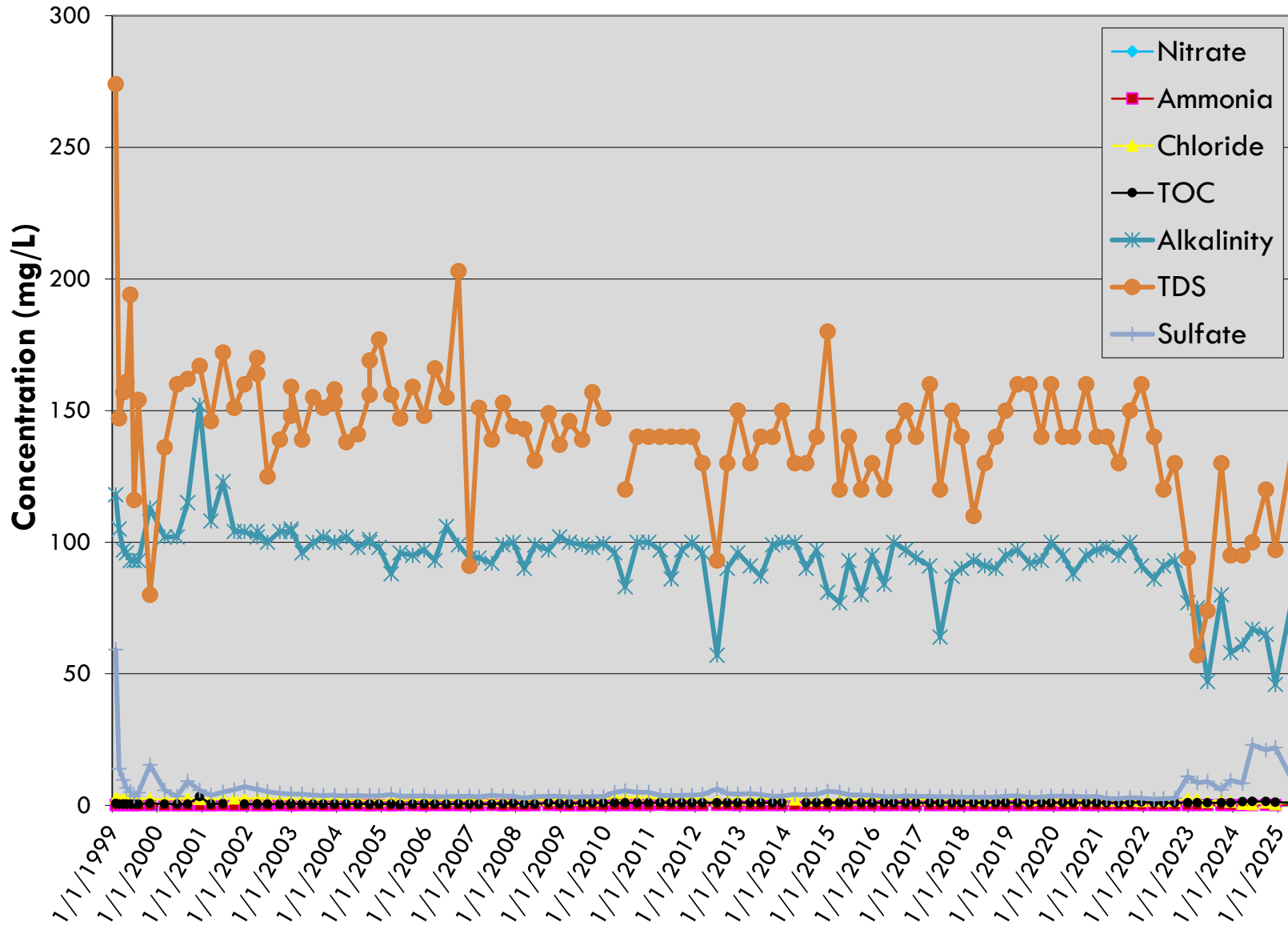
October 21, 2025

Attachment G

Groundwater and LDCS Time Trend Plots

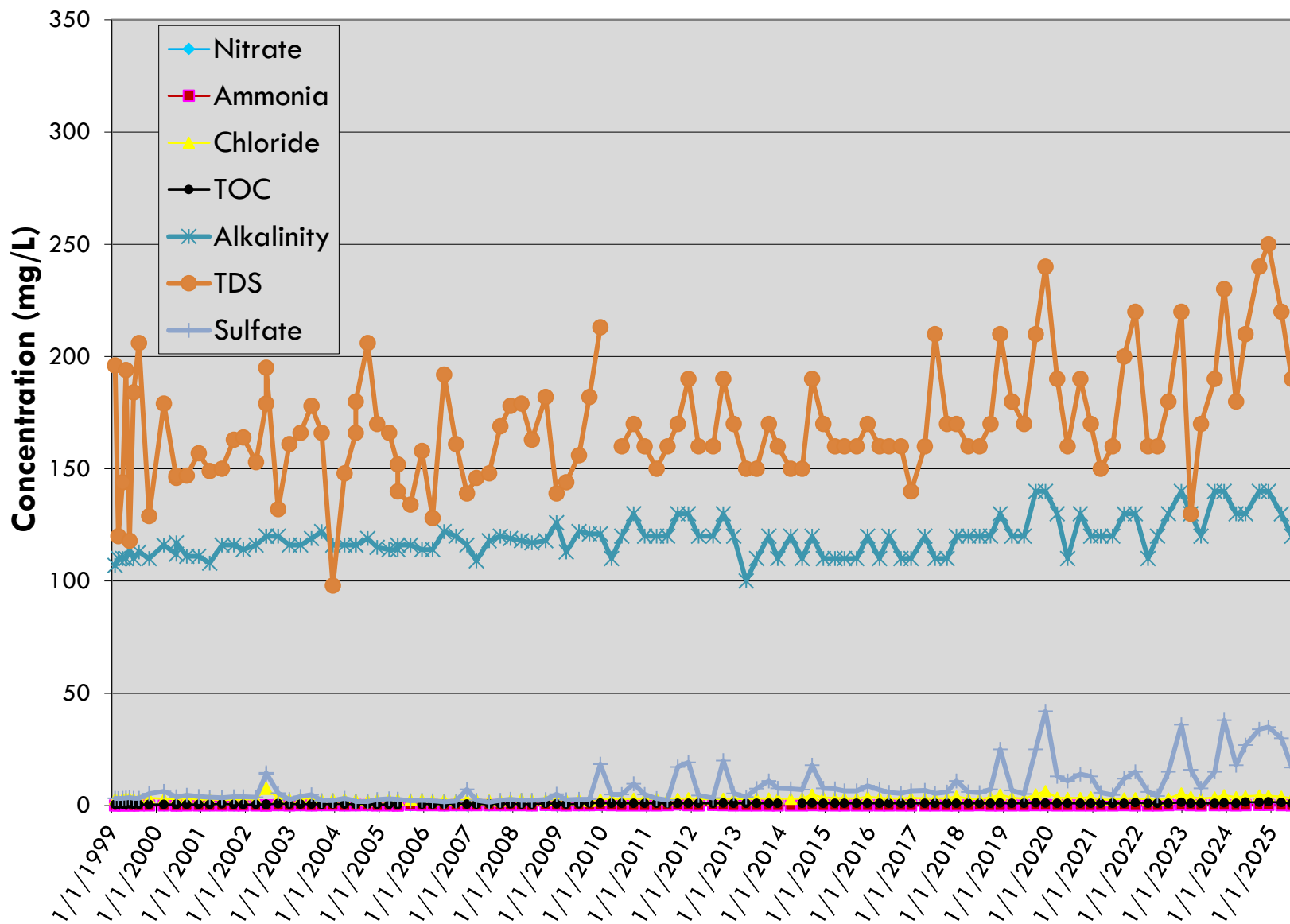
MW-1A

LRI Landfill, Pierce County, Washington



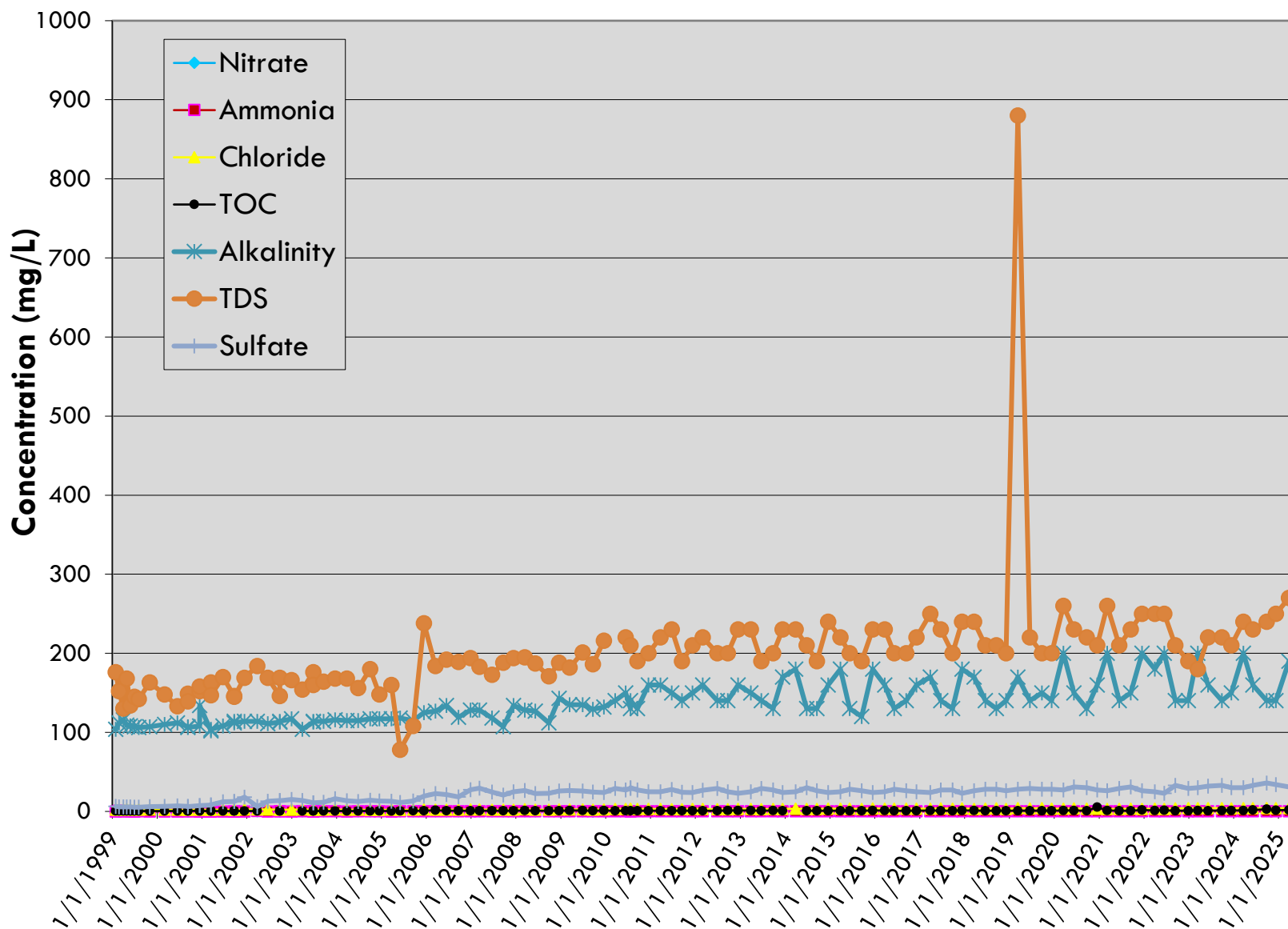
MW-2A

LRI Landfill, Pierce County, Washington



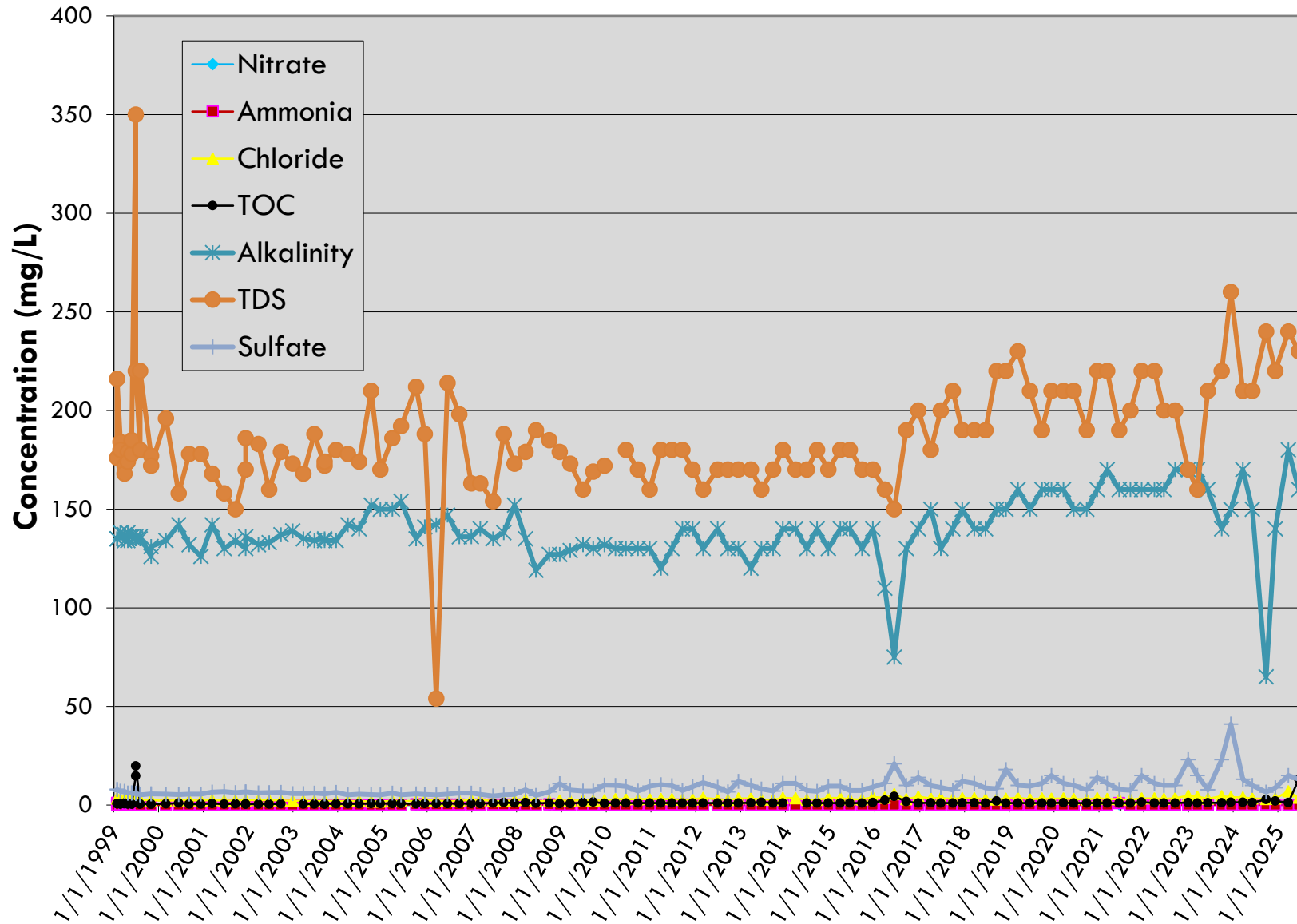
MW-3

LRI Landfill, Pierce County, Washington



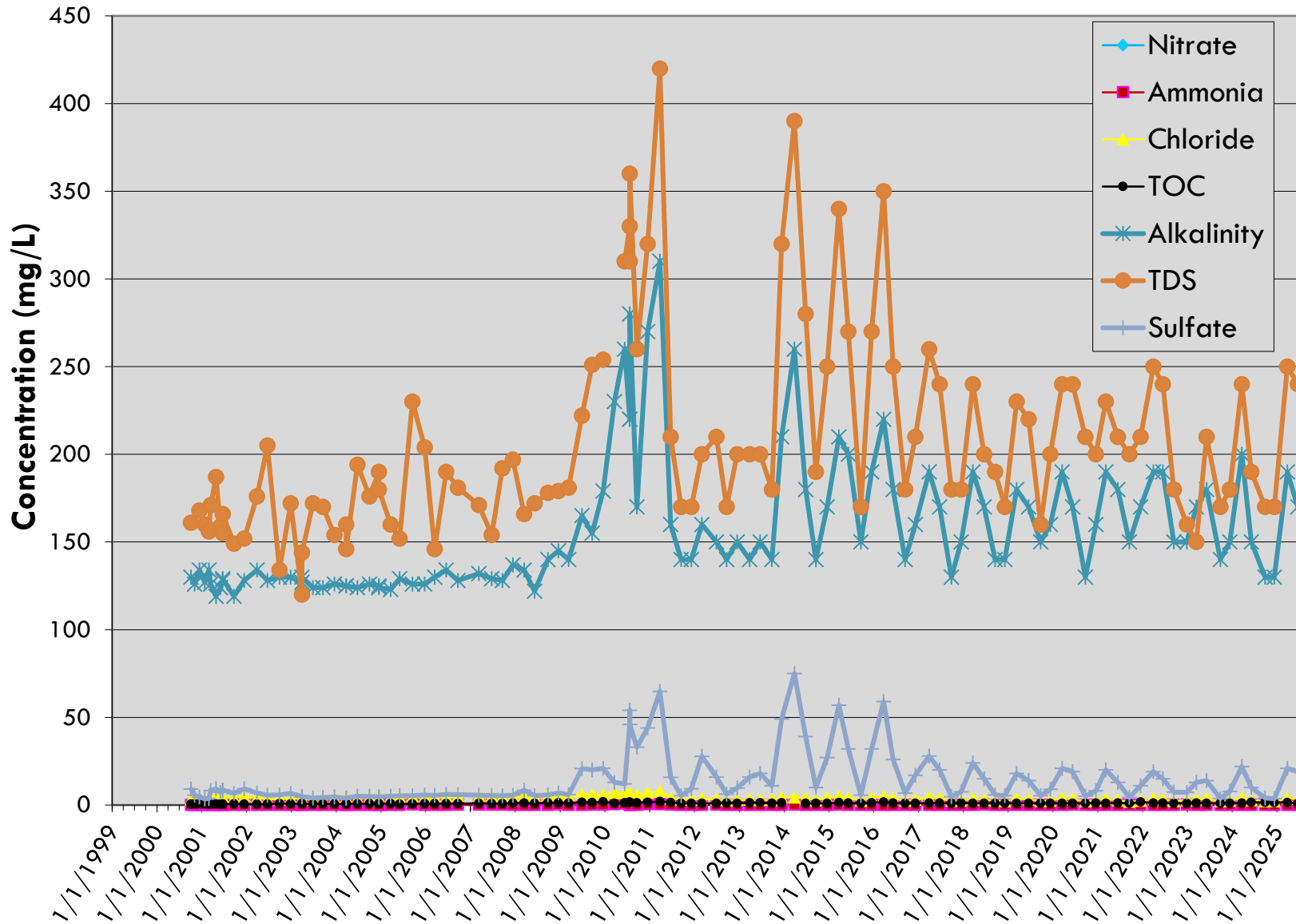
MW-4

LRI Landfill, Pierce County, Washington



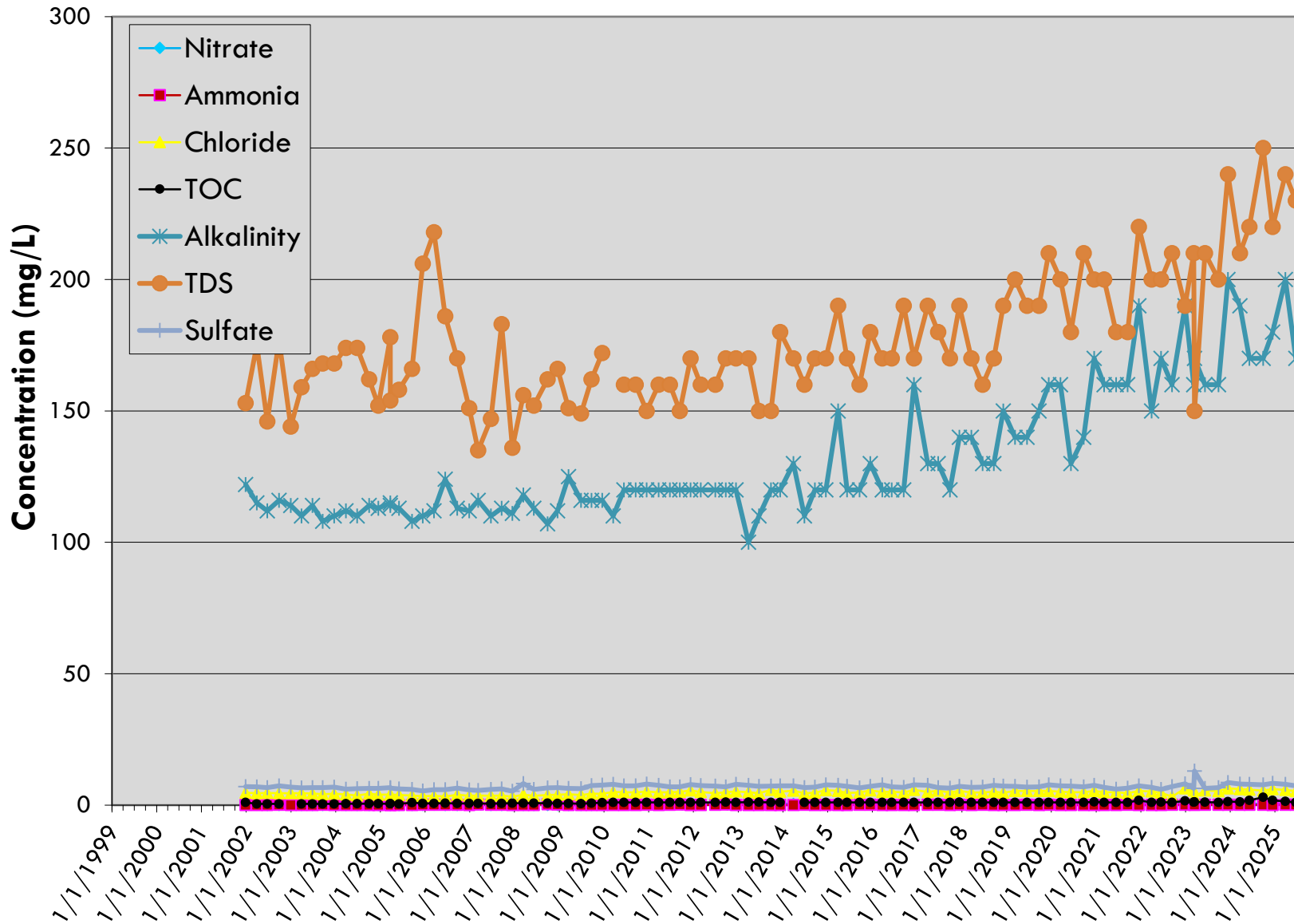
MW-5A

LRI Landfill, Pierce County, Washington



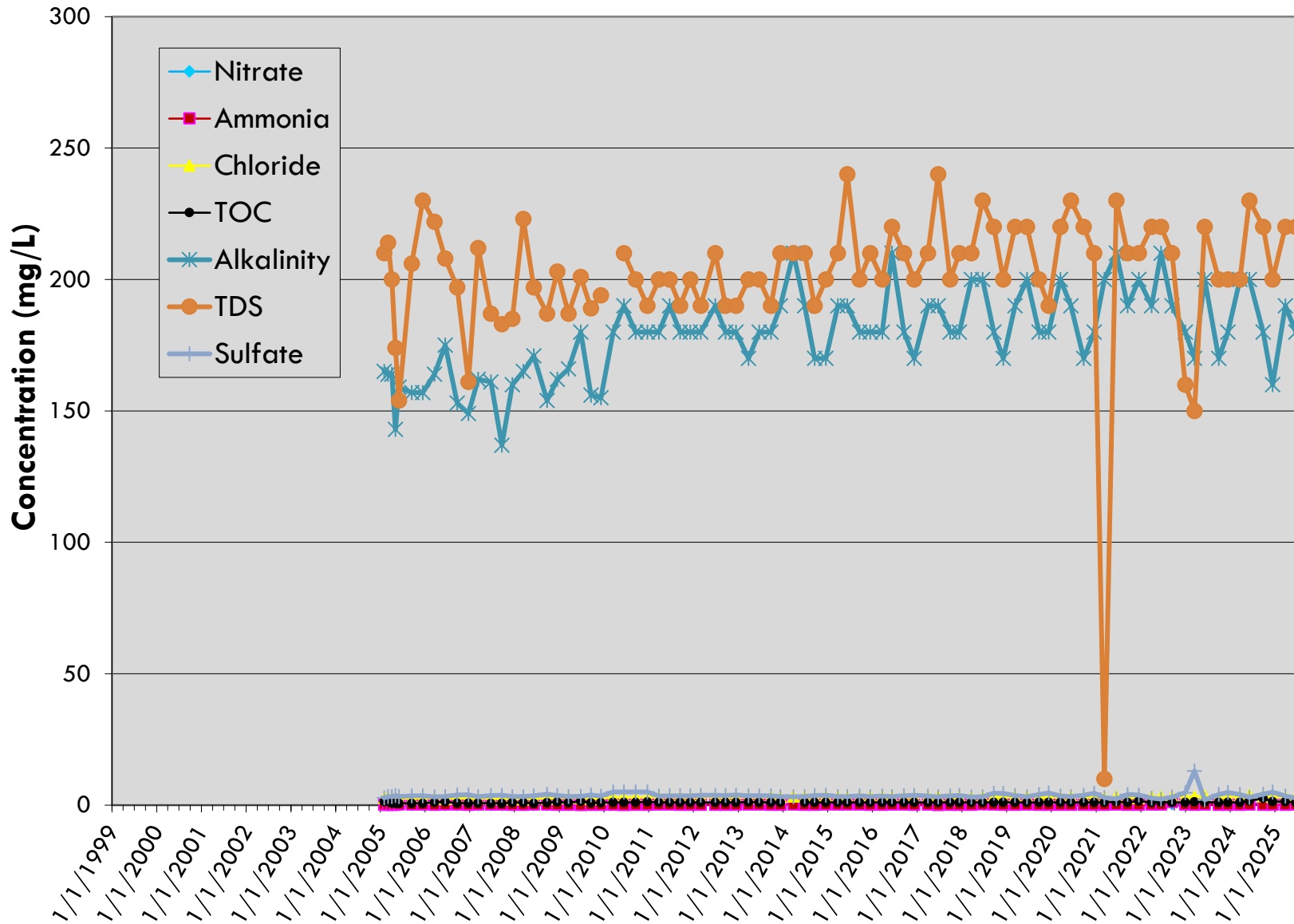
MW-6

LRI Landfill, Pierce County, Washington

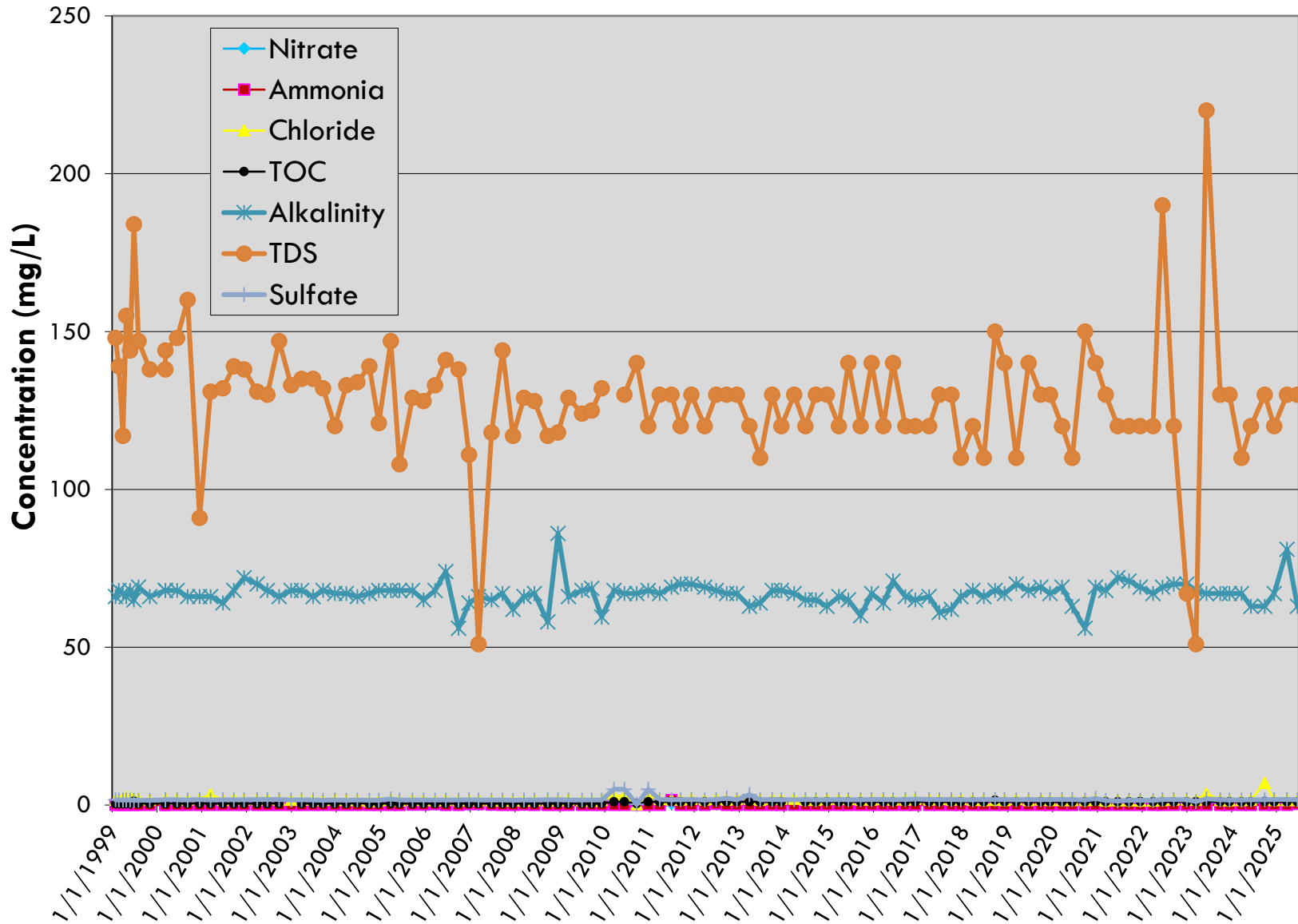


MW-7

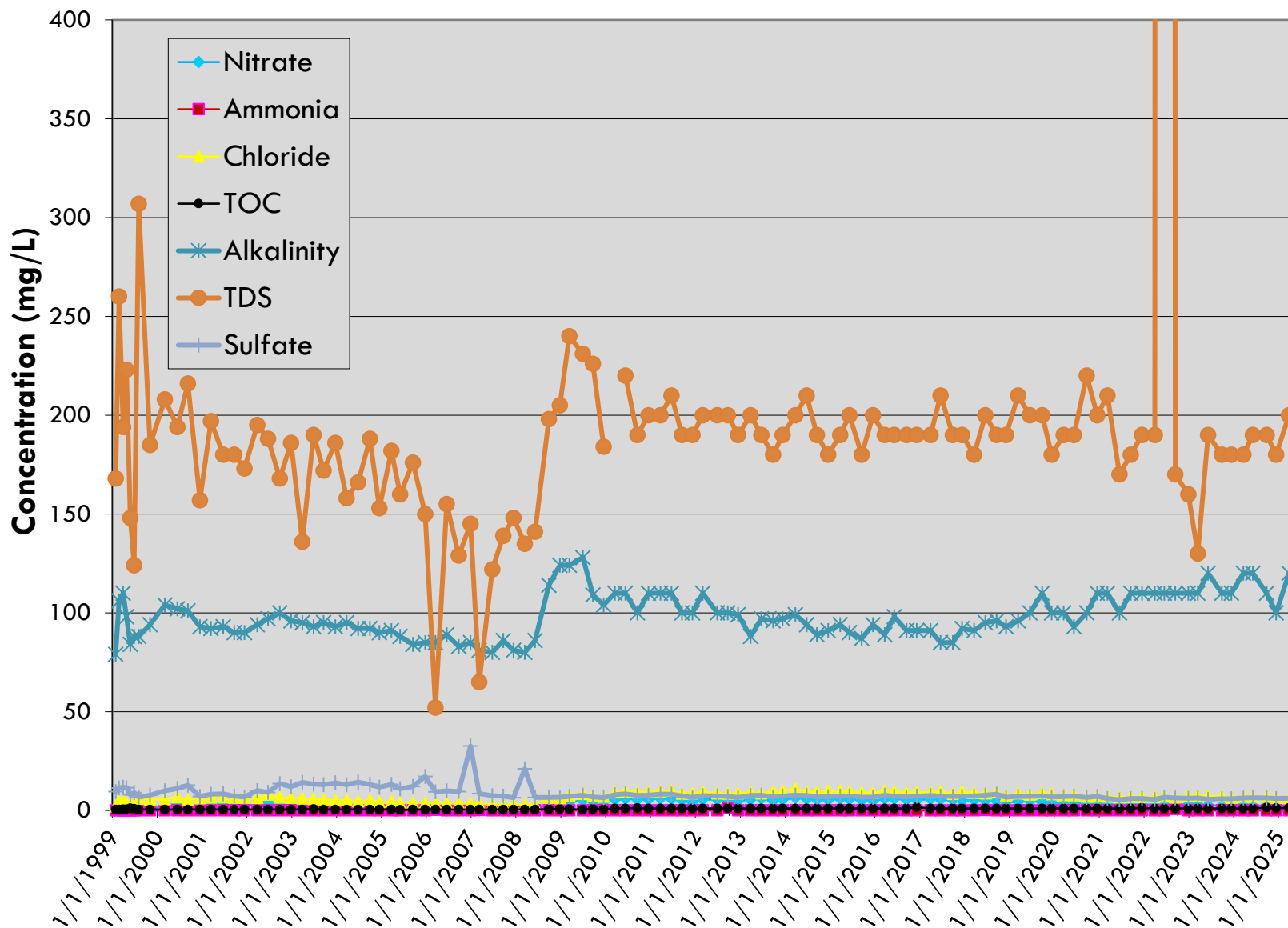
LRI Landfill, Pierce County, Washington



MW-9 (Background) LRI Landfill, Pierce County, Washington

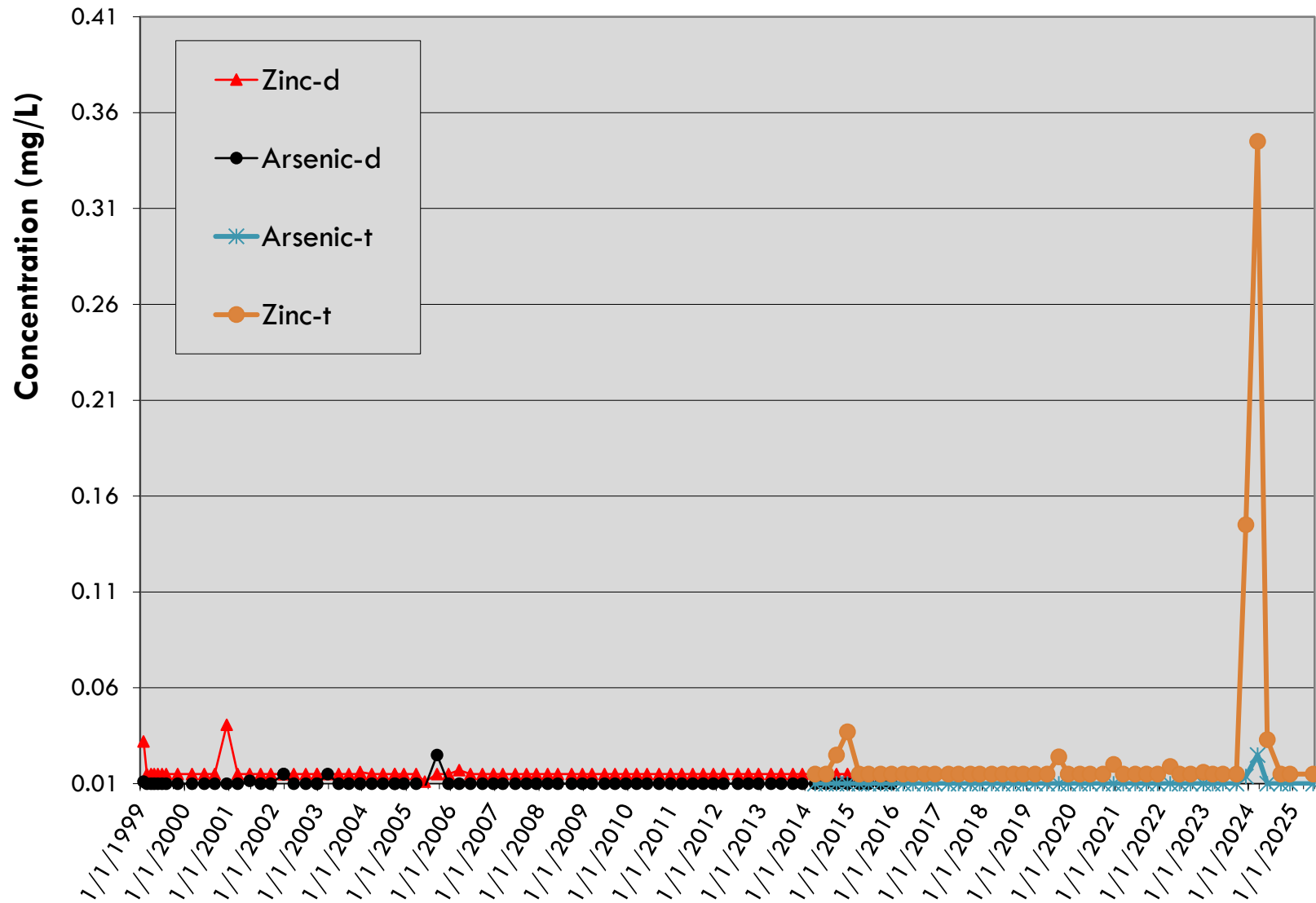


MW-10 (Background) LRI Landfill, Pierce County, Washington



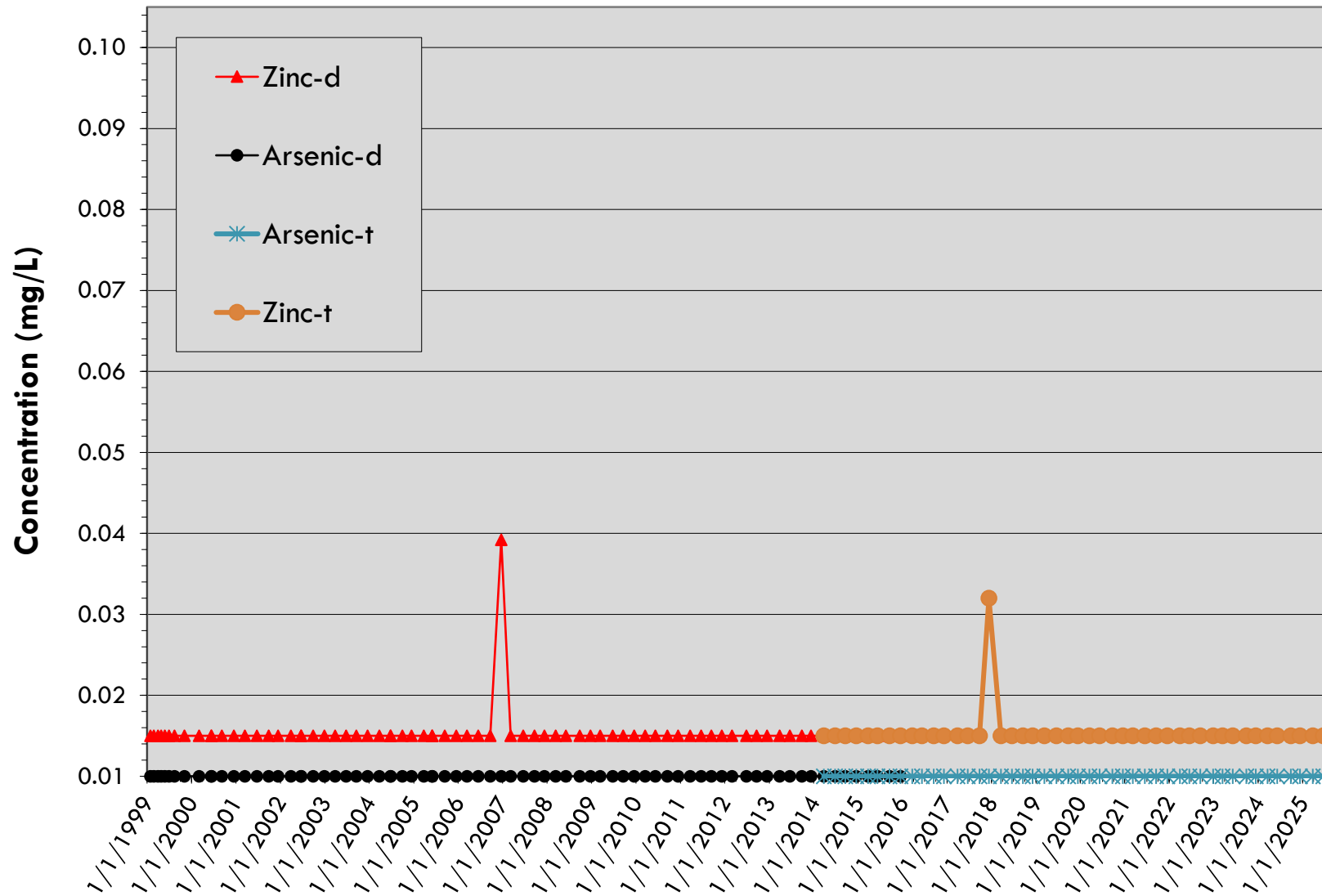
MW-1A

LRI Landfill, Pierce County, Washington



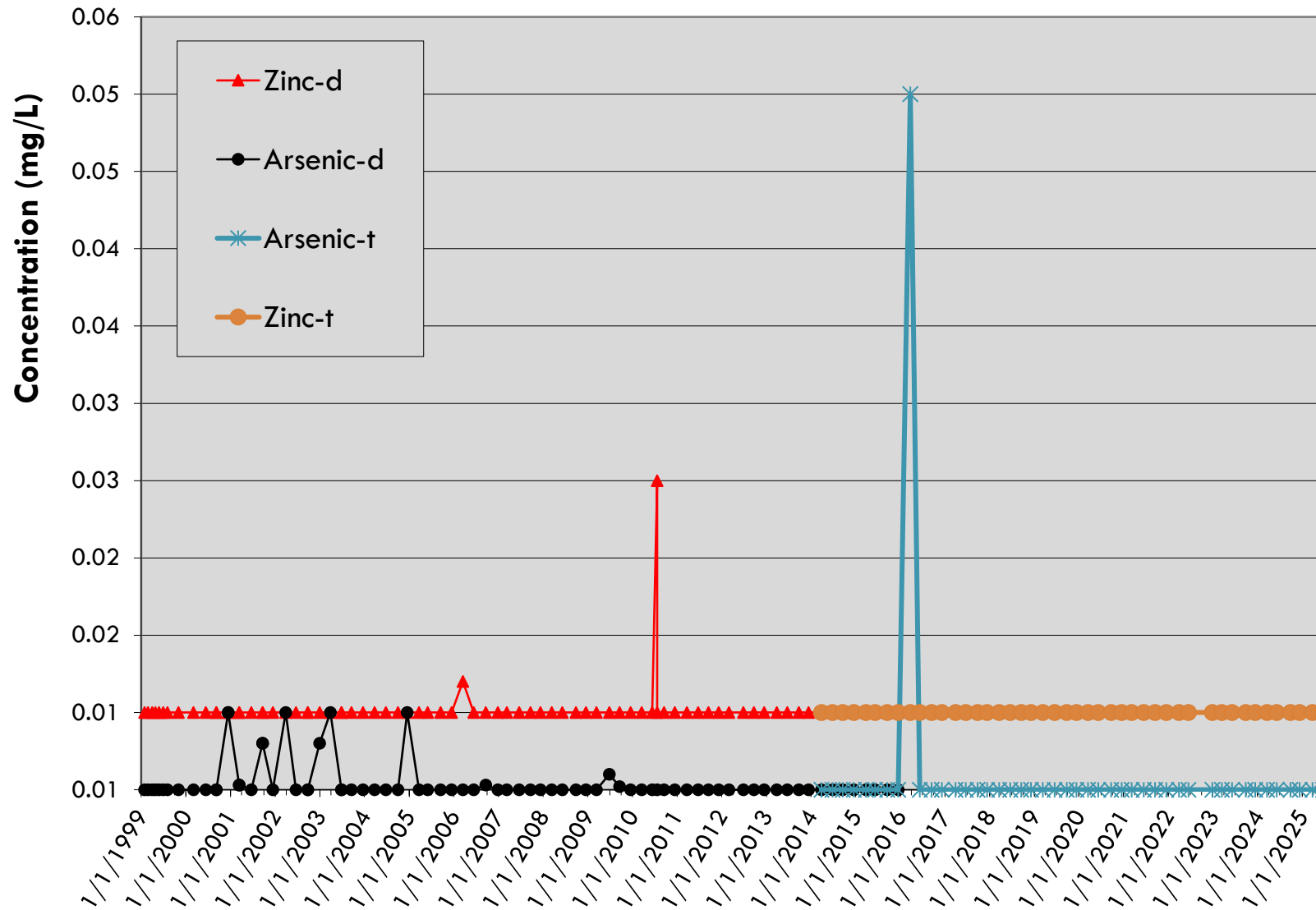
MW-2A

LRI Landfill, Pierce County, Washington



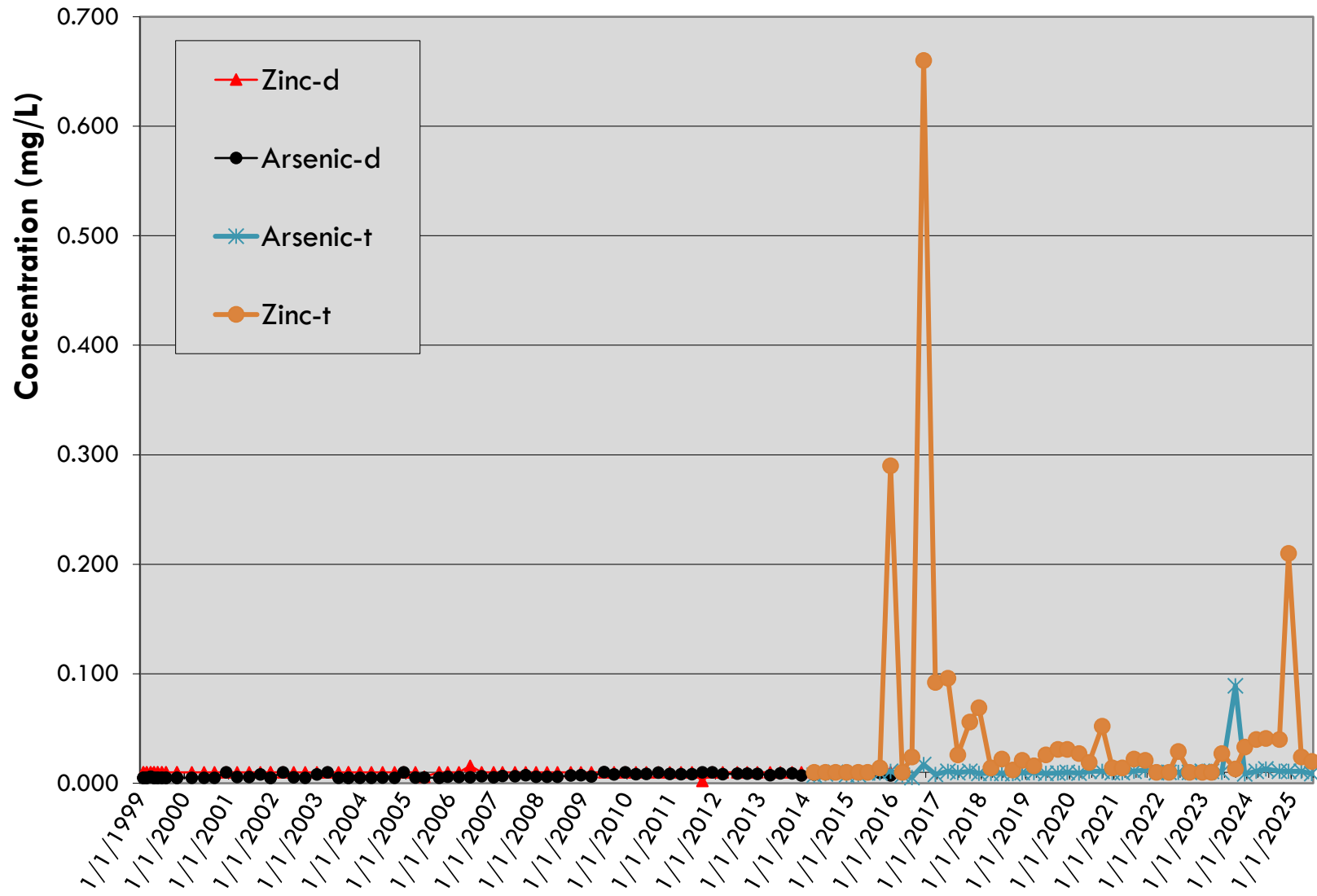
MW-3

LRI Landfill, Pierce County, Washington



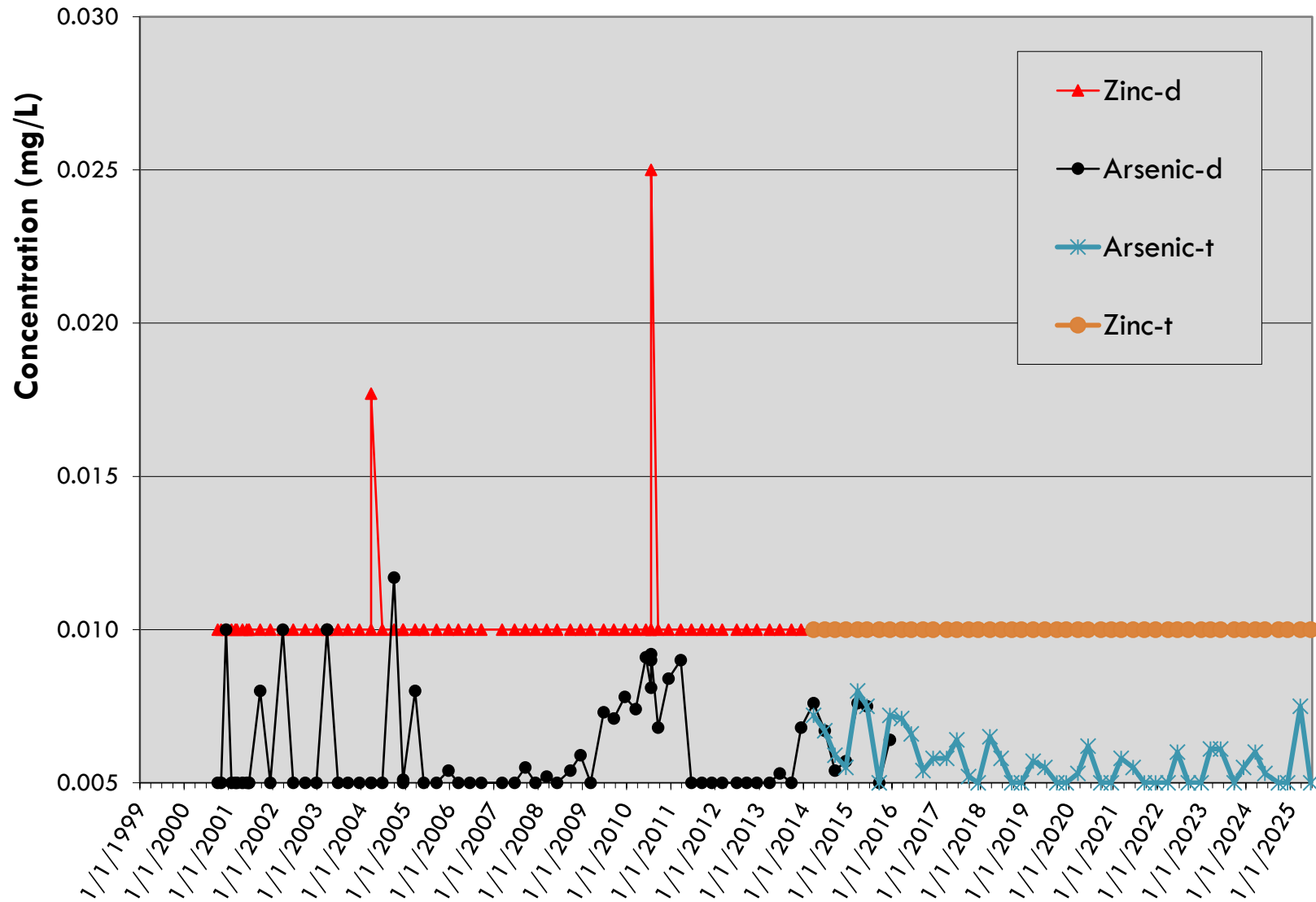
MW-4

LRI Landfill, Pierce County, Washington



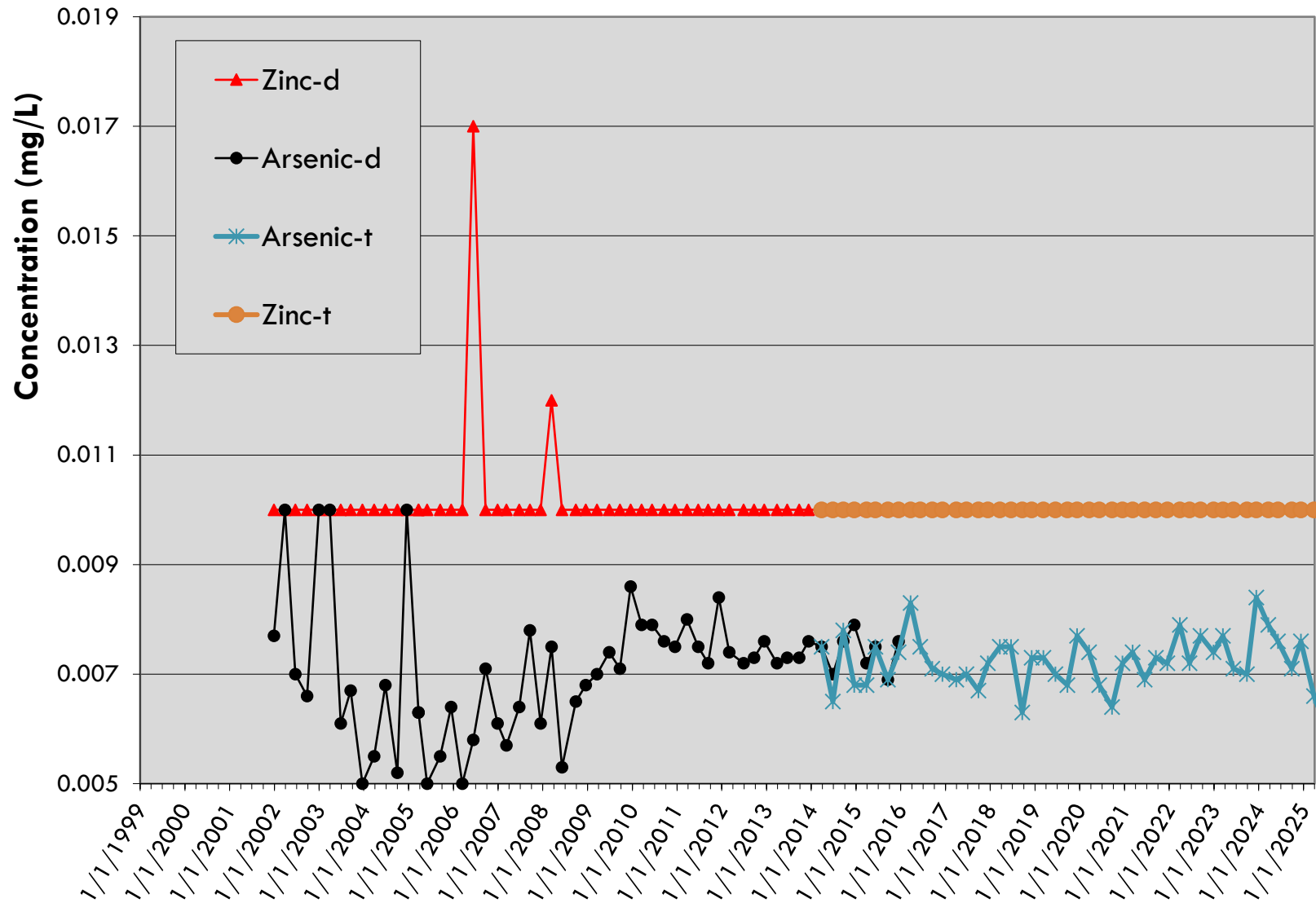
MW-5A

LRI Landfill, Pierce County, Washington



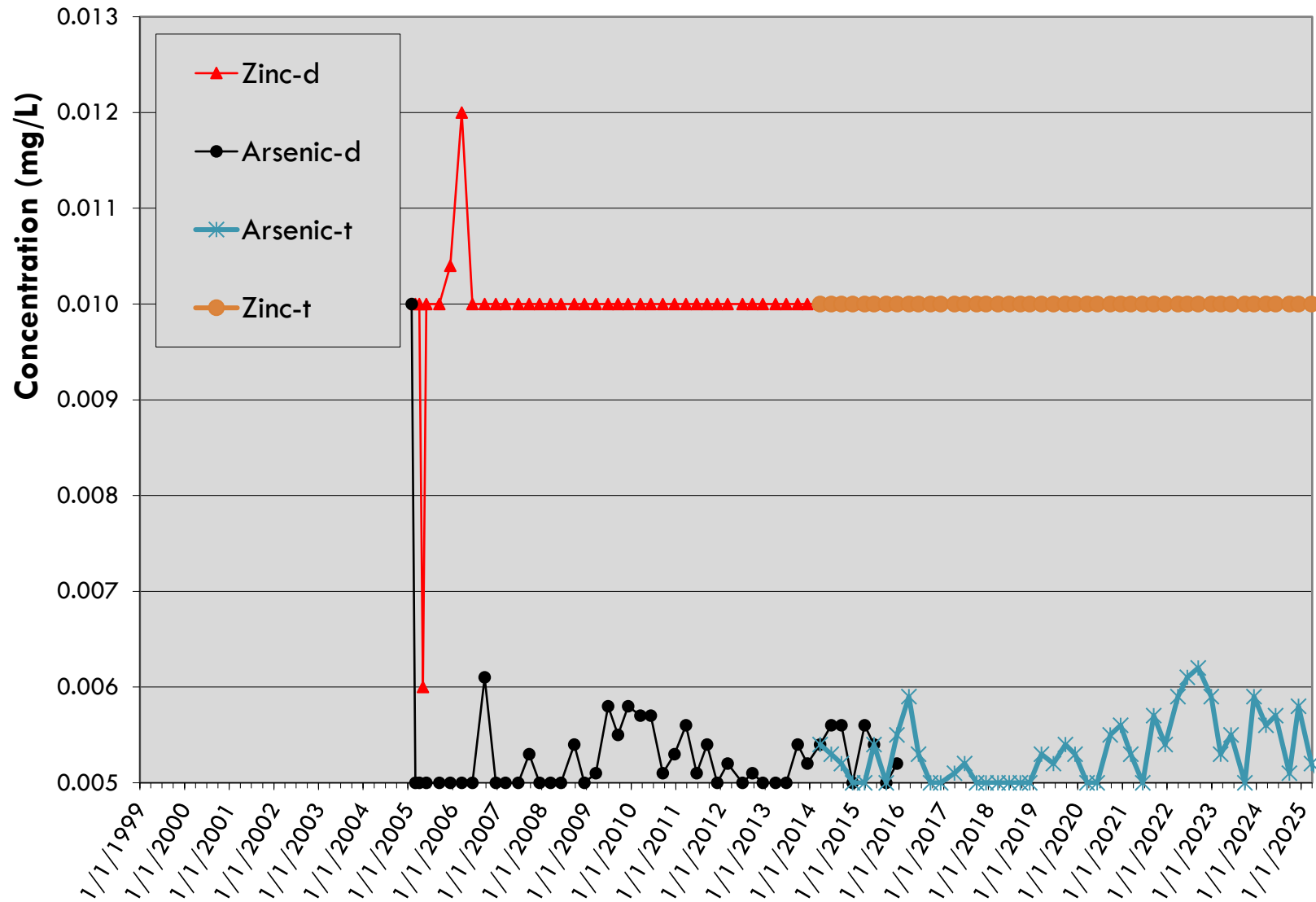
MW-6

LRI Landfill, Pierce County, Washington

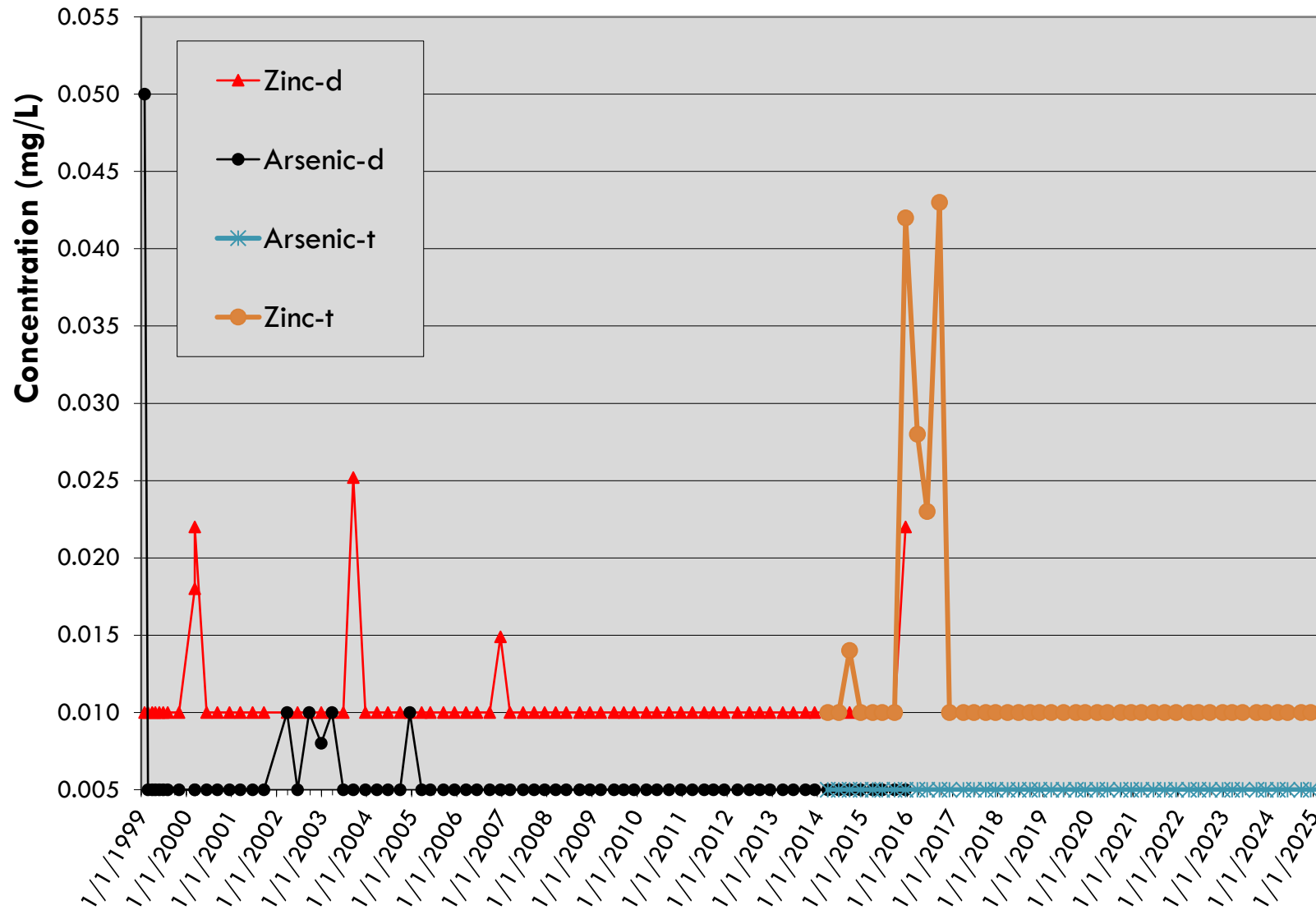


MW-7

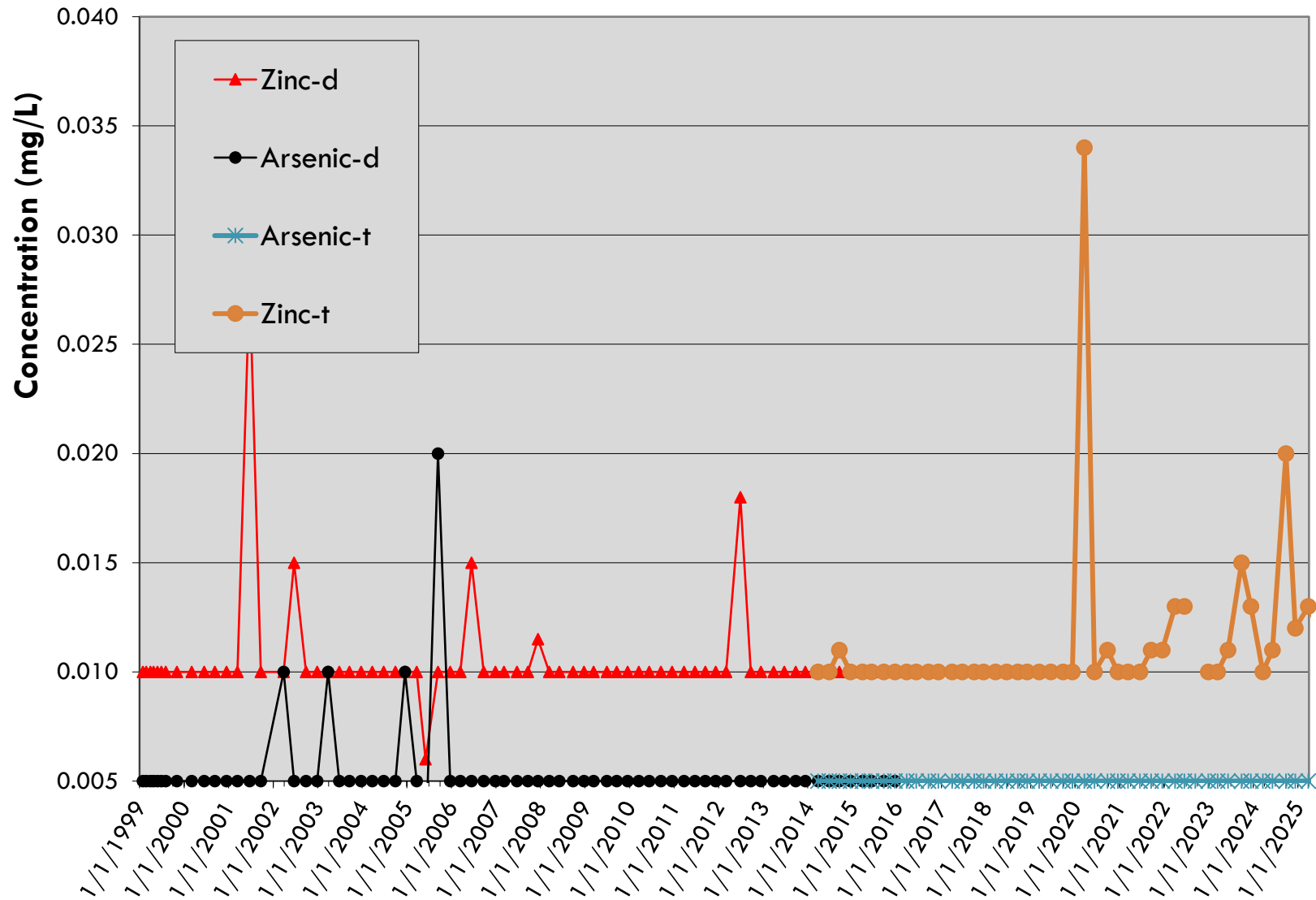
LRI Landfill, Pierce County, Washington



MW-9 (Background) LRI Landfill, Pierce County, Washington

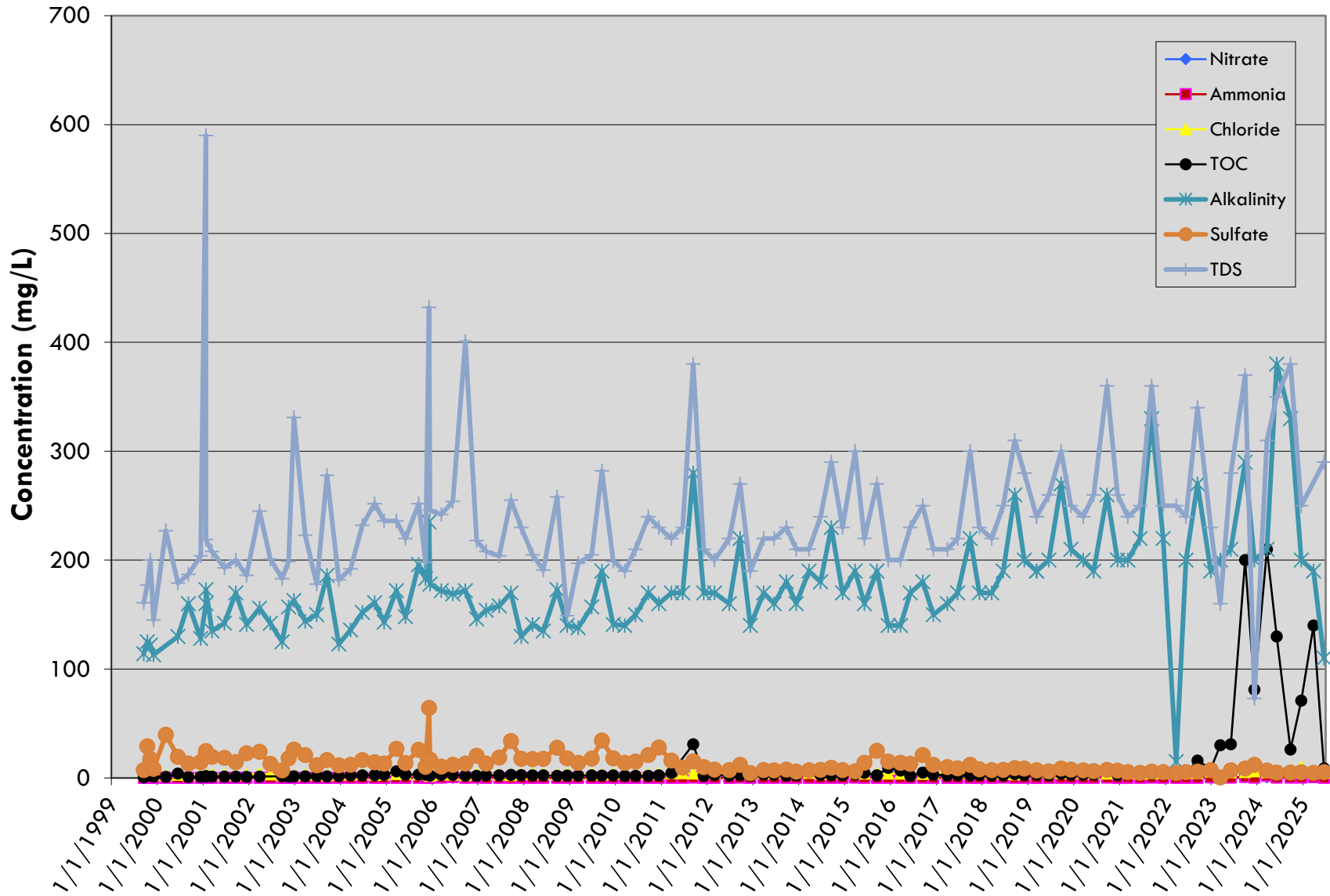


MW-10 (Background) LRI Landfill, Pierce County, Washington



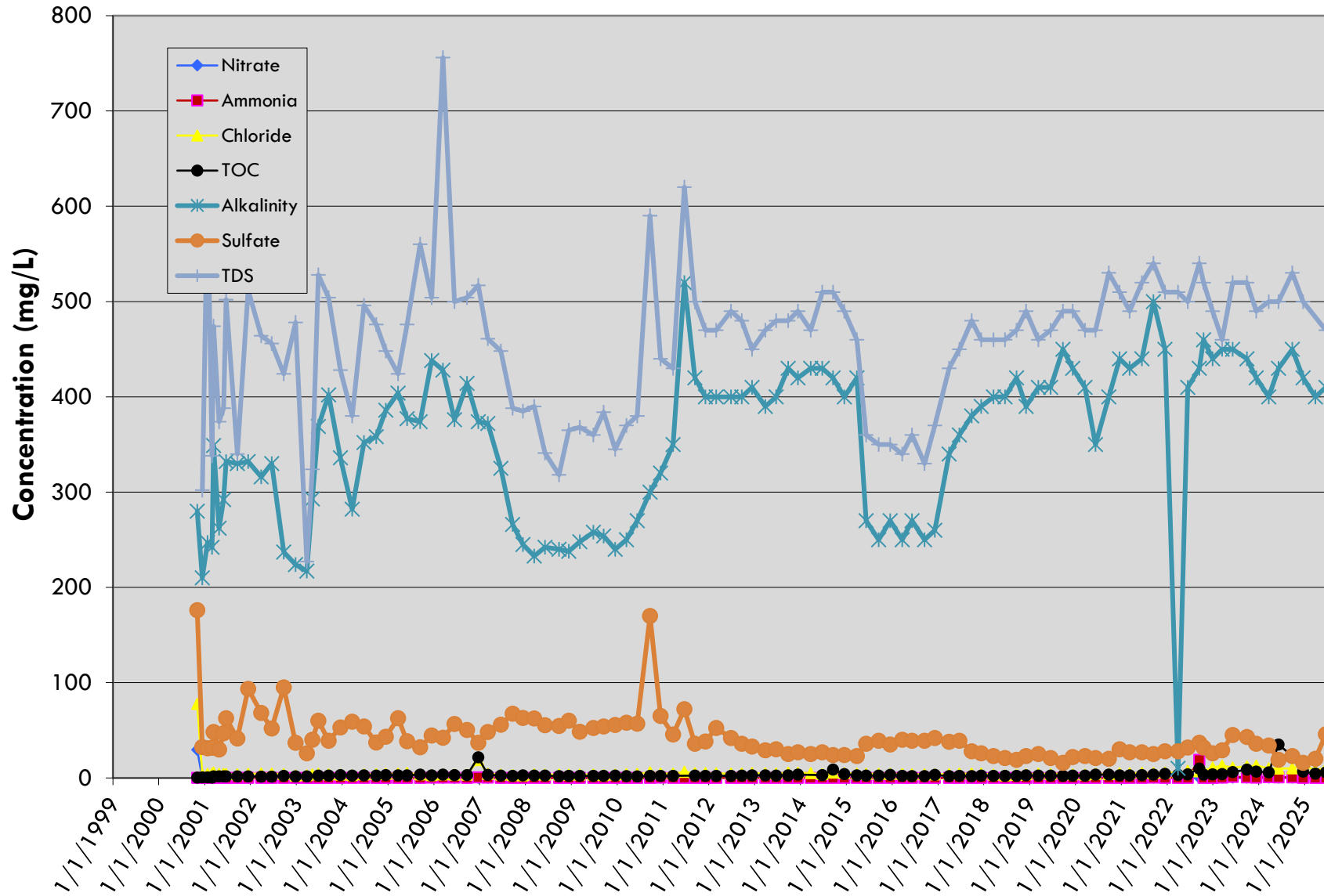
LDCS-1

LRI Landfill, Pierce County, Washington



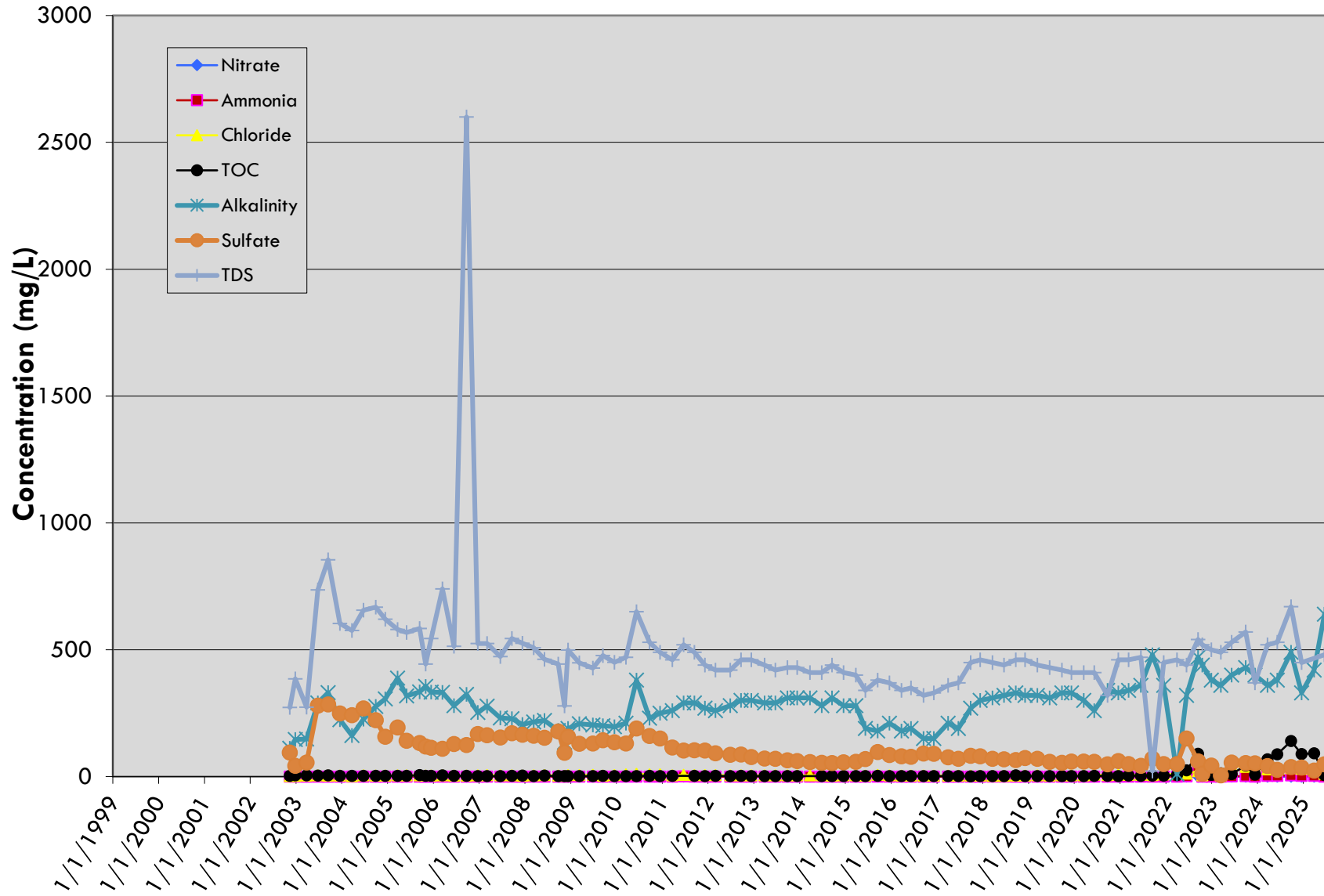
LDCS-2A

LRI Landfill, Pierce County, Washington



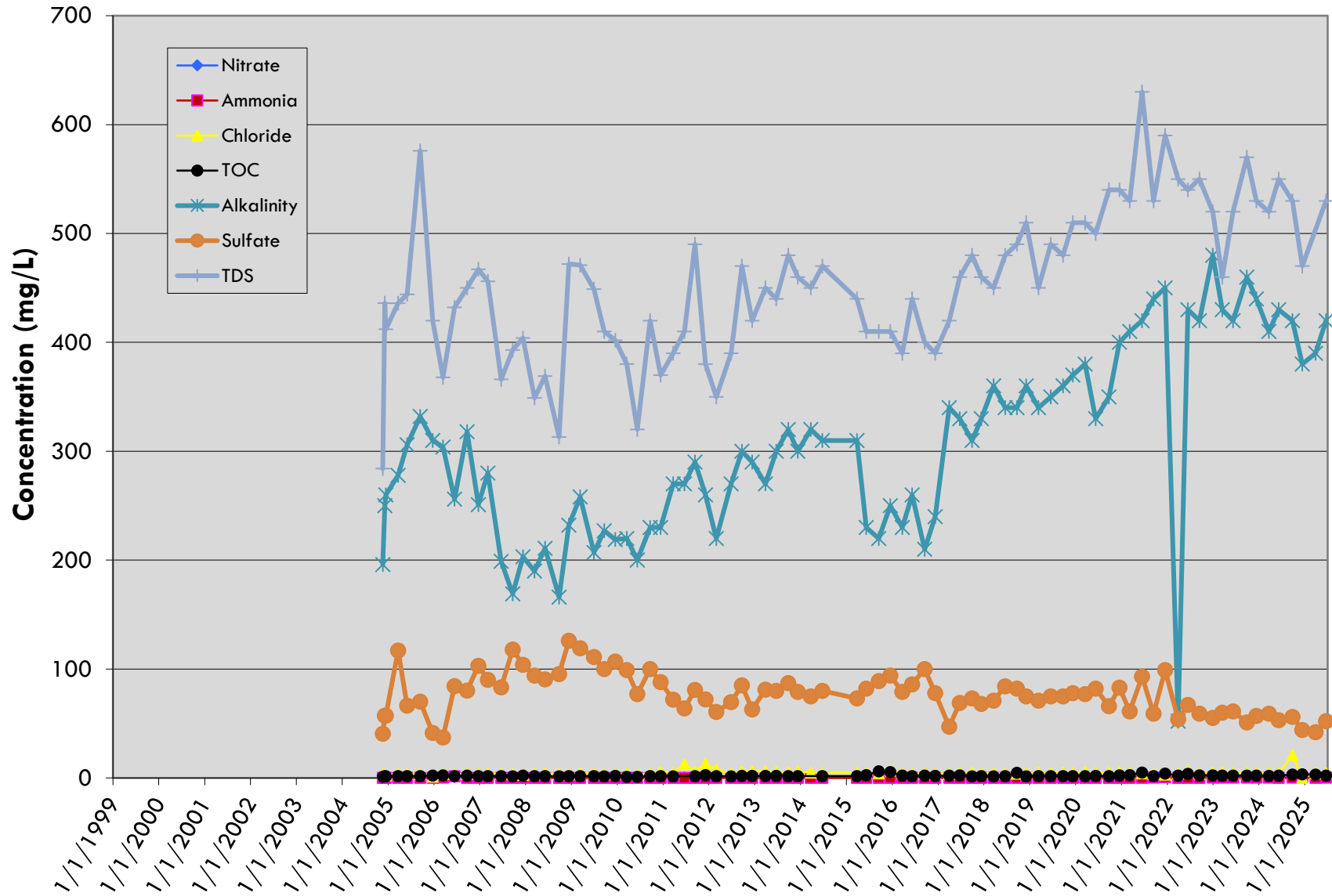
LDCS-2B

LRI Landfill, Pierce County, Washington



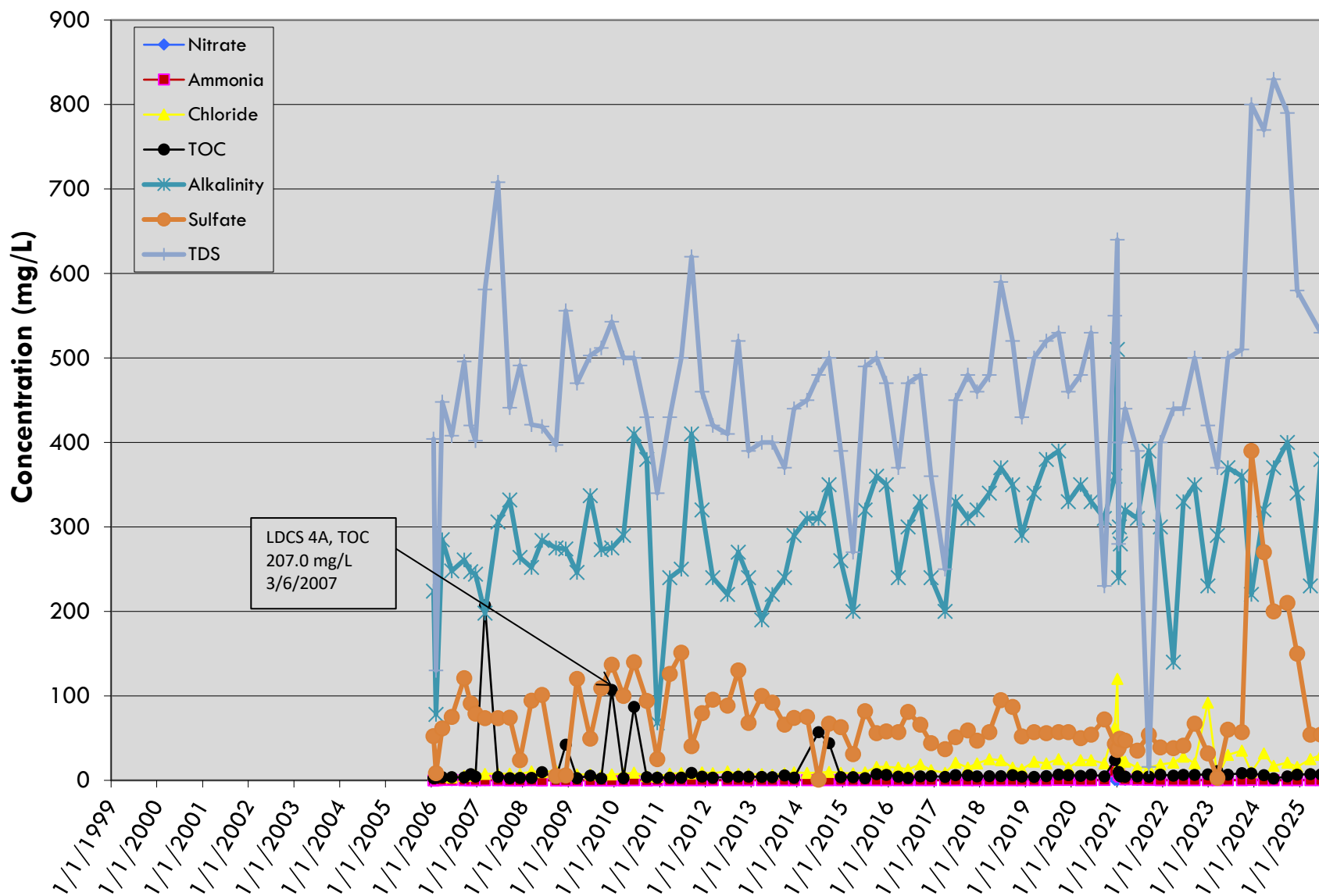
LDCS-3A

LRI Landfill, Pierce County, Washington



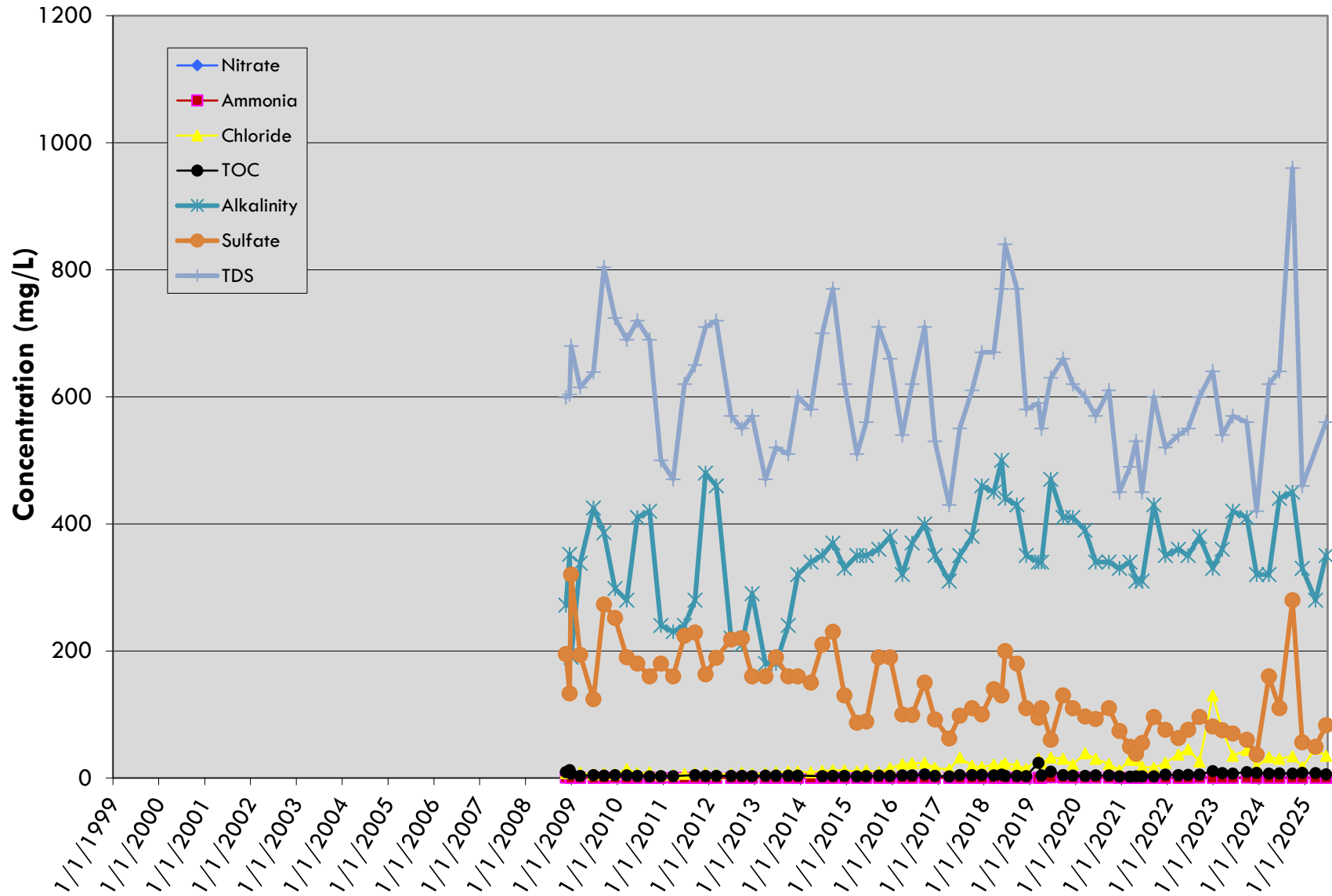
LDCS-4A

LRI Landfill, Pierce County, Washington



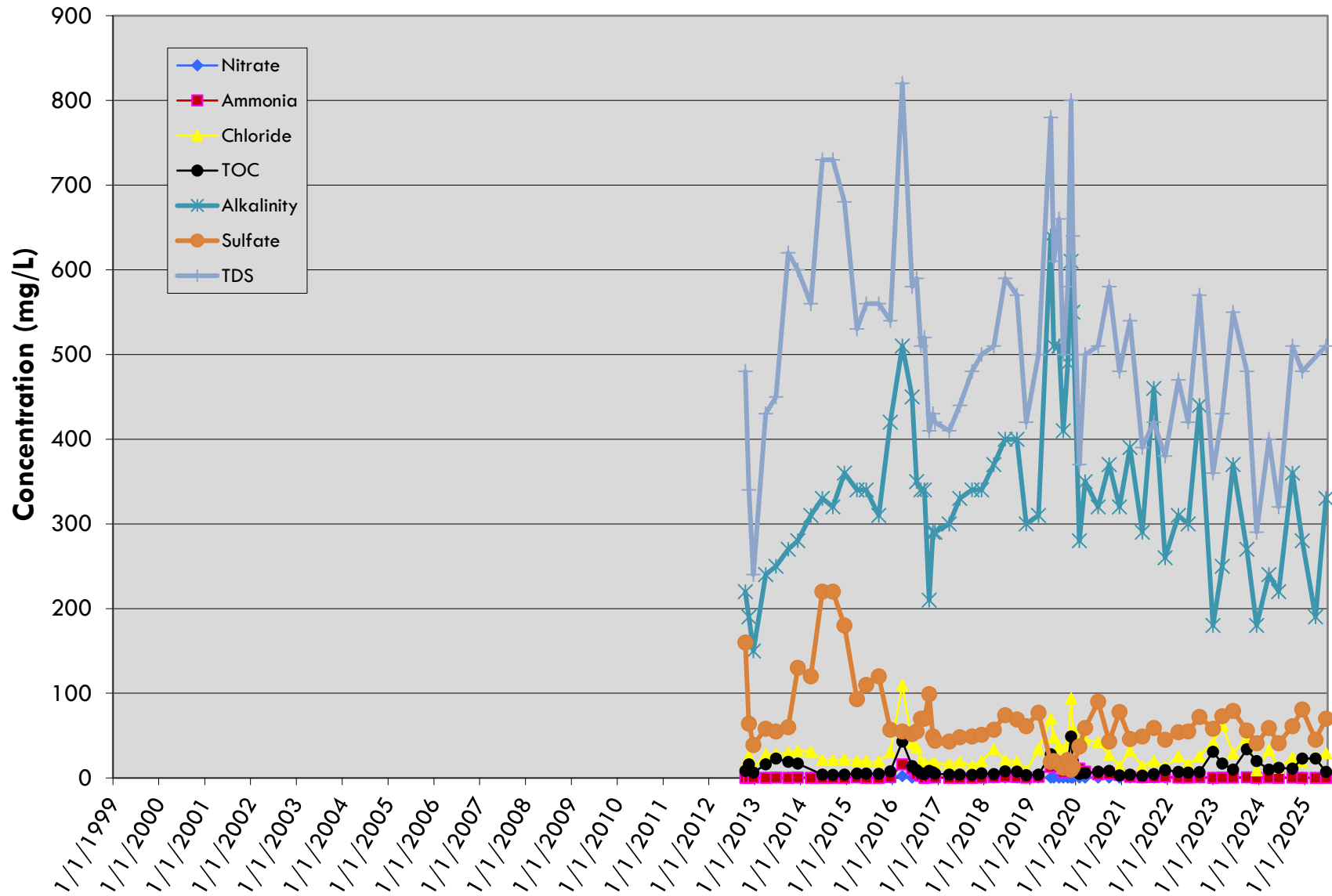
LDCS-4B

LRI Landfill, Pierce County, Washington



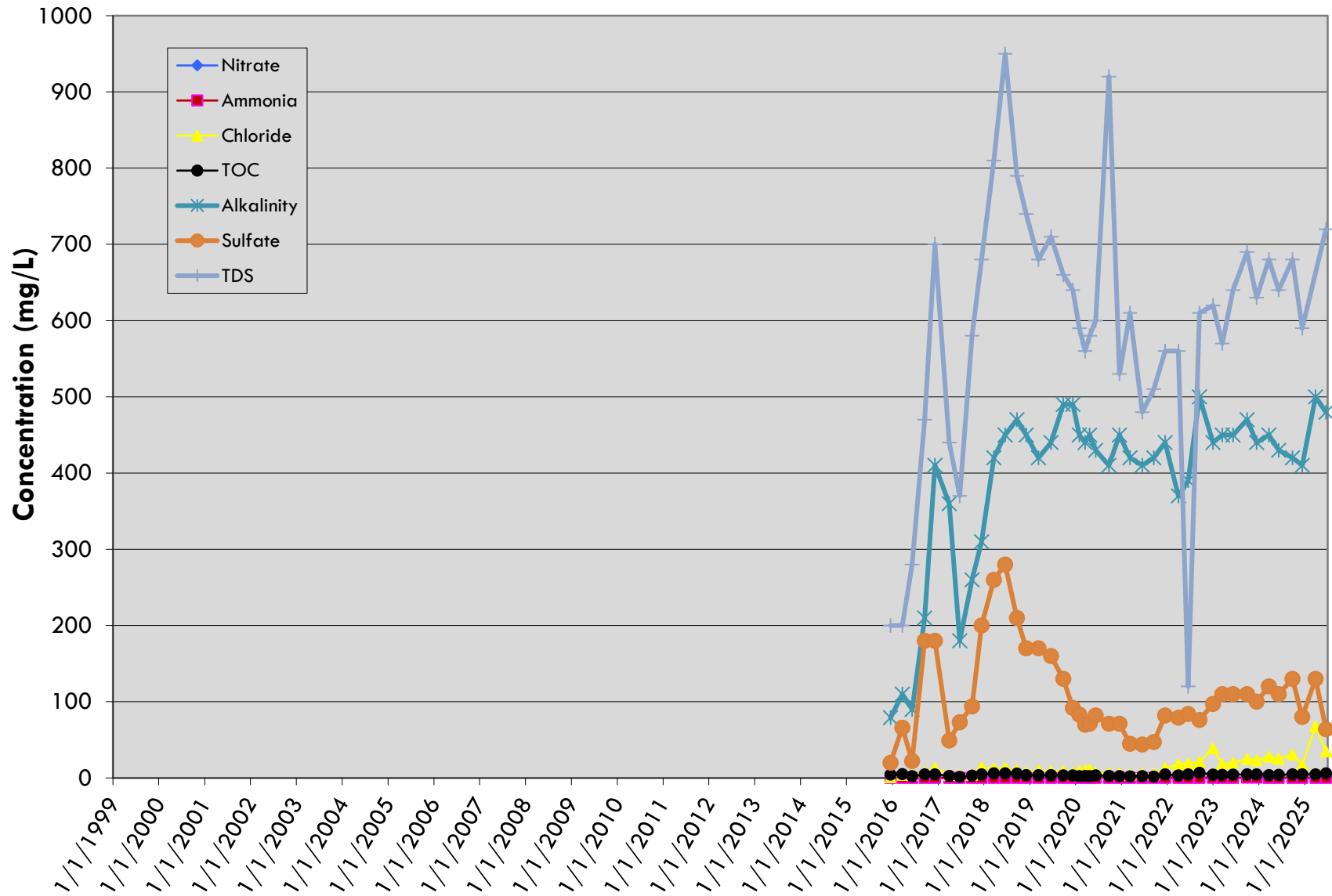
LDCS-5

LRI Landfill, Pierce County, Washington



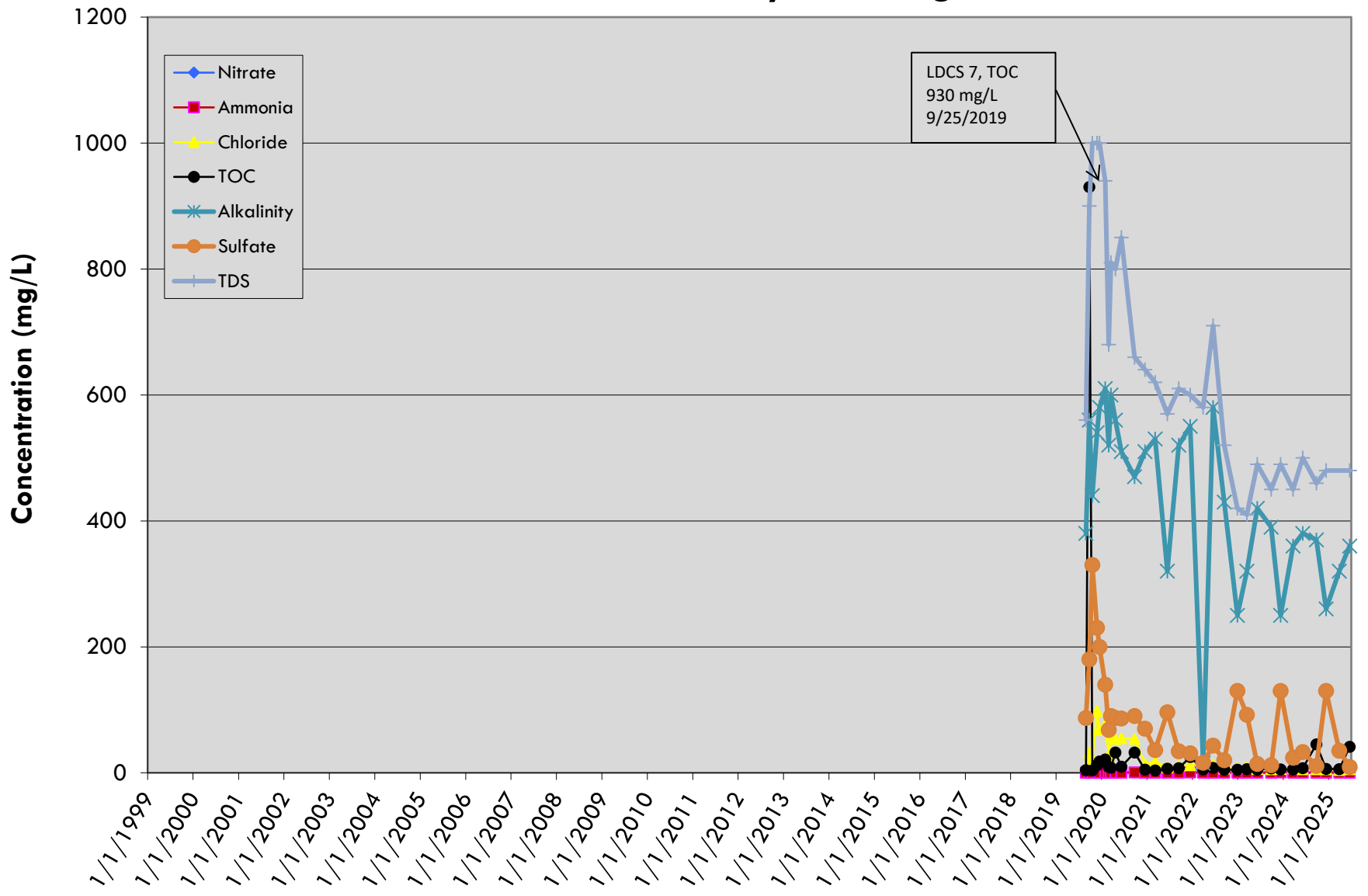
LDCS-6A

LRI Landfill, Pierce County, Washington



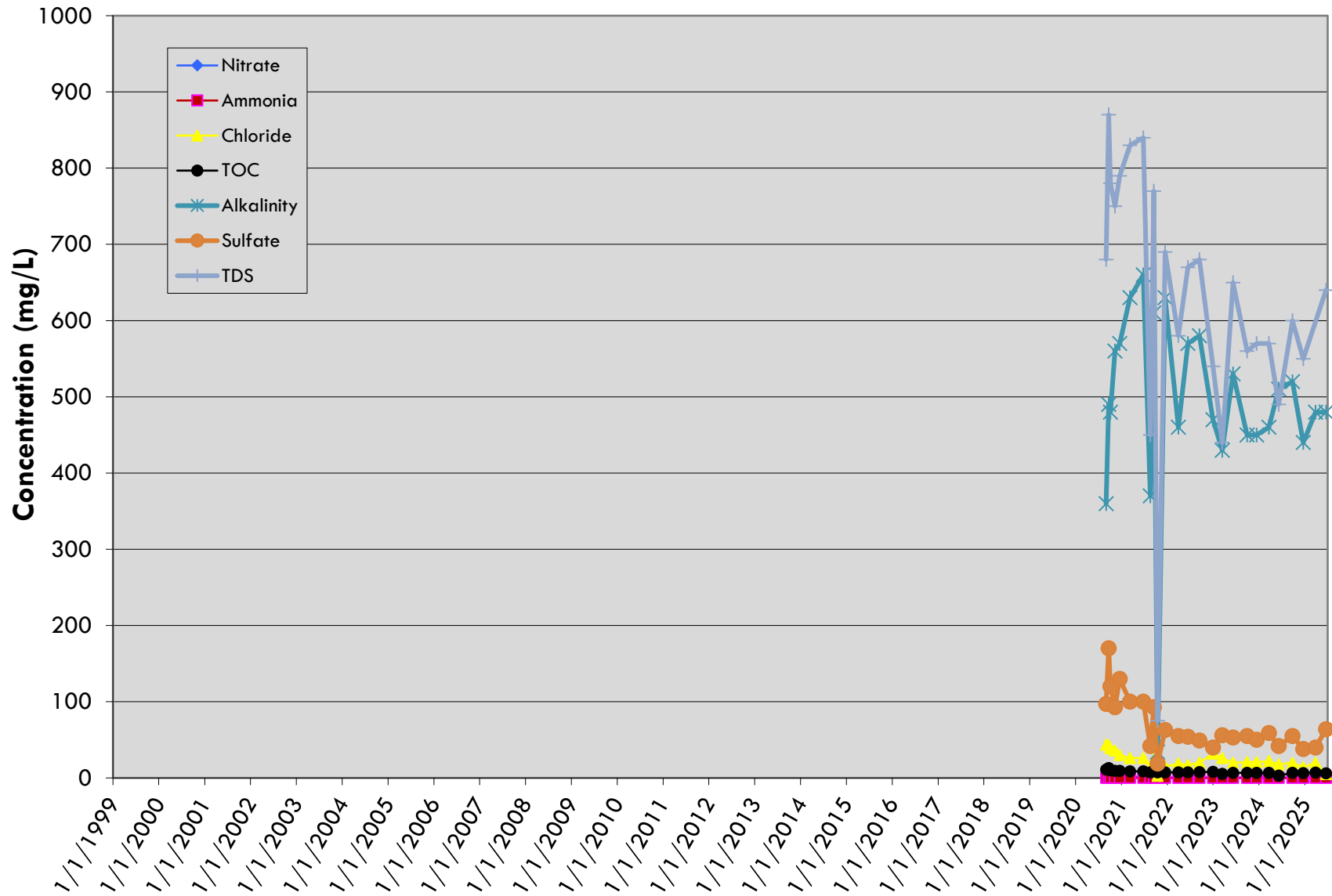
LDCS-7

LRI Landfill, Pierce County, Washington



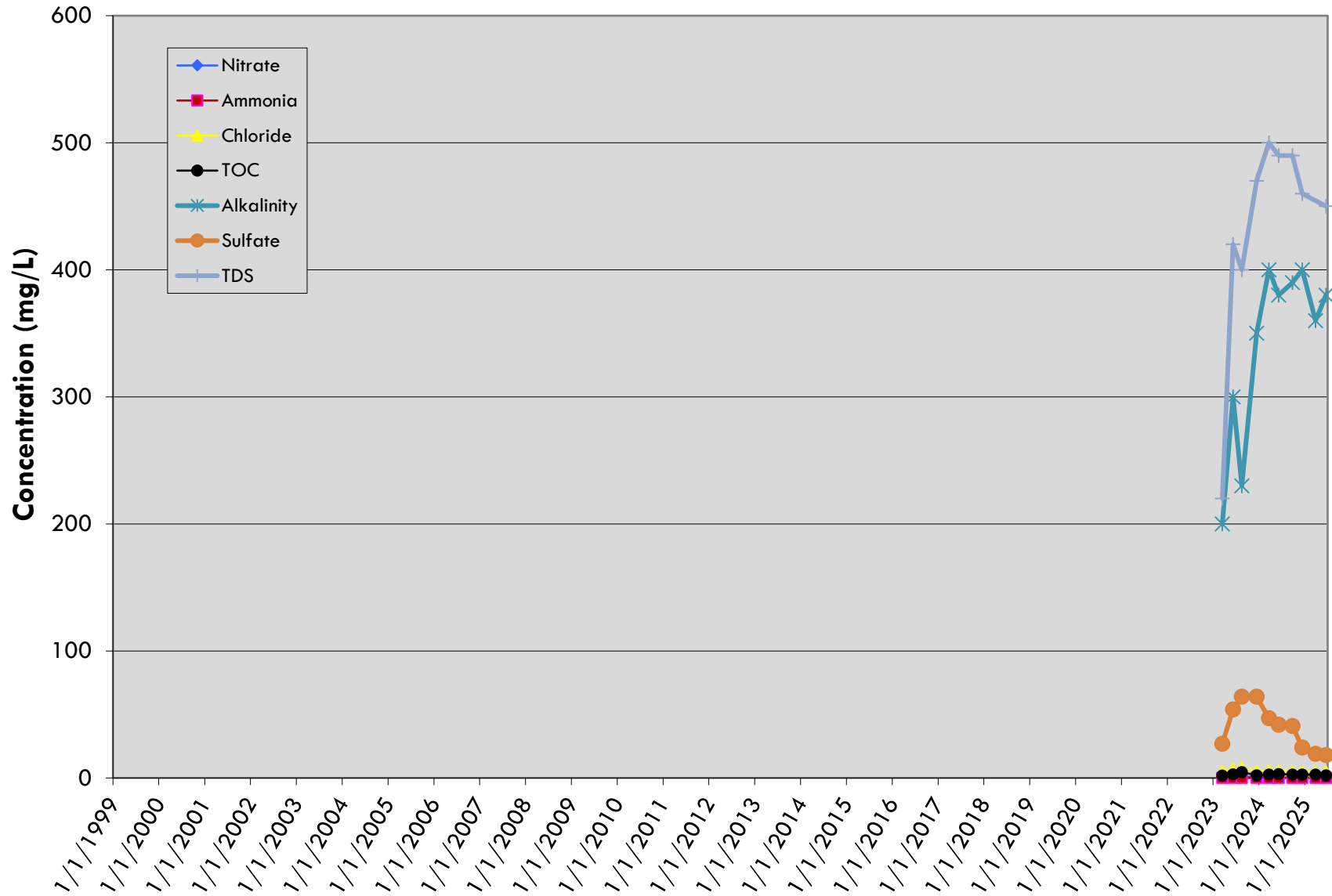
LDCS-8

LRI Landfill, Pierce County, Washington



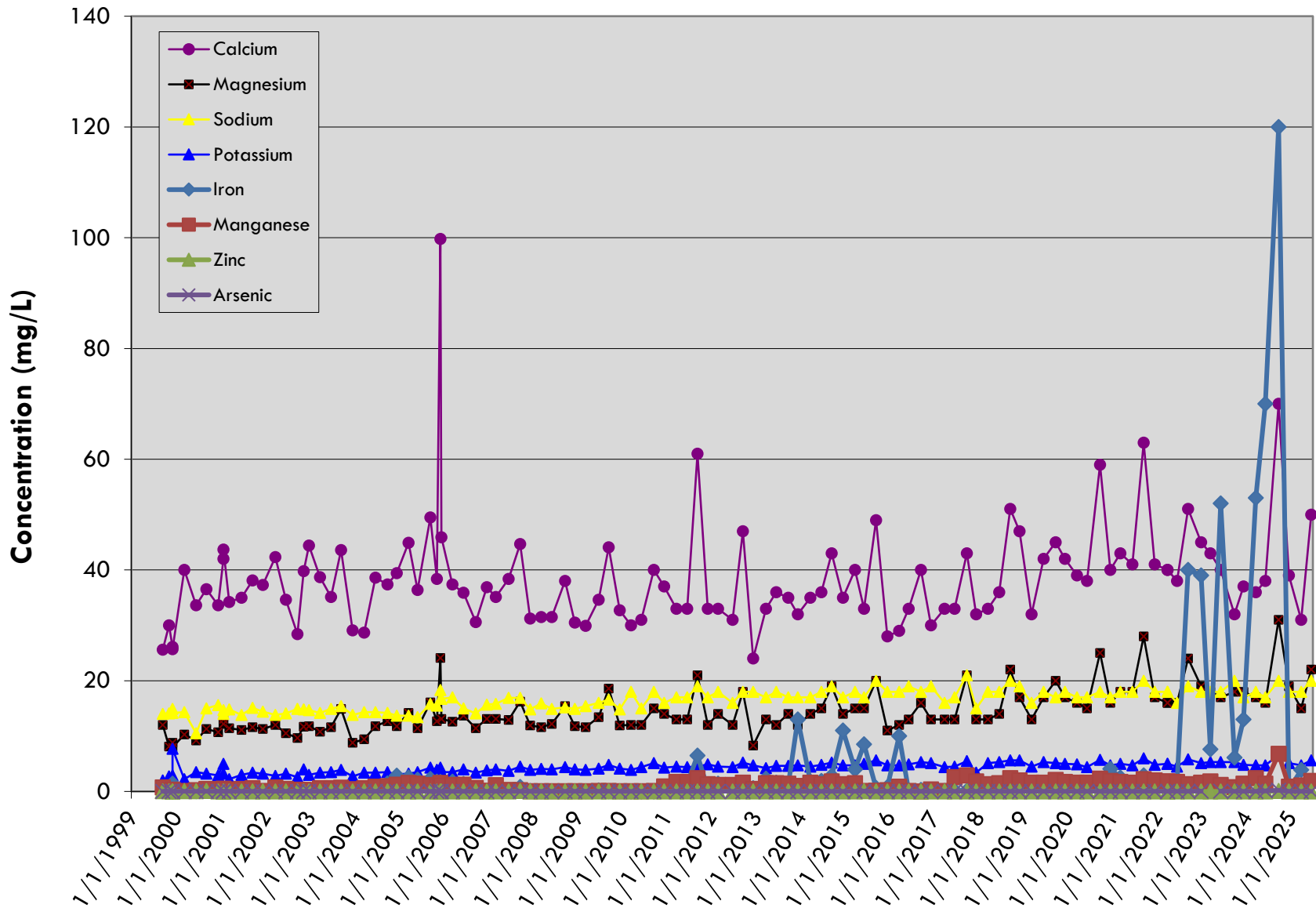
LDCS-9

LRI Landfill, Pierce County, Washington



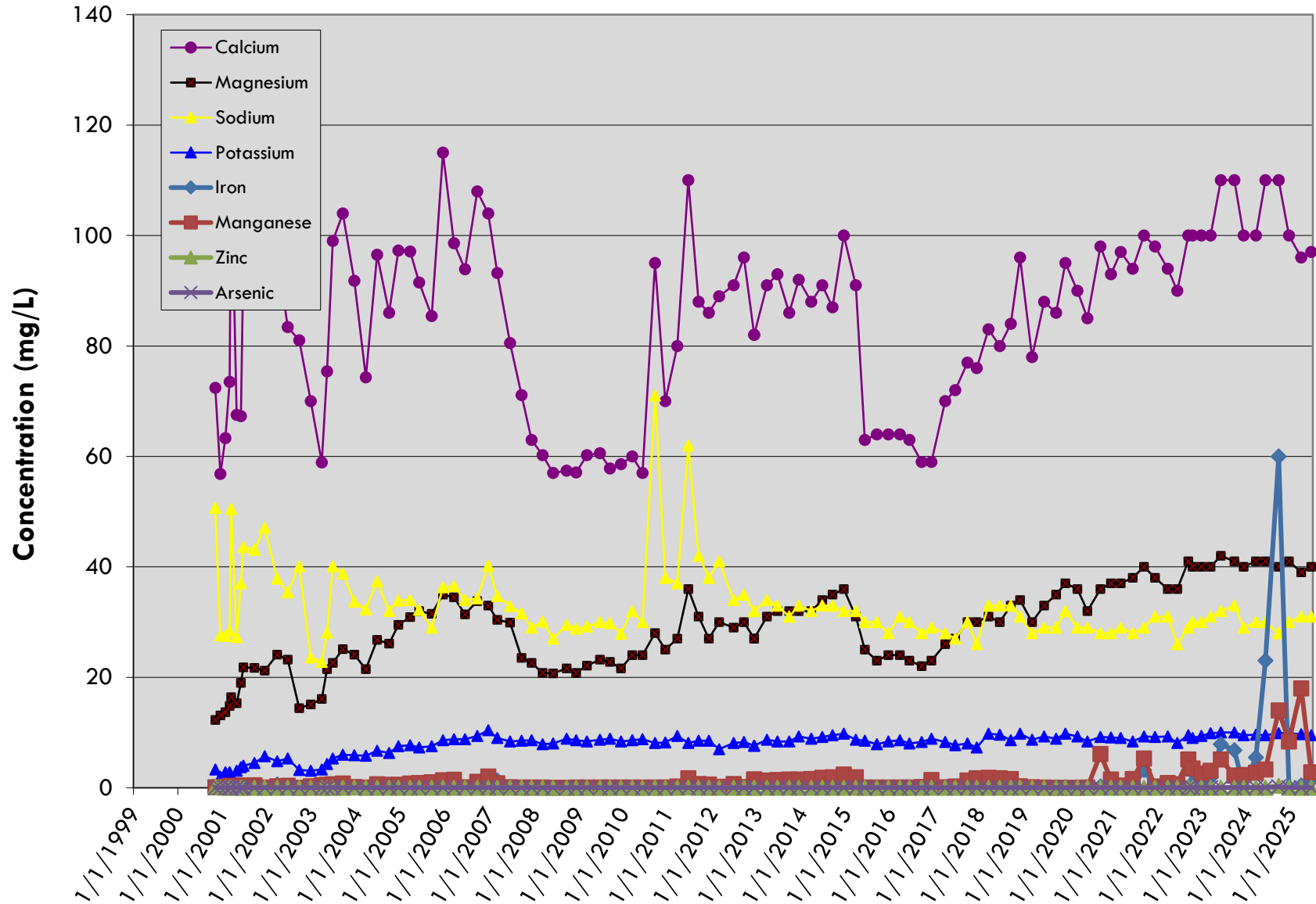
LDCS-1

LRI Landfill, Pierce County, Washington



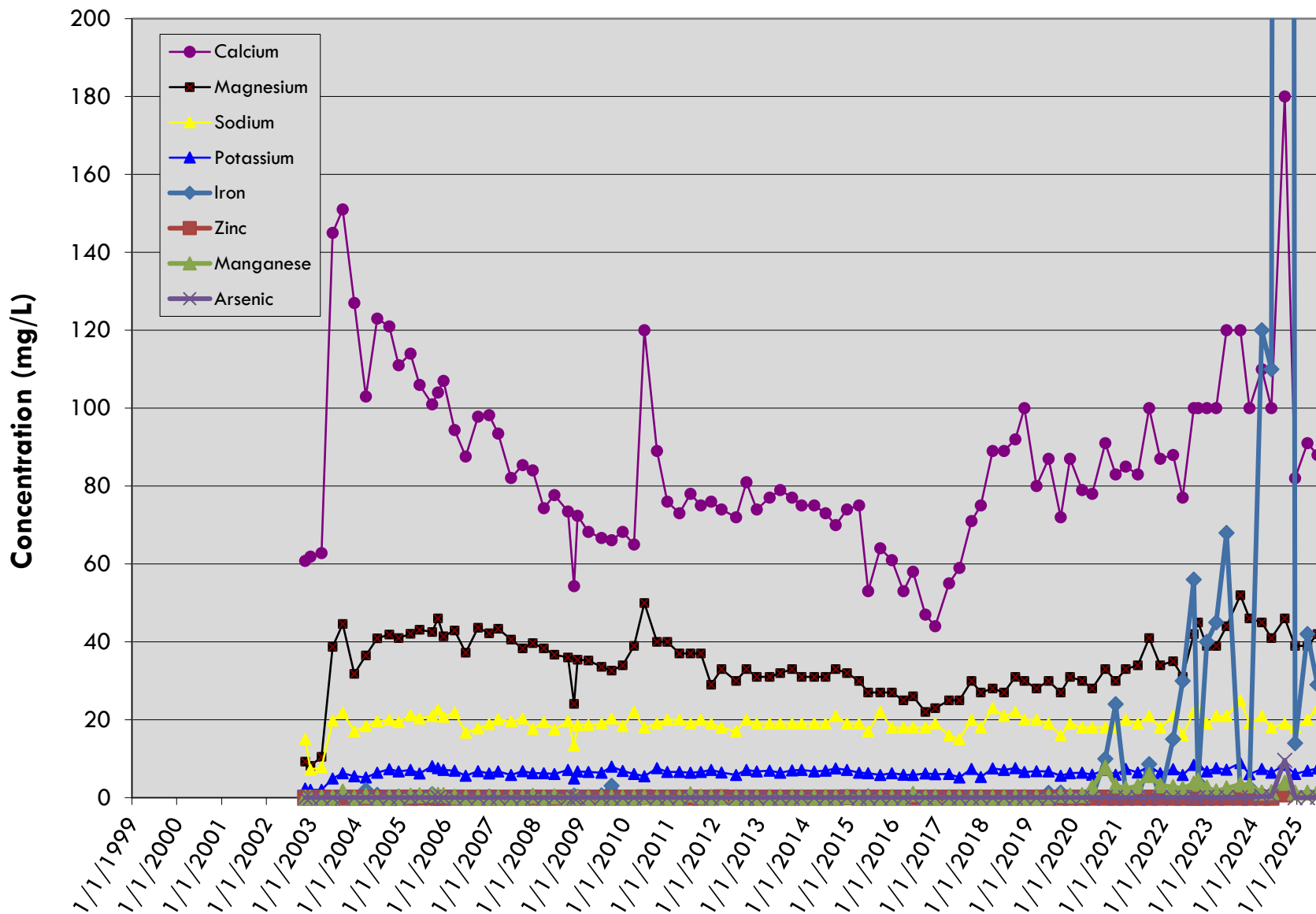
LDCS-2A

LRI Landfill, Pierce County, Washington



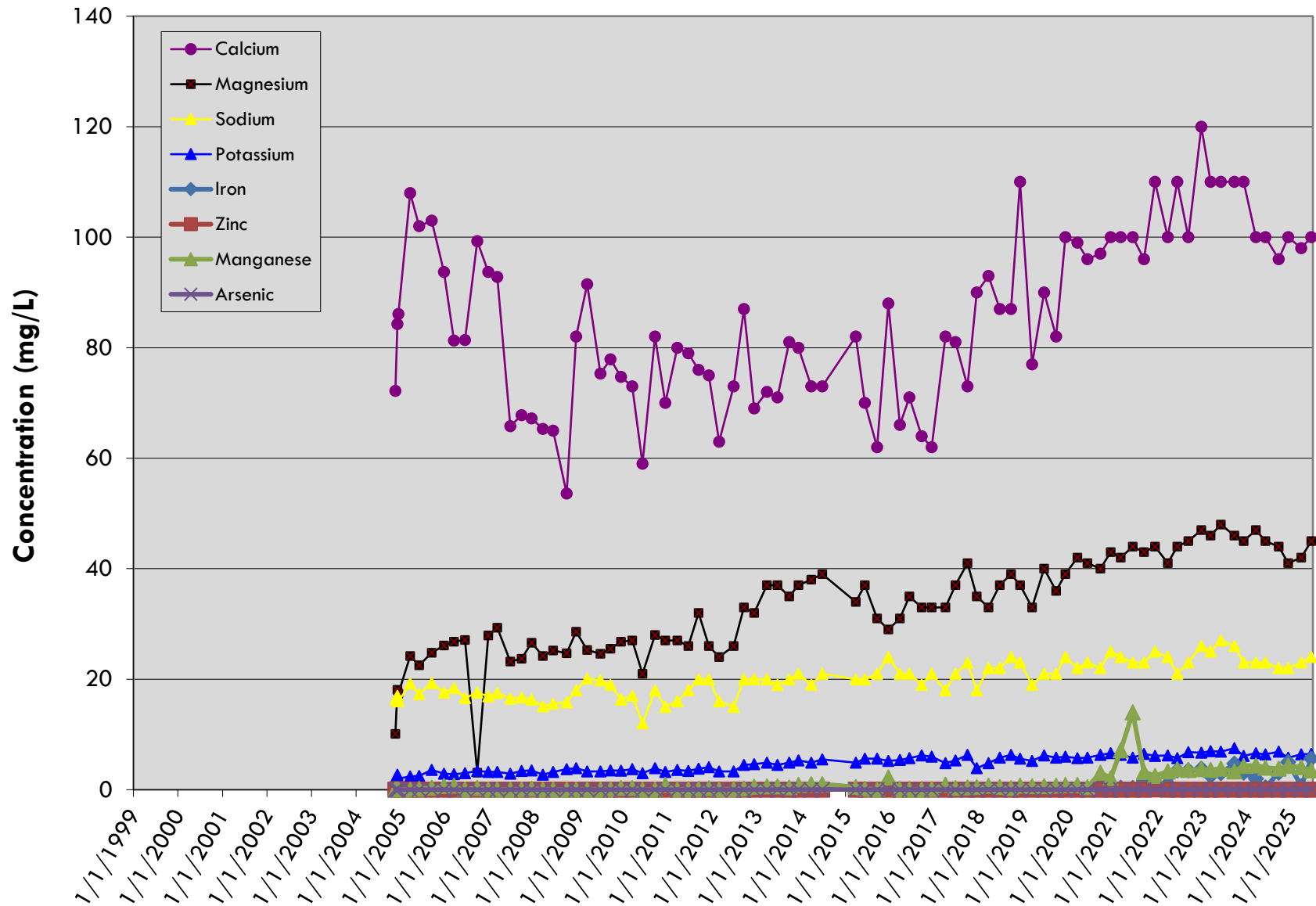
LDCS-2B

LRI Landfill, Pierce County, Washington



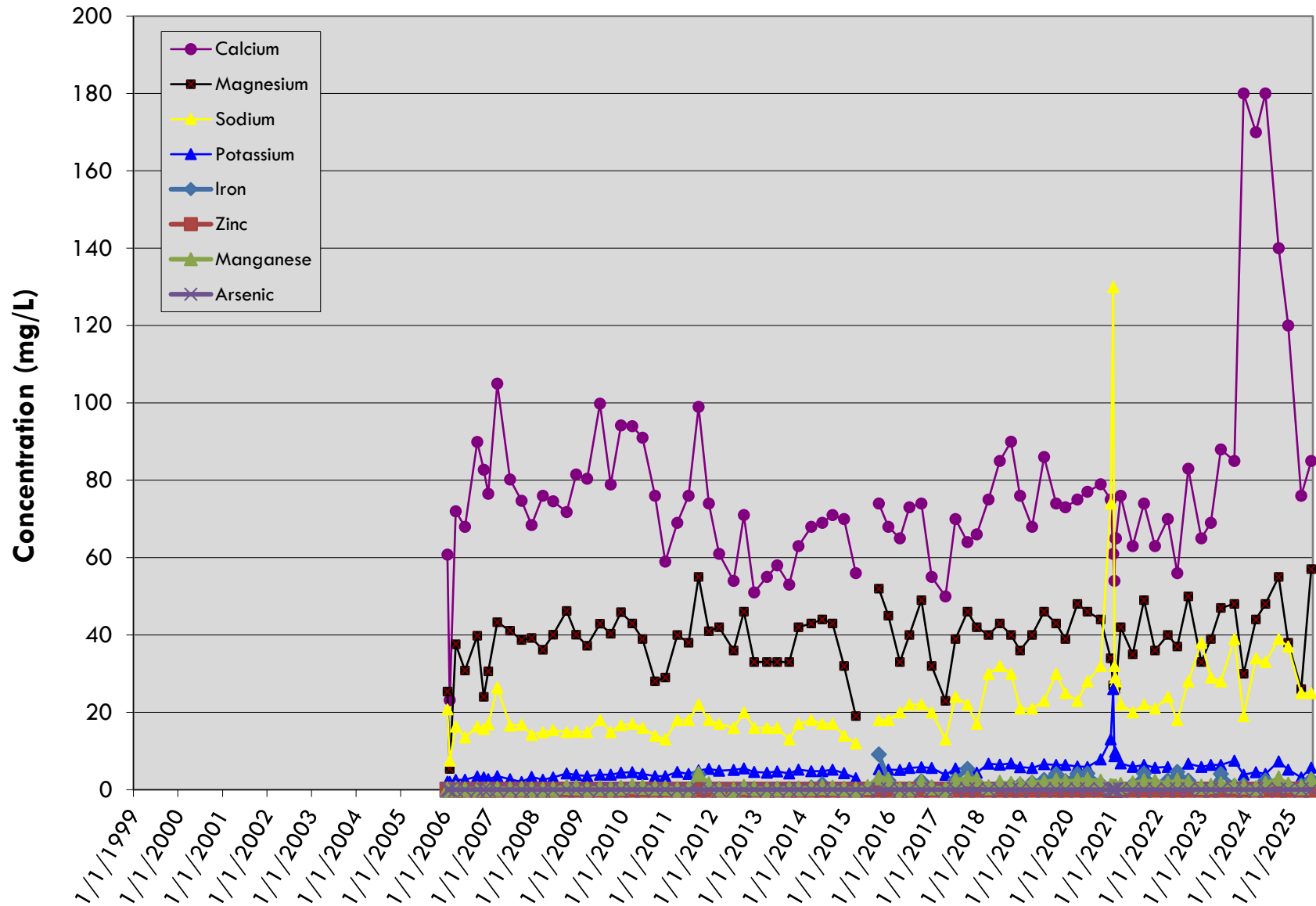
LDCS-3A

LRI Landfill, Pierce County, Washington



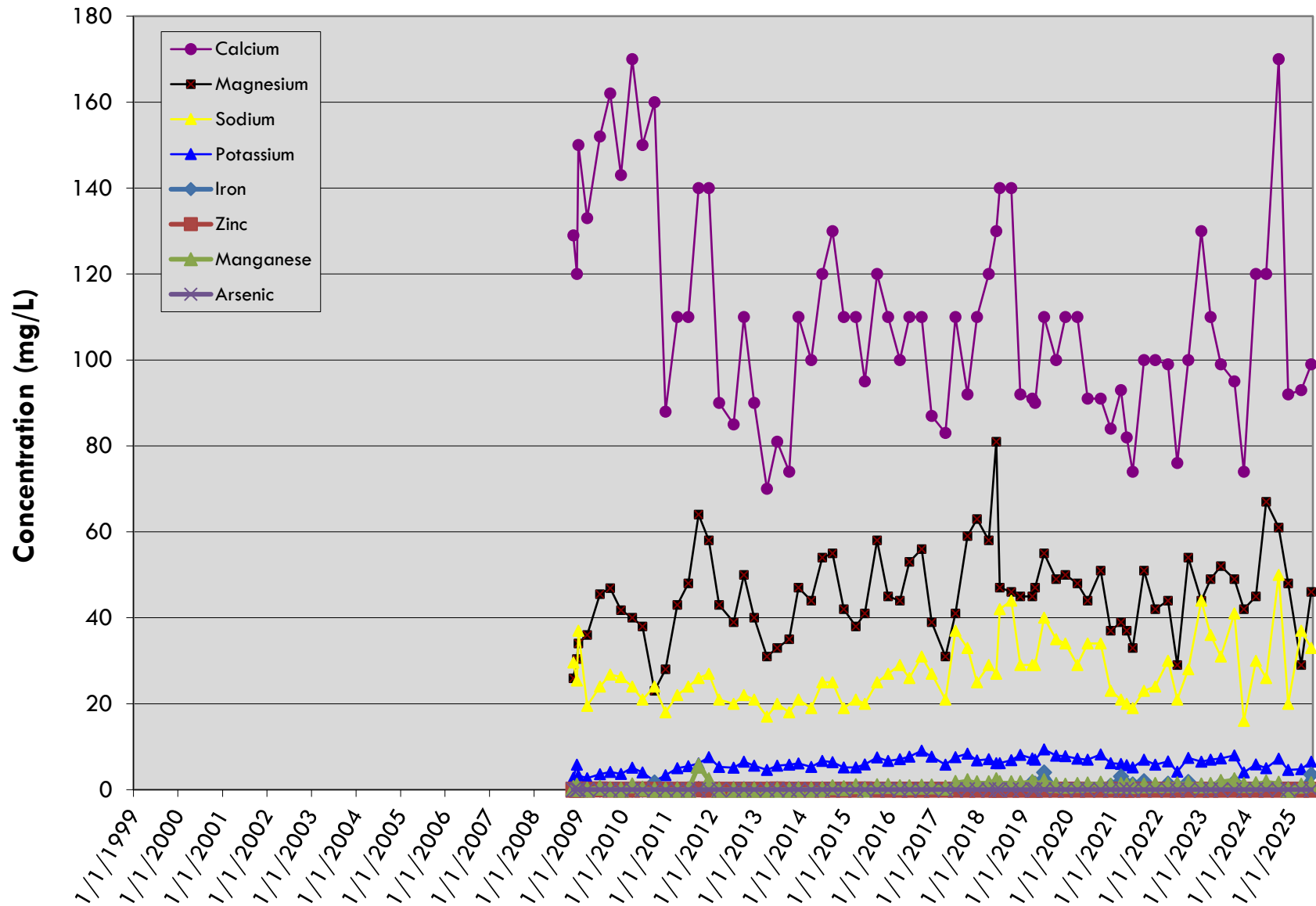
LDCS-4A

LRI Landfill, Pierce County, Washington



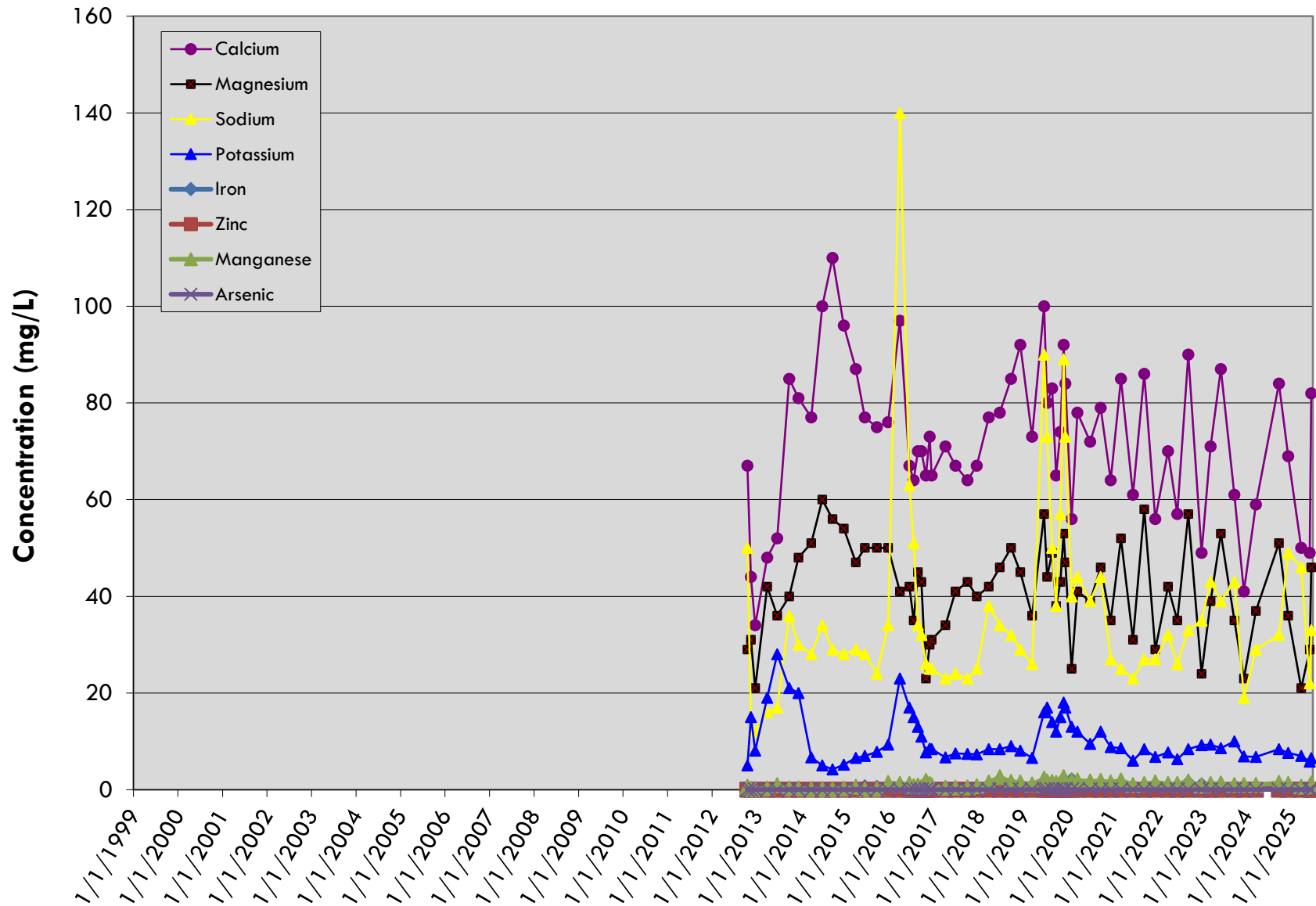
LDCS-4B

LRI Landfill, Pierce County, Washington



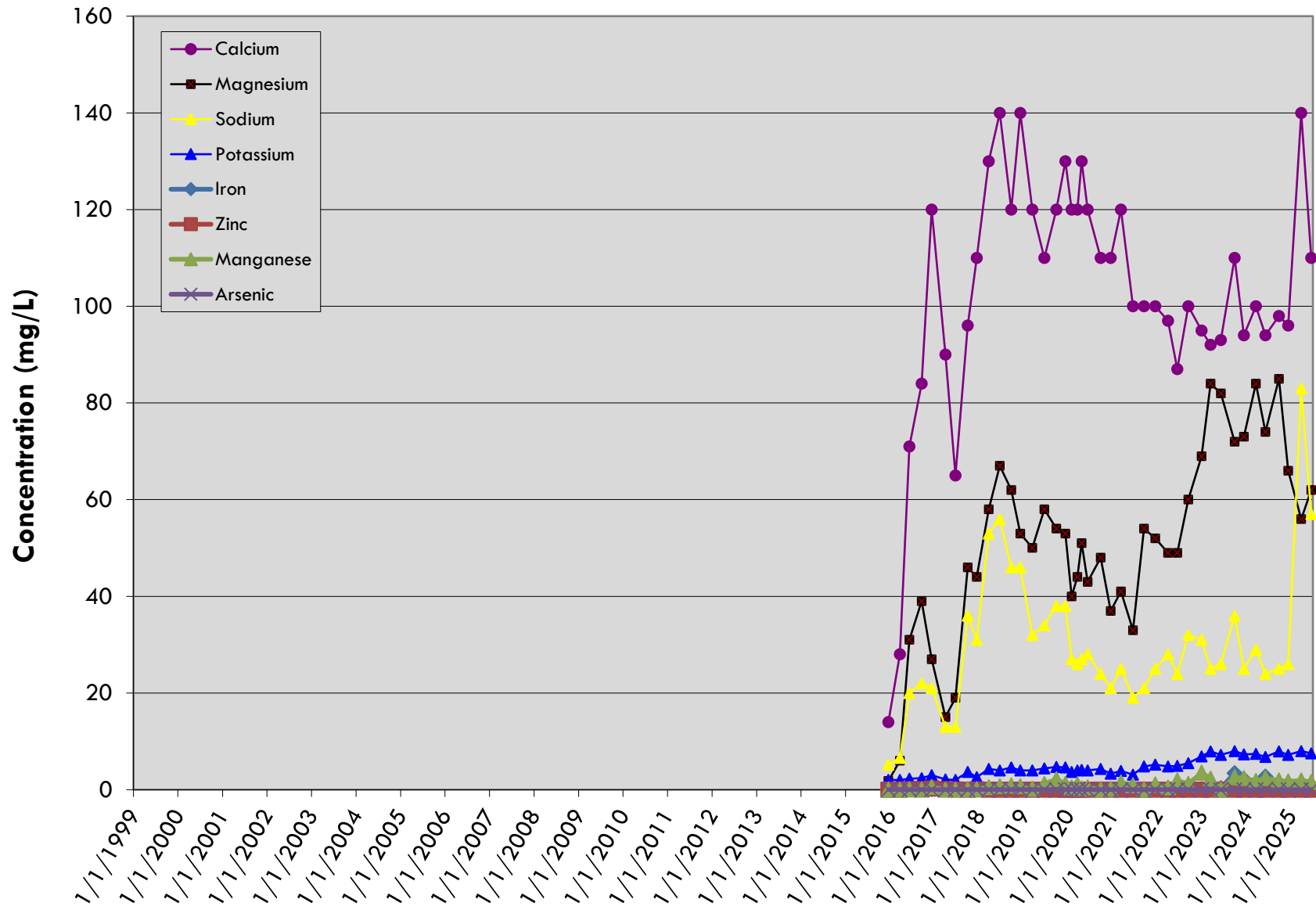
LDCS-5

LRI Landfill, Pierce County, Washington



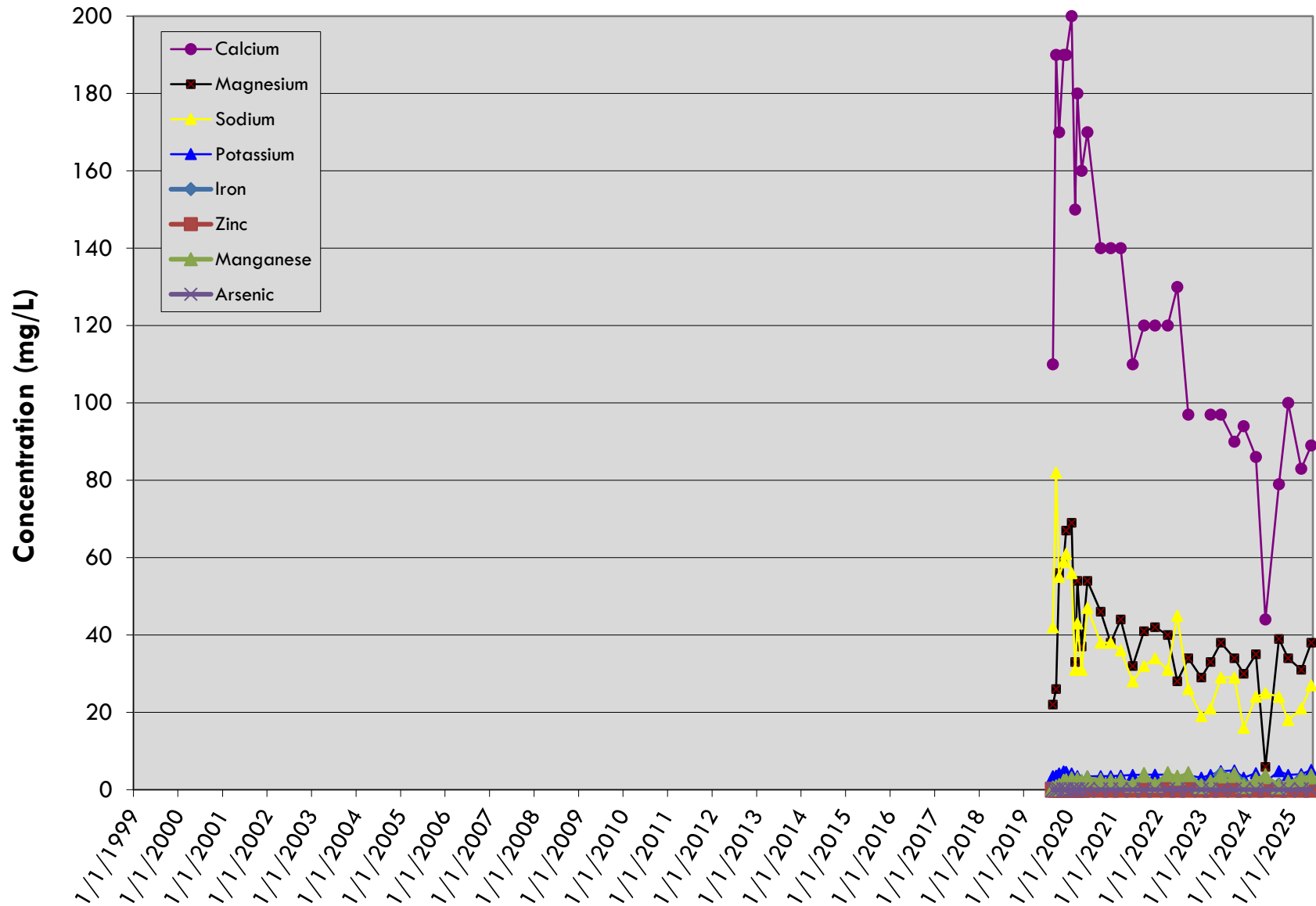
LDCS-6A

LRI Landfill, Pierce County, Washington



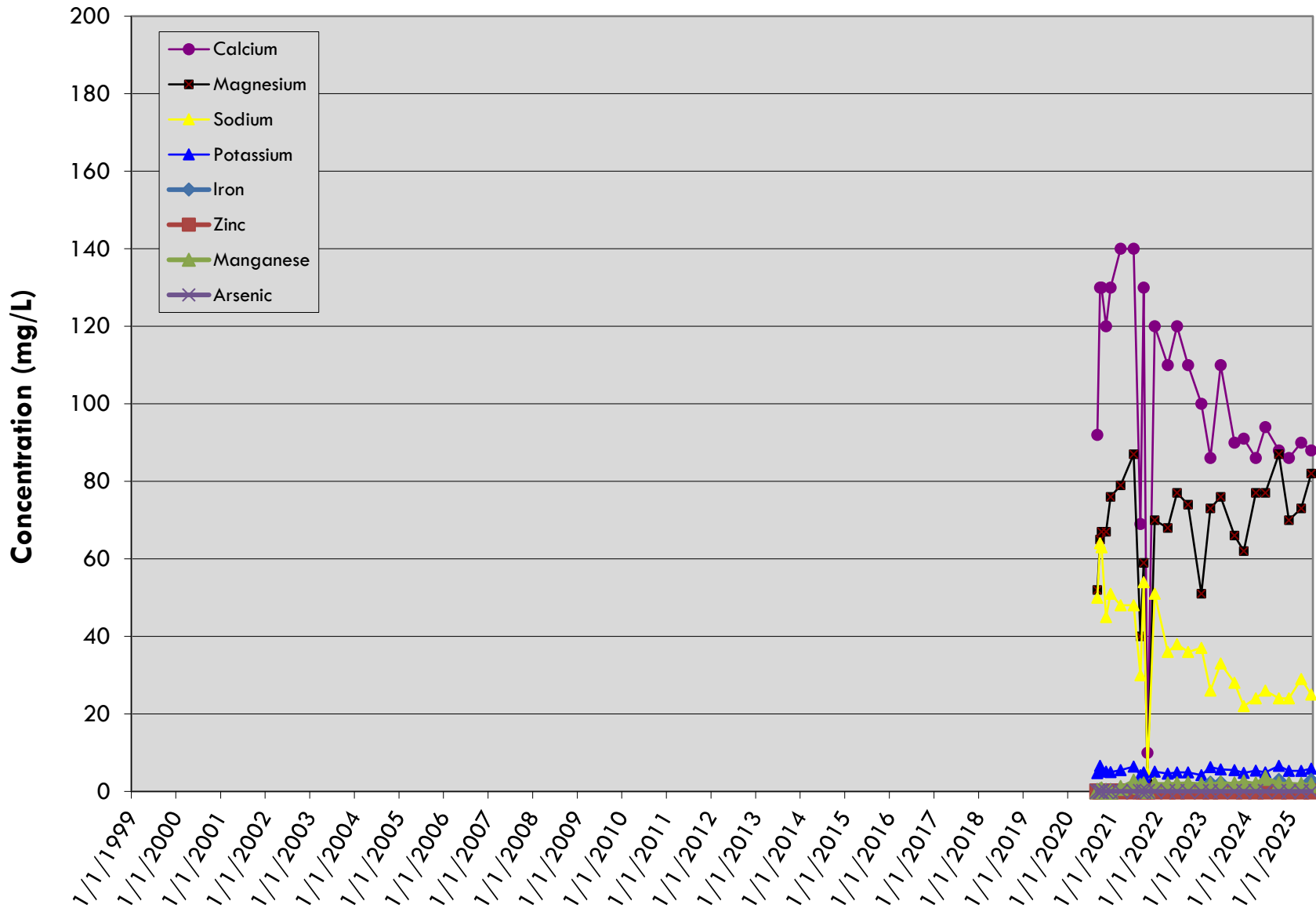
LDCS-7

LRI Landfill, Pierce County, Washington



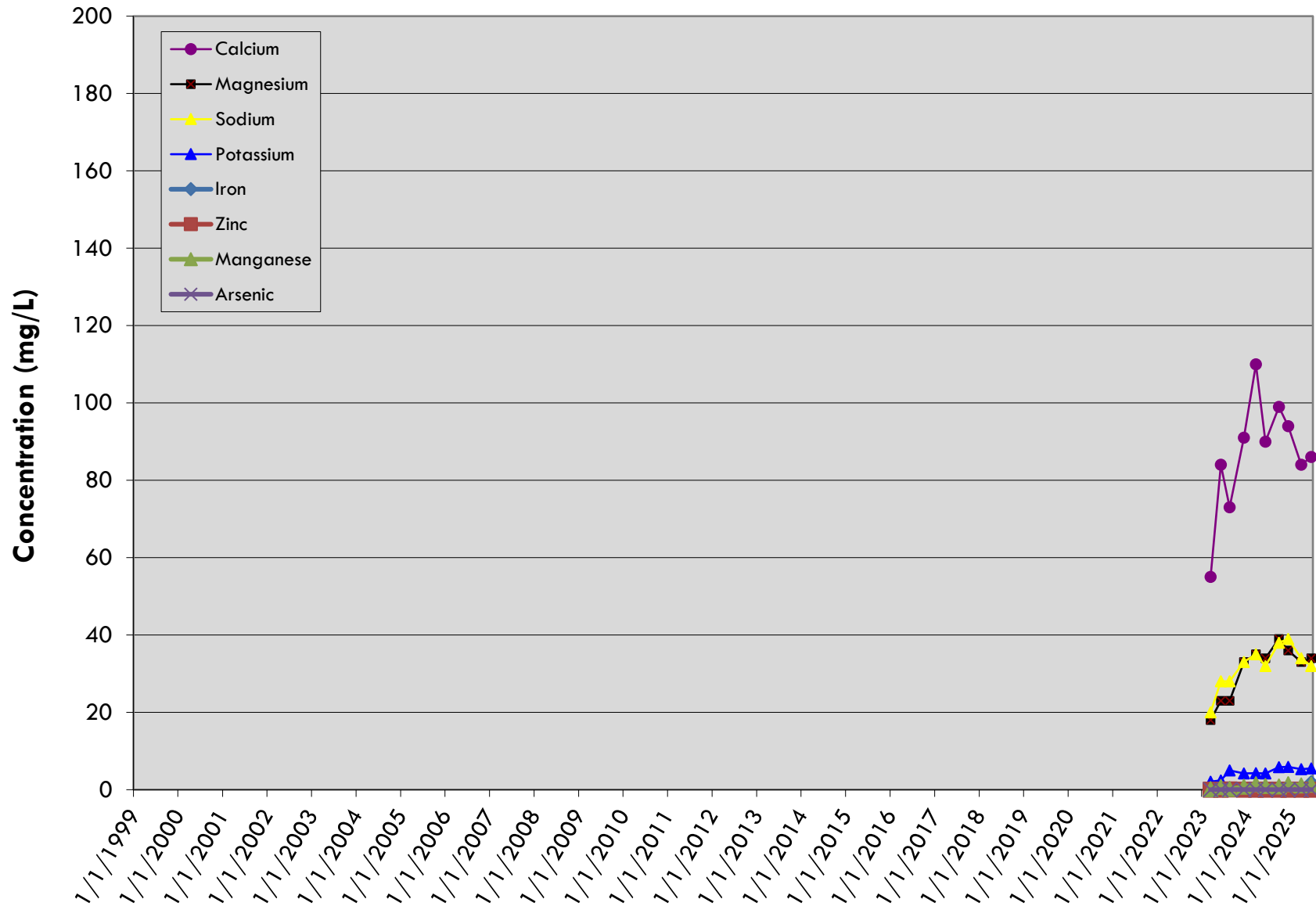
LDCS-8

LRI Landfill, Pierce County, Washington



LDCS-9

LRI Landfill, Pierce County, Washington



Attachment H

LDCS & Leachate Pumping Records and Conductivity Measurements

**Summary of Leachate Volume and Depth Data
Second Quarter 2025
LRI Landfill, Pierce County, Washington**

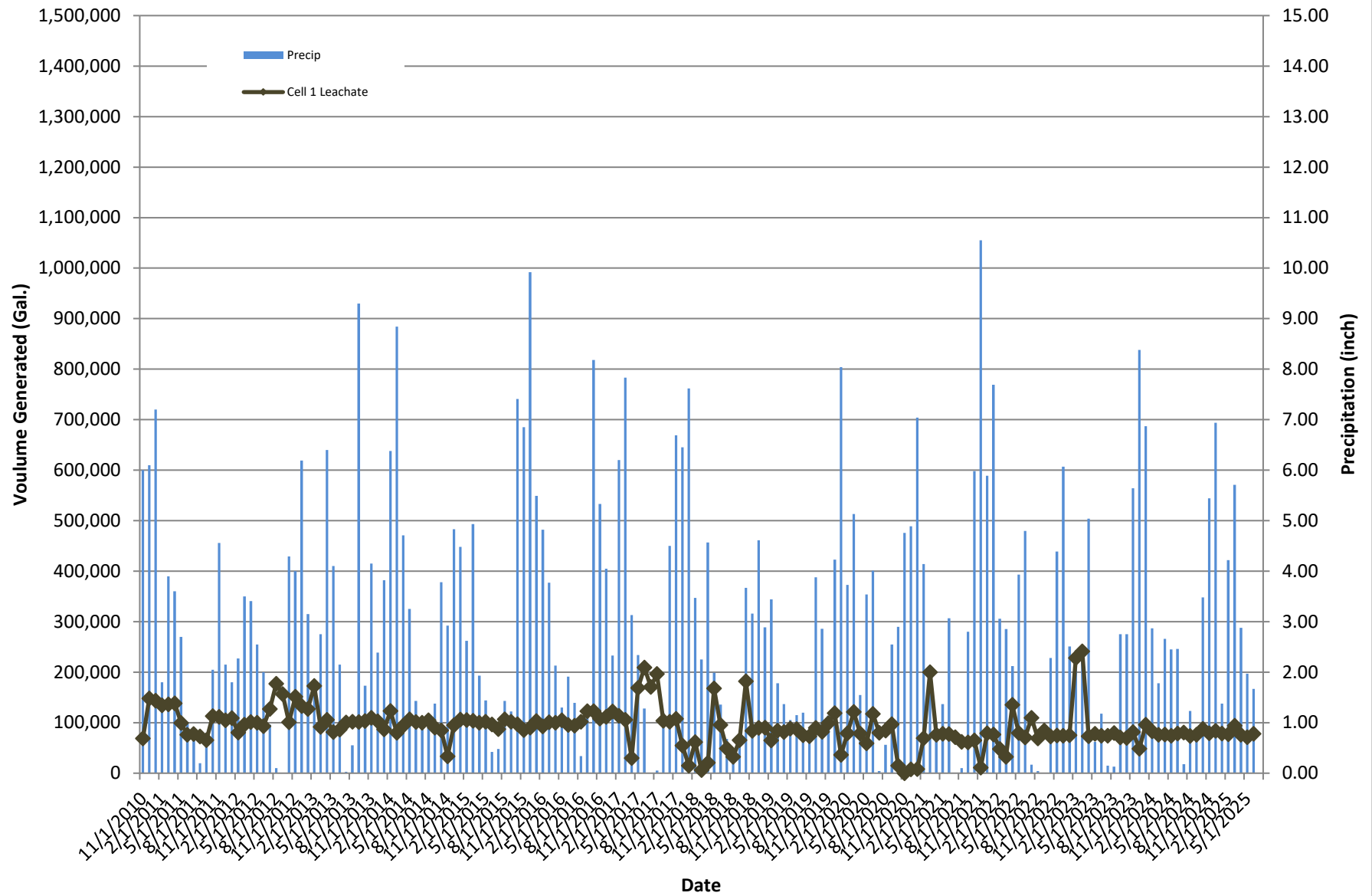
Date	Cell 1 Leachate Volume (GPD)	Cell 1 Leachate Level (in.)	Cell 2A Leachate Volume (GPD)	Cell 2A Leachate Level (in.)	Cell 2B Leachate Volume (GPD)	Cell 2B Leachate Level (in.)	Cell 3A Leachate Volume (GPD)	Cell 3A Leachate Level (in.)	Cell 4A Leachate Volume (GPD)	Cell 4A Leachate Level (in.)	Cell 4B Leachate Volume (GPD)	Cell 4B Leachate Level (in.)	Cell 5 Leachate Volume (GPD)	Cell 5 Leachate Level (in.)	Cell 6 Leachate Volume (GPD)	Cell 6 Leachate Level (in.)	Cell 7 Leachate Volume (GPD)	Cell 7 Leachate Level (in.)	Cell 8A Leachate Volume (GPD)	Cell 8A Leachate Level (in.)	Cell 9A Leachate Volume (GPD)	Cell 9A Leachate Level (in.)
4/1/2025	3,155	10.2	3	10.0	3,810	12.3	4,309	12.7	8,752	9.7	12,720	8.7	3,085	11.0	16,060	13.1	12,412	15.2	21,979	21.9	49,033	10.2
4/2/2025	2,417	10.2	2	11.7	3,519	12.4	3,208	12.4	10,149	8.2	12,828	8.7	2,902	11.1	14,736	15.9	12,995	15.3	24,692	15.0	47,282	11.0
4/3/2025	1,923	10.4	3	14.5	3,685	12.4	3,144	12.7	7,384	9.1	12,362	8.6	2,835	11.0	15,369	15.8	12,860	15.4	20,078	21.9	49,799	10.8
4/4/2025	1,332	10.7	3	15.0	3,712	12.4	3,172	12.7	6,415	9.2	10,512	8.8	2,781	11.0	11,411	15.9	12,544	13.2	17,439	15.4	45,457	10.0
4/5/2025	3,251	10.3	178	0.0	3,477	12.3	3,189	12.8	6,573	9.2	11,388	8.8	2,756	11.0	0	0.0	0	0.0	19,232	21.7	0	0.0
4/6/2025	2,325	10.5	2	0.0	3,938	12.4	3,218	12.6	6,738	9.1	12,494	8.6	2,853	10.7	0	0.0	0	0.0	24,961	15.2	0	0.0
4/7/2025	2,420	10.5	4,028	17.6	4,081	12.3	2,804	12.6	7,180	9.3	11,992	8.7	3,143	10.3	46,511	11.2	41,529	13.7	76,859	18.9	151,741	13.3
4/8/2025	2,733	10.3	0	15.6	4,310	19.9	3,579	13.8	4,145	9.5	14,522	9.3	3,333	12.4	21,762	13.3	16,270	10.0	36,364	20.2	54,959	41.8
4/9/2025	1,584	10.5	424	15.9	3,793	18.1	3,382	12.7	8,264	8.9	15,010	9.5	2,868	12.3	2,970	25.7	13,461	9.7	24,178	22.8	55,874	30.9
4/10/2025	2,163	10.5	0	18.7	3,990	12.5	3,199	12.4	4,157	9.0	14,210	8.7	3,034	10.7	22,626	13.8	12,962	9.2	25,735	15.0	64,774	9.7
4/11/2025	2,741	10.2	2,047	19.1	4,017	12.5	3,208	12.6	6,672	8.9	13,258	8.7	2,965	10.7	14,459	10.5	13,018	13.5	26,685	22.0	54,768	8.9
4/12/2025	1,886	10.4	6,686	0.0	3,559	12.7	3,162	12.6	27,962	9.0	12,224	8.5	2,802	10.9	0	0.0	0	0.0	19,897	15.2	0	0.0
4/13/2025	1,988	10.6	0	0.0	3,667	12.5	3,196	12.5	28,729	7.9	12,428	8.7	2,893	10.7	0	0.0	0	0.0	21,251	21.7	0	0.0
4/14/2025	3,269	10.5	0	12.0	5,817	12.5	3,198	12.6	20,873	8.2	11,698	8.8	2,977	10.7	33,770	10.5	34,480	13.3	20,536	15.2	148,330	7.6
4/15/2025	2,685	10.5	0	13.4	7,787	12.6	3,185	12.7	13,178	8.4	12,888	8.6	3,000	10.6	12,018	10.2	7,885	11.1	22,360	21.7	47,439	8.8
4/16/2025	2,252	10.6	0	1,509.0	7,800	12.6	3,204	12.6	1,339	9.6	12,394	8.6	3,093	10.4	11,584	15.6	10,590	15.7	20,217	22.0	49,196	8.9
4/17/2025	2,268	10.6	0	17.1	7,229	12.7	3,180	12.7	11,476	8.2	12,610	8.5	2,980	10.6	12,418	15.7	12,688	15.1	20,663	24.8	48,095	9.4
4/18/2025	2,301	10.7	0	18.7	7,185	12.7	3,200	12.6	13,111	8.9	12,428	8.6	3,020	10.5	10,471	15.6	12,215	14.0	23,622	24.8	45,617	7.2
4/19/2025	2,851	10.4	1	0.0	6,589	12.8	3,180	12.5	6,554	9.4	11,708	8.6	3,015	10.4	0	0.0	0	0.0	24,064	25.0	0	0.0
4/20/2025	2,018	10.6	0	0.0	6,744	12.7	3,168	12.5	6,341	9.4	11,876	8.6	2,945	10.4	0	0.0	0	0.0	24,039	25.1	0	0.0
4/21/2025	2,122	10.6	10,484	22.7	6,528	12.7	3,161	12.5	3,786	9.3	11,940	8.6	2,914	10.4	34,519	10.3	29,565	16.0	24,031	25.2	139,698	10.7
4/22/2025	3,367	10.4	0	9.0	6,238	12.6	3,145	12.6	4,592	9.1	12,074	8.6	3,131	10.2	11,396	15.1	12,751	15.1	21,706	25.0	47,784	11.9
4/23/2025	3,164	10.5	0	11.3	5,959	12.7	3,189	12.6	5,931	9.1	12,546	8.7	2,967	10.2	11,302	15.8	12,724	14.0	20,916	22.3	43,149	10.7
4/24/2025	2,505	10.6	0	13.6	6,200	12.7	3,219	12.5	7,599	9.1	13,154	8.7	2,995	10.2	12,123	15.7	12,521	13.1	18,339	16.2	46,825	11.5
4/25/2025	2,510	10.6	5,247	15.4	5,934	12.7	3,188	12.6	10,348	8.4	12,930	8.5	3,118	10.3	11,951	15.1	6,062	15.9	19,769	20.3	45,689	11.5
4/26/2025	2,525	10.7	0	0.0	5,954	12.7	3,192	12.6	6,629	9.2	12,702	8.6	3,182	10.0	0	0.0	0	0.0	17,433	16.3	0	0.0
4/27/2025	2,266	10.5	0	0.0	5,973	12.7	3,170	12.6	6,663	9.2	12,316	8.6	3,113	10.1	0	0.0	0	0.0	21,688	19.5	0	0.0
4/28/2025	2,057	10.5	0	12.3	5,574	12.7	3,154	12.6	7,110	9.2	12,190	8.7	2,805	10.3	33,474	15.7	31,341	15.4	15,883	16.5	137,709	11.4
4/29/2025	2,426	10.6	4,641	14.8	5,770	12.7	3,153	12.7	5,985	8.9	11,986	8.7	2,828	10.5	12,410	14.8	11,919	15.9	28,315	20.6	46,556	8.9
4/30/2025	2,954	10.5	0	8.6	5,602	12.7	3,152	12.8	6,612	9.0	12,538	8.6	2,859	10.8	12,388	15.5	12,050	15.3	18,578	16.2	46,515	7.7
5/1/2025	3,929	10.3	0	11.1	5,618	12.7	3,170	12.7	6,568	9.1	12,574	8.7	2,965	10.6	11,774	15.9	11,303	14.6	21,916	19.9	44,427	11.8
5/2/2025	2,221	10.6	0	12.7	4,518	12.6	3,152	12.6	6,535	9.0	0	6.2	2,989	10.6	11,318	11.7	11,798	13.9	18,884	16.2	44,355	11.8
5/3/2025	1,308	10.8	0	0.0	3,642	12.7	3,183	12.8	6,549	9.1	0	0.0	2,905	10.5	0	0.0	0	0.0	21,362	19.9	0	0.0
5/4/2025	2,320	10.5	4,944	0.0	3,706	12.6	2,097	12.6	6,698	9.0	0	0.0	2,949	10.4	0	0.0	0	0.0	19,621	21.2	0	0.0
5/5/2025	2,270	10.7	0	9.7	3,479	12.5	3,181	12.4	6,582	9.2	0	0.0	2,760	10.5	34,700	15.7	28,384	14.5	21,889	20.2	137,075	5.8
5/6/2025	2,566	10.6	0	12.2	3,485	12.5	3,176	12.5	6,602	9.1	3,941	6.3	2,948	10.4	10,319	13.8	8,632	11.0	19,091	16.2	44,675	6.4
5/7/2025	1,762	10.8	0	15.4	3,239	12.6	3,153	12.6	6,488	9.1	2,308	16.7	3,075	10.6	12,116	10.7	9,048	15.4	23,591	20.1	44,036	11.2
5/8/2025	2,796	10.5	4,973	12.0	3,422	12.5	3,159	12.5	6,671	9.1	5,878	17.2	2,832	10.6	11,218	15.9	11,385	14.4	17,968	16.2	46,465	10.2
5/9/2025	1,582	10.8	0	9.0	3,611	12.5	3,184	12.6	6,612	9.2	6,064	17.2	2,778	10.6	10,894	16.0	5,959	16.0	22,266	19.9	44,607	11.0
5/10/2025	1,483	10.8	0	0.0	3,736	12.5	3,203	12.7	11,985	9.1	6,287	17.2	2,939	10.5	0	0.0	0	0.0	19,868	16.1	0	0.0
5/11/2025	3,734	10.4	0	0.0	3,806	12.4	3,232	12.6	6,665	9.2	6,589	17.2	3,152	10.3	0	0.0	0	0.0	24,320	20.2	0	0.0
5/12/2025	2,387	10.6	4,943	15.5	3,806	12.5	3,213	12.7	6,564	9.2	6,597	17.2	3,242	10.3	35,265	14.0	29,923	12.6	21,835	16.0	136,407	7.8
5/13/2025	2,164	10.5	0	8.0	3,516	12.5	3,200	12.7	0	9.5	6,500	17.3	3,029	10.3	12,503	15.9	12,163	14.8	22,363	20.0	44,509	11.7
5/14/2025	1,415	10.7	0	10.5	3,546	12.5	3,201	12.8	6,623	9.0	6,391	17.2	3,019	10.2	10,227	10.3	9,820	10.1	19,683	17.5	42,988	9.5
5/15/2025	1,335	10.8	0	13.5	3,294	12.5	2,137	12.8	15,854	8.7	5,996	17.2	2,860	10.2	11,454	15.1	7,805	14.9	18,660	17.5	46,072	10.1
5/16/2025	3,941	10.3	5,029	15.3	3,726	12.4	3,222	12.3	4,408	11.9	6,115	17.2	3,079	10.0	12,750	15.5	11,374	14.5	24,428	20.5	46,758	11.0
5/17/2025	2,479	10.4	0	0.0	3,786	12.6	3,157	12.5	4,344	14.2	6,118	17.2	3,209	9.7	0	0.0	0	0.0	39,422	14.8	0	0.0
5/18/2025	1,977	10.6	0	0.0	3,543	12.5	3,129	12.7	0	18.2	6,266	17.2	3,098	10.1	0	0.0	0	0.0	24,012	20.2	0	0.0
5/19/2025	2,818	10.3	0	12.3	3,604	12.4	3,216	12.6	6,102	17.2	3,209	10.0	2,827	10.2	37,917	15.9	34,018	14.5	29,257	15.5	141,795	11.0
5/20/2025	1,227	10.7	0	13.9	3,538	12.5	3,227	12.6	22,078	8.6	5,953	17.2	2,827	10.2	14,820	14.6	12,106	13.8	31,401	21.0	45,224	9.5
5/21/2025	2,341	10.6	4,888	7.4	3,570	12.4	3,247	12.7	7,587	8.9	6,019	17.2	3,170	10.0	13,083	9.6	7,547	11.6	24,444	15.8	45,710	11.2
5/22/2025	2,717	10.6	0	9.8	3,547	12.5	3,232	12.7	10,348	9.2	5,903	17.2	3,000	10.1	10,795	13.1	10,636	14.9	23,448	20.4	46,954	8.4
5/23/2025	2,026	10.7	0	0.0	3,309	12.4	3,209	12.8	6,185	17.2	2,963	10.2	0	0.0	0	0.0	0	0.0	20,136	16.0	0	0.0
5/24/2025	2,505	10.7	0	0.0	3,553	12.4	3,273	12														

**Summary of Leachate Volume and Depth Data
Second Quarter 2025
LRI Landfill, Pierce County, Washington**

Date	Cell 1 Leachate Volume (GPD)	Cell 1 Leachate Level (in.)	Cell 2A Leachate Volume (GPD)	Cell 2A Leachate Level (in.)	Cell 2B Leachate Volume (GPD)	Cell 2B Leachate Level (in.)	Cell 3A Leachate Volume (GPD)	Cell 3A Leachate Level (in.)	Cell 4A Leachate Volume (GPD)	Cell 4A Leachate Level (in.)	Cell 4B Leachate Volume (GPD)	Cell 4B Leachate Level (in.)	Cell 5 Leachate Volume (GPD)	Cell 5 Leachate Level (in.)	Cell 6 Leachate Volume (GPD)	Cell 6 Leachate Level (in.)	Cell 7 Leachate Volume (GPD)	Cell 7 Leachate Level (in.)	Cell 8A Leachate Volume (GPD)	Cell 8A Leachate Level (in.)	Cell 9A Leachate Volume (GPD)	Cell 9A Leachate Level (in.)
6/1/2025	3,113	10.4	0	0.0	3,350	12.3	3,201	12.4	12,040	9.2	5,976	17.2	2,739	10.5	0	0.0	0	0.0	16,335	16.3	0	0.0
6/2/2025	1,839	10.7	0	13.5	3,309	12.3	3,206	12.6	6,602	8.7	5,974	17.2	2,802	10.4	32,728	14.1	22,458	15.6	21,446	19.9	135,003	9.3
6/3/2025	2,559	10.7	0	15.3	3,343	12.3	3,204	12.9	6,813	9.2	7,719	17.3	2,715	10.5	10,251	15.5	11,474	14.0	18,226	16.1	44,751	11.6
6/4/2025	2,484	10.7	6,364	7.0	3,296	12.4	2,155	12.8	13,233	8.4	7,272	17.3	2,970	10.3	11,271	14.6	5,873	15.6	21,402	19.9	44,855	10.0
6/5/2025	2,295	10.7	0	9.2	3,348	12.3	3,236	12.4	13,066	9.0	6,554	17.2	2,938	10.3	12,022	11.7	7,641	15.9	18,099	16.1	43,636	8.1
6/6/2025	2,367	10.7	0	11.5	3,336	12.2	3,215	12.4	4,662	9.3	6,321	17.2	3,073	10.3	11,656	15.8	14,622	13.6	20,993	20.0	44,853	10.0
6/7/2025	2,776	10.6	0	0.0	3,314	12.3	3,203	12.5	8,418	8.1	6,301	17.2	2,947	10.3	0	0.0	0	0.0	17,321	16.2	0	0.0
6/8/2025	2,386	10.7	2,293	0.0	3,319	12.3	3,233	12.5	6,550	8.8	6,229	17.2	2,989	10.3	0	0.0	0	0.0	20,480	20.0	0	0.0
6/9/2025	2,789	10.6	0	12.7	3,125	12.1	3,223	12.6	6,559	9.1	6,277	17.2	2,798	10.2	32,959	15.9	22,697	15.8	17,212	16.1	132,064	9.0
6/10/2025	2,898	10.6	0	14.7	3,126	12.3	3,223	12.6	6,631	9.1	6,257	17.2	3,075	10.1	12,054	15.6	11,653	14.8	19,992	19.9	18,164	2.8
6/11/2025	2,556	10.6	0	16.2	3,490	12.3	3,221	12.8	6,586	8.9	6,274	17.2	2,896	10.2	10,878	10.4	12,160	13.3	16,541	16.2	16,820	8.5
6/12/2025	2,453	10.6	1	18.0	3,343	12.3	2,842	13.0	6,591	9.1	6,393	17.2	2,937	10.3	11,449	15.8	5,368	15.3	19,944	19.8	37,230	9.3
6/13/2025	2,292	10.5	0	19.5	3,378	12.4	2,460	12.3	6,463	9.2	6,295	17.2	2,842	10.3	10,176	15.9	7,295	13.8	15,420	16.3	39,704	10.5
6/14/2025	3,890	10.2	0	0.0	3,575	12.4	3,211	12.5	6,413	9.6	6,546	17.2	2,771	10.2	0	0.0	0	0.0	19,208	19.7	0	0.0
6/15/2025	1,943	10.3	0	0.0	3,314	12.3	3,211	12.7	2,690	9.3	6,466	17.2	2,960	10.3	0	0.0	0	0.0	14,908	16.3	0	0.0
6/16/2025	2,141	10.6	0	23.1	3,263	12.4	2,101	12.9	3,809	9.0	6,378	17.2	2,917	10.1	32,557	15.7	28,967	15.7	19,810	19.9	122,851	6.7
6/17/2025	2,085	10.6	12,292	25.0	3,081	12.2	3,208	12.3	13,127	8.0	6,531	17.2	3,245	9.9	11,105	14.8	11,647	14.8	16,491	16.2	43,553	11.5
6/18/2025	2,398	10.6	0	8.4	3,563	12.5	3,193	12.6	6,516	9.1	6,097	17.2	2,879	10.1	11,111	15.8	10,195	13.9	20,115	20.0	41,596	7.8
6/19/2025	2,533	10.6	0	9.9	3,290	12.3	3,248	12.9	6,492	9.2	6,249	17.2	3,080	9.9	11,237	15.5	8,108	15.2	15,485	16.3	43,888	6.6
6/20/2025	2,828	10.5	0	12.1	3,376	12.4	2,160	12.7	6,615	8.9	6,800	17.3	3,265	9.8	11,103	15.2	11,995	14.0	18,337	20.3	43,279	10.1
6/21/2025	2,775	10.4	0	0.0	3,660	12.4	3,208	12.5	6,997	8.8	7,079	17.2	3,493	9.7	0	0.0	0	0.0	40,701	15.0	0	0.0
6/22/2025	1,935	10.5	0	0.0	3,286	12.4	3,232	12.8	6,580	8.9	6,720	17.3	2,877	10.0	0	0.0	0	0.0	21,923	20.7	0	0.0
6/23/2025	2,923	10.5	5,841	7.5	3,050	12.3	3,277	12.6	6,561	9.0	6,537	17.2	2,924	10.1	40,113	15.8	38,644	14.4	17,830	16.1	136,013	8.5
6/24/2025	1,248	10.8	0	9.9	3,271	12.3	3,234	12.6	6,638	9.1	6,435	17.2	3,096	9.9	11,164	10.4	11,347	13.8	21,057	20.0	41,365	8.3
6/25/2025	2,535	10.6	0	11.7	3,306	12.4	3,250	12.6	6,564	9.2	6,403	17.2	3,183	9.9	11,448	10.7	6,913	11.2	16,452	16.2	41,749	10.0
6/26/2025	2,959	10.3	0	13.9	3,329	12.4	3,272	12.5	6,533	9.3	6,503	17.2	2,989	9.9	11,659	13.5	11,101	14.8	19,871	19.9	44,343	7.9
6/27/2025	3,394	10.3	5,170	15.5	3,570	12.5	3,221	12.5	3,270	9.7	6,313	17.2	2,777	9.9	11,918	11.1	8,588	15.9	17,401	16.1	37,622	9.7
6/28/2025	1,752	10.3	0	0.0	3,131	12.5	3,193	12.7	6,238	8.8	6,238	17.2	2,771	10.1	0	0.0	0	0.0	19,784	19.9	0	0.0
6/29/2025	3,339	10.3	0	0.0	3,148	12.3	3,245	12.8	6,548	8.9	6,225	17.2	2,736	10.1	0	0.0	0	0.0	16,529	16.2	0	0.0
6/30/2025	3,356	10.4	0	12.9	3,310	12.3	2,468	13.0	6,452	8.9	6,180	17.2	2,931	9.9	33,022	15.1	29,626	15.3	8,712	21.0	120,148	9.6

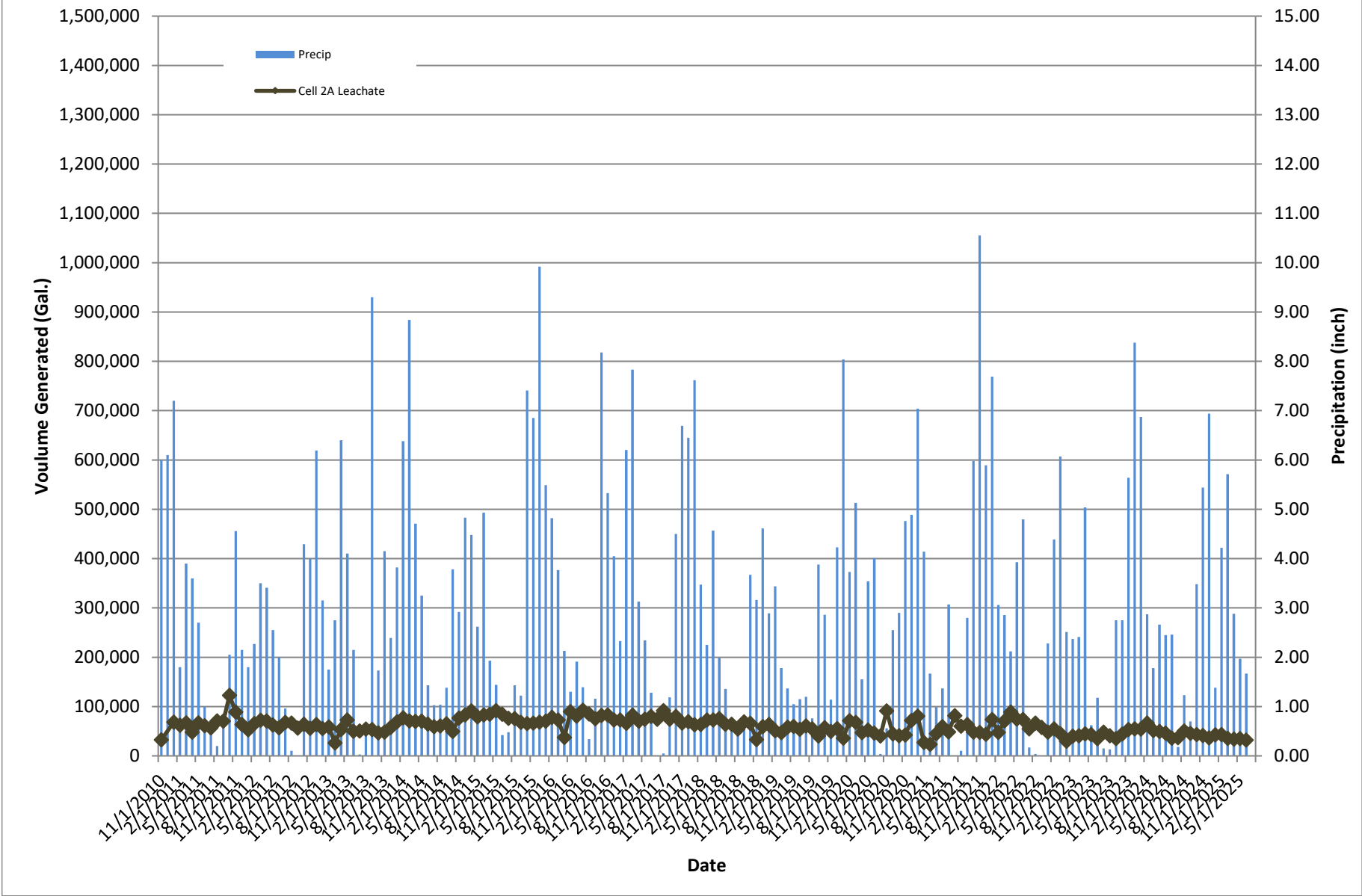
Cell 1 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



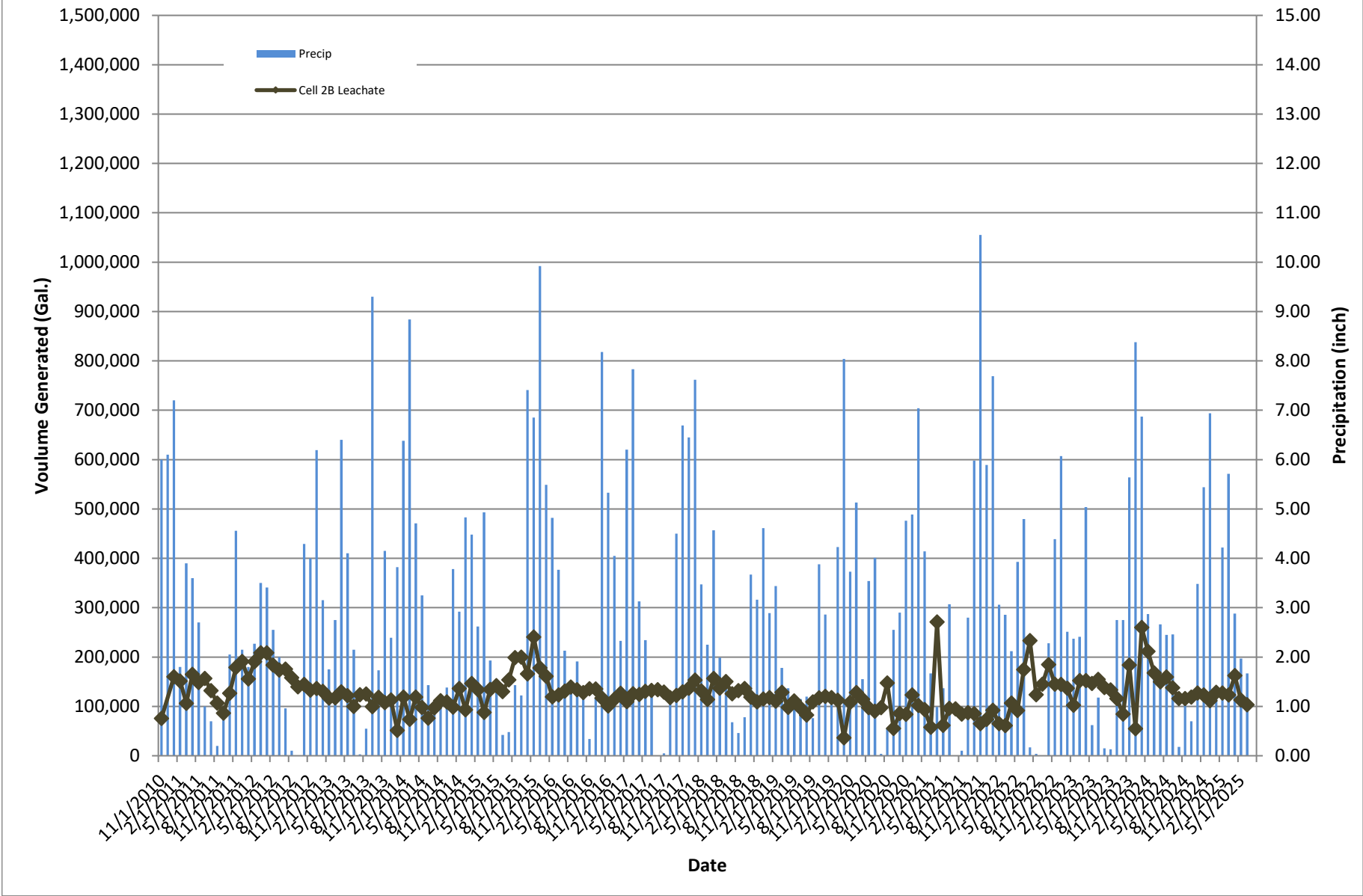
Cell 2A Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



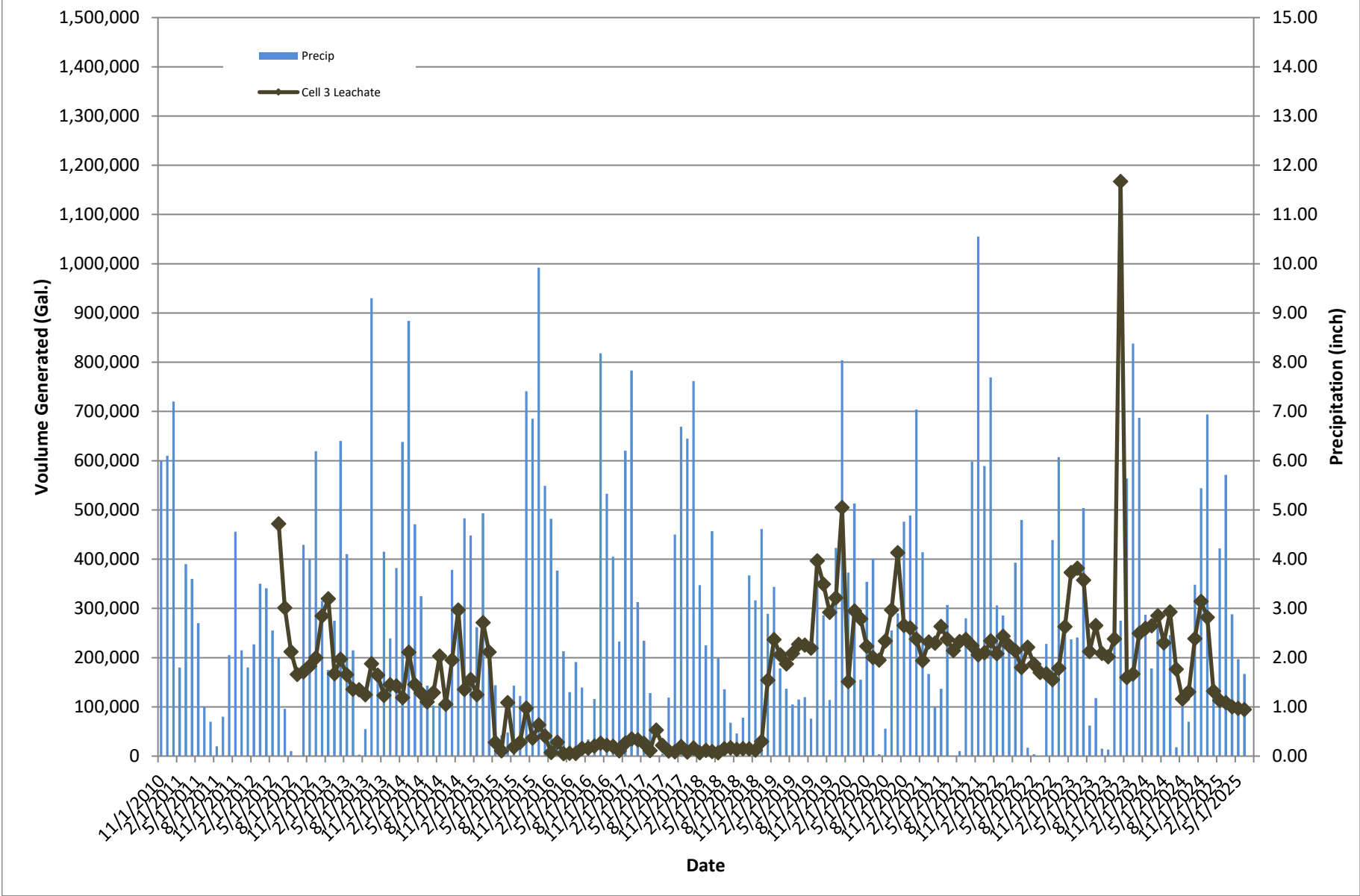
Cell 2B Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



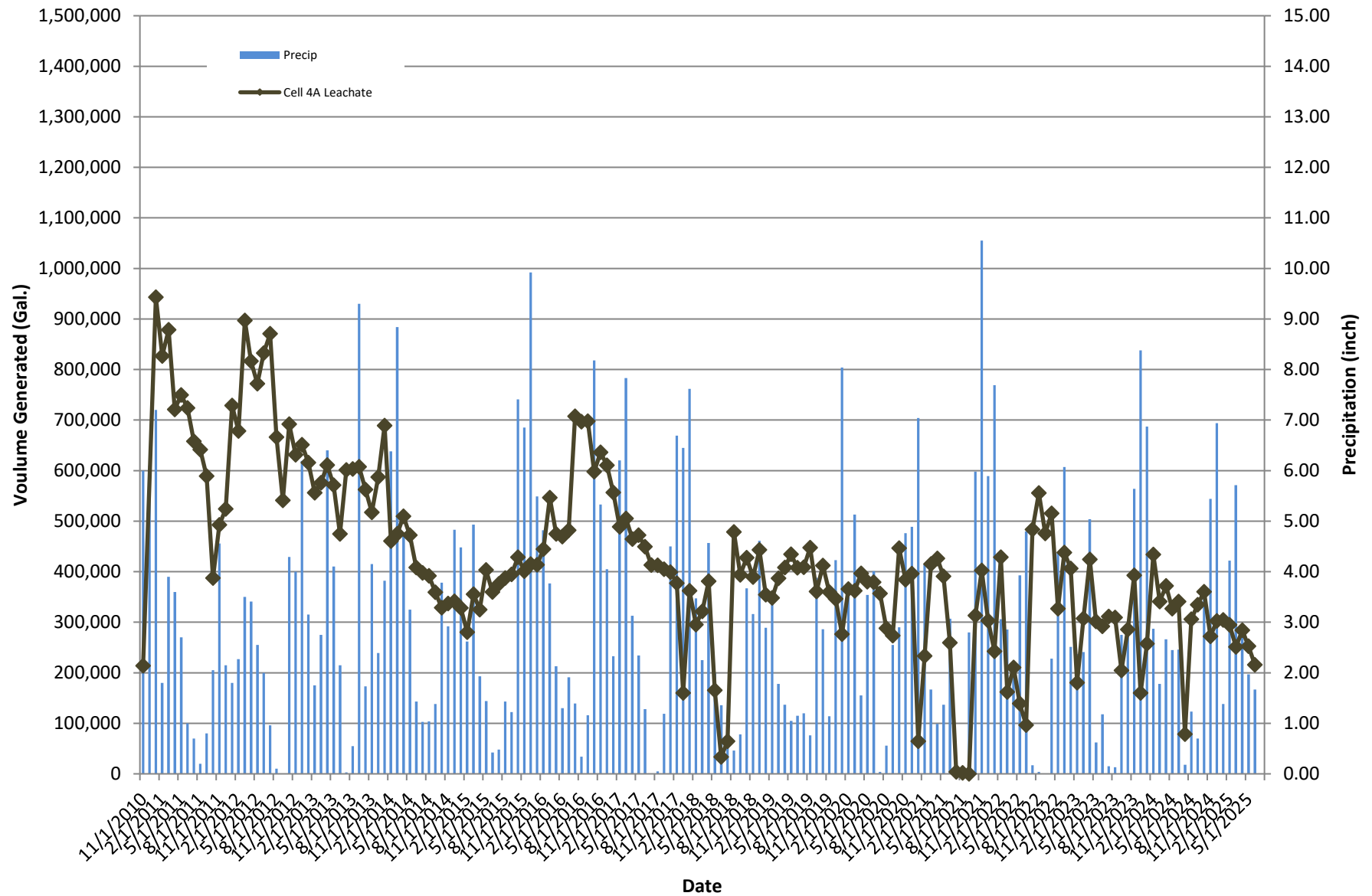
Cell 3A Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



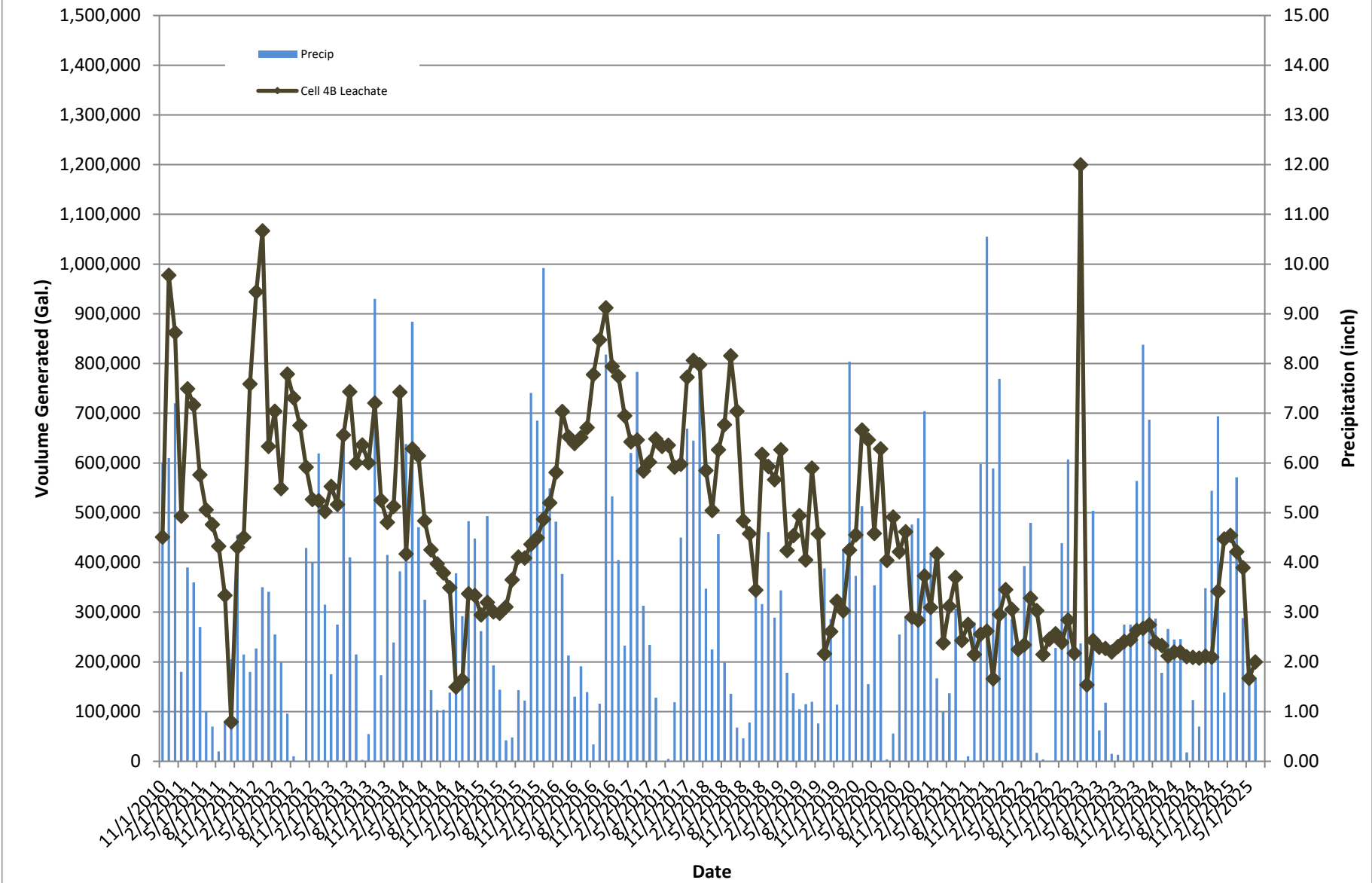
Cell 4A Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



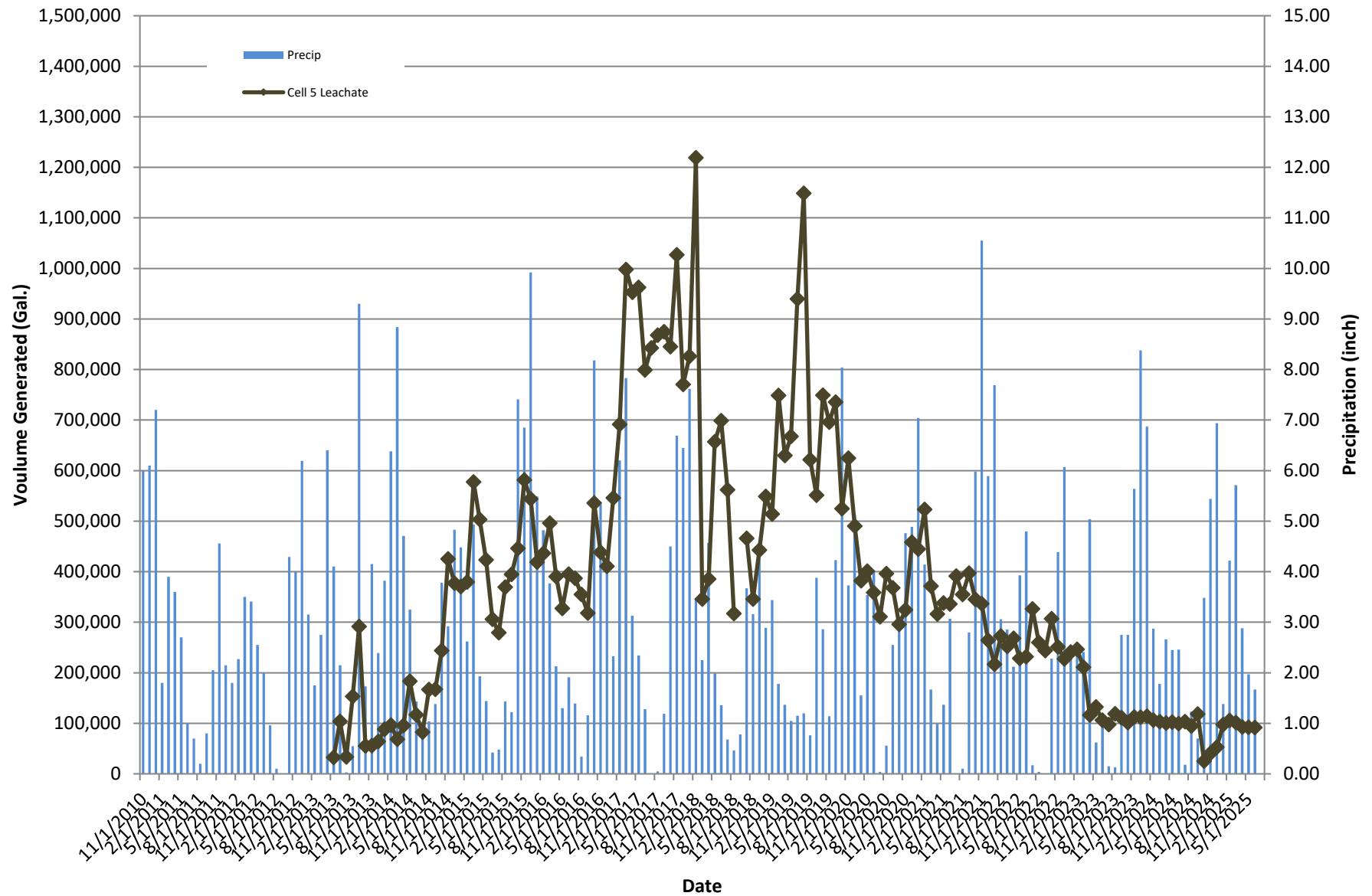
Cell 4B Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



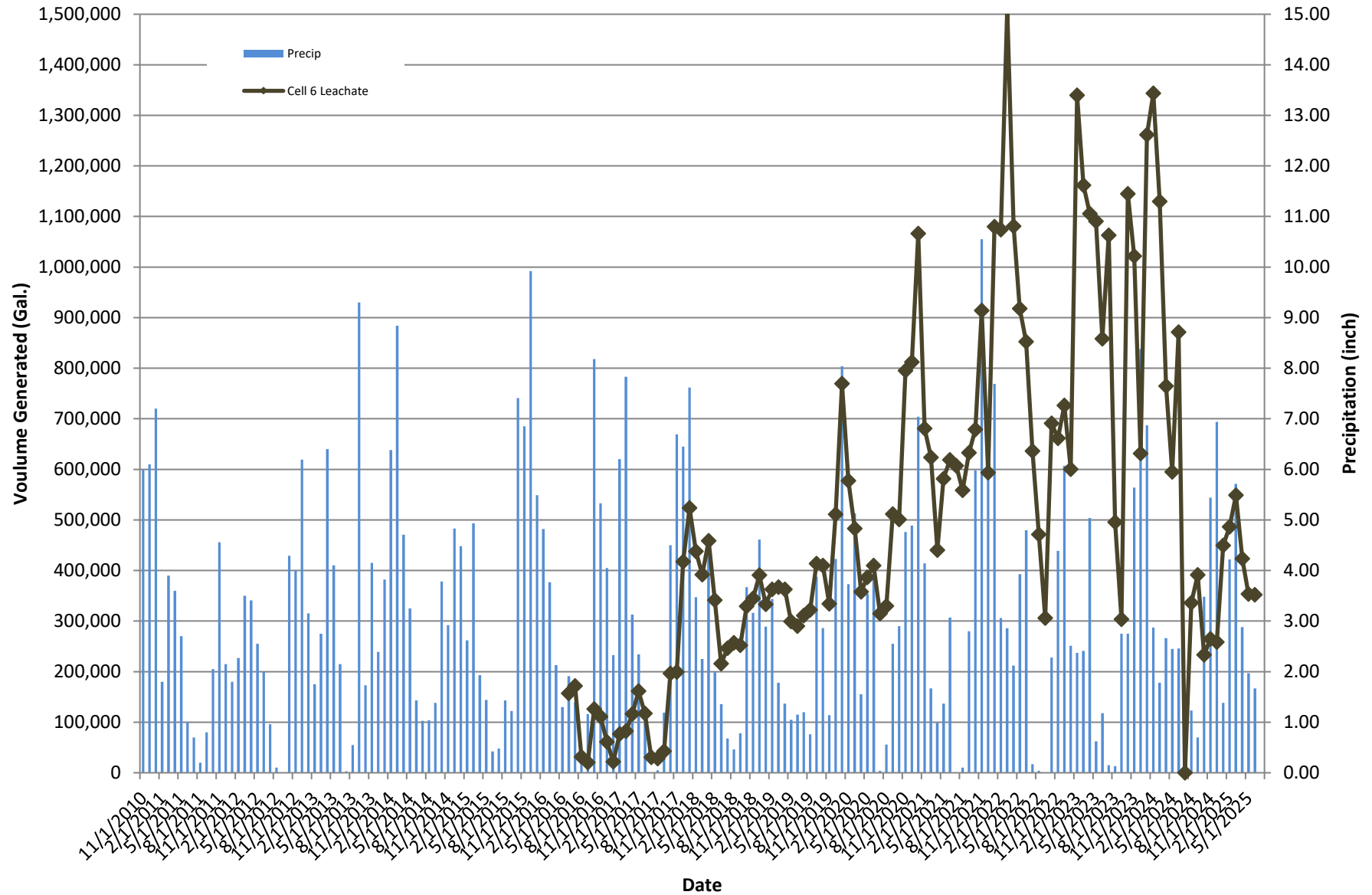
Cell 5 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



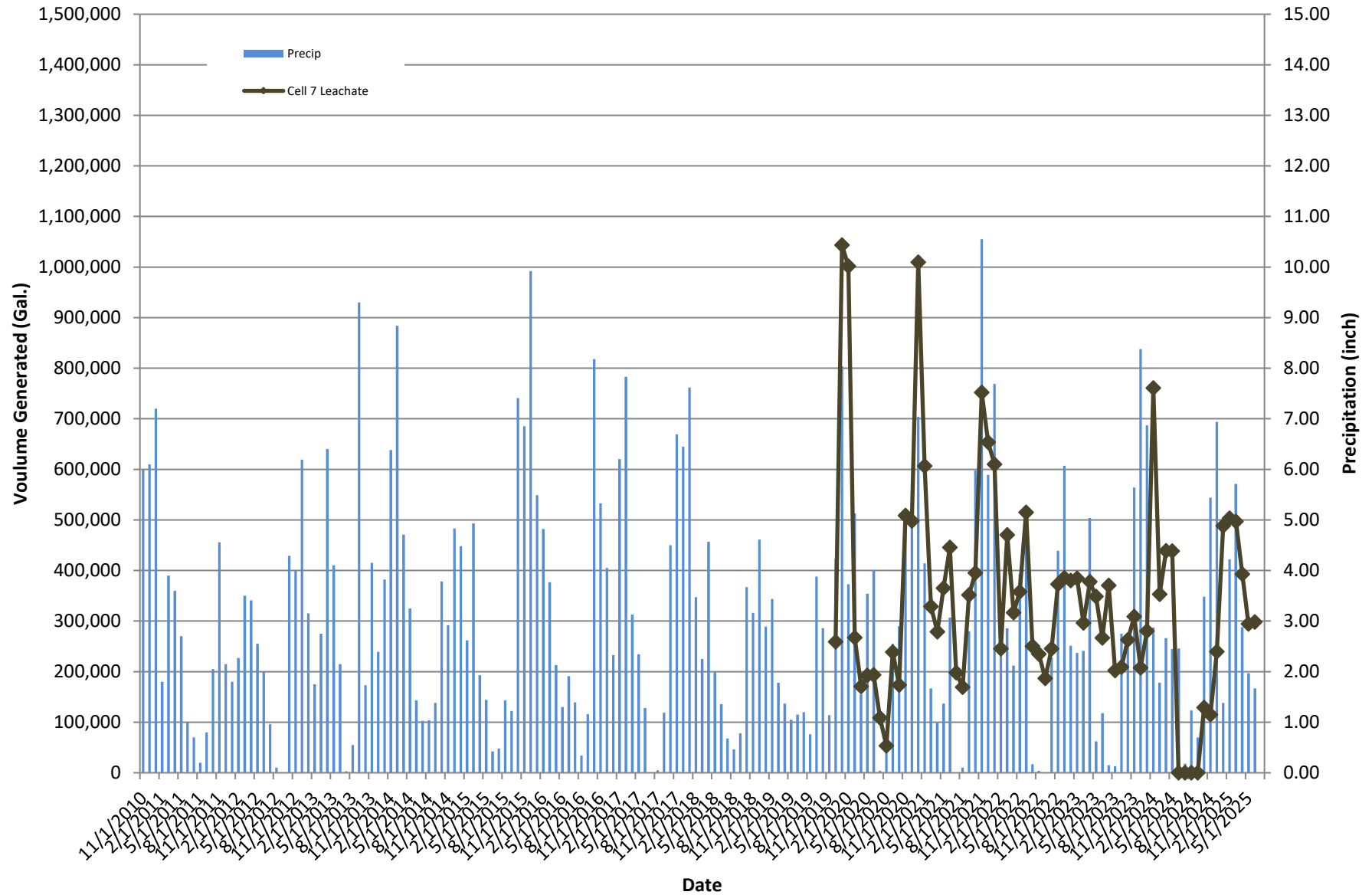
Cell 6 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



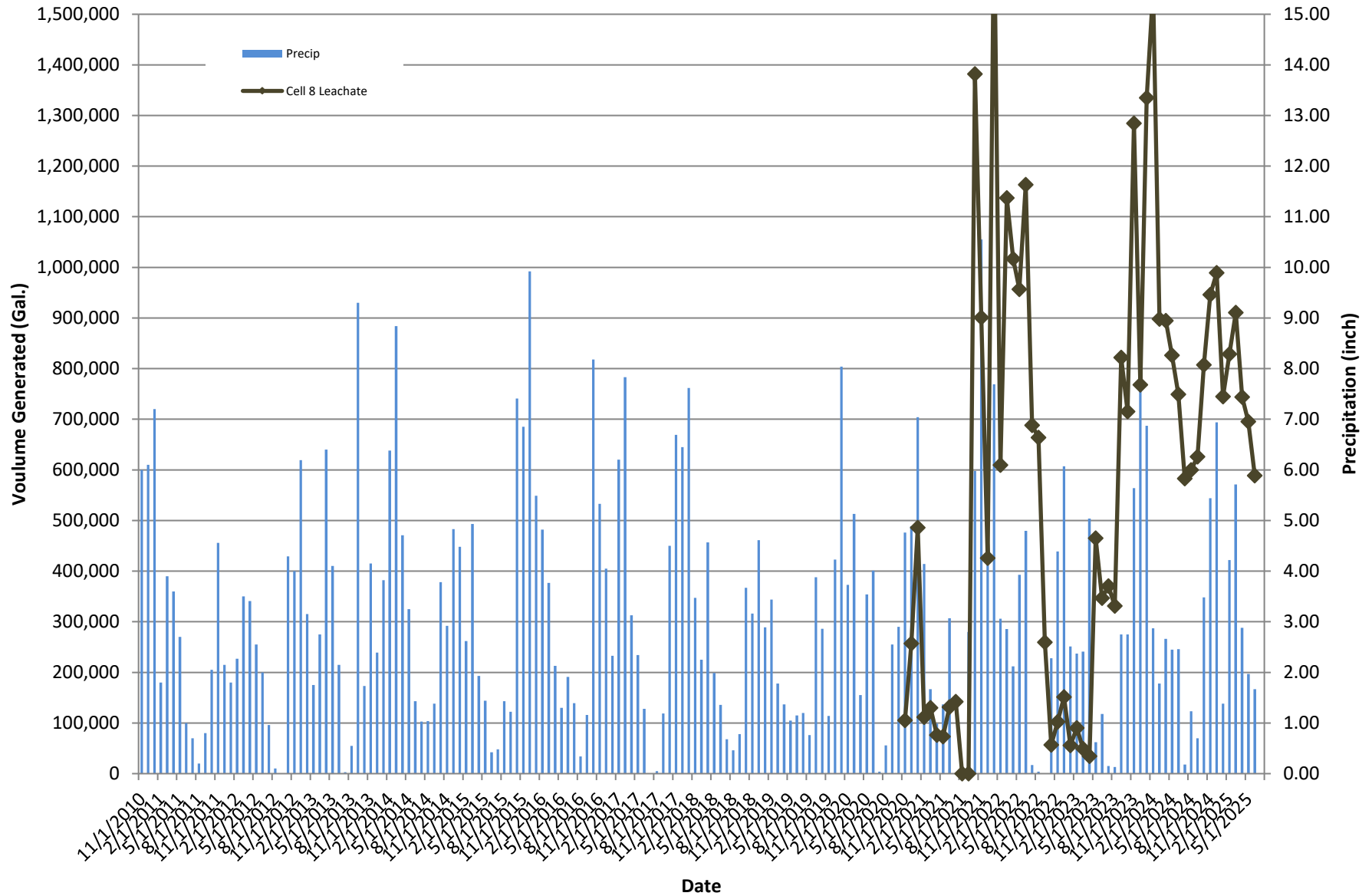
Cell 7 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



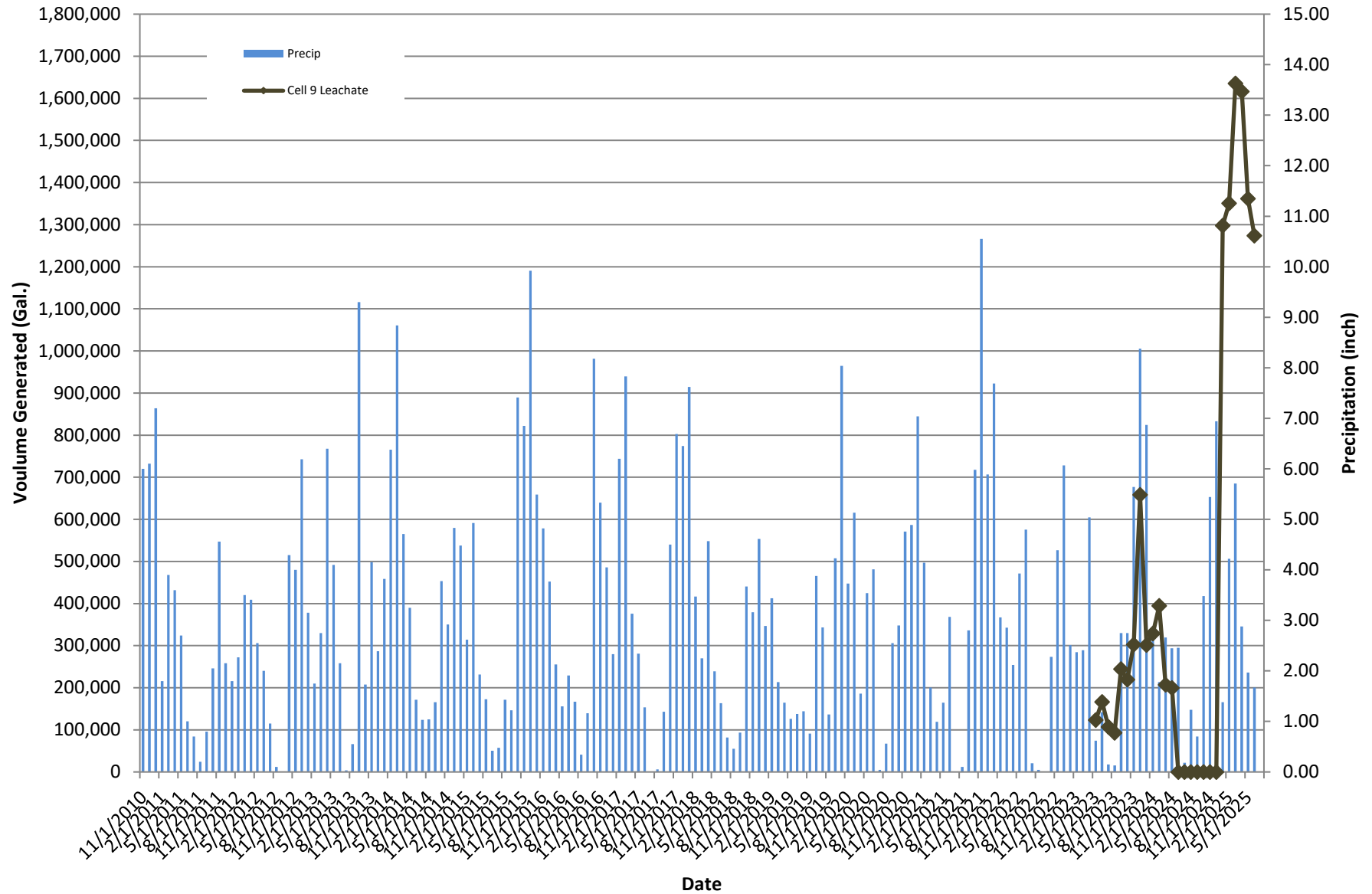
Cell 8 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



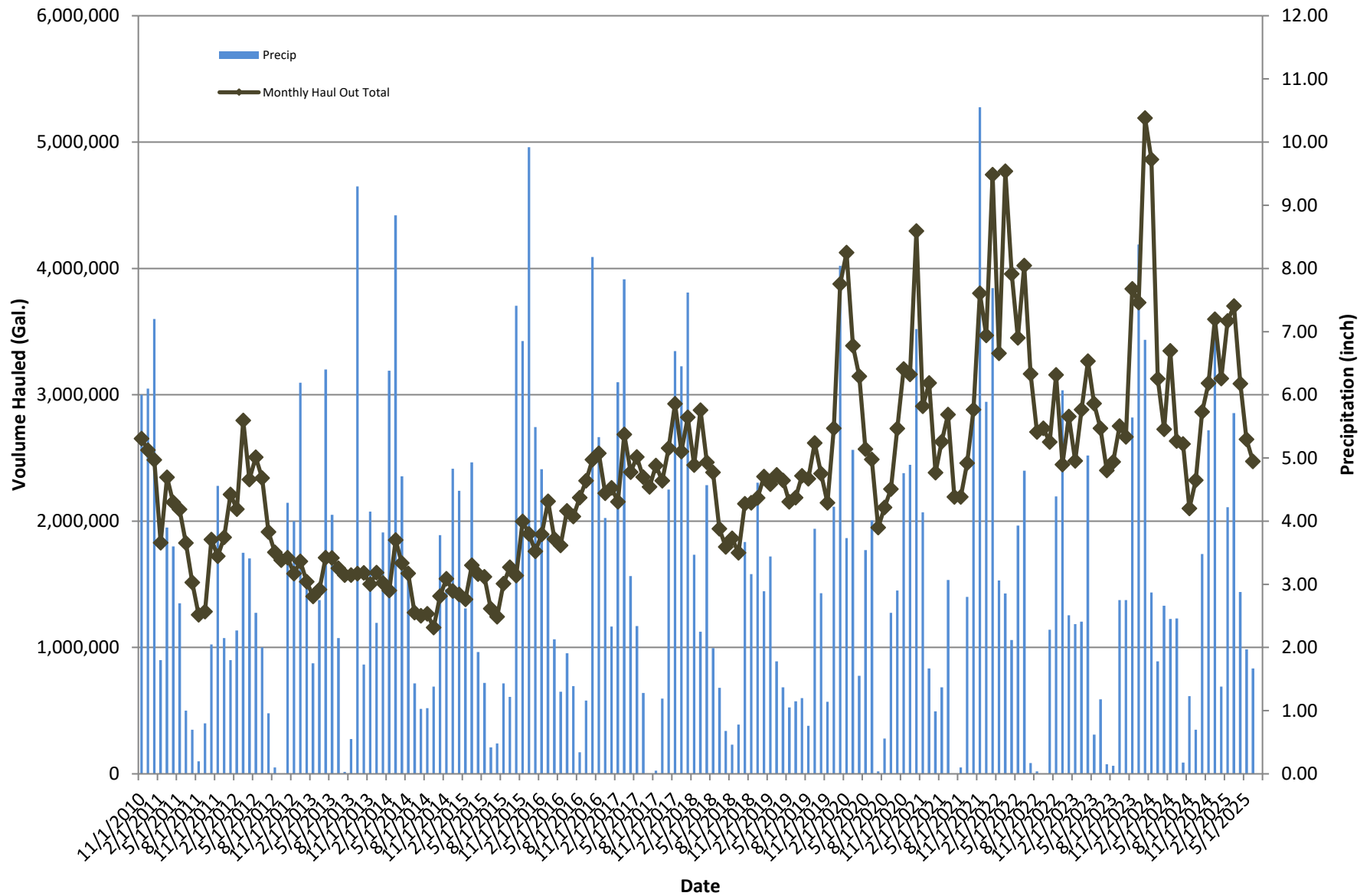
Cell 9 Monthly Leachate Generation vs Precipitation

LRI Landfill, Pierce County, WA



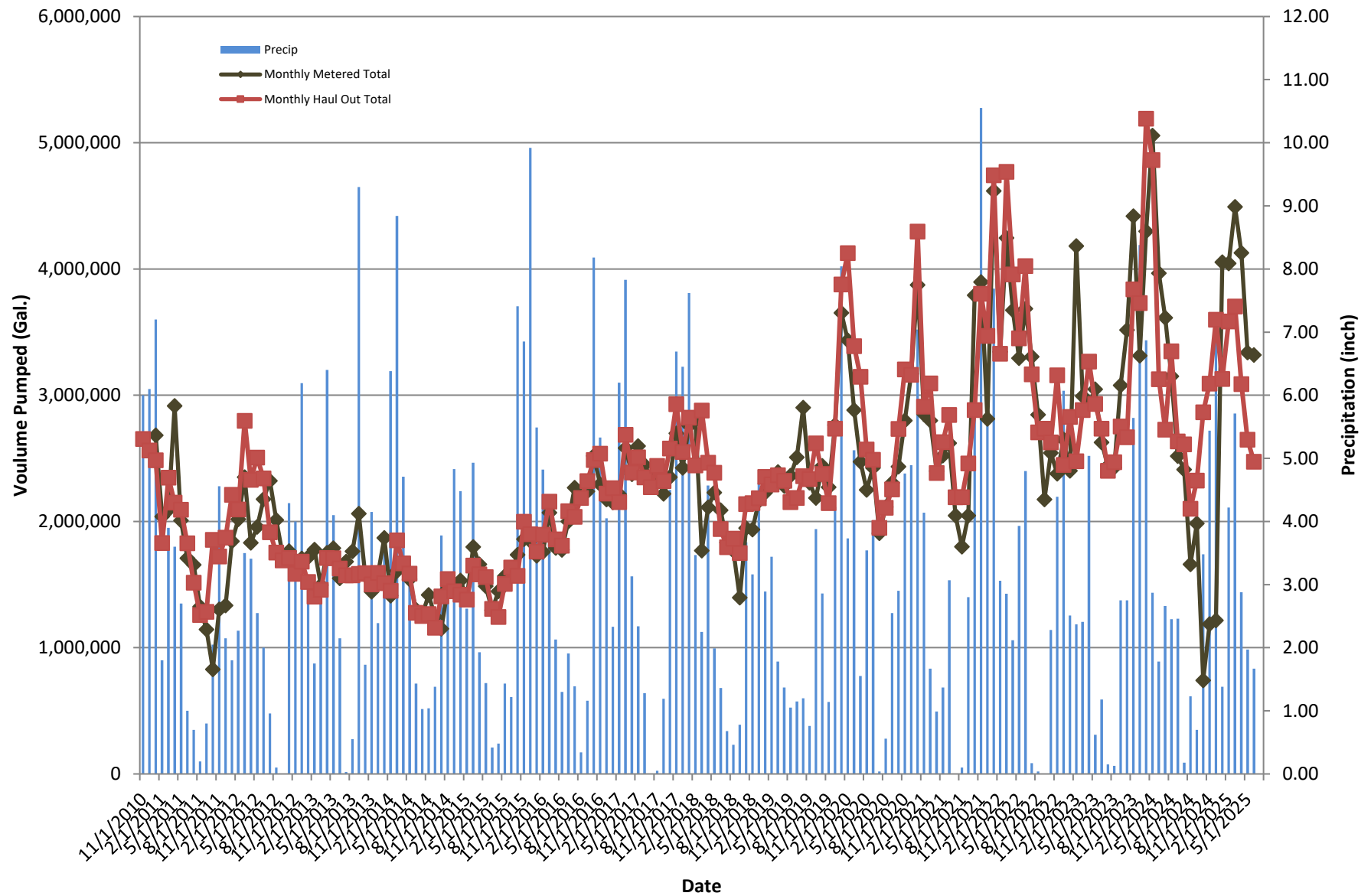
Monthly Leachate Haul Out vs Precipitation

LRI Landfill, Pierce County, WA



Monthly Leachate Metered and Haul Out Totals vs Precipitation

LRI Landfill, Pierce County, Washington



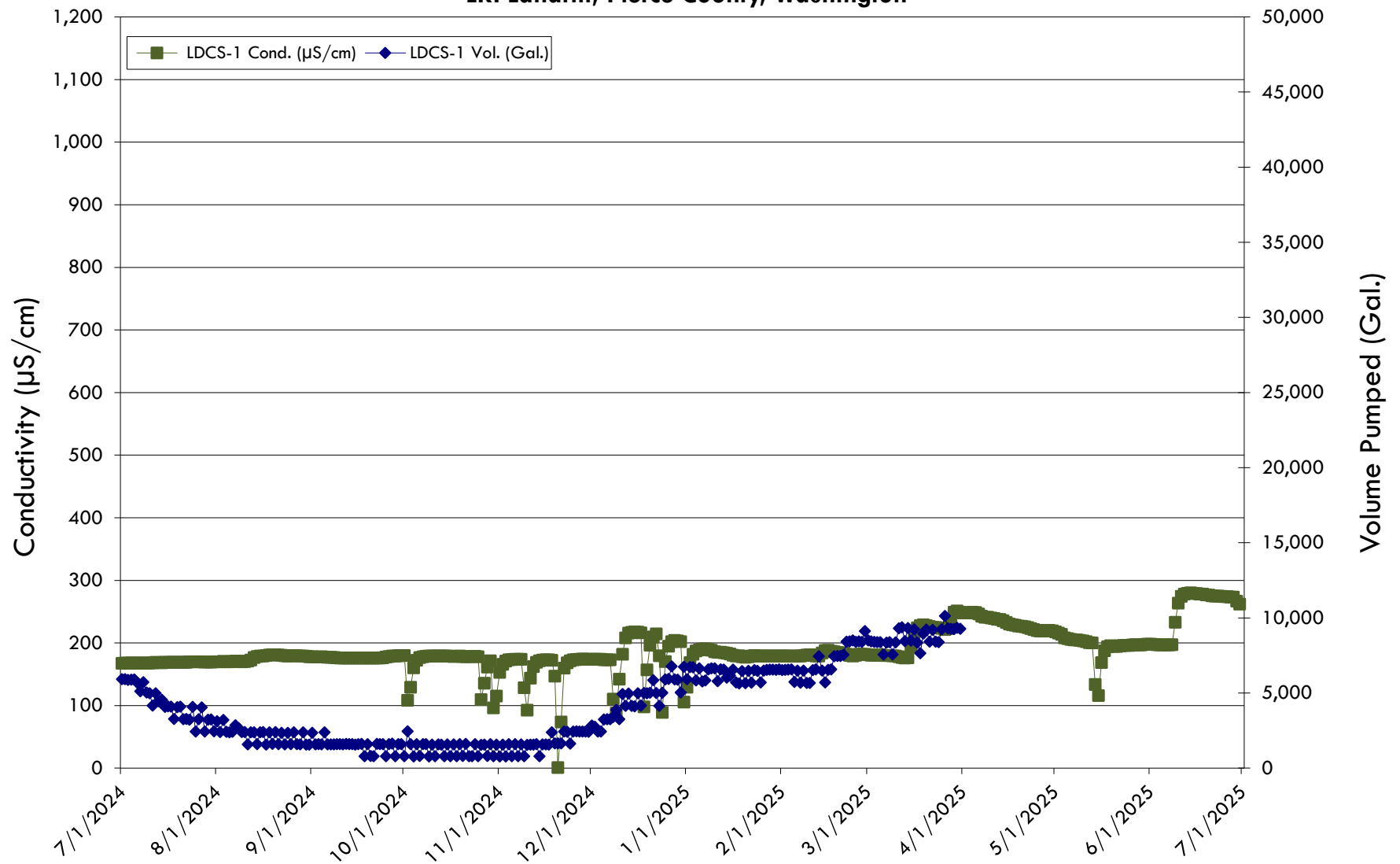
Summary of LDCS Volumes Pumped and Conductivity Data
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Date	Rainfall	LDCS-1 Vol. (Gal.)	LDCS-1 Cond. (µS/cm)	LDCS-2A Vol. (Gal.)	LDCS-2A Cond. (µS/cm)	LDCS-2B Vol. (Gal.)	LDCS-2B Cond. (µS/cm)	LDCS-3A Vol. (Gal.)	LDCS-3A Cond. (µS/cm)	LDCS-4A Vol. (Gal.)	LDCS-4A Cond. (µS/cm)*	LDCS-4B Vol. (Gal.)	LDCS-4B Cond. (µS/cm)	LDCS-5 Vol. (Gal.)	LDCS-5 Cond. (µS/cm)	LDCS-6 Vol. (Gal.)	LDCS-6 Cond. (µS/cm)	LDCS-7 Vol. (Gal.)	LDCS-7 Cond. (µS/cm)	LDCS-8 Vol. (Gal.)	LDCS-8 Cond. (µS/cm)*	LDCS-9 Vol. (Gal.)	LDCS-9 Cond. (µS/cm)*	
4/1/2025	0.09	8,380	248	13,930	784	852	842	5,390	863	1,770	1000	36	5,573	720	1,000	0	1,257	5,072	813	2,157	-	-	-	
4/2/2025	0.12	9,220	248	12,600	739	854	839	4,780	866	1,720	1000	70	5,686	959	1,000	0	1,244	360	704	2,159	-	-	-	
4/3/2025	0.00	8,310	248	13,930	706	917	774	4,780	869	1,680	1000	46	5,481	800	1,000	0	1,230	465	739	2,156	-	-	-	
4/4/2025	0.00	7,510	249	12,590	668	593	780	4,750	867	1,630	1000	128	5,367	665	1,000	0	1,212	4,843	825	1,879	-	-	-	
4/5/2025	0.00	9,130	249	12,590	658	0	811	4,750	869	1,580	1000	54	5,141	607	0	0	0	0	0	2,101	-	-	-	
4/6/2025	0.63	8,360	246	13,850	690	0	835	4,750	874	1,530	1000	18	5,023	58	1,000	0	0	1,404	5,241	776	2,111	-	-	-
4/7/2025	0.83	9,240	243	12,530	804	2,494	844	4,770	875	1,500	1000	212	5,405	5,393	1,000	8,976	0	0	0	2,711	-	-	-	
4/8/2025	0.38	9,280	241	12,590	852	920	843	5,370	869	1,440	1000	158	5,634	2,375	1,000	0	1,375	7,506	677	2,434	-	-	-	
4/9/2025	0.00	8,380	241	13,930	799	790	780	4,740	869	1,420	1000	100	5,274	3,894	1,000	0	1,363	0	656	2,154	-	-	-	
4/10/2025	0.17	9,290	240	12,520	738	786	771	4,760	869	1,380	1000	258	4,805	1,510	1,000	0	1,345	5,706	710	2,153	-	-	-	
4/11/2025	0.07	8,440	239	13,950	715	789	757	4,740	865	1,350	1000	264	4,622	1,681	1,000	0	1,312	0	654	2,156	-	-	-	
4/12/2025	0.04	9,230	238	12,650	664	0	747	4,760	863	450	521	62	2,903	1,102	0	0	0	0	0	2,156	-	-	-	
4/13/2025	0.00	8,660	237	13,950	605	0	730	4,770	869	0	641	1,528	3,355	816	0	0	0	0	0	2,157	-	-	-	
4/14/2025	0.00	8,960	235	12,590	609	2,492	767	4,740	876	0	868	15,172	3,971	819	1,000	0	1,248	6,399	747	2,305	-	-	-	
4/15/2025	0.00	9,340	233	13,880	704	790	809	4,750	880	0	951	10,406	4,145	684	1,000	0	1,232	4,681	793	2,187	-	-	-	
4/16/2025	0.00	8,420	230	12,660	780	854	805	4,750	878	0	982	452	4,299	751	1,000	7,395	1,317	0	665	1,515	-	-	-	
4/17/2025	0.00	8,520	229	13,950	831	853	765	4,750	879	0	993	598	4,344	934	1,000	1,534	1,362	5,156	853	2,609	-	-	-	
4/18/2025	0.00	9,020	228	13,910	827	787	789	4,750	879	0	998	68	4,284	856	1,000	0	1,348	0	672	2,366	-	-	-	
4/19/2025	0.03	8,380	227	12,710	814	0	830	4,760	875	0	999	6	4,087	702	0	0	0	0	0	429	-	-	-	
4/20/2025	0.11	8,380	227	13,900	704	0	841	4,760	870	0	1000	26	4,008	663	0	0	0	0	0	0	-	-	-	
4/21/2025	0.01	8,370	226	13,330	653	2,454	795	4,160	872	0	1000	14	4,144	702	1,000	0	1,288	5,144	637	5,721	-	-	-	
4/22/2025	0.00	8,380	225	14,000	586	823	795	4,760	874	0	1000	0	4,419	758	1,000	0	1,260	5,099	869	1,913	-	-	-	
4/23/2025	0.00	8,420	223	13,950	613	847	765	4,760	876	0	1000	10	4,390	746	0	0	1,245	0	702	2,202	-	-	-	
4/24/2025	0.00	8,400	222	13,970	741	804	739	4,740	877	0	1000	22	4,377	870	0	0	1,222	1,151	794	2,183	-	-	-	
4/25/2025	0.00	9,240	220	14,010	849	907	777	4,750	876	0	1000	2	4,265	755	0	0	1,207	3,915	825	2,175	-	-	-	
4/26/2025	0.00	8,340	219	12,790	894	0	791	4,760	874	0	1000	0	4,130	793	0	0	0	0	0	1,188	-	-	-	
4/27/2025	0.00	7,500	219	14,070	878	0	815	4,170	873	0	1000	0	4,223	716	0	0	0	0	0	1,909	-	-	-	
4/28/2025	0.03	8,320	220	14,040	761	3,472	810	4,750	870	0	1000	0	4,016	642	0	9,301	1,311	5,018	816	1,909	-	-	-	
4/29/2025	0.17	7,500	220	12,700	648	1,648	732	4,170	874	0	1000	0	3,990	1,328	0	0	1,289	0	790	2,183	-	-	-	
4/30/2025	0.00	8,350	219	13,930	631	1,383	762	4,750	882	0	1000	0	3,994	951	0	0	1,264	5,322	831	2,181	-	-	-	
5/1/2025	0.00	8,350	218	12,770	648	1,083	764	4,220	887	0	573	0	4,167	751	0	0	1,240	0	745	2,173	-	-	-	
5/2/2025	0.00	8,320	216	13,970	778	1,039	797	4,520	889	0	621	0	2,691	708	0	0	1,230	3,265	847	1,903	-	-	-	
5/3/2025	0.05	7,450	214	12,790	828	0	824	4,160	882	0	0	0	0	698	0	0	0	0	0	1,910	-	-	-	
5/4/2025	0.00	7,470	208	13,950	729	0	771	4,760	873	0	0	0	0	654	0	0	0	0	0	582	-	-	-	
5/5/2025	0.00	7,470	207	12,790	592	3,631	760	4,160	883	0	577	0	0	842	0	6,379	1,310	6,547	862	3,175	-	-	-	
5/6/2025	0.00	8,330	206	12,760	580	1,080	782	4,150	889	0	526	0	178	1,513	0	0	1,298	431	841	2,180	-	-	-	
5/7/2025	0.00	7,910	205	14,010	734	858	813	4,760	892	0	492	0	370	1,732	0	0	1,277	0	819	2,192	-	-	-	
5/8/2025	0.00	6,920	205	12,760	759	950	798	4,160	891	0	589	0	364	2,055	0	0	1,260	4,857	860	2,193	-	-	-	
5/9/2025	0.00	8,280	204	12,800	678	896	762	4,160	892	0	632	0	355	2,096	0	7,906	1,281	0	836	1,907	-	-	-	
5/10/2025	0.00	7,470	203	14,010	765	0	754	4,160	894	0	0	0	354	1,251	0	0	0	0	0	2,176	-	-	-	
5/11/2025	0.13	7,610	202	12,770	862	0	732	4,190	894	0	0	0	358	836	0	0	0	0	0	1,631	-	-	-	
5/12/2025	0.00	8,120	201	14,120	904	2,579	731	4,160	893	0	554	0	366	1,138	201	0	1,237	4,945	846	1,909	-	-	-	
5/13/2025	0.00	7,450	200	12,820	904	879	700	4,170	890	0	476	0	368	936	387	0	1,222	503	779	1,908	-	-	-	
5/14/2025	0.03	6,590	134	12,820	577	949	722	4,170	888	0	470	3,706	371	753	337	0	1,215	4,337	856	899	-	-	-	
5/15/2025	0.11	7,440	116	12,850	425	803	740	4,200	892	0	589	8,057	377	707	-105	8	1,195	0	832	2,481	-	-	-	
5/16/2025	0.00	7,430	169	12,730	649	790	738	4,180	899	0	646	2,509	381	1,351	70	7,445	1,259	0	814	1,688	-	-	-	
5/17/2025	0.74	7,420	187	12,790	819	0	679	4,170	904	0	44	44	381	2,040	491	0	0	0	0	1,924	-	-	-	
5/18/2025	0.00	7,450	194	12,830	854	0	649	4,160	905	0	0	38	379	1,100	797	0	0	0	0	1,914	-	-	-	
5/19/2025	0.35	6,640	196	12,810	766	2,781	638	4,170	903	0	442	62	374	1,648	904	0	1,218	9,545	834	1,919	-	-	-	
5/20/2025	0.38	7,450	195	12,850	676	872	634	4,170	906	0	522	123	364	1,646	955	0	1,197	1,374	718	1,911	-	-	-	
5/21/2025	0.00	7,470	194	12,820	543	1,007	657	4,140	906	0	590	151	359	1,802	974	0	1,185	0	668	2,193	-	-	-	
5/22/2025	0.00	7,460	195	12,810	608	809	661	4,140	906	0	539	111	354	1,003	980	0	1,181	4,912	813	1,639	-	-	-	
5/23/2025	0.00	7,470	196	11,500	775	0	653	4,140	906	0	37	37	358	766	983	0	0	0	0	1,907	-	-	-	
5/24/2025	0.00	7,470	196	12,820	862	0	712	4,150	906	0	2	2	366	711	984	0	0	0	0	1,629	-	-	-	
5/25/2025	0.00	7,450	196	12,860	901	0	752	4,160	906	0	3	3	376	867	984	0	0	0	0	1,763	-	-	-	
5/26/2025	0.02	6,610	197	12,890	901	2,968	782	4,160	903	0	555	1	385	799	984	7,549	1,249	4,843	822	1,713	-	-	-	
5/27/2025	0.00	6,610	197	12,780	810	798	787	3,540	898	0	541	1	392	754	984	0	1,225	0	813	1,623	-	-	-	
5/28/2025	0.00	7,450	197	12,730	807	722	803	4,150	901	0	538	0	398	791	751	0	1,214	4,948	836	1,627	-	-	-	
5/29/2025	0.14	6,570	197	12,770	867	786	814	4,150	906	0	447	0	403	1,046	286	0	1,202	0	827	1,439	-</			

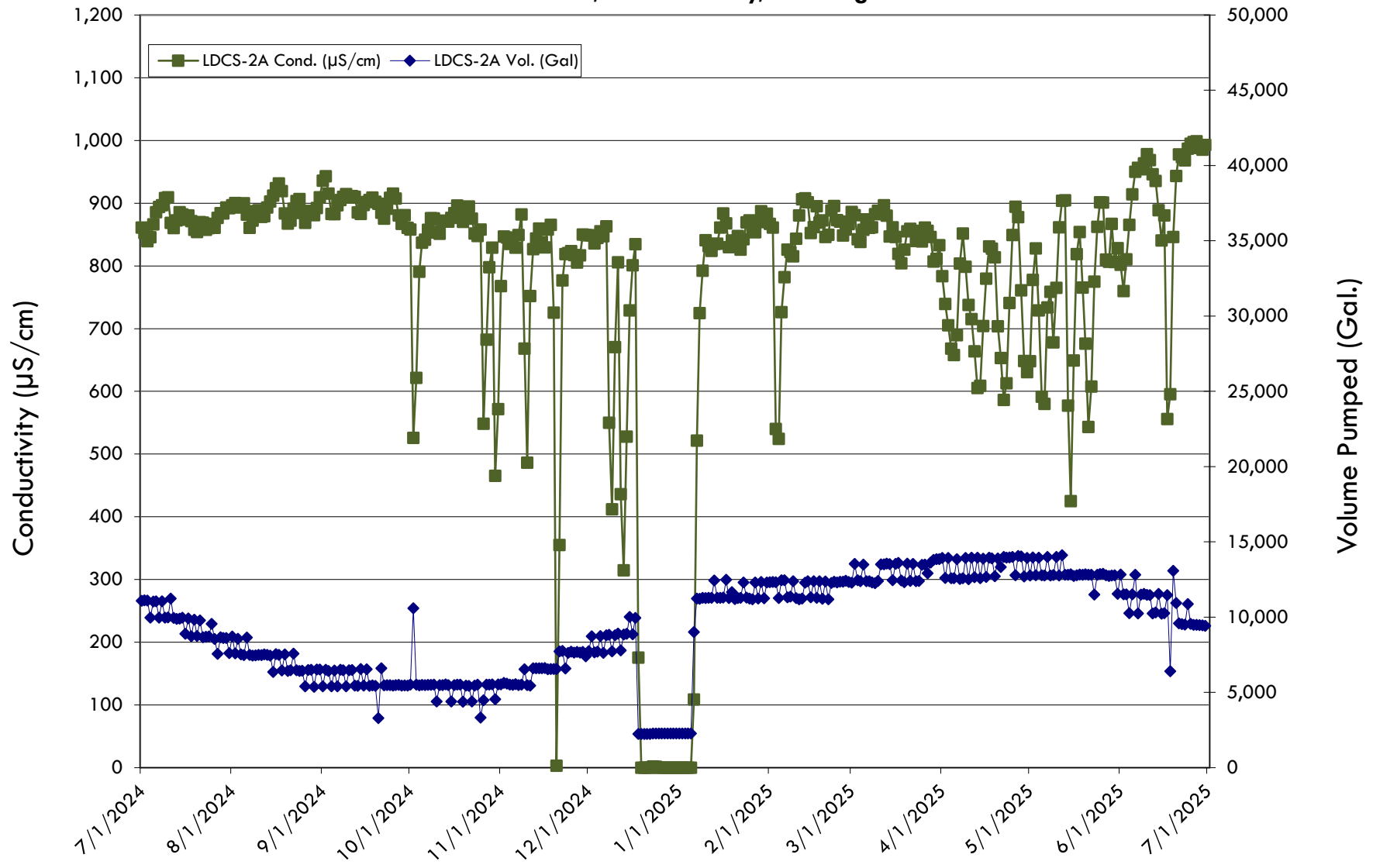
Summary of LDCS Volumes Pumped and Conductivity Data
Second Quarter 2025
LRI Landfill, Pierce County, Washington

Date	Rainfall	LDCS-1 Vol. (Gal.)	LDCS-1 Cond. (µS/cm)	LDCS-2A Vol. (Gal)	LDCS-2A Cond. (µS/cm)	LDCS-2B Vol. (Gal)	LDCS-2B Cond. (µS/cm)	LDCS-3A Vol. (Gal)	LDCS-3A Cond. (µS/cm)	LDCS-4A Vol. (Gal)	LDCS-4A Cond. (µS/cm)*	LDCS-4B Vol. (Gal)	LDCS-4B Cond. (µS/cm)	LDCS-5 Vol. (Gal)	LDCS-5 Cond. (µS/cm)	LDCS-6 Vol. (Gal)	LDCS-6 Cond. (µS/cm)	LDCS-7 Vol. (Gal)	LDCS-7 Cond. (µS/cm)	LDCS-8 Vol. (Gal)	LDCS-8 Cond. (µS/cm)*	LDCS-9 Vol. (Gal)	LDCS-9 Cond. (µS/cm)*
6/1/2025	0.00	5,710	198	12,840	802	0	781	4,160	906	0		0	386	681	725	0	0	0	0	0	-	-	-
6/2/2025	0.00	6,540	198	11,520	760	2,525	796	3,560	908	0	495	3	390	626	858	0	1,159	4,908	811	4,014	-	-	-
6/3/2025	0.00	5,710	197	11,510	811	734	790	4,170	911	0	500	1	396	619	922	13	1,163	2,856	803	1,636	-	-	-
6/4/2025	0.00	5,740	197	10,260	865	722	808	3,570	912	0	555	118	401	630	961	5	1,160	2,043	830	1,635	-	-	-
6/5/2025	0.00	6,540	197	11,520	914	655	815	4,150	911	0	537	17	405	644	976	0	1,153	0	822	1,360	-	-	-
6/6/2025	0.00	5,720	197	12,820	950	718	771	4,150	911	0	551	0	409	663	981	0	1,143	665	760	1,715	-	-	-
6/7/2025	0.00	5,010	197	10,250	956	0	758	3,550	910	0		1	417	664	983	0	0	0	0	1,358	-	-	-
6/8/2025	0.00	5,460	197	11,500	954	0	754	4,140	907	0		4	422	289	984	0	0	0	0	1,625	-	-	-
6/9/2025	0.00	5,710	233	11,540	964	1,885	793	3,550	906	0	603	65	426	946	984	0	1,138	4,243	820	1,352	-	-	-
6/10/2025	0.00	5,410	263	11,480	978	648	815	4,160	909	0	469	45	435	544	984	7,284	1,215	4,875	837	1,627	-	-	-
6/11/2025	0.00	5,030	274	11,470	969	650	797	3,570	912	0	446	1	441	503	984	0	1,249	0	833	1,359	-	-	-
6/12/2025	0.00	4,860	278	10,250	946	649	788	3,570	912	0	534	0	448	486	955	0	1,233	0	826	1,357	-	-	-
6/13/2025	0.00	4,850	279	10,320	935	651	763	3,580	912	0	472	0	455	483	973	0	1,231	7	795	1,361	-	-	-
6/14/2025	0.00	4,510	280	11,550	889	0	689	3,560	913	0		4	462	445	987	0	0	0	0	1,086	-	-	-
6/15/2025	0.00	4,250	279	10,230	840	0	705	3,560	915	0		4	467	444	884	0	0	0	0	1,357	-	-	-
6/16/2025	0.00	4,830	279	10,260	881	1,832	720	3,560	917	0	508	1	470	405	811	0	1,198	5,223	810	1,355	-	-	-
6/17/2025	0.00	4,820	278	11,460	556	586	713	3,550	918	0	450	3	474	404	928	0	1,188	4,830	820	1,355	-	-	-
6/18/2025	0.04	4,070	278	6,410	596	518	672	3,200	918	0	490	5	477	402	972	0	1,180	0	825	1,353	-	-	-
6/19/2025	0.00	4,810	277	13,080	846	533	697	3,560	912	0	513	28	475	366	989	0	1,176	0	815	1,085	-	-	-
6/20/2025	0.95	4,020	276	10,940	943	522	694	3,570	913	0	435	0	472	349	996	0	1,173	0	810	1,356	-	-	-
6/21/2025	0.44	4,810	275	9,590	978	0	684	2,990	918	0		1,277	467	572	999	0	0	0	0	1,362	-	-	-
6/22/2025	0.00	4,000	275	9,530	973	0	652	3,550	919	0		0	442	898	999	0	0	0	0	1,363	-	-	-
6/23/2025	0.00	4,000	275	9,500	968	2,364	695	2,960	919	0	529	3	424	753	993	0	1,154	6,309	750	1,636	-	-	-
6/24/2025	0.00	4,840	275	10,880	987	614	673	3,560	925	0	455	1	409	728	967	0	1,143	3,147	812	1,352	-	-	-
6/25/2025	0.00	4,020	274	9,550	995	520	652	3,550	927	0	523	0	405	607	972	0	1,151	0	808	1,362	-	-	-
6/26/2025	0.22	4,010	274	9,480	998	454	644	2,960	928	0	515	8	399	649	958	7,371	1,252	0	805	1,362	-	-	-
6/27/2025	0.00	4,000	273	9,490	999	519	638	3,560	929	0	461	0	395	693	951	0	1,240	5,036	818	1,367	-	-	-
6/28/2025	0.00	3,980	273	9,470	988	0	636	2,960	925	0		6	397	649	982	0	0	0	0	1,357	-	-	-
6/29/2025	0.00	4,000	267	9,450	985	0	636	2,950	927	0		0	399	636	993	0	0	0	0	1,355	-	-	-
6/30/2025	0.00	3,980	262	9,430	993	1,432	641	3,550	933	0	465	0	405	564	998	0	1,200	0	798	1,082	-	-	-

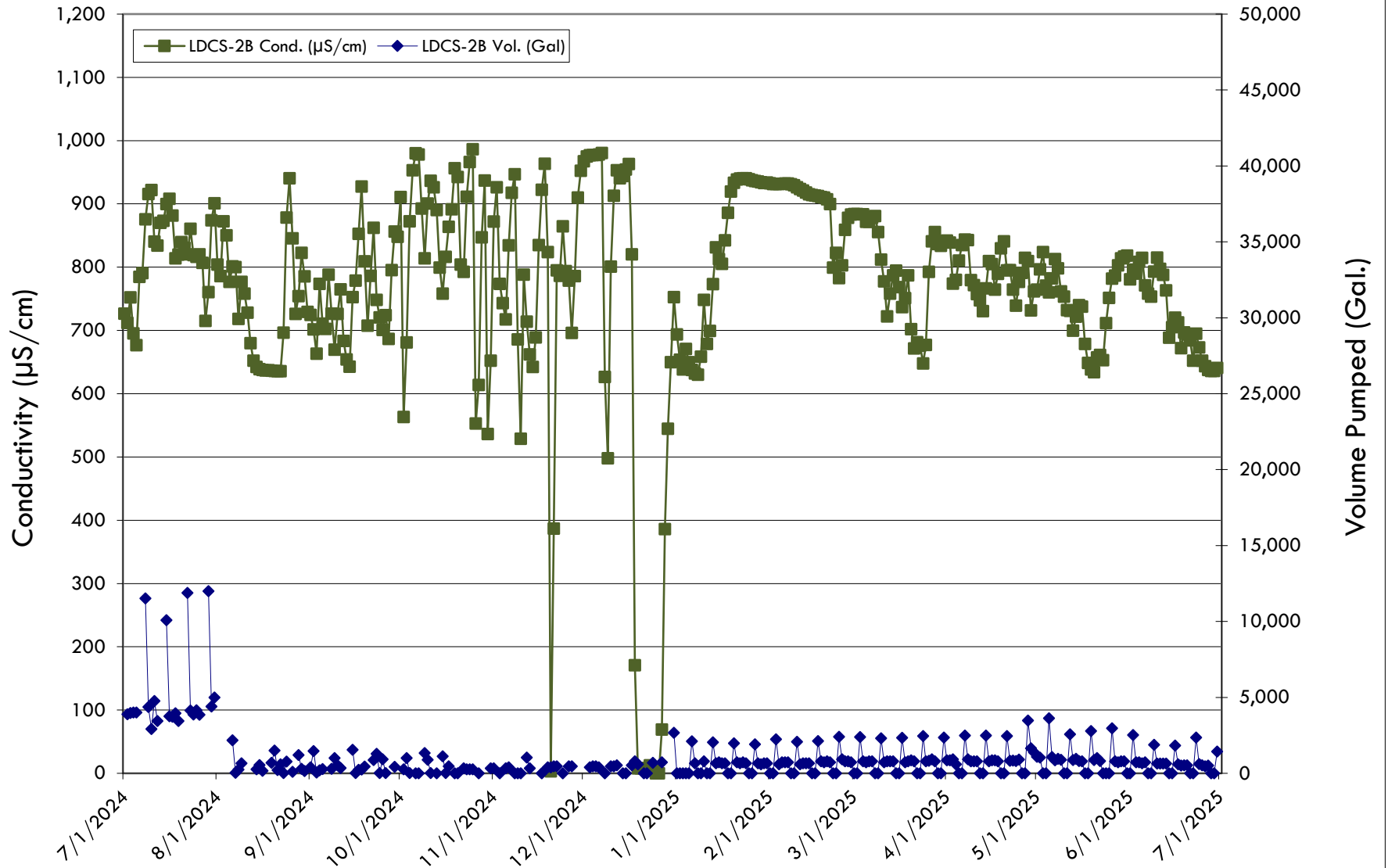
LDCS-1 (DailyTotals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



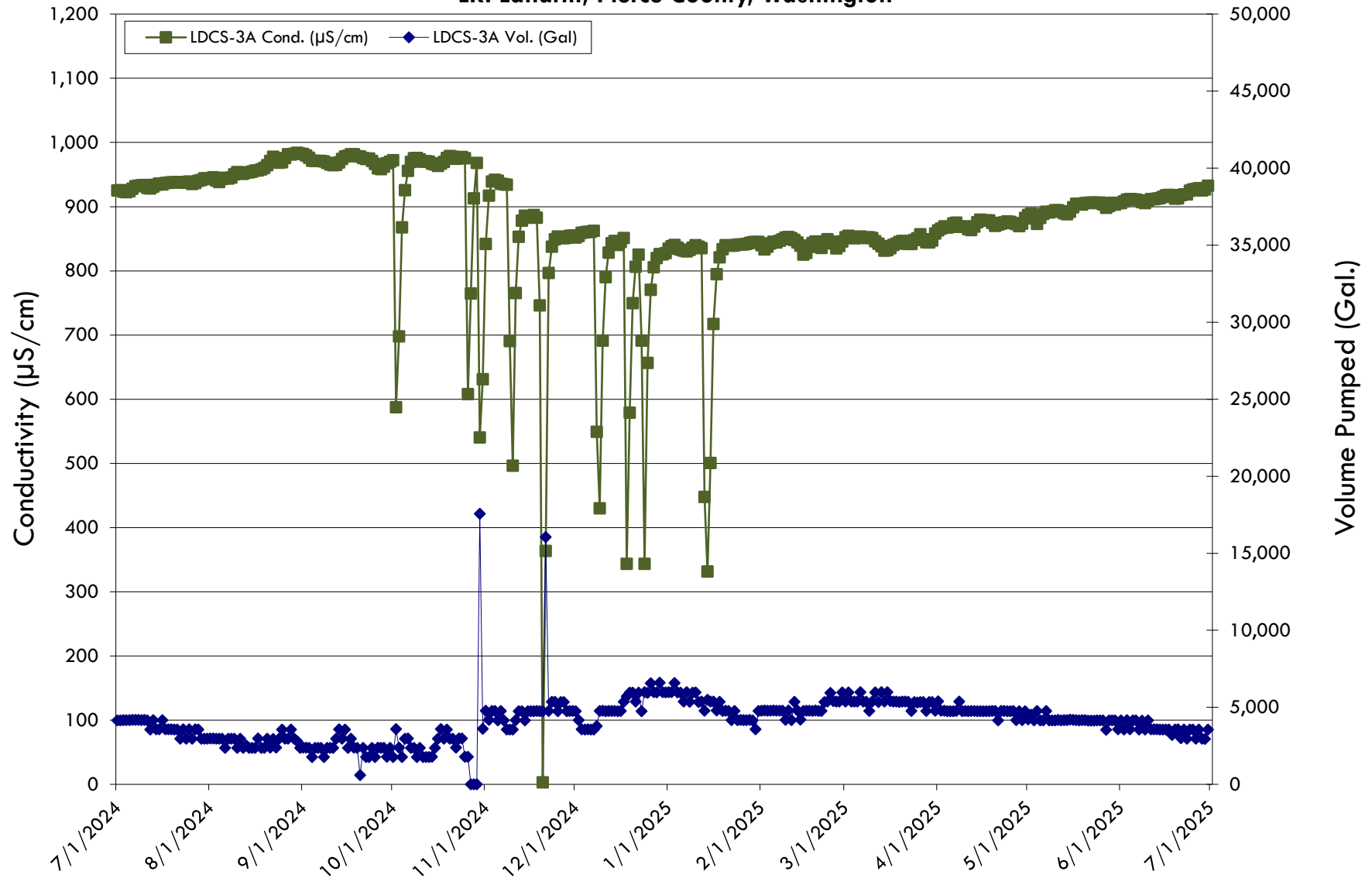
LDCS-2A (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



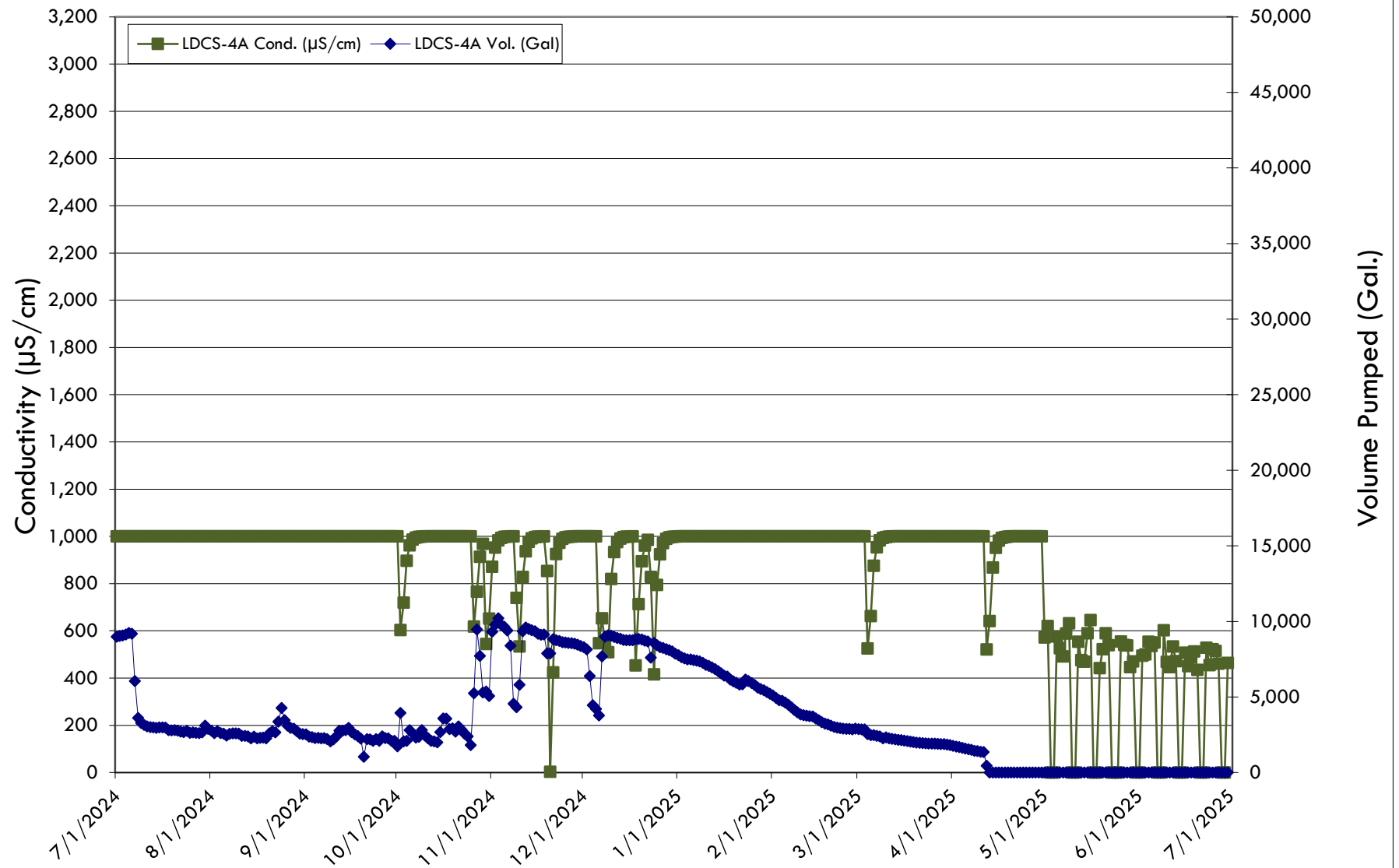
LDCS-2B (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



LDCS-3A (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

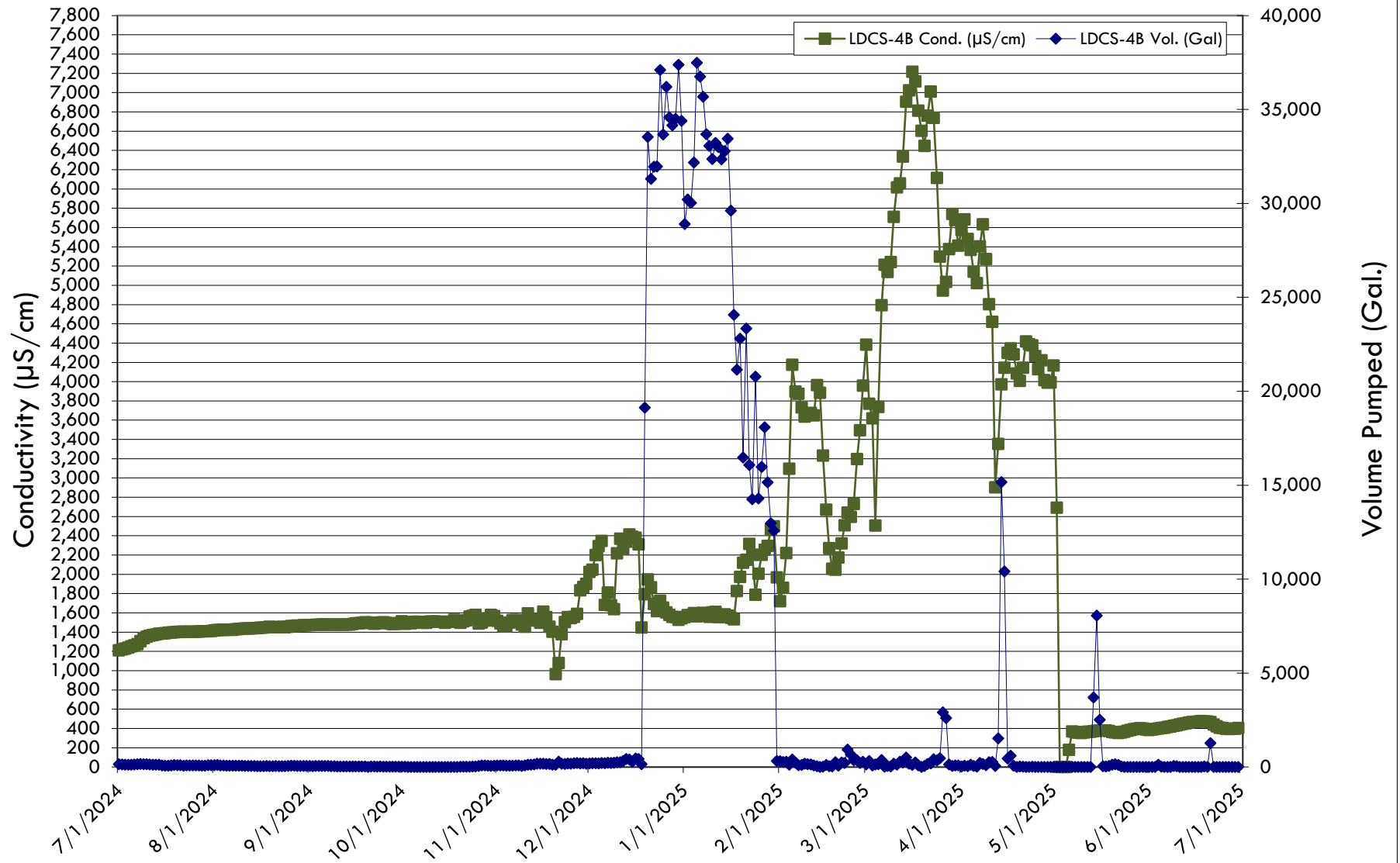


LDCS-4A (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

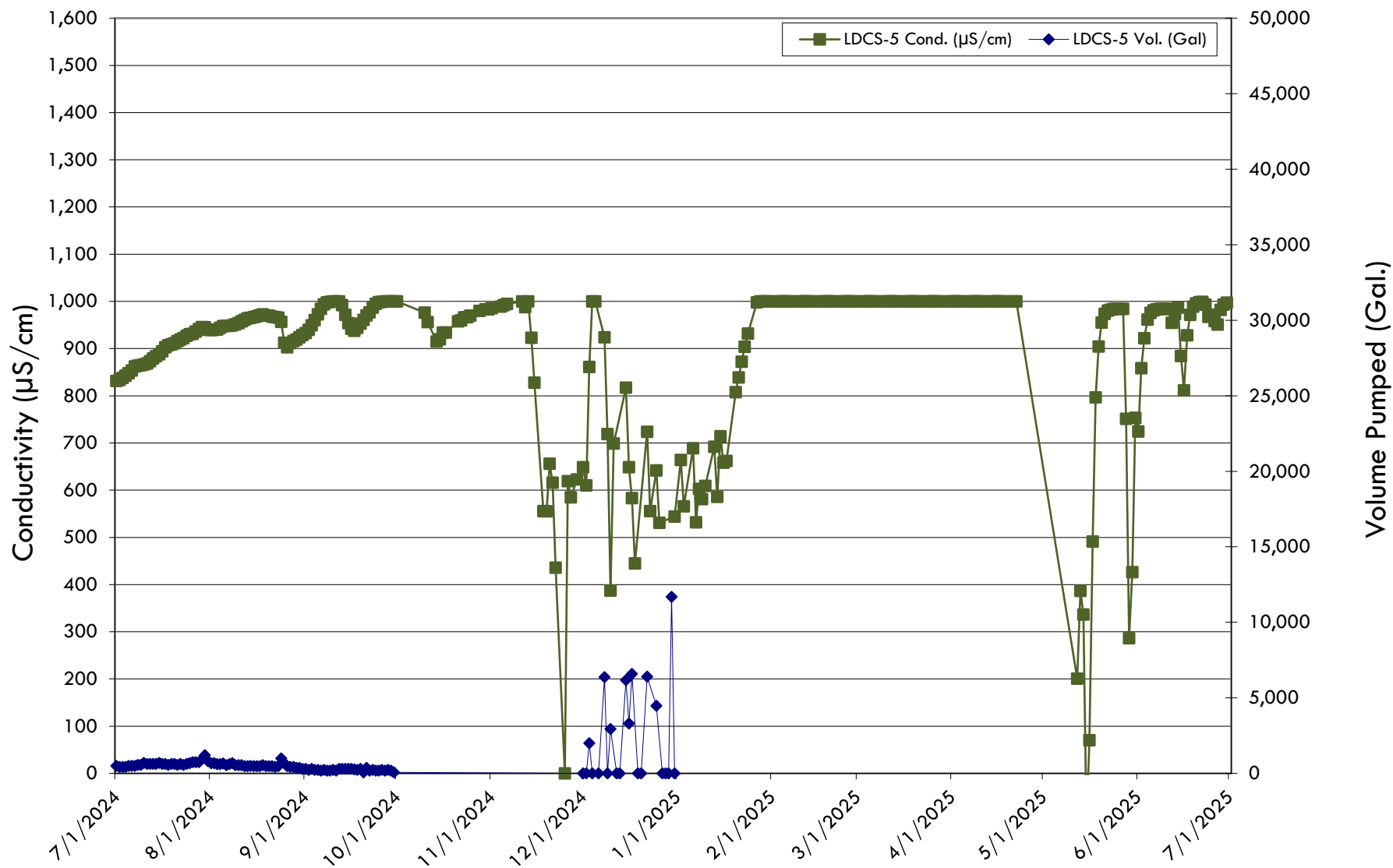


LDCS-4B (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

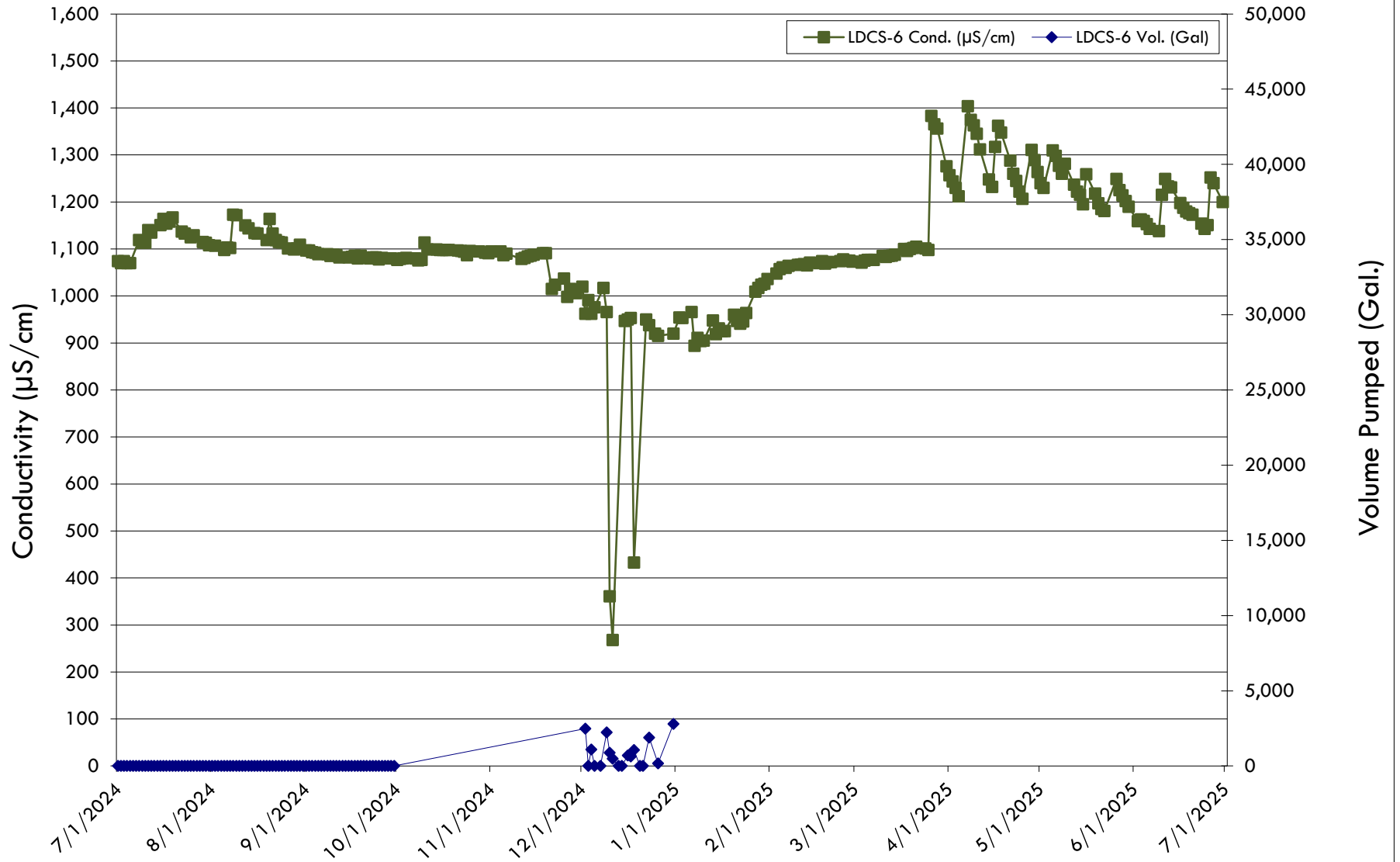
Spike in flow from mid December through the end of January due to solids accumulation in pump. Pump was cleaned and flow was restored at the end of January.



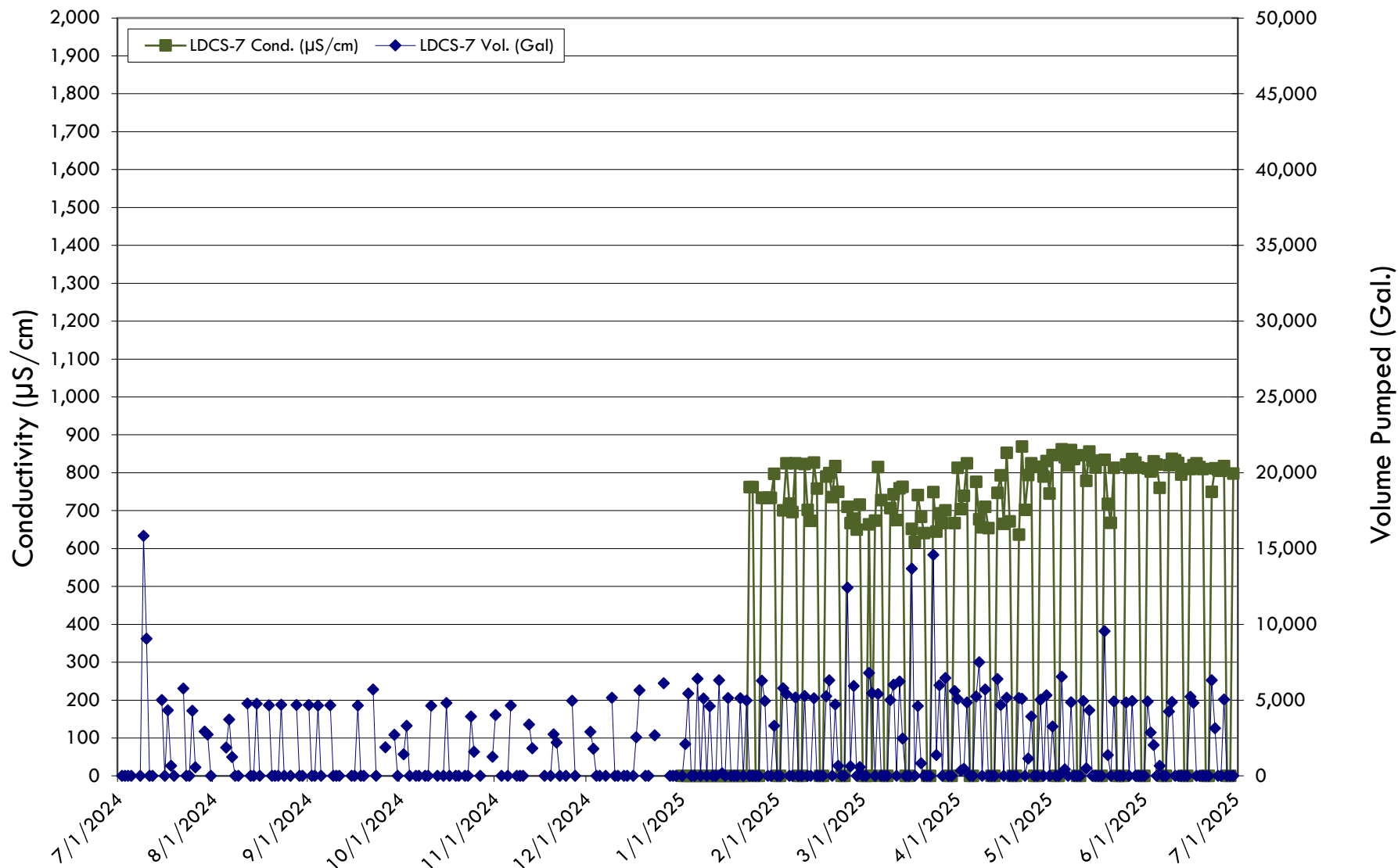
LDCS-5 (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



LDCS-6 (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

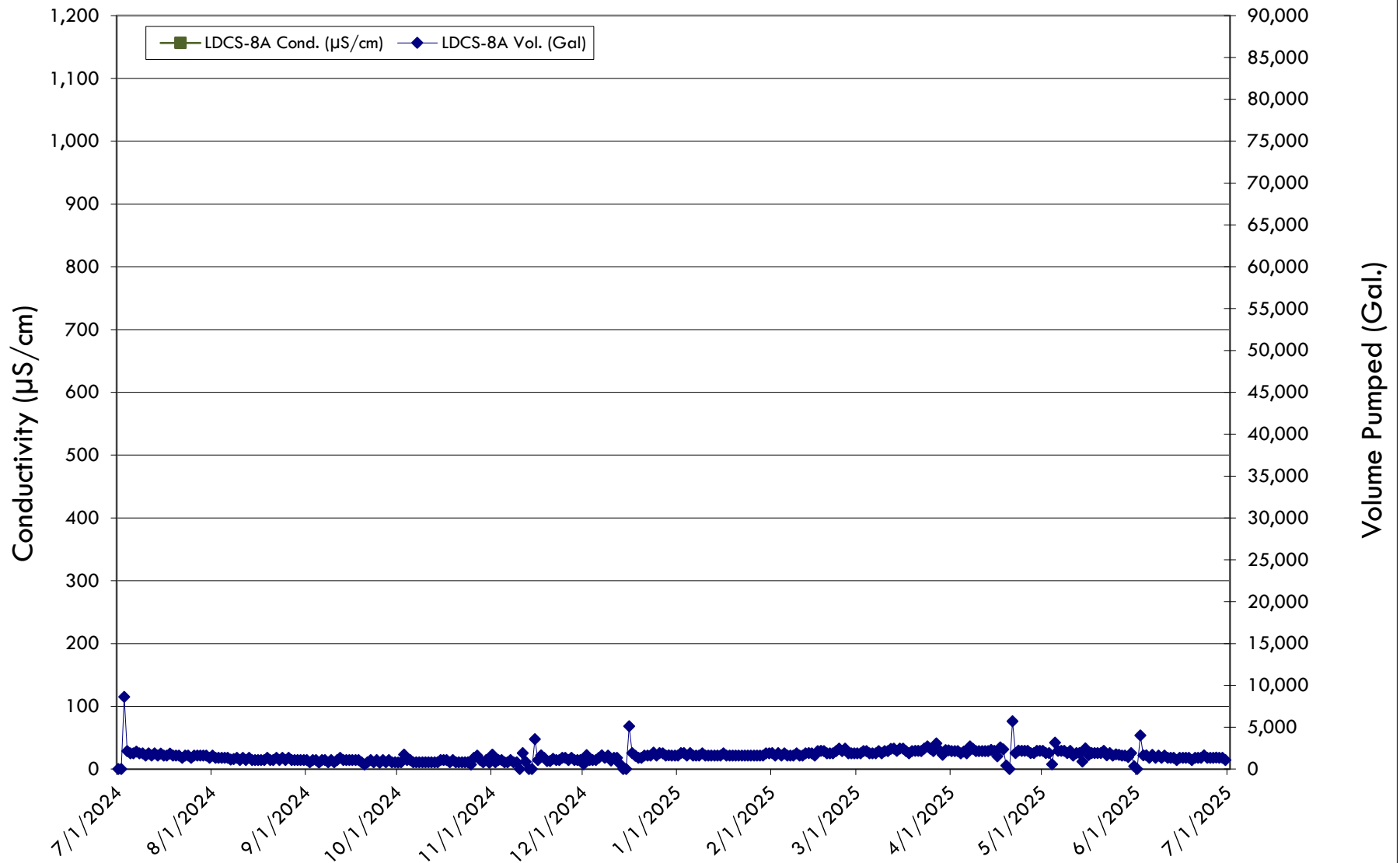


LDCS-7 (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



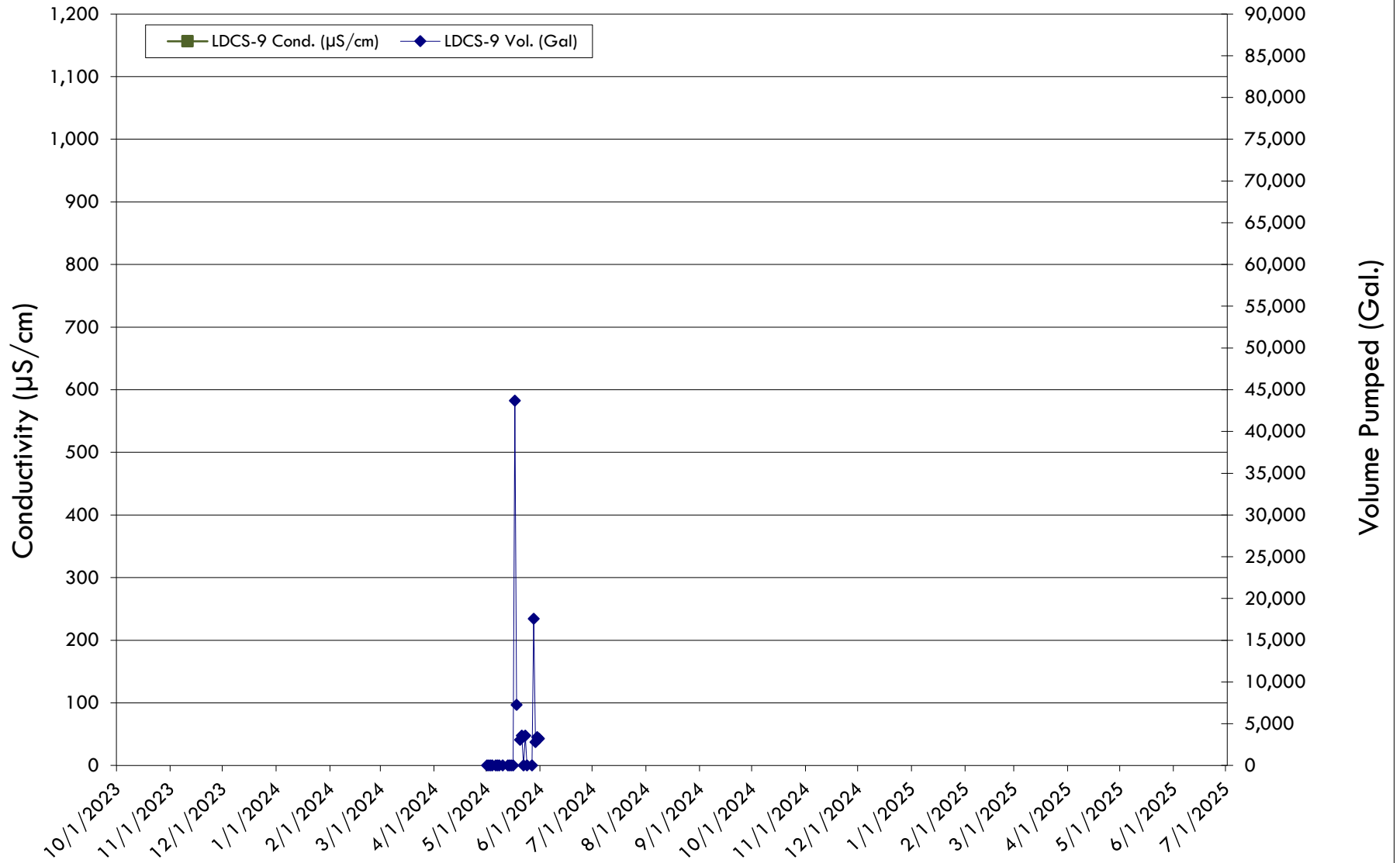
LDCS-8 (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

*Conductivity Probe malfunction June 2023 through December 2024

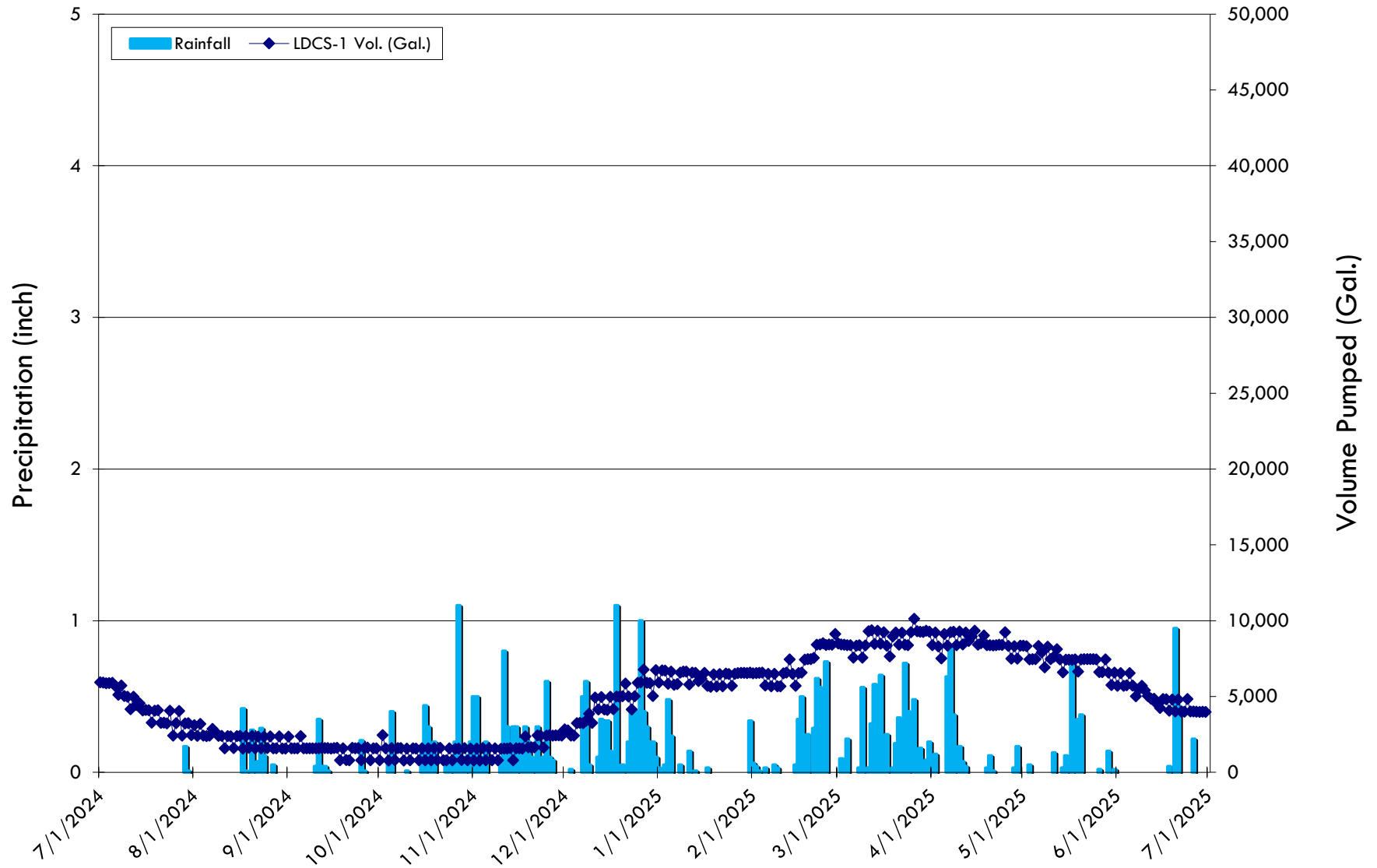


LDCS-9 (Daily Totals)
Conductivity vs Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington

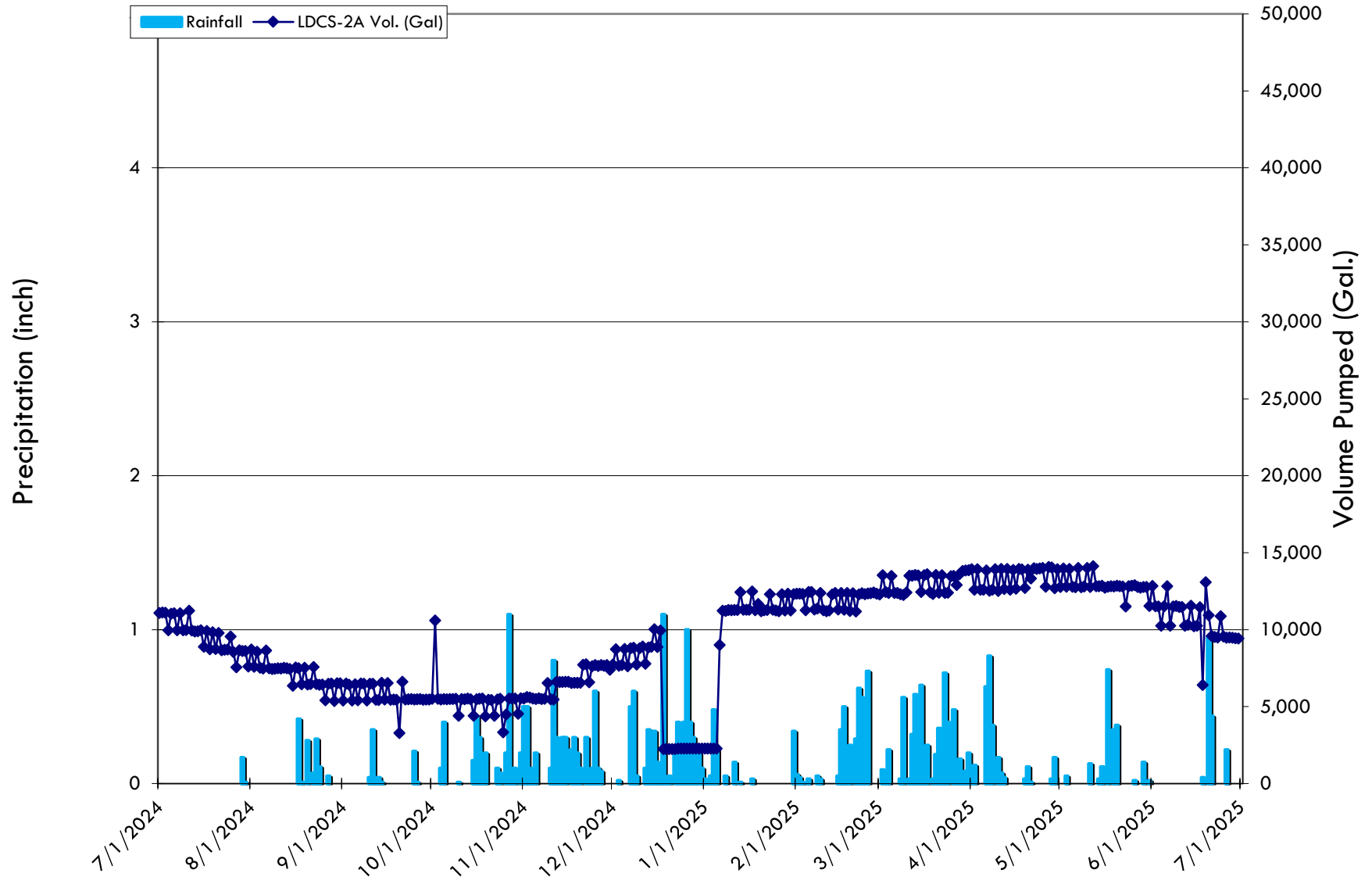
*Conductivity Probe and pump
malfunction August 2023 through
March 2025



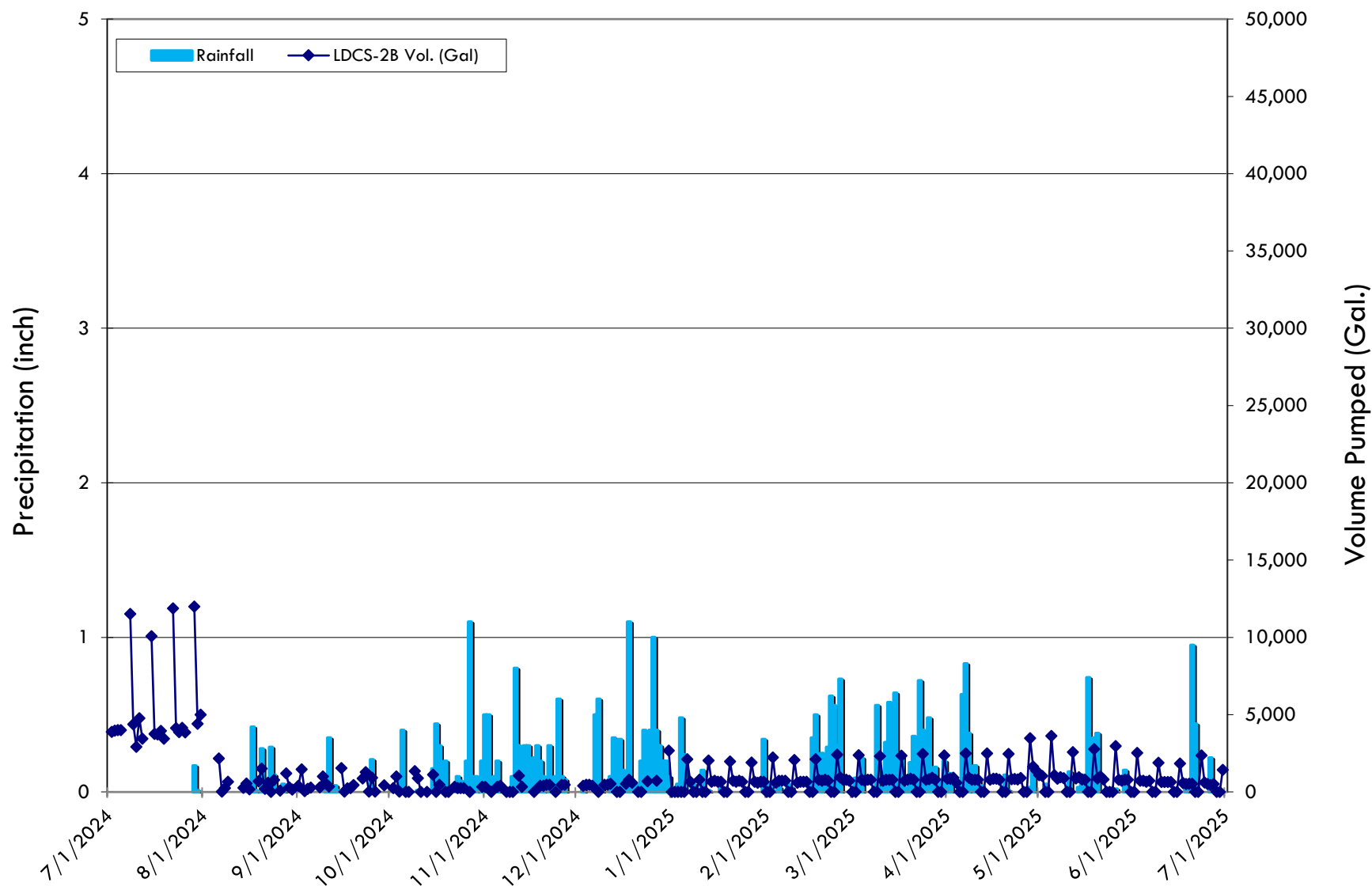
LDCS-1 (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



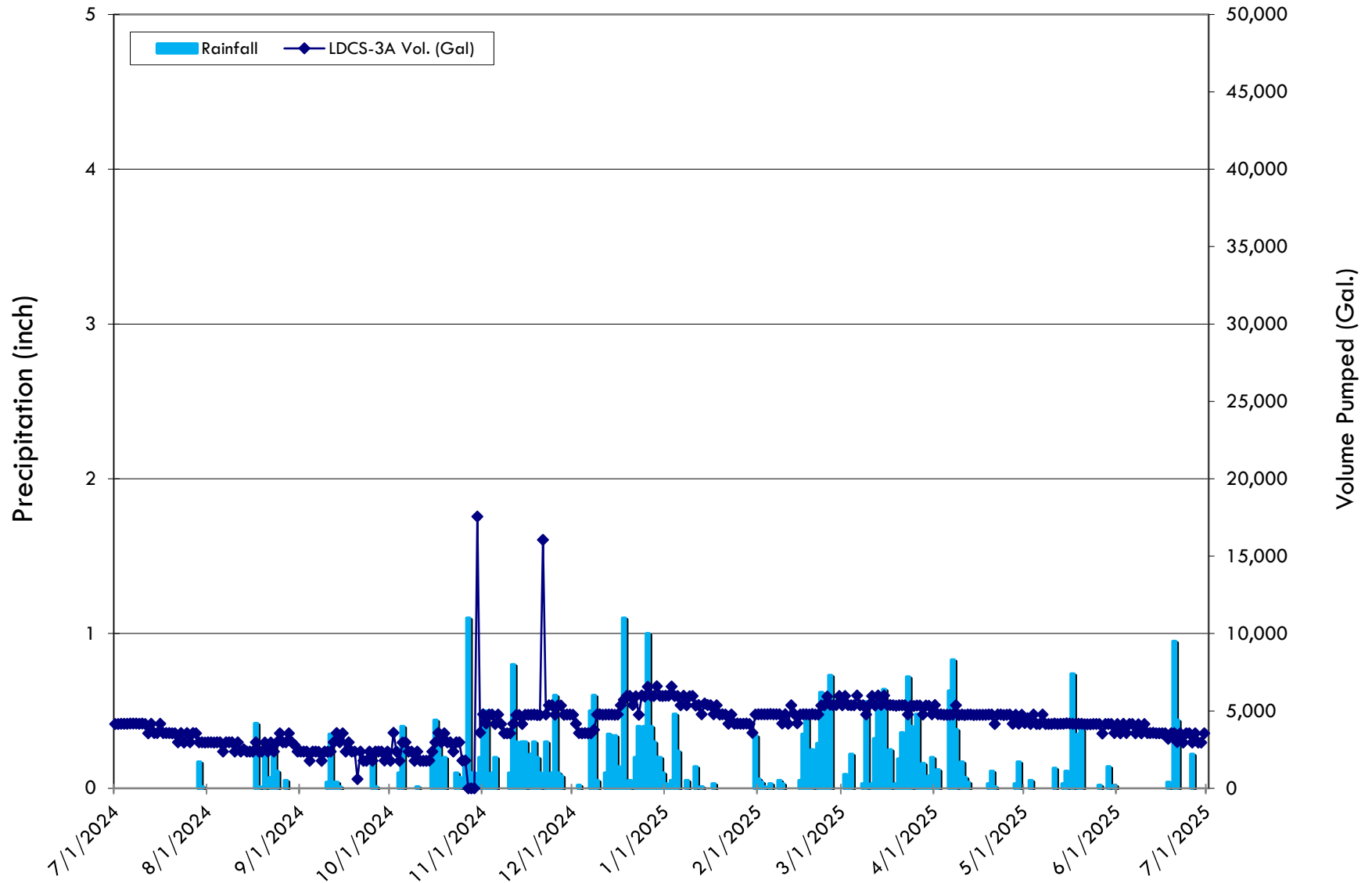
LDCS-2A (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



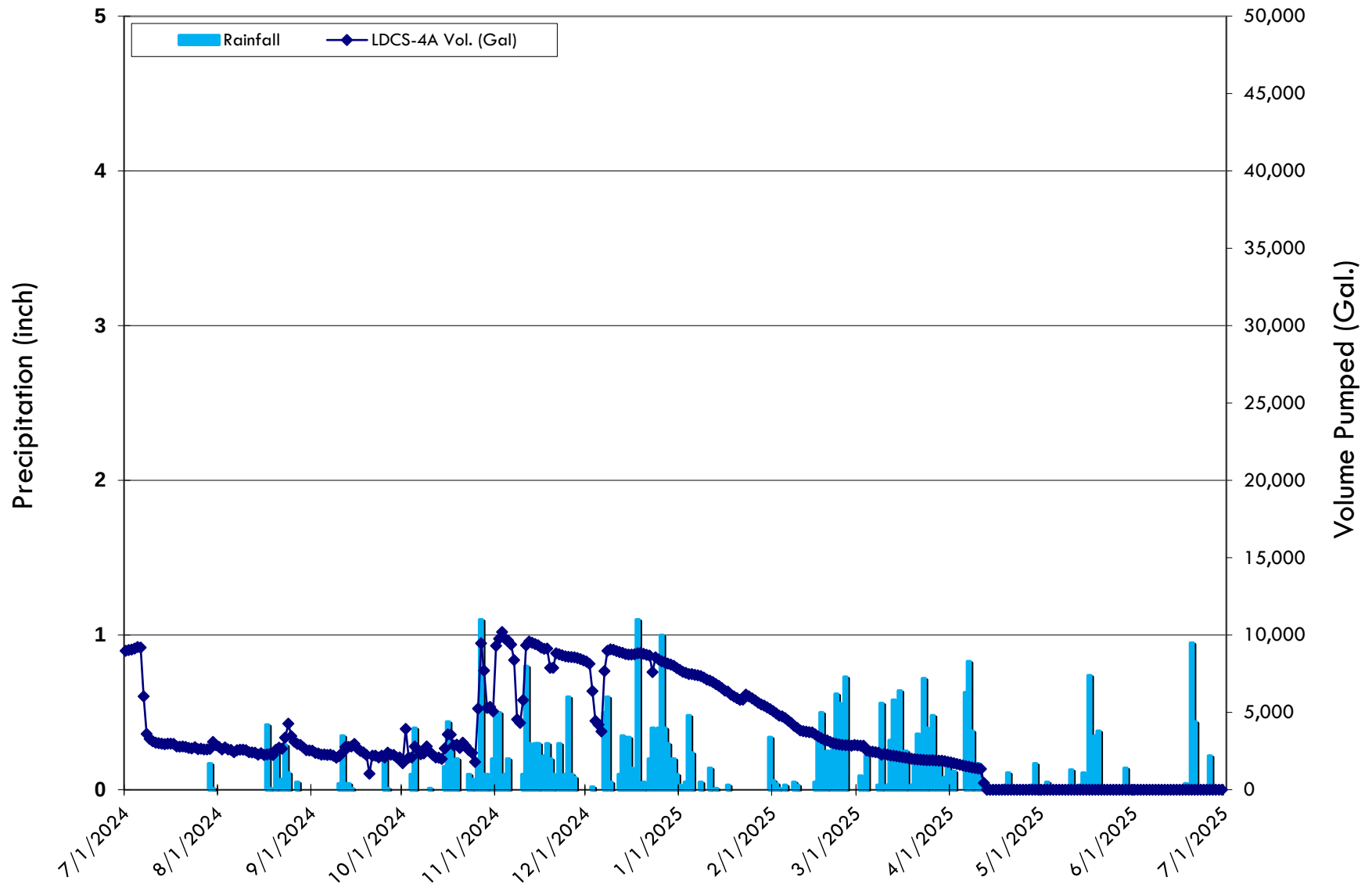
LDCS-2B (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



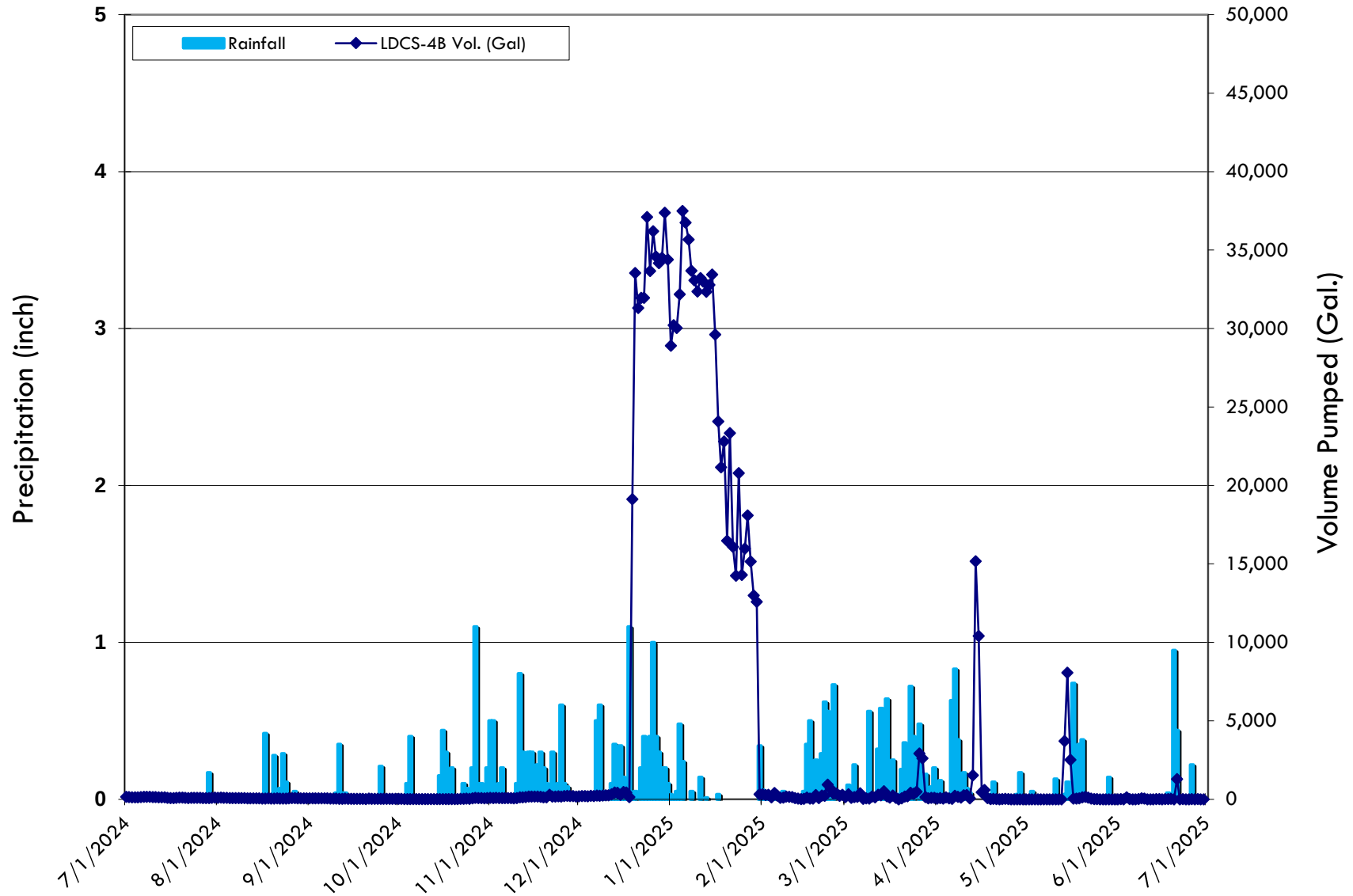
LDCS-3A (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



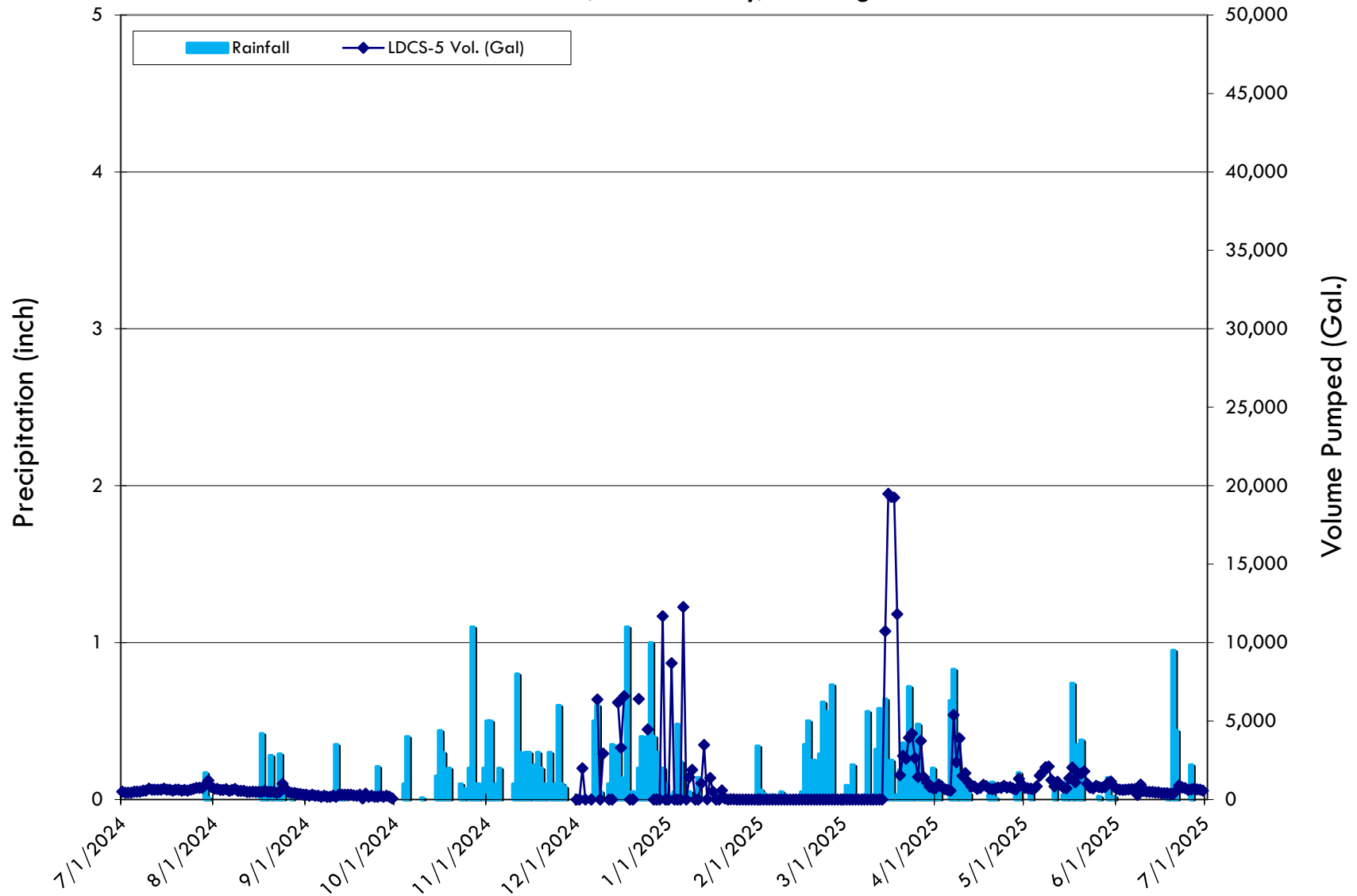
LDCS-4A (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



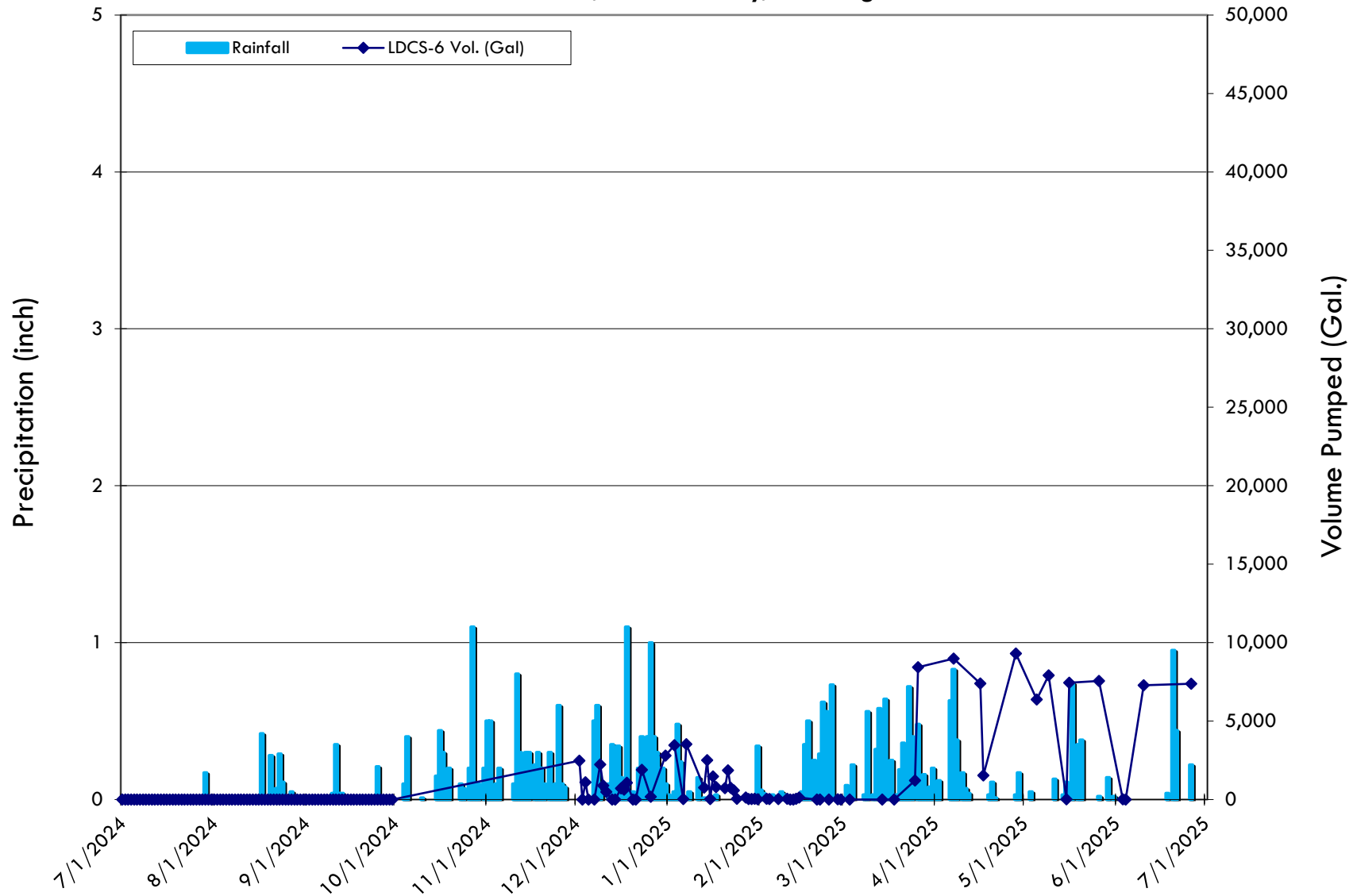
LDCS-4B (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



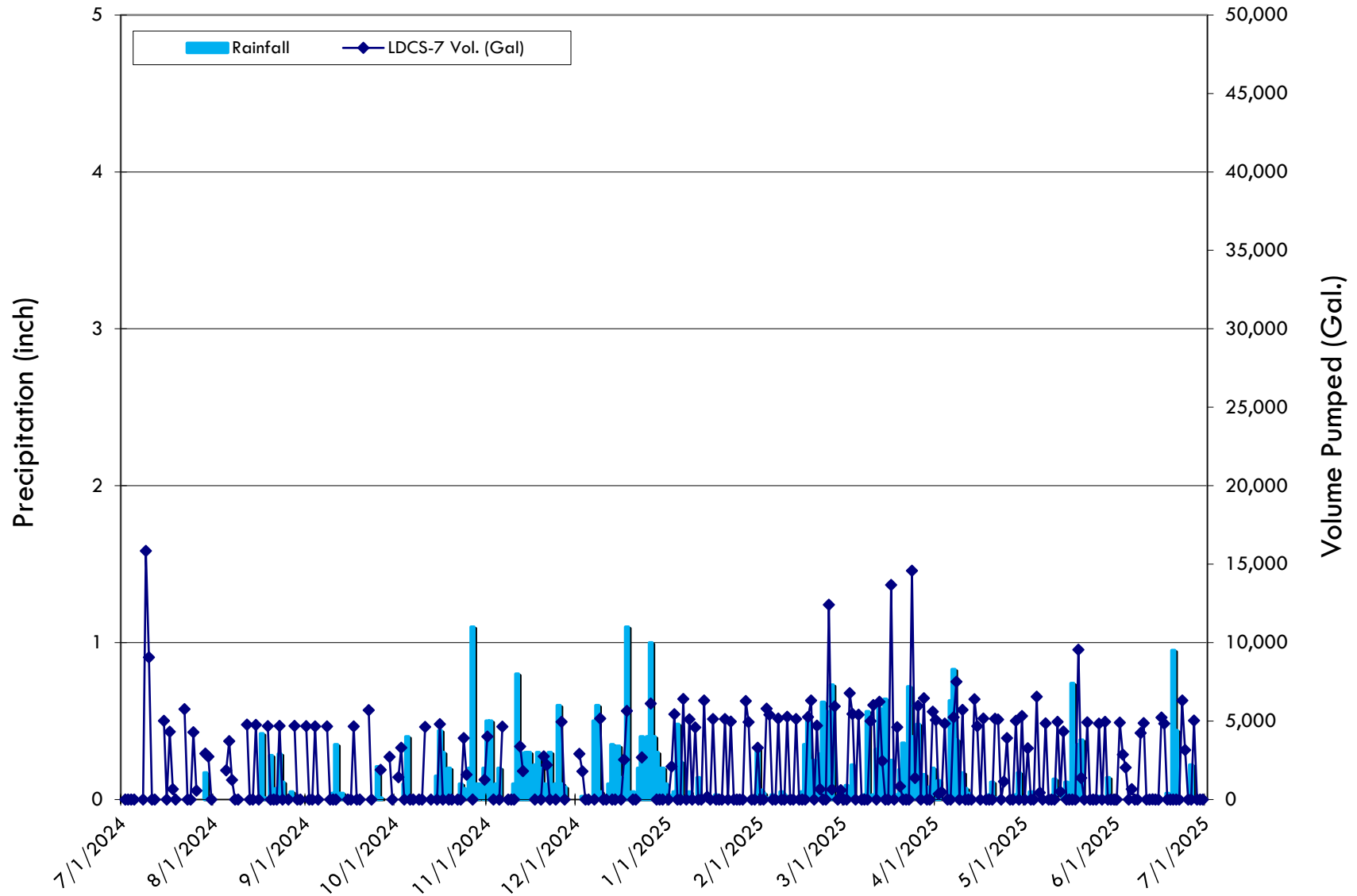
LDCS-5 (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



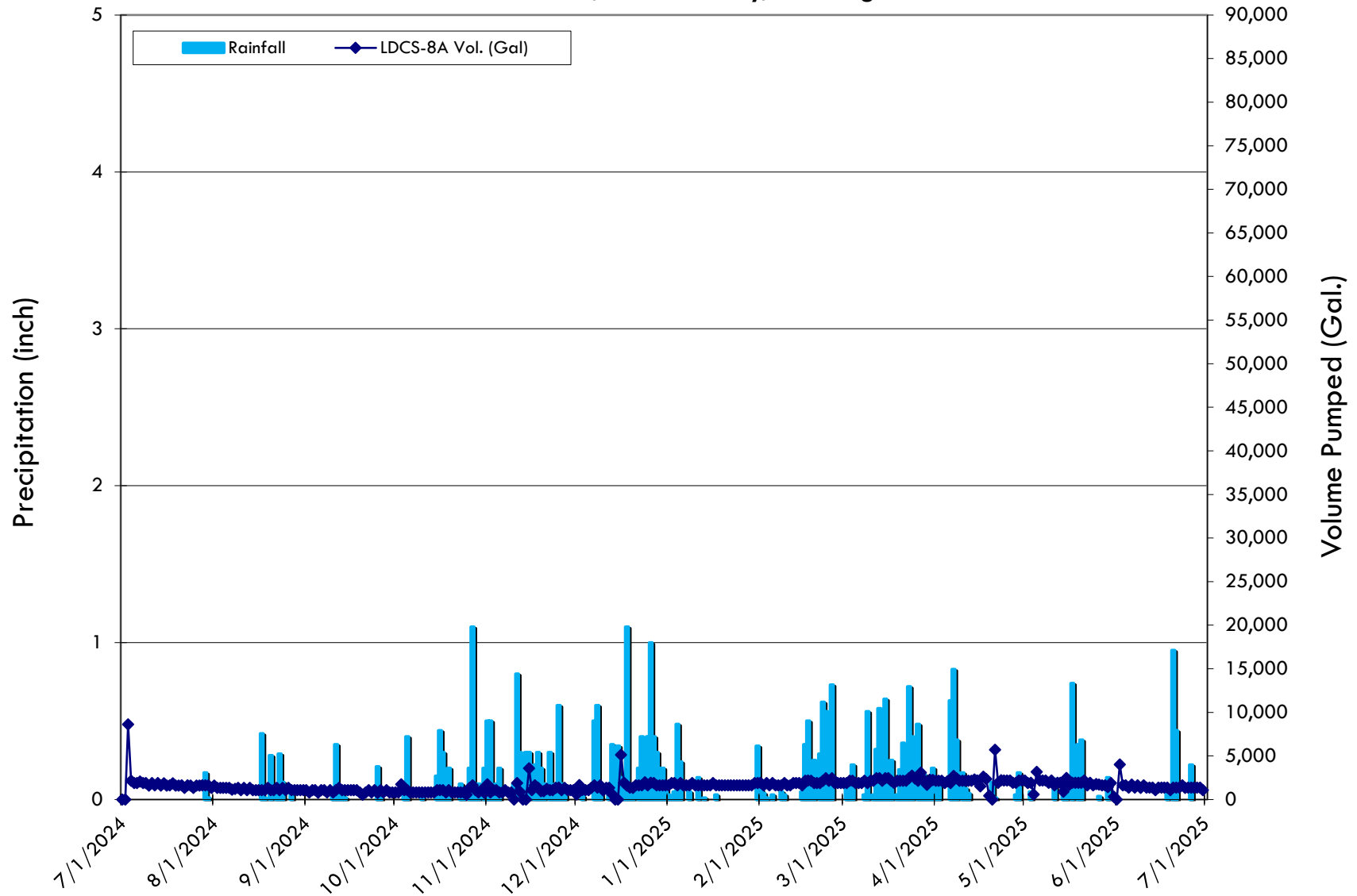
LDCS-6 (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington



LDCS-7 (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington

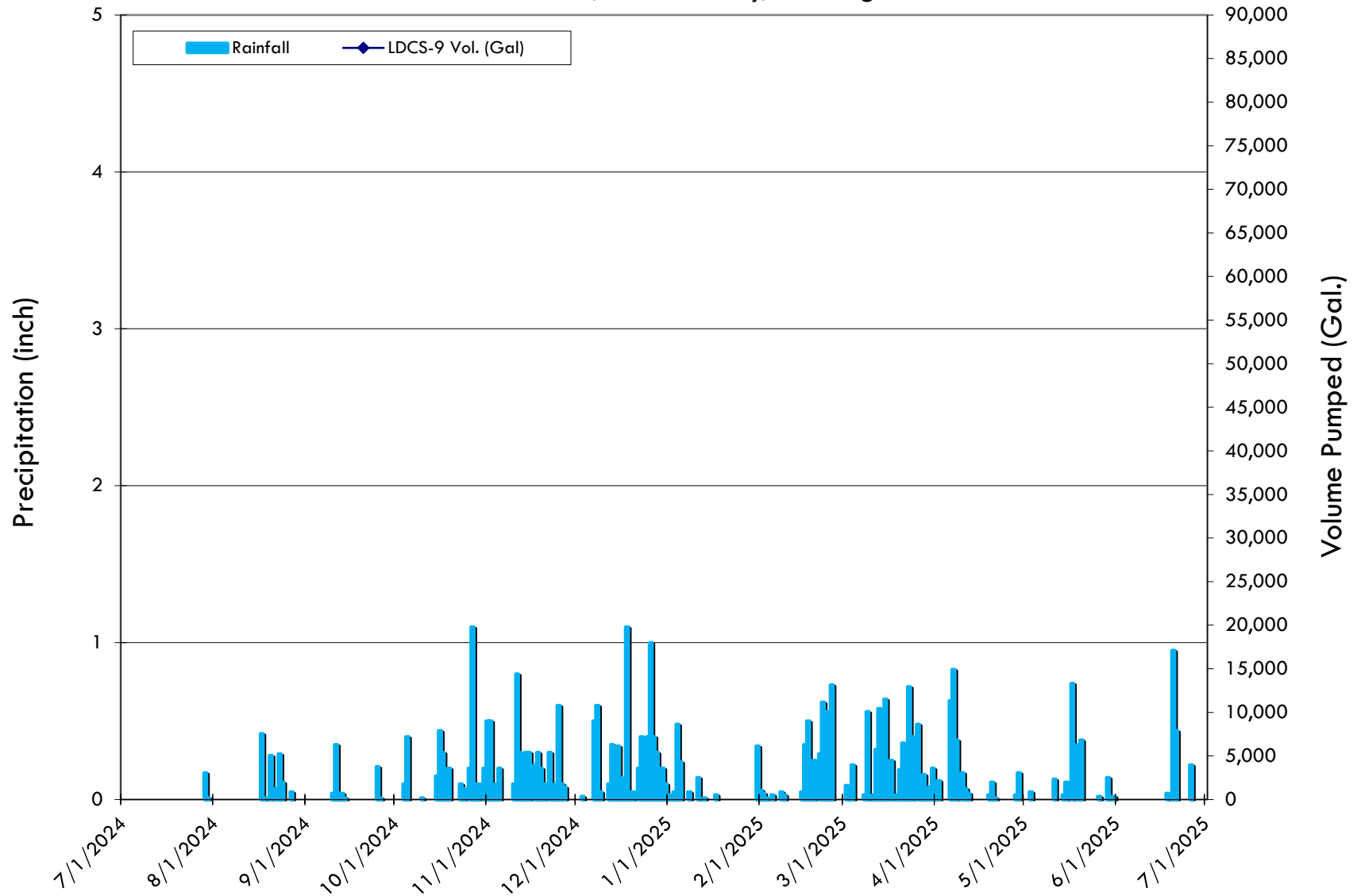


LDCS-8A (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington

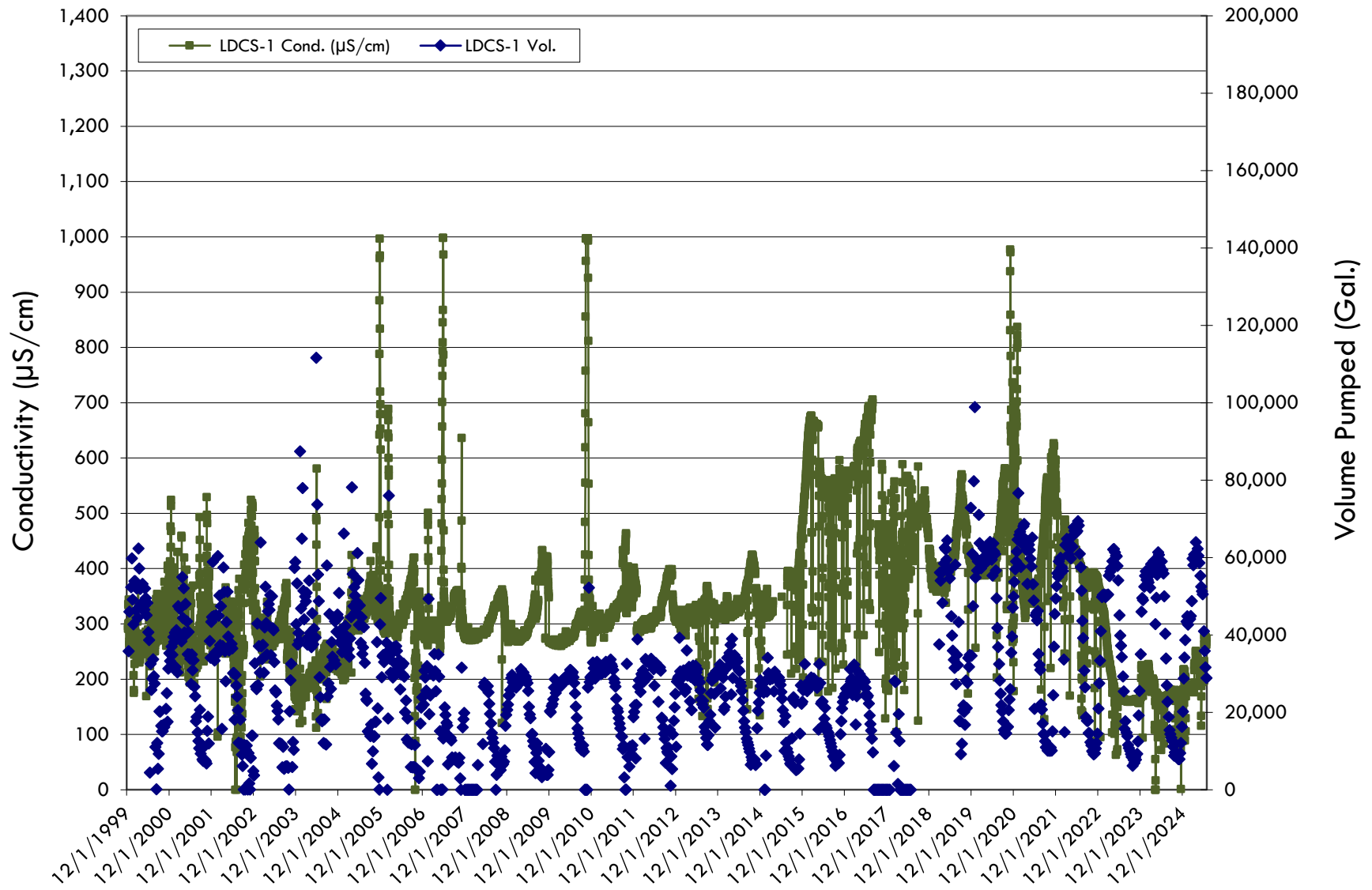


LDCS-9 (Daily Totals)
Volume Pumped vs Precipitation
Second Quarter 2025
LRI Landfill, Pierce County, Washington

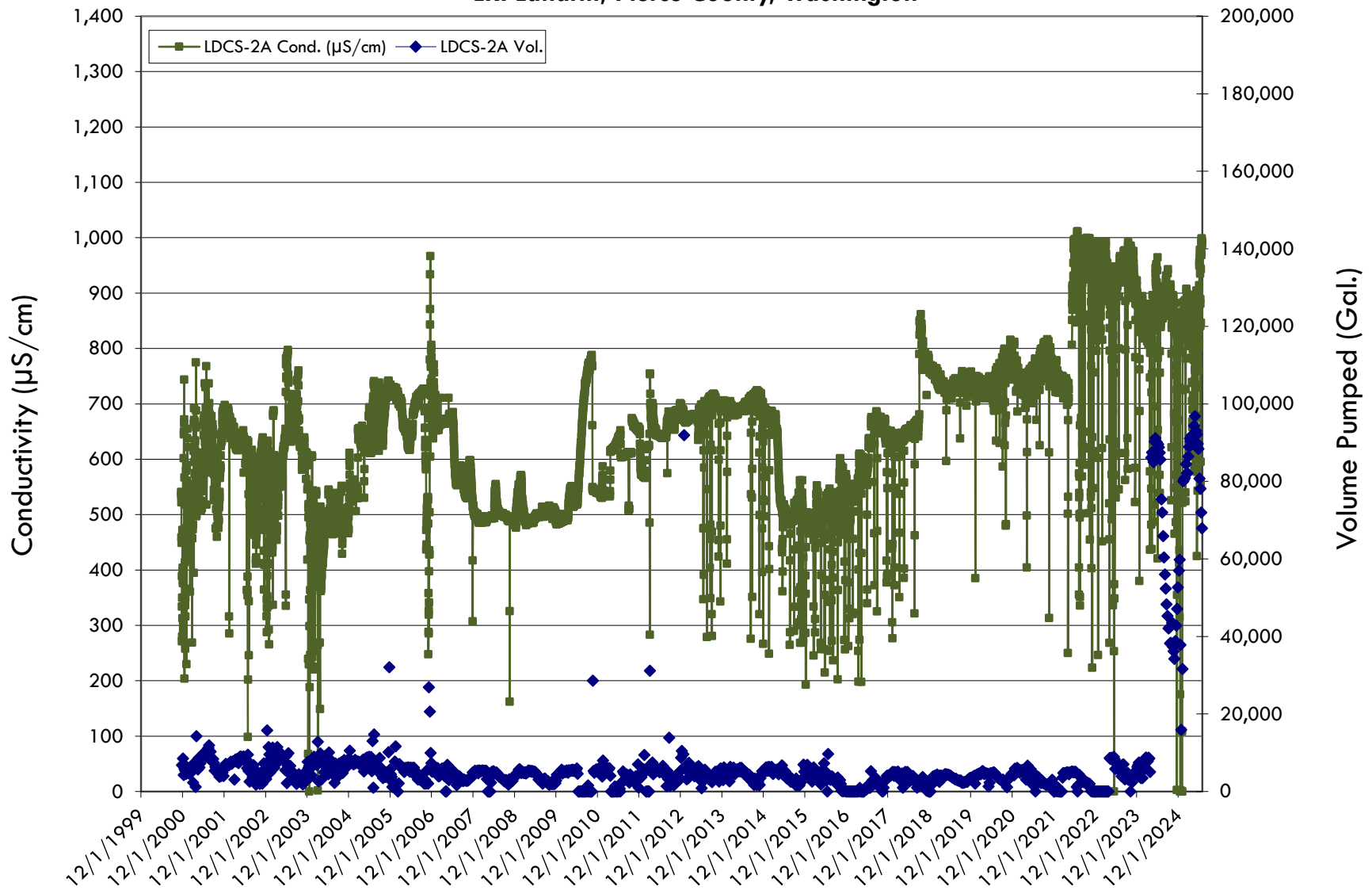
Probe malfunction from August 2023
through May 2024 and July 2024
through March 2025



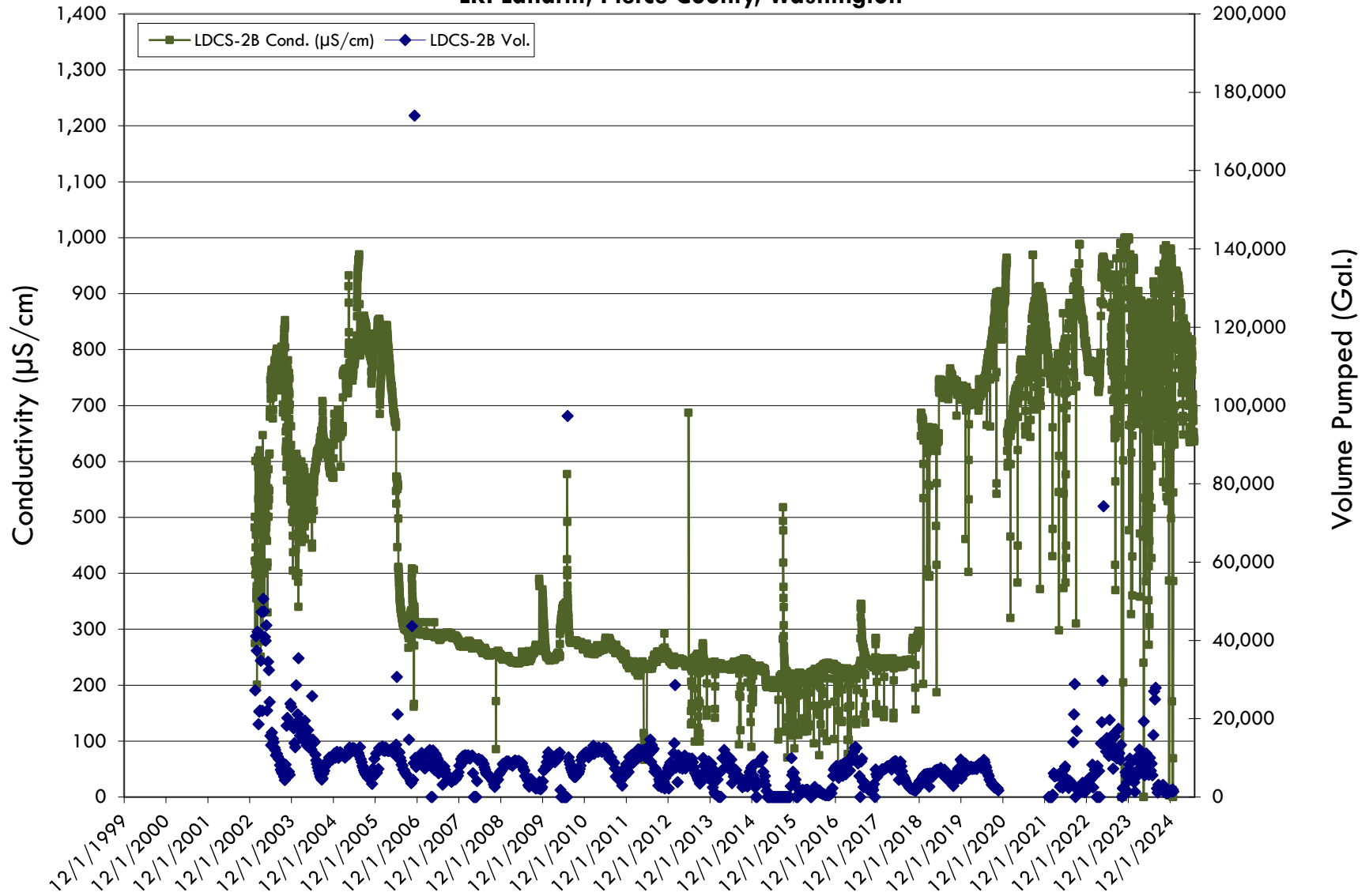
LDCS-1
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



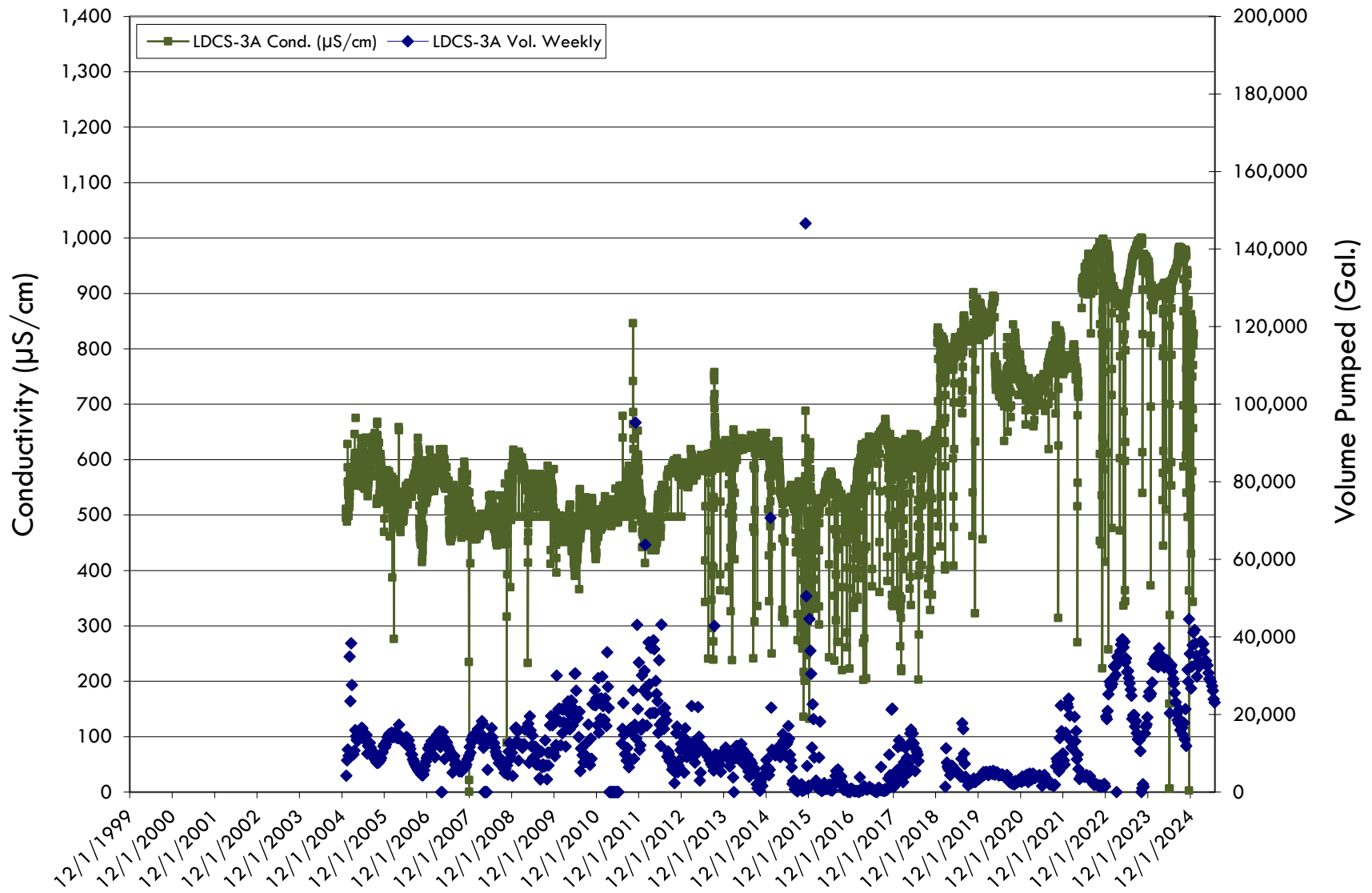
LDCS-2A
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



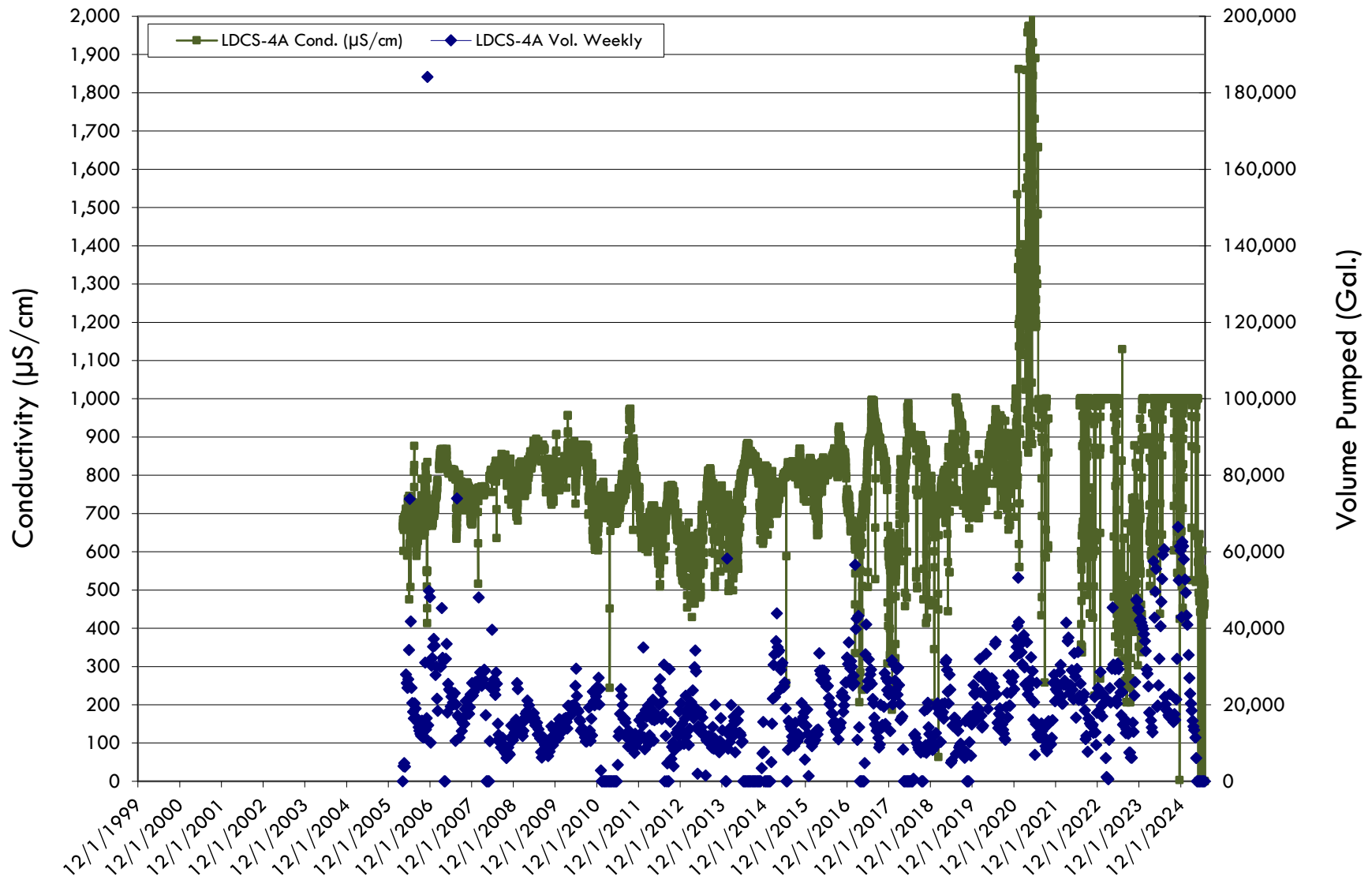
LDCS-2B
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



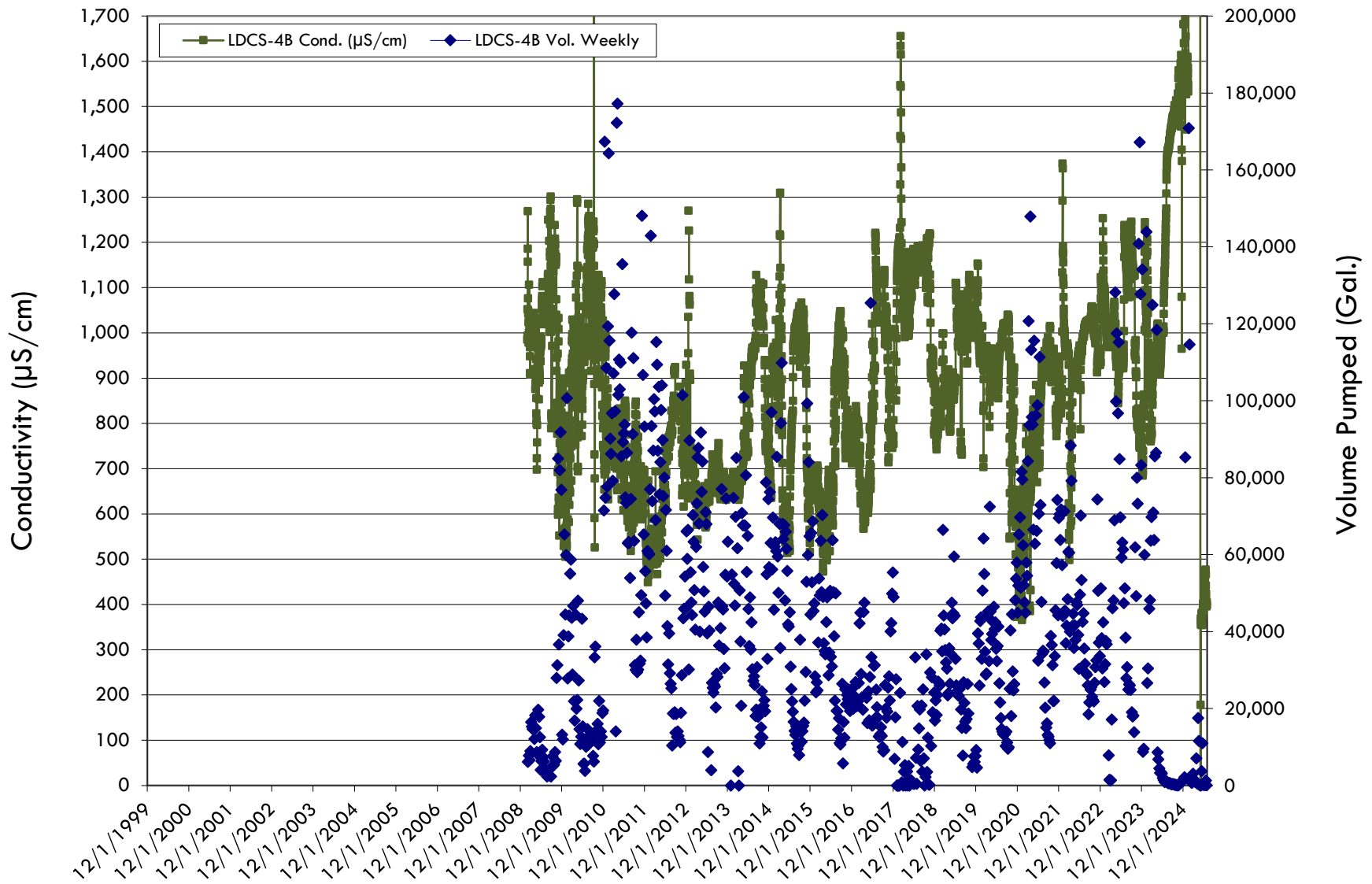
LDCS-3A
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



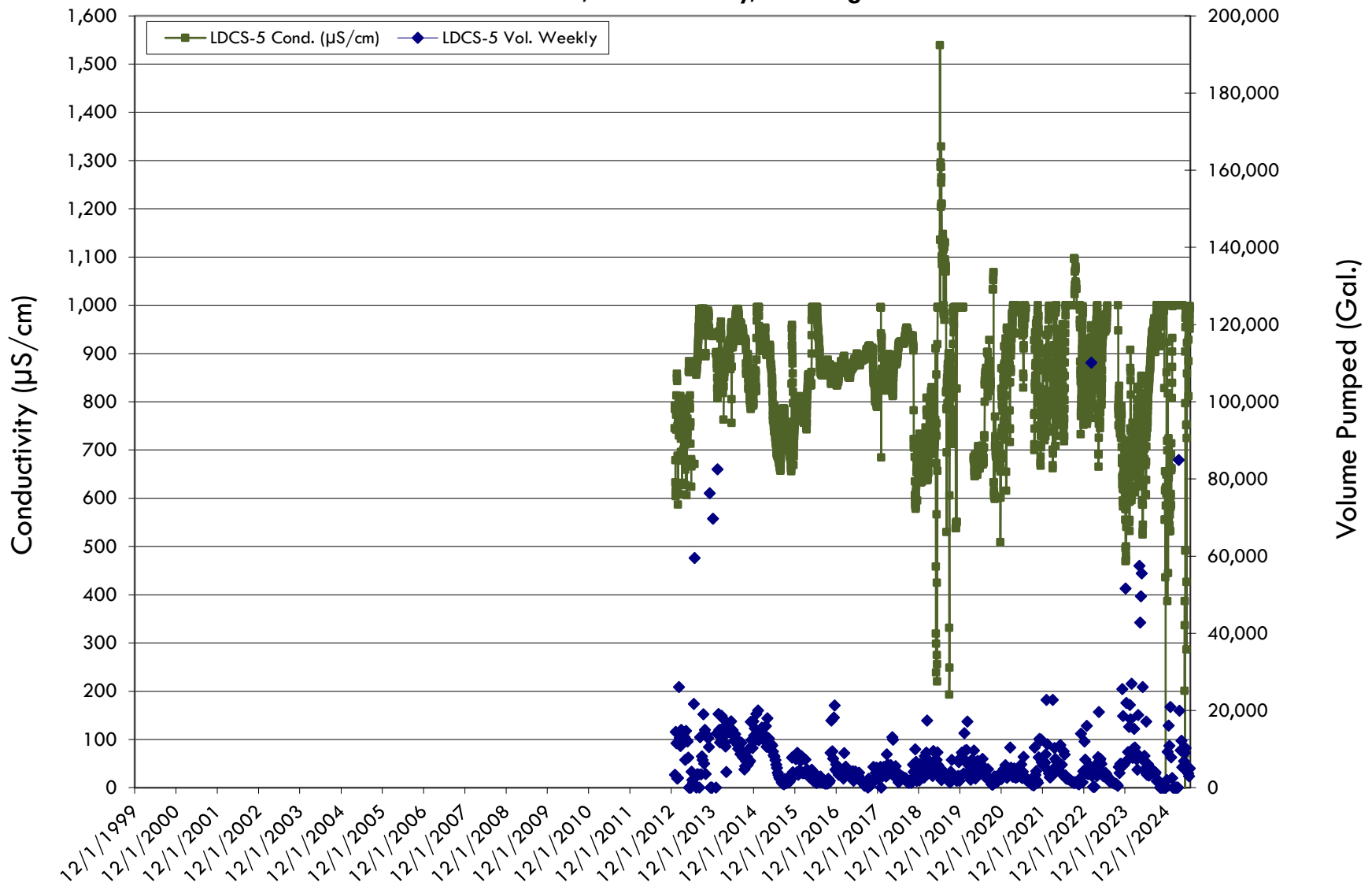
LDCS-4A
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



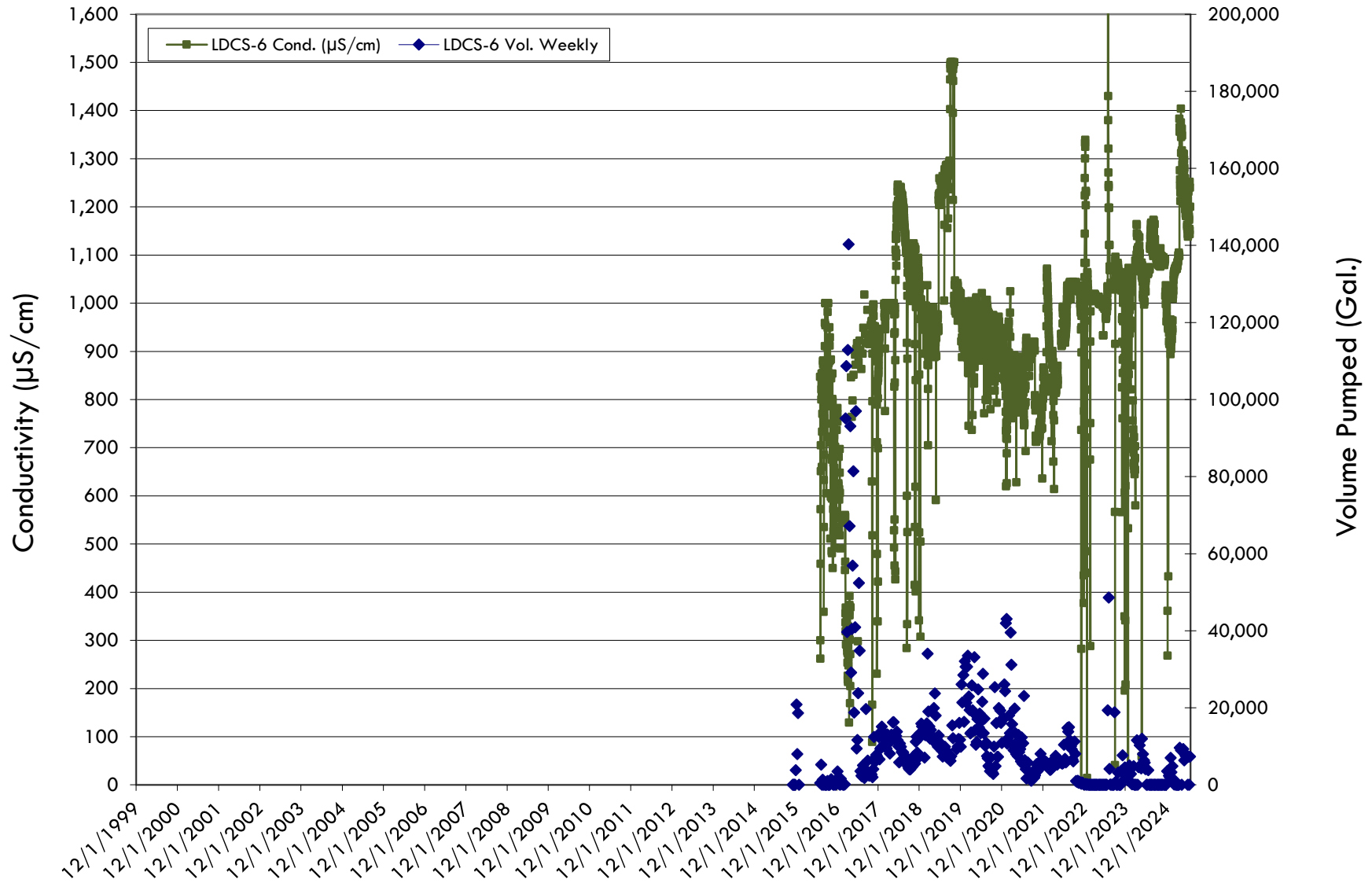
LDCS-4B
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



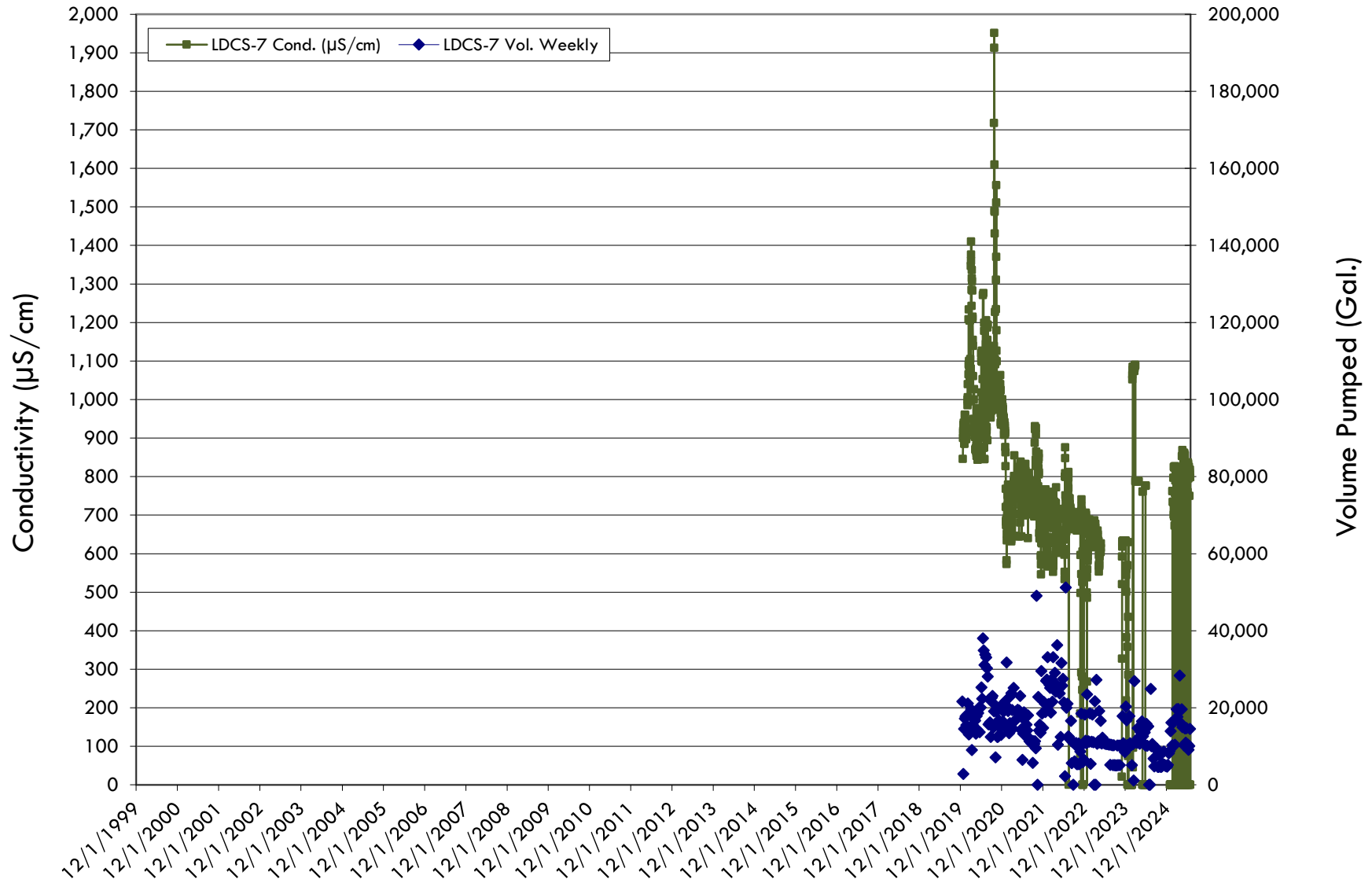
LDCS-5
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



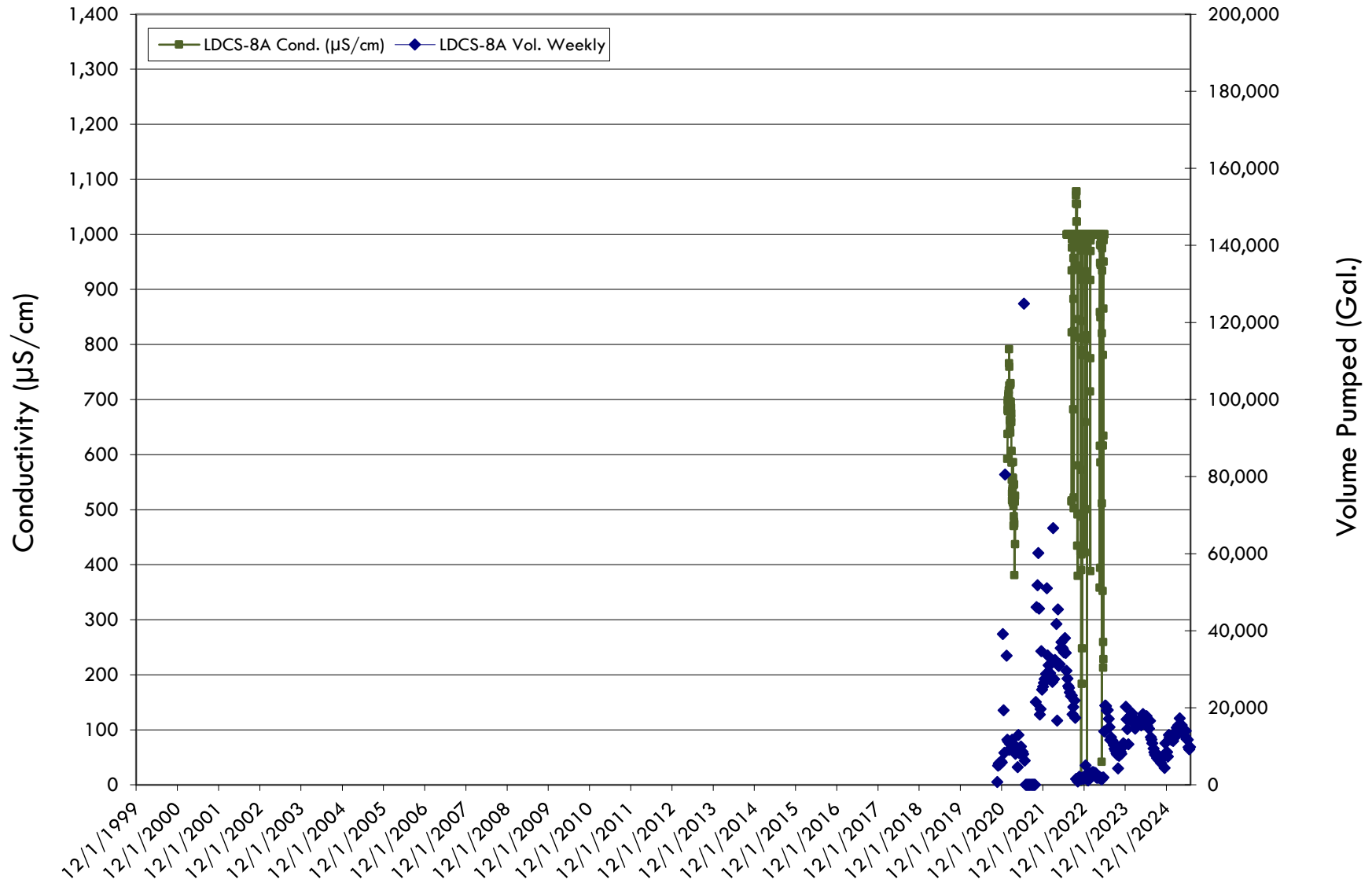
LDCS-6
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



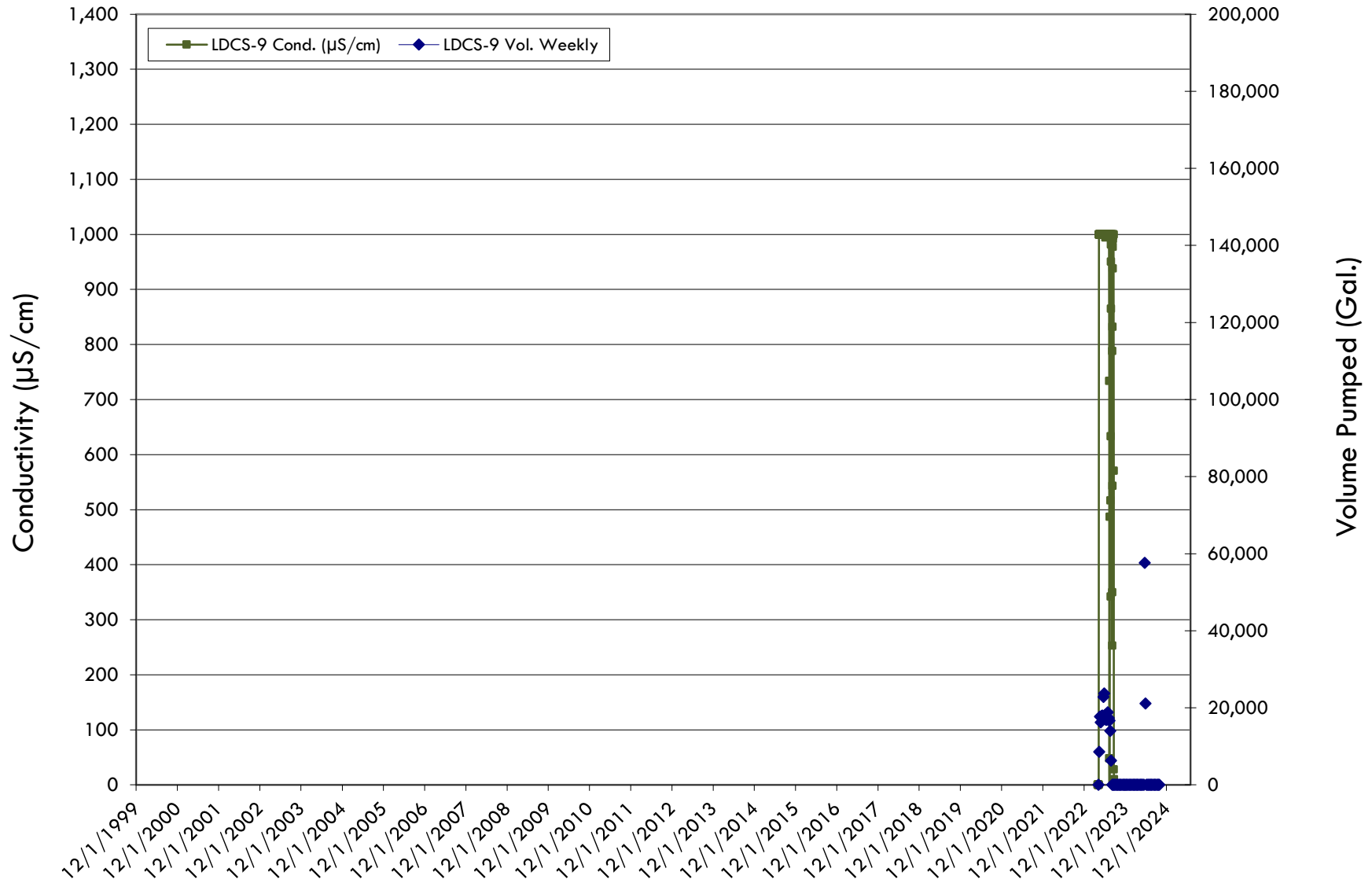
LDCS-7
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



LDCS-8A
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



LDCS-9
Daily Conductivity vs Weekly Volume Pumped
Second Quarter 2025
LRI Landfill, Pierce County, Washington



Attachment I

Surface Water Monitoring Data



Permit Number: WAR002557

Permittee: LRI - 304th Street Landfill

Facility County: Pierce

Receiving Waterbody: Discharge from SW pond

Monitoring Period: 04/01/2025 - 06/30/2025

Outfall: SWPO - Discharge from SW pond

Version: 1

	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOs Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
Week		SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
5-W	4/30/25	1.9	7.4	No	4.8	J 3.3	31	3.3	J 0.77	2.4	B 1.3	15
Minimum			7.4									
			BM: >= 5.0 (RO)									
Average		1.9			4.8	J 3.3	31	3.3	J 0.77	2.4	B 1.3	15
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.4									
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: B - Below Detection Limit/No Detection, J - Estimated Value/Below Quantitation Limit

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

George Duvendack

Signature

7/8/2025 1:18:43 PM

Date



Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha.,alpha.,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
5-W	4/30/25	2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
Minimum								
Average								
Maximum								
Month 1 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15



Permit Number: WAR002603

Permittee: LRI 304th Street Landfill

Facility County: Pierce

Receiving Waterbody: South Creek

Monitoring Period: 04/01/2025 - 04/30/2025

Outfall: 001 - South Creek

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C8-1	C8-1	C8-2	C8-2	C9-1	C9-1
1-Th	4/3/25	C	M	C	M	C	M
2-W	4/9/25	C	M	C	M	C	M
3-Su	4/13/25	C	M	C	M	C	M
3-T	4/15/25	7.6	M				
4-W	4/23/25	C	M	C	M	C	M
5-T	4/29/25	C	M	C	M	C	M
Minimum			M		M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		7.6	M	C	M	C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

BMPs

Monitoring Point	Week	BMP
C8-1		Check Dams
C8-1		Construction Stormwater Chemical Treatment
C8-1		Other
C8-1		Silt Fence
C8-1		Temporary Sediment Pond
C8-2		Check Dams
C8-2		Other
C8-2		Silt Fence
C9-1		Check Dams
C9-1		Silt Fence

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

George Duvendack

Signature

5/7/2025 3:55:30 PM

Date



Permit Number: WAR002603

Permittee: LRI 304th Street Landfill

Facility County: Pierce

Receiving Waterbody: South Creek

Monitoring Period: 05/01/2025 - 05/31/2025

Outfall: 001 - South Creek

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C8-1	C8-1	C8-2	C8-2	C9-1	C9-1
1-Th	5/1/25	C	C	C	C	C	C
2-Su	5/4/25	C	C	C	C	C	C
3-Su	5/11/25	C	C	C	C	C	C
4-Su	5/18/25	C	C	C	C	C	C
5-Su	5/25/25	C	C	C	C	C	C
Minimum							
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum							
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - South Creek

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
C8-2	All Parameters		C	
C9-1	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
C8-1		Check Dams
C8-1		Construction Stormwater Chemical Treatment
C8-1		Other
C8-1		Silt Fence
C8-1		Temporary Sediment Pond
C8-2		Check Dams
C8-2		Other
C8-2		Silt Fence
C9-1		Check Dams
C9-1		Other
C9-1		Silt Fence

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

George Duvendack

Signature

6/10/2025 7:49:28 AM

Date



Permit Number: WAR002557

Permittee: LRI - 304th Street Landfill

Facility County: Pierce

Receiving Waterbody: Discharge from SW pond

Monitoring Period: 04/01/2025 - 06/30/2025

Outfall: SWPO - Discharge from SW pond

Version: 1

	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
Week		SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO	SWPO
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit	ISGP Waste Managemen t & Remediatio n Services - 2025 Permit
5-W	4/30/25	1.9	7.4	No	4.8	J 3.3	31	3.3	J 0.77	2.4	B 1.3	15
Minimum			7.4									
			BM: >= 5.0 (RO)									
Average		1.9			4.8	J 3.3	31	3.3	J 0.77	2.4	B 1.3	15
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.4									
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: B - Below Detection Limit/No Detection, J - Estimated Value/Below Quantitation Limit

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

George Duvendack

Signature

7/8/2025 1:18:43 PM

Date



Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha.,alpha.,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
5-W	4/30/25	2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
Minimum								
Average								
Maximum								
Month 1 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average		2.1	3.3	B 0.3	1.3	B 49	B 9.8	B 9.8
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

Attachment J

Landfill Gas Monitoring Data

LRI Landfill

04225001.04

April-25

Location Refer <i>Design.</i>	Date	Time	P _(well) (in W.C.)	Gas Composition - <i>Note 1</i>					Depth to Water <i>Note 2</i> (ft-TOC)	Exposed Portion of Perforations - <i>Note 3</i>		Comments
				CH ₄ Spike	CH ₄	CO ₂	O ₂	Balance (N ₂ & H ₂ O)		(ft)	(%)	
				(% by vol.)	(% by vol.)	(% by vol.)	(% by vol.)	(% by vol.)				
Normal Operating Range:												
(min)			-	-	0.3	-	-				20.0	
(max)			0.17	-	5.0	5.0	20.3				90.0	

GP-1A	4/14/2025	8:00	0.17	19.9	19.9	38.7	1.4	40.0	13.7	0.0	0.0
GP-2	4/14/2025	9:00	0.00	--	0.0	14.4	5.1	80.5	5.8	0.0	0.0
GP-3	4/14/2025	9:00	0.00	--	0.0	3.5	17.8	78.7	8.4	0.0	0.0
GP-4	4/14/2025	9:00	-0.01	--	0.0	2.7	17.9	79.4	9.5	0.0	0.0
GP-9	4/14/2025	9:00	0.03	--	0.0	6.3	14.5	79.2	11.3	0.0	0.0
GP-10	4/14/2025	9:00	0.01	22.6	22.4	27.8	0.4	49.4		0.0	0.0
GP-10P	4/14/2025	9:00	-0.01	9.9	9.5	2.3	4.2	84.0		0.0	0.0
GP-11	4/14/2025	9:00	-0.23	--	0.0	14.6	14.2	71.2		0.0	0.0
GP-12	4/14/2025	9:00	-0.14	--	0.0	0.5	20.4	79.1		0.0	0.0
GP-13	4/14/2025	9:00	0.03	--	0.0	0.6	20.4	79.0		0.0	0.0
GP-14	4/14/2025	9:00	-0.07	--	0.0	0.5	21.0	78.5	10.9	0.0	0.0
GP-15	4/14/2025	9:00	0.15	--	0.0	0.3	21.3	78.4	14.5	0.0	0.0
GP-16	4/14/2025	9:00	0.00	--	0.0	6.9	15.8	77.3	18.7	0.0	0.0
GP-17	4/14/2025	9:00	0.0	--	0.0	0.4	18.7	80.9	5.4	0.0	0.0
GP-18	4/14/2025	9:00	0.0	--	0.0	0.2	20.2	79.6	4.0	0.0	0.0
GP-19	4/14/2025	9:00	0.0	--	0.0	0.5	20.8	78.7	5.9	0.0	0.0
GP-20	4/14/2025	9:00	0.0	--	0.0	0.1	20.6	79.3	4.4	0.0	0.0
GP-21	4/14/2025	10:15	0.0	--	0.0	0.2	20.3	79.5	4.5	0.0	0.0

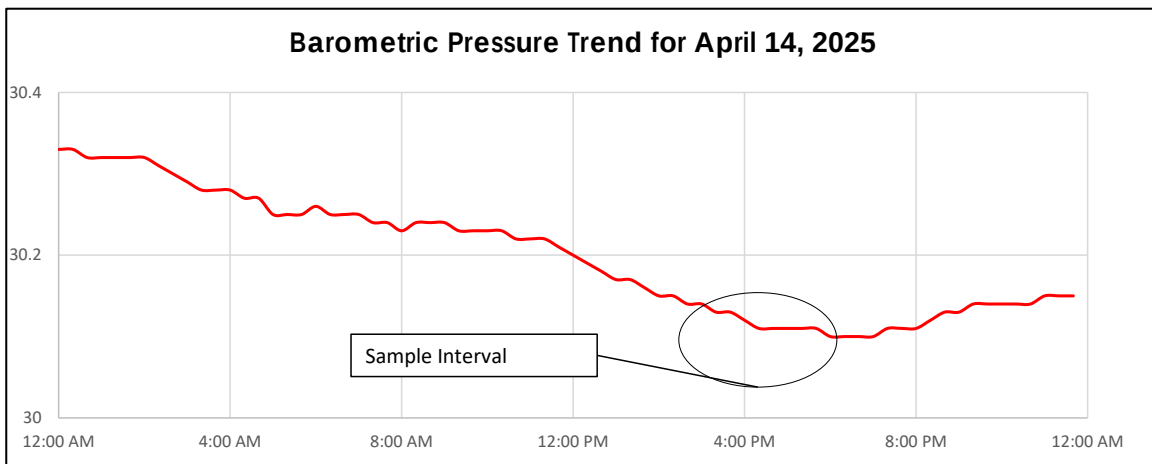
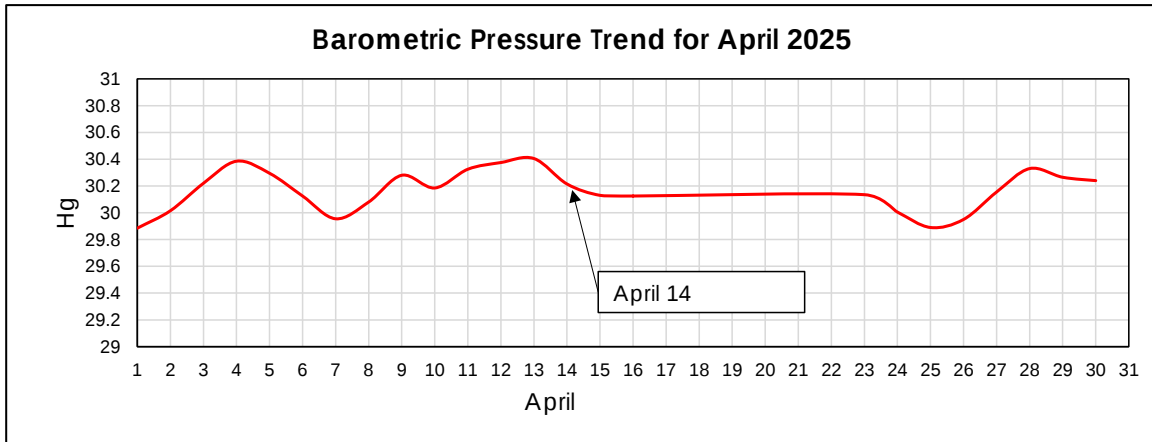
	Beginning	Ending	Average		
				Starting Date:	4/14/2025
Weather:	Sunny	Sunny	Sunny	Starting Time:	8:00
Temperature, T (deg F):	62	69	65.5	Finishing Date:	4/14/2025
Wind Speed (mph):	5	10	7.5	Finishing Time:	10:15
Wind Direction:	292.5	315	303.75	Monitored by:	TWH
Barometric Pressure, P (in Hg):	29.62	29.61	29.62	Instruments:	Elkins Envision
24hr Baro.Trend (rising / falling / steady / unsteady)	Falling			Calibration Date:	4/14/2025

Notes:

P _(well)	Relative Pressure	1.	Measurement for spike concentrations of CH ₄ and CO ₂ are recorded as a comment if observed during sampling.
CH ₄	Methane		
CO ₂	Carbon Dioxide	2.	Water level measurements made where gas probe monitoring port allows for measurement, or where there is an adjacent measurement piezometer.
O ₂	Oxygen		
H ₂ O	Water Vapor	3.	Exposed Perforation = perforated pipe section not submerged by liquid.
N ₂	Nitrogen		
TOC	Top of Casing		

Barometric Pressure Trend - April 2025

LRI Landfill, Pierce County, Washington



Monthly Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA52/table/2025-04-14/2025-04-14/monthly>

Daily Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA52/table/2025-04-14/2025-04-14/daily>

Location Refer <i>Design.</i>	Date	Time	P (well) (in W.C.)	Gas Composition - <i>Note 1</i>					Depth to Water <i>Note 2</i> (ft-TOC)	Exposed Portion of Perforations - <i>Note 3</i>		Comments
				CH ₄ Spike (% by vol.)	CH ₄ (% by vol.)	CO ₂ (% by vol.)	O ₂ (% by vol.)	Balance (N ₂ & H ₂ O) (% by vol.)		(ft)	(%)	
				Normal Operating Range:								
(min)			-	-	0.3	-	-			20.0		
(max)			0.03	-	5.0	5.0	20.3			90.0		

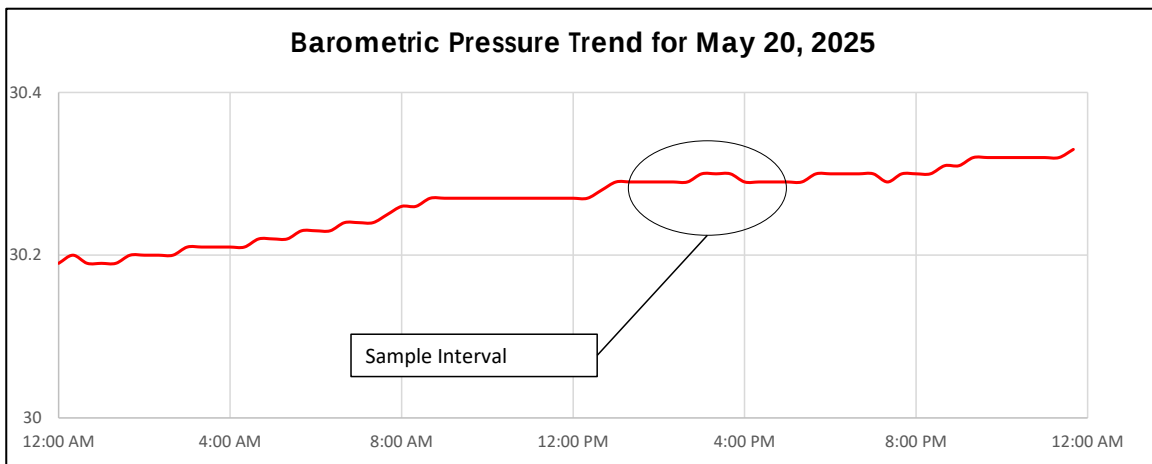
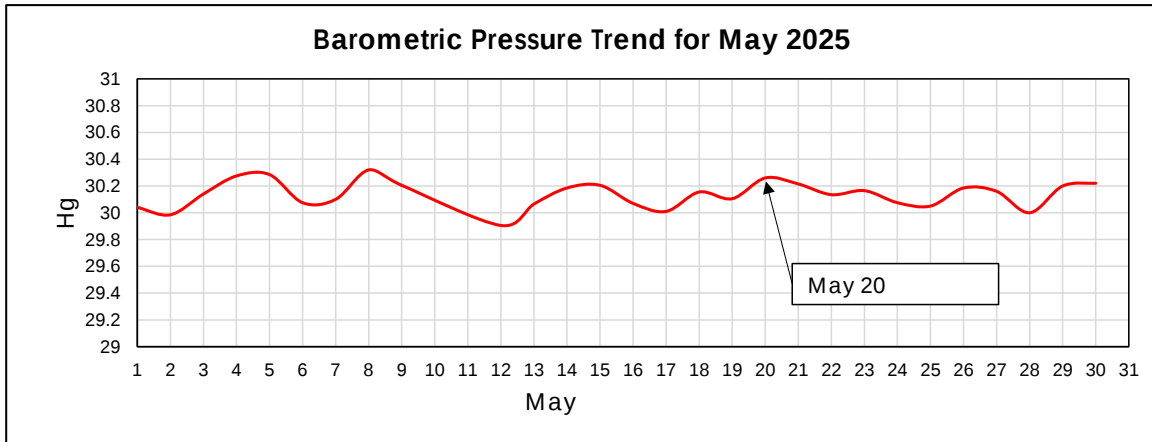
Perimeter Gas Probes												
GP-1A	5/20/2025	11:01	0.03	20.6	0.0	0.8	21.1	78.1	14.0	0.0	0.0	
GP-2	5/20/2025	11:15	0.00	--	0.0	13.7	0.2	86.1	15.9	0.0	0.0	
GP-3	5/20/2025	11:28	0.00	--	0.0	2.6	17.4	80.0	8.9	0.0	0.0	
GP-4	5/20/2025	11:36	0.01	--	0.0	6.1	10.8	83.1	9.9	0.0	0.0	
GP-9	5/20/2025	11:41	0.01	--	0.0	6.7	7.1	86.2	11.7	0.0	0.0	
GP-10	5/20/2025	10:30	0.01	0.6	0.6	20.3	4.0	75.1		0.0	0.0	
GP-10P	5/20/2025	10:47	0.00	20.0	20.0	32.4	0.0	47.6		0.0	0.0	
GP-11	5/20/2025	10:17	-1.12	0.2	0.0	21.4	2.7	75.9		0.0	0.0	
GP-12	5/20/2025	9:50	-6.04	18.9	16.4	38.2	0.0	45.4		0.0	0.0	
GP-13	5/20/2025	8:49	0.00	--	0.0	23.1	3.1	73.8		0.0	0.0	
GP-14	5/20/2025	8:11	-1.06	0.1	0.0	0.6	21.8	77.6	12.4	0.0	0.0	
GP-15	5/20/2025	8:06	-0.05	0.3	0.0	1.0	21.3	77.7	16.0	0.0	0.0	
GP-16	5/20/2025	11:47	0.01	--	0.0	0.3	20.8	78.9	19.7	0.0	0.0	
GP-17	5/20/2025	11:09	0.0	--	0.0	0.1	21.3	78.6	6.8	0.0	0.0	
GP-18	5/20/2025	11:21	0.0	--	0.0	0.5	21.0	78.5	5.0	0.0	0.0	
GP-19	5/20/2025	12:31	0.0	--	0.0	0.1	20.8	79.1	8.4	0.0	0.0	
GP-20	5/20/2025	8:35	0.0	--	0.0	0.0	22.4	77.6	7.2	0.0	0.0	
GP-21	5/20/2025	8:22	0.0	--	0.0	0.2	21.6	78.2	8.2	0.0	0.0	

General Data:												
				Beginning			Ending		Average		Starting Date:	
Weather:				Sunny			Sunny		Sunny		5/20/2025	
Temperature, T (deg F):				62			69		65.5		Starting Time:	
Wind Speed (mph):				5			10		7.5		5/20/2025	
Wind Direction:				292.5			315		303.75		Finishing Time:	
Barometric Pressure, P (in Hg):				29.62			29.61		29.62		Monitored by:	
24hr Baro.Trend (rising / falling / steady / unsteady)							Falling				Elkins Envision	
											Calibration Date:	
											5/20/2025	

Headings:		Notes:	
P _(well)	Relative Pressure	1.	Measurement for spike concentrations of CH ₄ and CO ₂ are recorded as a comment if observed during sampling.
CH ₄	Methane		
CO ₂	Carbon Dioxide	2.	Water level measurements made where gas probe monitoring port allows for measurement, or where there is an adjacent measurement piezometer.
O ₂	Oxygen		
H ₂ O	Water Vapor	3.	Exposed Perforation = perforated pipe section not submerged by liquid.
N ₂	Nitrogen		
TOC	Top of Casing		

Barometric Pressure Trend - May 2025

LRI Landfill, Pierce County, Washington



Monthly Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA52/table/2025-05-20/2025-05-20/monthly>

Daily Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA52/table/2025-05-20/2025-05-20/daily>

LRI Landfill

04225001.04

June-25

Location Refer <i>Design.</i>	Date	Time	P _(well) (in W.C.)	Gas Composition - <i>Note 1</i>					Depth to Water <i>Note 2</i> (ft-TOC)	Exposed Portion of Perforations - <i>Note 3</i>		Comments
				CH ₄ Spike	CH ₄	CO ₂	O ₂	Balance (N ₂ & H ₂ O)		(ft)	(%)	
				(% by vol.)	(% by vol.)	(% by vol.)	(% by vol.)	(% by vol.)				
Normal Operating Range:												
(min)			-	-	0.3	-	-				20.0	
(max)			1.16	-	5.0	5.0	20.3				90.0	

Perimeter Gas Probes

GP-1A	6/10/2025	13:06	1.16	--	0.1	1.9	20.8	77.2	14.1	0.0	0.0	
GP-2	6/10/2025	12:50	0.11	--	0.0	14.0	0.3	85.7	16.1	0.0	0.0	
GP-3	6/10/2025	12:36	0.02	--	0.0	4.2	16.7	79.1	8.8	0.0	0.0	
GP-4	6/10/2025	12:31	0.02	--	0.0	9.5	10.1	80.4	11.2	0.0	0.0	
GP-9	6/10/2025	12:25	0.02	--	0.0	7.5	6.4	86.1	12.9	0.0	0.0	
GP-10	6/10/2025	13:13	0.01	--	13.1	29.1	0.0	57.8		0.0	0.0	
GP-10P	6/10/2025	13:17	0.04	--	14.9	18.1	7.4	59.6		0.0	0.0	
GP-11	6/10/2025	13:22	0.02	--	0.0	24.6	1.0	74.4		0.0	0.0	
GP-12	6/10/2025	13:32	-0.92	--	13.4	39.9	0.1	46.6		0.0	0.0	
GP-13	6/10/2025	13:37	0.00	--	0.0	23.4	2.2	74.4		0.0	0.0	
GP-14	6/10/2025	14:07	0.02	--	0.0	0.1	21.8	78.1	13.9	0.0	0.0	
GP-15	6/10/2025	14:27	0.03	--	0.0	12.6	12.2	75.2	16.8	0.0	0.0	
GP-16	6/10/2025	12:19	0.01	--	0.0	0.4	20.7	78.9	20.9	0.0	0.0	
GP-17	6/10/2025	12:56	0.0	--	0.0	0.4	22.3	77.3	8.3	0.0	0.0	
GP-18	6/10/2025	12:44	0.0	--	0.0	0.5	20.0	79.5	8.8	0.0	0.0	
GP-19	6/10/2025	14:41	0.0	--	0.0	1.0	21.2	77.8	4.4	0.0	0.0	
GP-20	6/10/2025	13:53	0.0	--	0.0	0.1	22.1	77.8	8.6	0.0	0.0	
GP-21	6/10/2025	13:44	0.0	--	0.0	0.4	21.3	78.3	11.7	0.0	0.0	

General Data:

	Beginning	Ending	Average		
				Starting Date:	6/10/2025
Weather:	Sunny	Sunny	Sunny	Starting Time:	12:19
Temperature, T (deg F):	62	69	65.5	Finishing Date:	6/10/2025
Wind Speed (mph):	5	10	7.5	Finishing Time:	14:41
Wind Direction:	292.5	315	303.75	Monitored by:	AD
Barometric Pressure, P (in Hg):	29.62	29.61	29.62	Instruments:	Elkins Envision
24hr Baro.Trend (rising / falling / steady / unsteady)	Falling			Calibration Date:	6/10/2025

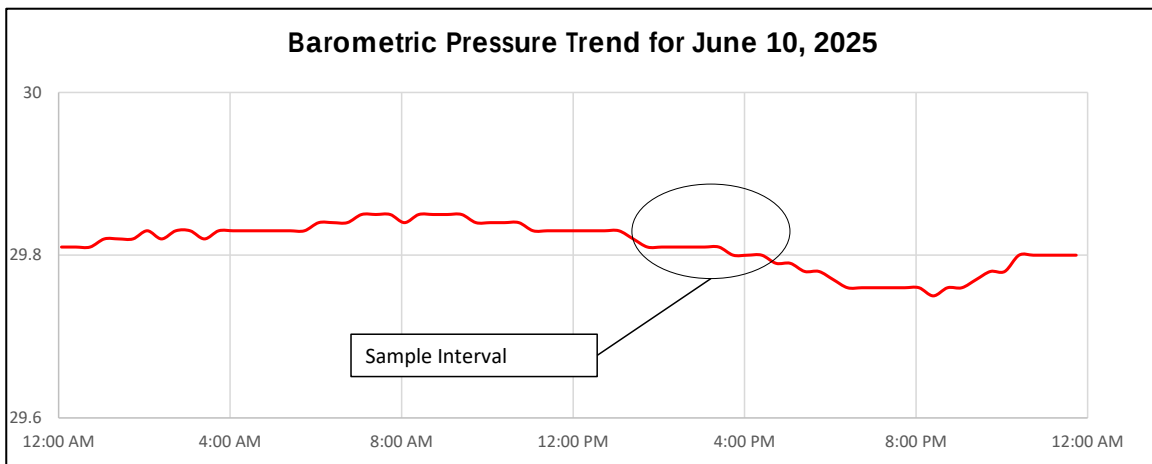
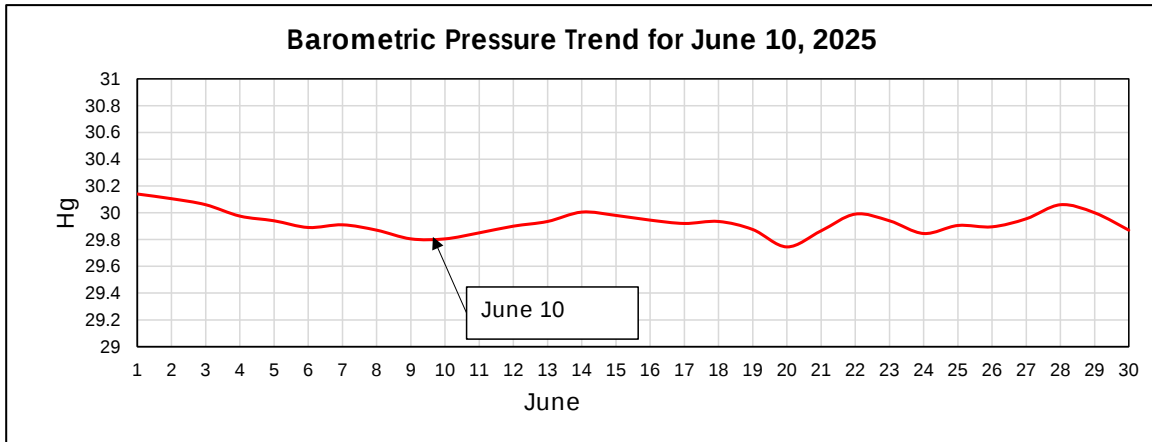
Headings:

Notes:

P _(well)	Relative Pressure	1.	Measurement for spike concentrations of CH ₄ and CO ₂ are recorded as a comment if observed during sampling.
CH ₄	Methane		
CO ₂	Carbon Dioxide	2.	Water level measurements made where gas probe monitoring port allows for measurement, or where there is an adjacent measurement piezometer.
O ₂	Oxygen		
H ₂ O	Water Vapor	3.	Exposed Perforation = perforated pipe section not submerged by liquid.
N ₂	Nitrogen		
TOC	Top of Casing		

Barometric Pressure Trend - June 2025

LRI Landfill, Pierce County, Washington



Monthly Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA105/table/2025-06-10/2025-06-10/daily>

Daily Data Source: Wunderground.com (South Hill, WA)

Lat: 46.98 Long: 122.34 Elev: 692 ft-AMSL

Data Source:

<https://www.wunderground.com/dashboard/pws/KWAGRAHA105/table/2025-06-10/2025-06-10/daily>

LRI 304th Street Landfill
Landfill Gas Monitoring of On-site Buildings

04225001.04
Project Number: ~~04224001.04~~

Date: 5/19/25
Weather Conditions: partly cloudy, some rain showers
Instrument: MicroFID
Measured By: Lauren Murray

The atmosphere inside buildings at the landfill were monitored for possible intrusion of methane gas. Per WAC 173-351, concentrations of methane in on-site structures must not exceed 25% of the lower explosive limit (LEL). If off-site gas migration is suspected, concentrations of methane in off-site structures must not exceed 100 ppm methane.

The areas monitored included:

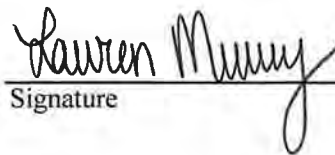
- The general overall work area
- Floor drains
- Underground conduit protrusions
- Closed areas where landfill gas could collect, such as under cupboards and inside closets

The gas detection instrument must be calibrated using calibration gas containing methane equal to 50 % LEL. Calibration must be performed before and after the survey is completed.

Checked boxes indicate that the survey revealed **no detectable methane**.



- Main Office - individual office spaces, storage areas and within open crawl-space area. → 0.3 by NE door
- Repair Shop – survey atmosphere conditions throughout (lower height levels).
- Pay/Scale Booth – interior of building.
- Work Shop - interior of shed adjacent to stormwater ponds.
- Energy Plant - occupied spaces of building adjacent to blower flare station. → 0.3 in equipment room


Signature