COUNTY OF IMPERIAL

DEPARTMENT OF PUBLIC WORKS

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ICDPW

April 18, 2024

California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, California 92260

Attention: Ms. Paula Rasmussen, Executive Officer

RE: WATER QUALITY MONITORING REPORT
SEMIANNUAL OCTOBER 2023 THROUGH MARCH 2024/ANNUAL
NILAND WASTE MANAGEMENT FACILITY

The County of Imperial Department of Public Works (Department) is pleased to provide the Semiannual October 2023 through March 2024/Annual Report for the Niland Waste Management Facility (NWMF) WDID No. 7A13 0301 071 in accordance with Monitoring and Reporting Order No. 97-046. During the monitoring year, groundwater levels were measured and groundwater samples were collected semiannually at the NWMF for the routine monitoring parameters listed in revised Order No. 97-046. No changes have been made to the groundwater monitoring systems over the past year.

With the exception of inorganic results at background well N-MW-1, current monitoring results were generally consistent with historical results. No volatile organic compounds (VOCs) were detected and no State or Federal primary maximum contaminant level (MCLs) were exceeded. Tolerance limits were exceeded for chloride, nitrate as nitrogen, and total dissolved solids at background well N-MW-1 during the monitoring period.

Groundwater chemistry at the site is characterized by high concentrations of chloride and total dissolved solids (TDS). Review of the historical data from the site background and compliance wells suggests that high concentrations of inorganic constituents, particularly chloride and TDS, in the site monitoring wells are naturally occurring and not indicative of a release. Comparison of the groundwater chemistry data collected over the past year with the historical data generated for the NWMF indicates that water quality conditions within the groundwater monitoring wells were generally within historical ranges with the exception of recent inorganic results at background well N-MW-1. No VOCs have been detected in any site well since 2002. Although long-term decreasing trends were noted for groundwater elevations at monitoring wells N-MW-2 and N-MW-3, water levels have stabilized and remain relatively static since 2018, while long-term groundwater elevations have remained relatively static at upgradient well N-MW-1 and piezometer N-DW-4. Slight long-term increasing trends in inorganic constituent concentrations at background well N-MW-1 may necessitate re-calculation of

tolerance limits to accurately reflect changing groundwater conditions upgradient of the NWMF.

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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."

If you have any questions, please call me at (760) 482-4462.

Sincerely,

John Gay

John A. Gay, PE
Director of Public Works

Enclosure

Water Quality Monitoring Report
Semiannual October 2023 – March 2024/ Annual

Niland Waste Management Facility

WDID No. 7A13 0301 071

Submitted to

Regional Water Quality Control Board -
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

Submitted by

Imperial County
Department of Public Works
155 South Eleventh Street
El Centro, California 92243-2853

Prepared by

Geo-Logic ASSOCIATES

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Project SO20.1070

April 2024

Certification

This Report was prepared in accordance with generally accepted professional hydrogeologic principles and practices. This Report makes no other warranties, either expressed or implied as to the professional advice or data included in it. This Report has not been prepared for use by parties or projects other than those named or described herein. It may not contain sufficient information for other parties or purposes.

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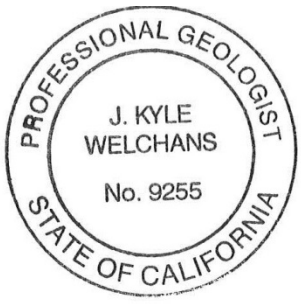

Date signed: April 18, 2024

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Acronyms and Abbreviations

CCR Title 27	Title 27, California Code of Regulations
CNSDAM	California Non-Statistical Data Analysis Method
COCs	Constituents of Concern
DO	Dissolved Oxygen
DMP	Detection Monitoring Program
EC	Electrical Conductivity
ft/ft	Feet per Foot
gpd	Gallons per Day
GLA	Geo-Logic Associates
LFG	Landfill Gas
LEA	Local Enforcement Agency
MDL	Method Detection Limit
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
M&RP	Monitoring and Reporting Program
MCL	Maximum Contaminant Level
msl	Mean Sea Level
NWMF	Niland Class III Municipal Solid Waste Management Facility
Nitrate-N	Nitrate as Nitrogen
NOV	Notice of Violation
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percent Difference
TL	Tolerance Limit
TDS	Total Dissolved Solids
RWQCB	California Regional Water Quality Control Board – Colorado River Basin Region
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WDRs	Waste Discharge Requirements
WQO	Water Quality Objective

1. Introduction

This report presents the analyses of groundwater flow and groundwater quality at the Niland Class III Municipal Solid Waste Management Facility (NWMF) during the October 2023 through March 2024 semiannual monitoring period, and also present an annual summary for the monitoring year. This report was prepared to comply with the monitoring requirements in Regional Water Quality Control Board (RWQCB) Order No. 93-071 for all solid waste sites within the Colorado River Basin region, and Order No. 97-046 issued specifically for the NWMF. A copy of this report has been uploaded to the State Water Resources Control Board Website (GeoTracker).

The sampling and analysis procedures are presented in Section 2. Section 3 presents a discussion of the laboratory analyses and Quality Assurance/Quality Control (QA/QC) data obtained for the semiannual monitoring period. A discussion of the statistical analytical methods and Water Quality Objectives (WQOs) are included in Section 4. Section 5 presents the results of semiannual data obtained during the current monitoring period, including a discussion of the groundwater elevations and hydraulic gradient; groundwater chemistries; statistical analyses of the groundwater data; a comparison of the groundwater constituent concentrations relative to currently established state and/or federal drinking water standards; an annual discussion including time-series charts; and appropriate conclusions and recommendations derived from the data obtained. References are cited following Section 5. Field sampling notes and laboratory analytical reports for the groundwater samples are provided in Appendix A.

1.1 Background

The NMWF is an active Class III landfill located in Niland, in Imperial County, California. Geology beneath the site consists of a mixture of Pleistocene age terrace deposits of clay, sand, and silt. Surficial soils consist of gravely, fine to coarse sand. The NMWF is within approximately 1.9 miles of the active Sand Hills fault. Groundwater within the Imperial Valley in which the facility is situated is characterized by high salinity that is typically too high for municipal use.

On June 3, 2004, Imperial County Department of Public Works submitted a letter to the Colorado River Basin region RWQCB requesting a reduction in the frequency of groundwater elevation monitoring at all Imperial County solid waste sites from a quarterly to semiannual

basis. This request was approved by the RWQCB, and as a result, groundwater elevations are now measured once each monitoring event to coincide with groundwater sampling activities.

2. Sampling and Analysis Procedures

Groundwater monitoring for the NWMF was completed by Geo-Logic Associates (GLA) on February 21 and 22, 2024. Sampling and analyses were performed in accordance with Order No. 97-046 and GLA's Sampling and Analysis Plan submitted to Imperial County, dated March 16, 2020. A brief summary of the protocols used for sample collection is presented below.

2.1 Analytical Methods

Samples collected from site groundwater monitoring wells are tested for routine semiannual monitoring parameters. Table 2-1 presents the monitoring parameters analyzed and the associated analytical methods and techniques used by the laboratory for the analyses completed during the current monitoring period. Field notes and laboratory reports are included in Appendix A.

2.2 Groundwater Sampling

The sampling protocols listed below were followed during groundwater sampling operations.

- Upon arrival at the wellhead, each monitoring point was inspected for evidence of tampering and/or vandalism, and the well identification information (I.D.) was recorded.
- Prior to sounding each well, a weighted water-level indicator (sounder) was decontaminated using a phosphate-free soap solution, followed by two rinses with deionized water. The wells were then sounded and the initial water level and the total depth of the well (if obtainable) were recorded on a Well Data Sheet.
- The wells in the NWMF groundwater network are sampled using dedicated bailers or new (factory sealed) disposable bailers. Up to three well casing volumes (under optimal conditions) of water were purged prior to sampling.
- Each well with sufficient recharge was purged of a minimum of three casing volumes and allowed to recover to 80 percent of the original well volume prior to sampling.

Slow recharge wells (wells that do not recover to 80 percent of original water elevation within two hours) were purged dry and allowed to recover sufficiently for sampling.

- To assess the presence of fresh water coming into the well, dissolved oxygen (DO), electrical conductivity (EC), pH, turbidity, and temperature were monitored after approximately every one to three gallons of purging, depending on the well and total estimated purge volume requirements. Sampling was performed when DO, EC, pH, and temperature stabilized to within 10% between consecutive readings, and the total estimated purge volume was reached.
- For sample collection (either with the dedicated bailer or new, factory-sealed, disposable bailer), a bottom-emptying device was inserted into the bailer, and the sample was transferred directly from the bailer to the container.

2.3 Groundwater Sample Collection and Handling

- Samples, including a field blank, were collected in approved sample containers provided by the analytical lab, and each container was filled completely and immediately capped, labeled, and placed in a cooler with ice. Samples for volatile organic compound (VOC) analysis were filled by pouring the sample down the sides of the container to minimize aeration and capped with no airspace.
- Collected samples, accompanied by a trip blank, were placed immediately in an ice-filled cooler for transport to a state-certified testing laboratory. Samples were kept chilled (at about degrees C) until delivery.
- A completed Chain-of-Custody form, detailing the sample I.D. numbers, date and time collected, analyses requested, and other project information, accompanied each sample to the laboratory. The Chain-of-Custody forms were signed and dated by all personnel retaining custody of the samples (Appendix A).

3. Laboratory Analyses and QA/QC Results

Groundwater samples were analyzed by Pace Analytical, a State of California certified laboratory, located in Bakersfield, California.

The QA/QC program completed for this monitoring period included analyses of a duplicate sample (N-MW-1), trip blank, field blank, and laboratory method blanks. Blank samples (except laboratory method blanks) were analyzed for VOCs (EPA Test Method 8260) only. Method blanks are analyzed for the same list of constituents as the primary samples. All QA/QC test samples accompanied the primary sample submittals to the laboratory. Table 3-1 lists the sampling dates, dates of blank retention and the analytical results of blank testing. Duplicate sample results are presented in Table 3-2.

The QA/QC efforts completed for the current reporting period yielded the following results:

- Based on a review of the chain-of-custody documentation and the analytical laboratory reports, all samples received by the laboratory were properly preserved, sealed, and chilled in accordance with EPA guidelines.
- Based on a review of the sample dates and testing report dates (Appendix A), all samples were submitted and analyzed within the required holding times.
- During the monitoring period, no organic or inorganic constituents were detected in the method blank samples (Table 3-1).
- Review of quantifiable duplicate and primary groundwater sample results (Table 3-2) indicates there was good agreement with a relative percent difference (RPD) of four percent or less between the primary and duplicate samples.

Based on a review of the laboratory procedures reported and results obtained during the reporting period, it is concluded that acceptable QA/QC procedures were exercised and the water quality samples collected during the reporting period appear to be representative of the water quality at the site.

4. Data Analysis

4.1 Statistical Data Analysis

In response to the Code of Federal Regulations, Title 40, Part 258 (40 CFR 258) and California Code of Regulations (CCR) Title 27, Section 20415 requirements, data obtained during the current semiannual monitoring period were statistically analyzed using the tolerance limit method. A discussion of the statistical analyses performed for the NWMF is presented below.

Tolerance limits (TLs) were calculated following protocols outlined in "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance" [United States Environmental Protection Agency (USEPA), 1992]. Following this protocol, the upper 95 percent TLs were calculated for each analyte that had been detected with sufficient frequency.

For TL analysis, the mean (X) and standard deviation (S) are calculated for background data and a multiplier (K) is specified at the 95 percent confidence level. TLs were calculated using the following formula:

$$L = X + KS$$

The multiplier (K) is calculated using the following formula:

$$K=t_{n-1,1-B}(1+1/n)^{1/2}$$

Where:
K = the K multiplier
t = the Student's T-test value for n-1 (degrees of freedom) and 1-B (percent coverage)
n = the number of observations

TL calculation tables are provided in Appendix B of the County of Imperial, Semiannual (October 2014 Through March 2015) and Annual 2015 Water Quality Monitoring Report (GLA, 2015).

Since VOCs and have been detected in less than 10 percent of the background samples, VOCs in groundwater at the NWMF are analyzed using the California Non-Statistical Data Analysis Method (CNSDAM) as required by Resolution No. 93-62 of the State Water Resources Control Board. The non-statistical CNSDAM analysis reports a CNSDAM "hit" if the laboratory reports one quantified VOC detection, or two trace level VOC detections in a groundwater monitoring well during the sampling event.

The results of the statistical analyses are summarized in Section 5.3.2.

4.2 Water Quality Objectives

The analytical results obtained during the current monitoring period were also compared with WQOs (Section 5.3.3). State and Federal maximum contaminant levels (MCLs) are listed alongside current data on the comparison table (Table 5-6).

4.3 Time-Series Charts

Time-series charts were developed for analytes with sufficient data to develop meaningful trends using Microsoft Excel. If an analyte was not analyzed during a particular monitoring event (NA in the database), then a gap appears in the trend line during that period. Charts compare concentrations of one analyte measured in samples from background and compliance wells, with solid lines depicting compliance well data and dashed lines representing background well data. For those analytes that have a federally-established maximum contaminant level (MCL), that value is noted on the time-series graph. Times-series charts depicting groundwater elevations and constituent concentrations are presented as Figures 5-2 through 5-6.

5. Monitoring Results

The following sections present a summary of the groundwater flow and groundwater quality data obtained at the NWMF during the October 2023 through March 2024 semiannual monitoring period. A copy of this final report, depth to groundwater measurements, and laboratory analytical results were electronically submitted to the State Water Resources Control Board GeoTracker website.

5.1 Groundwater Monitoring Network

The DMP network at the NWMF consists of one historical background monitoring well and two historical compliance monitoring wells, and one piezometer, as shown on Figure 5-1 and summarized on the following table.

MONITORING POINT	MONITORING POINT I.D.
Groundwater Monitoring Well – Compliance	N-MW-2 N-MW-3
Groundwater Monitoring Well – Background	N-MW-1
Piezometer	N-DW-4

During the current semiannual monitoring period, groundwater levels were measured at all wells and the piezometer on February 21, 2024 and samples were collected from all wells on February 22, 2024.

5.2 Groundwater Elevations

Prior to purging and sampling, each well was sounded for groundwater depth using a weighted electronic sounder, and the static water level was recorded on a Well Data Sheet. The current and historical groundwater elevation data for the NWMF are summarized on Table 5-1.

The most current groundwater potentiometric-surface elevation data were used to generate the groundwater contour map presented on Figure 5-1. Groundwater equipotential lines developed using the current water levels are consistent with historical water level data for the site and indicate that groundwater flows to the southwest at a hydraulic gradient of 0.03 ft/ft. Using the current hydraulic gradient, estimated hydraulic conductivity (1.4 ft/day), and estimated effective porosity (0.35); a groundwater flow velocity of 0.12 ft/day is calculated for the NWMF.

5.3 October 2023 through March 2024 Analytical Results

5.3.1 General

Tables 5-2 through 5-5 summarize the analytical results for groundwater samples obtained during the current and past sampling events at the NWMF. Table 5-6 compares the chemistry of background and compliance wells reported during the current monitoring period.

5.3.2 Statistical Analysis of Water Quality Data

The calculation of tolerance limits is described in Section 4. The results of statistical analysis for the NWMF are summarized in Table 5-7. On the basis of the historical groundwater elevation data for the NWMF, well N-MW-1 represents an upgradient (background) well, and historical data from this well were used to calculate interwell tolerance limits (TLs) for comparison.

General Chemistry –During the monitoring period, TLs for chloride, nitrate as nitrogen (-N), and total dissolved solids (TDS) were exceeded at background well N-MW-1 (Table 5-7). These results suggest changes to groundwater conditions upgradient of the NWMF. Should these conditions continue, the TLs should be updated to account for increasing concentrations in background.

VOCs – Because very few VOCs have been previously detected in groundwater samples at the NWMF, the current database is insufficient for VOC statistical analysis. Therefore, the non-statistical CNSDAM was performed for samples collected from the NWMF. As shown on Table

5-6, no VOCs were detected during the current monitoring period, and as a result, no non-statistical VOC exceedances were identified in groundwater monitoring wells at the NWMF.

5.3.3 Water Quality Objectives

As summarized in Table 5-6, no constituent concentrations exceeded a Federal or State of California primary MCL during the current monitoring period.

5.3.4 Soil-Pore Gas Monitoring

Soil-pore gas monitoring results are reported under separate cover.

5.4 Run-On/Run-Off Control

Run-on/run-off control facilities have been designed to accommodate a 100-year, 24-hour storm event as required by CCR Title 27. Surface water run-off at the site occurs during and shortly after storm events. The surface water is diverted around the site by a series of earthen berms, channels, and v-ditches. Due to the porous nature of the native soils, storm water run-off quickly infiltrates the ground before leaving the site.

5.5 Summary

Aside from inorganic monitoring results at upgradient well N-MW-1, current monitoring results were generally consistent with historical results, no VOCs were detected, and no State or Federal primary MCLs were exceeded. TL's were exceeded for chloride, nitrate-N, and TDS at background well N-MW-1 during the monitoring period, suggesting changing background conditions. Should inorganic constituent concentrations continue to remain elevated in samples from the background well, the TLs should be updated to reflect changing groundwater conditions upgradient of the NWMF.

5.6 Annual Summary

During the last year, groundwater levels were measured and groundwater samples were collected on a semiannual basis at the NWMF. Historical groundwater elevations and analytical data are presented in tabular form in Tables 5-1 through 5-5 and digitally uploaded to Geotracker. Time-series plots depicting groundwater elevations and constituent concentrations for the NWMF are presented on Figures 5-2 through 5-6. No changes have been made to the groundwater monitoring systems over the past year.

Groundwater chemistry at the site is characterized by high concentrations of chloride and TDS. Review of the historical data from the site background and compliance wells suggests that high concentrations of inorganic constituents, particularly chloride and TDS, in the site monitoring wells are naturally occurring and not indicative of a release. Comparison of the groundwater chemistry data collected over the past year with the historical data generated for the NWMF indicates that with the exception of chloride, nitrate-N, and TDS concentrations measured during the current monitoring event in background well N-MW-1, water quality conditions within the groundwater monitoring wells were within historical ranges. No VOCs have been detected in any site well since 2002. Although long-term decreasing trends were noted for groundwater elevations at monitoring wells N-MW-2 and N-MW-3, water levels have generally stabilized and remain relatively static since 2018, while long-term groundwater elevations have remained relatively static at upgradient well N-MW-1 and piezometer N-DW-4. Slight long-term increasing trends are noted for chloride and TDS at background well N-MW-1.

References

Driscoll, F.G, 1986, "Groundwater and Wells", Second Edition: Johnson Division, St. Paul.

California Regional Water Quality Control Board – Colorado River Basin Region, 1993, "Order No. 93-071, Waste Discharge Requirement Amendment for All Municipal Solid Waste Landfills in this Region to Implement State Water Board Resolution No. 93-62 Adopted June 17, 1993, as State Policy for Water Quality Control Under Section 13140 of the Water Code".

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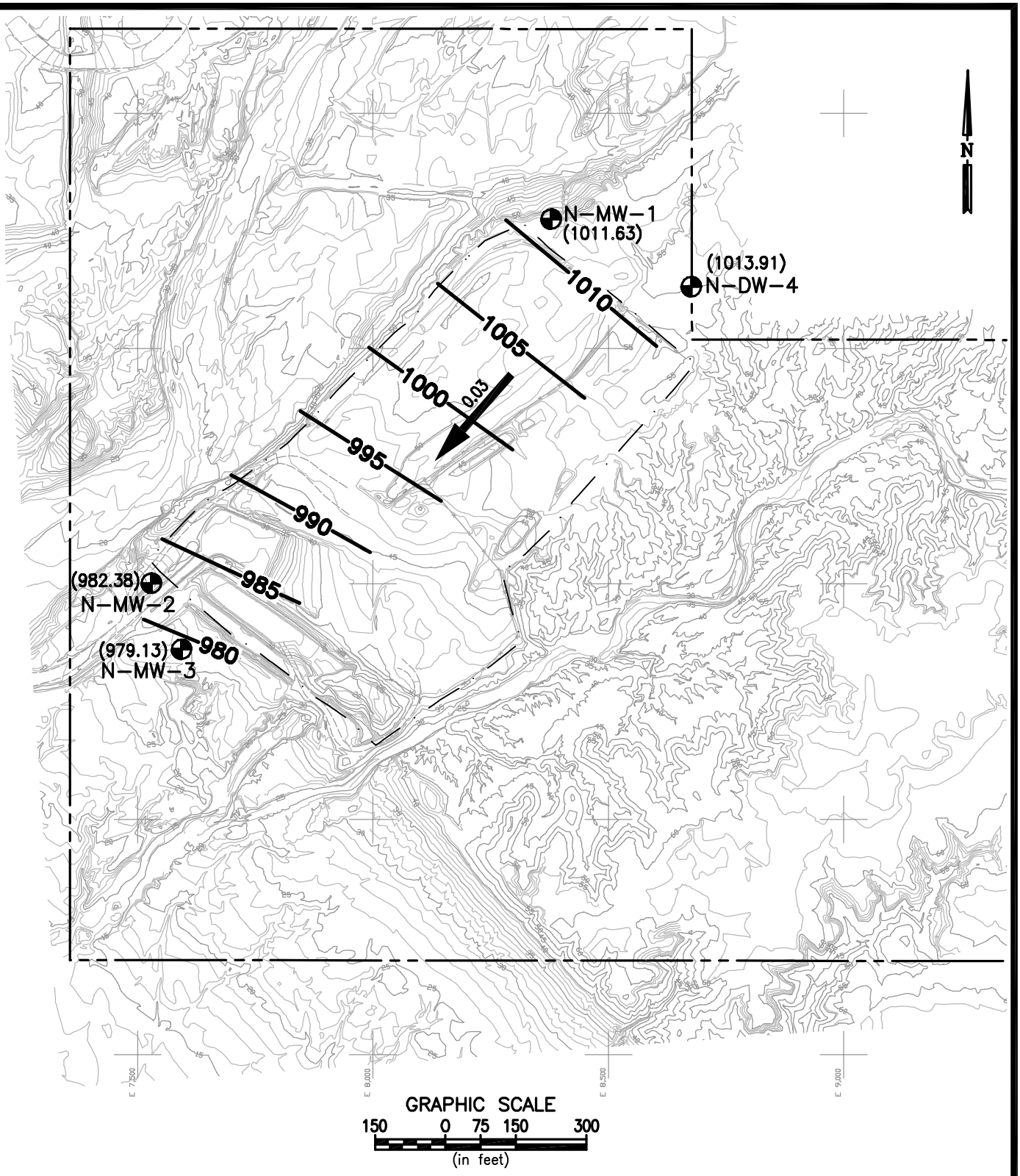
Geo-Logic Associates, 2015, "Semiannual (Winter 2014/Spring 2015) and Annual 2015 Water Quality Monitoring Report, Imperial County Solid Waste Landfills", April.

Geo-Logic Associates, 2020, "Workplan Groundwater Quality Monitoring Program, Imperial County Waste Management Facilities", March.

US Environmental Protection Agency, 1992, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance" [United States Environmental Protection Agency".

FIGURES



EXPLANATION:

N–MW–1 (1011.63) — GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL PLUS 1000 FEET)

GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 5 FEET)

0.03 — DIRECTION AND GRADIENT (ft/ft) OF GROUNDWATER FLOW

FIGURE 5–1

FEBRUARY 2024 GROUNDWATER CONTOURS

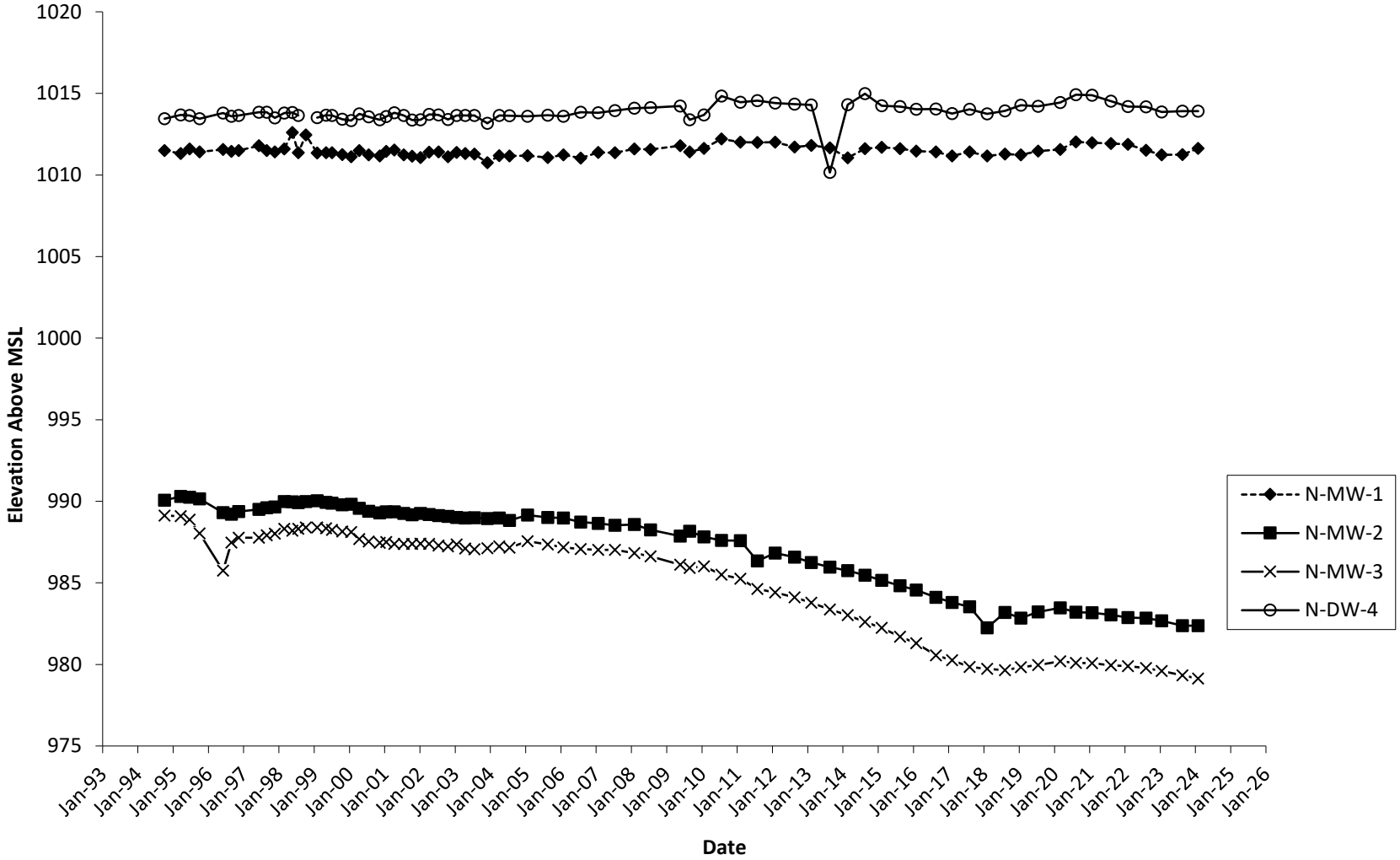
NILAND WASTE MANAGEMENT FACILITY
IMPERIAL COUNTY, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/WL	DATE: APRIL 2024	JOB NO. S020.1070

V:\Dwgs\2020\S0 1070–Imperial County\2024–1\niland.dwg

FIGURE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL GROUNDWATER ELEVATIONS



Note: Groundwater elevations in feet above Mean Sea Level + 1000 feet.

FIGURE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL CHLORIDE CONCENTRATIONS

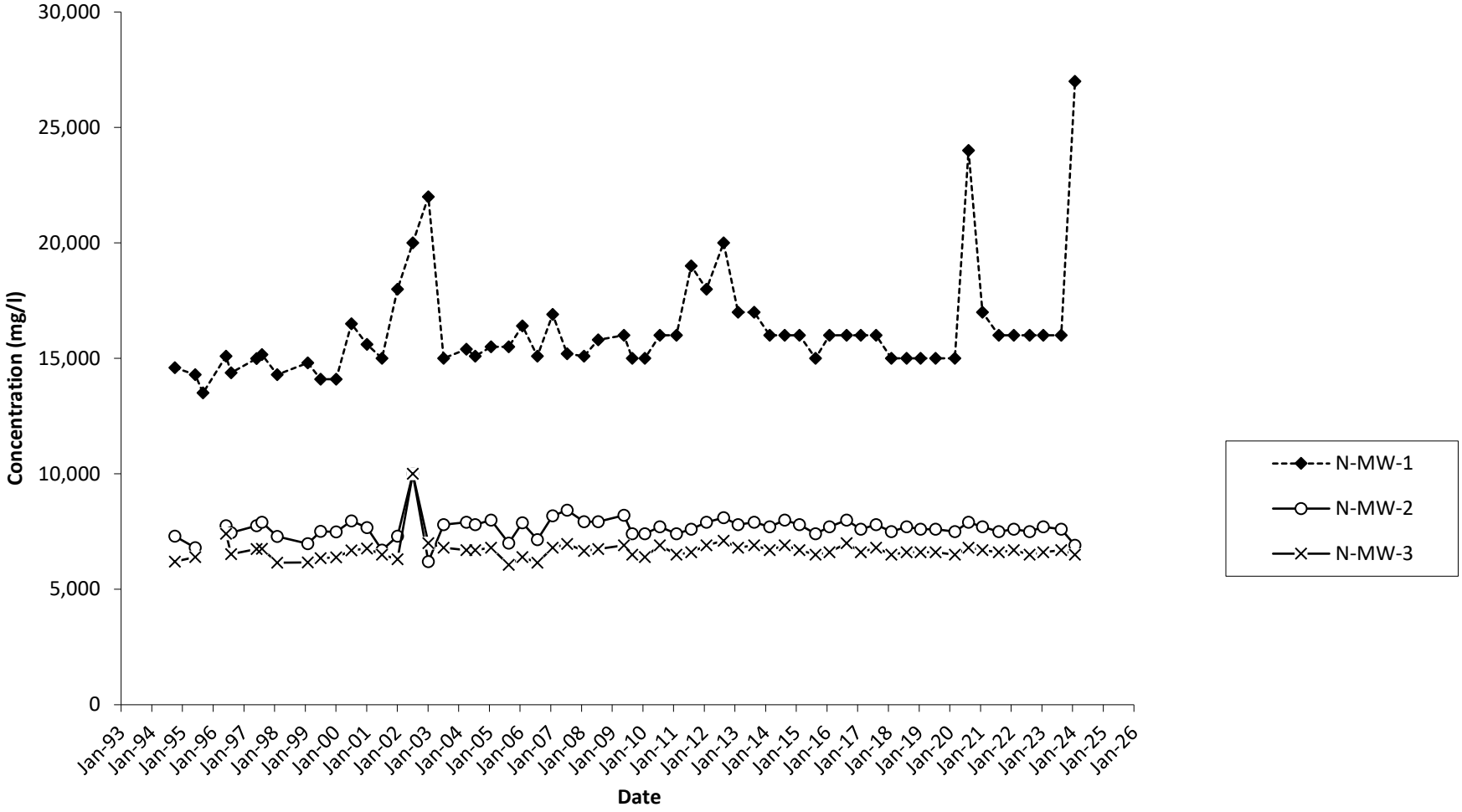
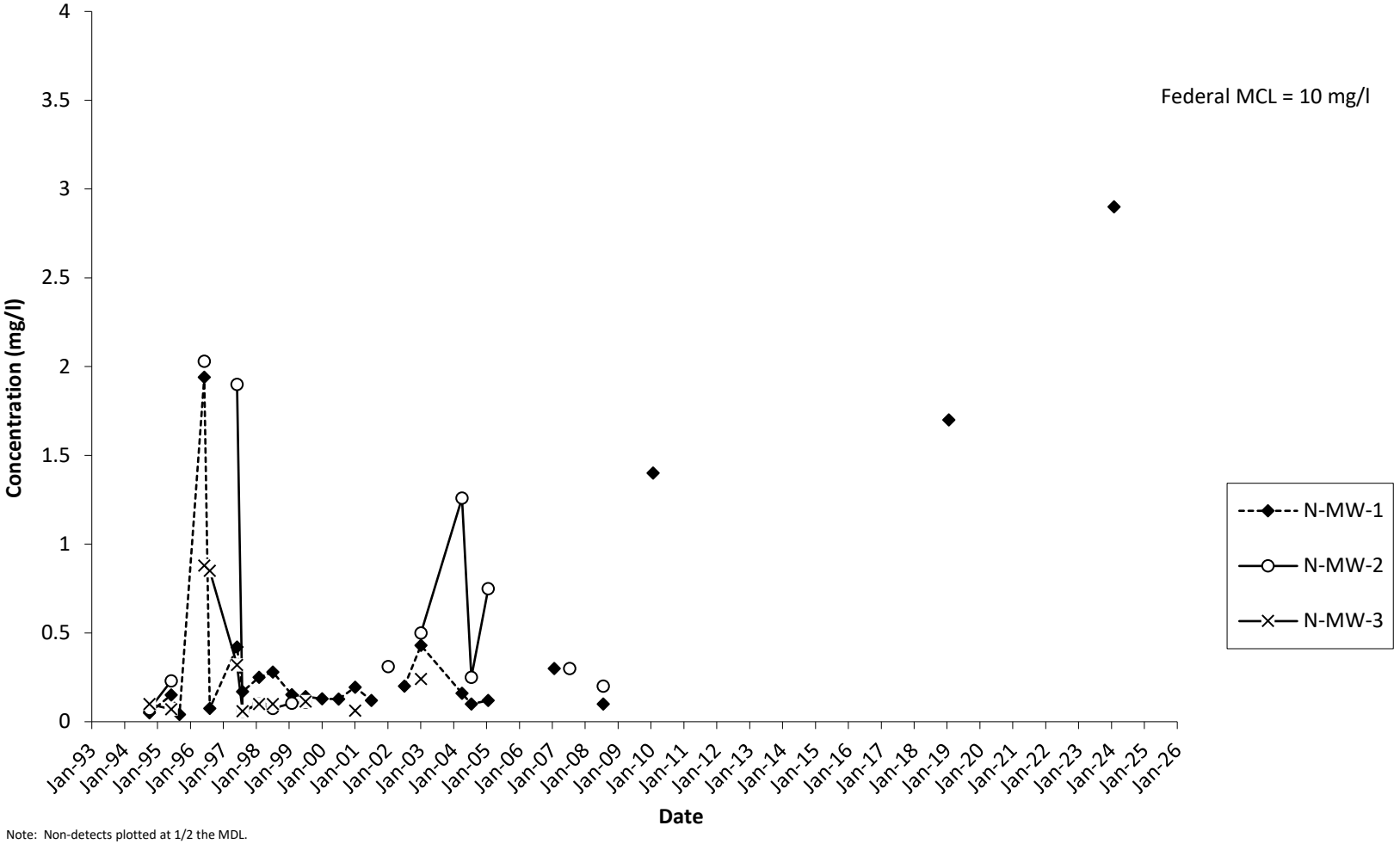


FIGURE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL NITRATE-N CONCENTRATIONS



Note: Non-detects plotted at 1/2 the MDL.

FIGURE 5-5
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL pH VALUES

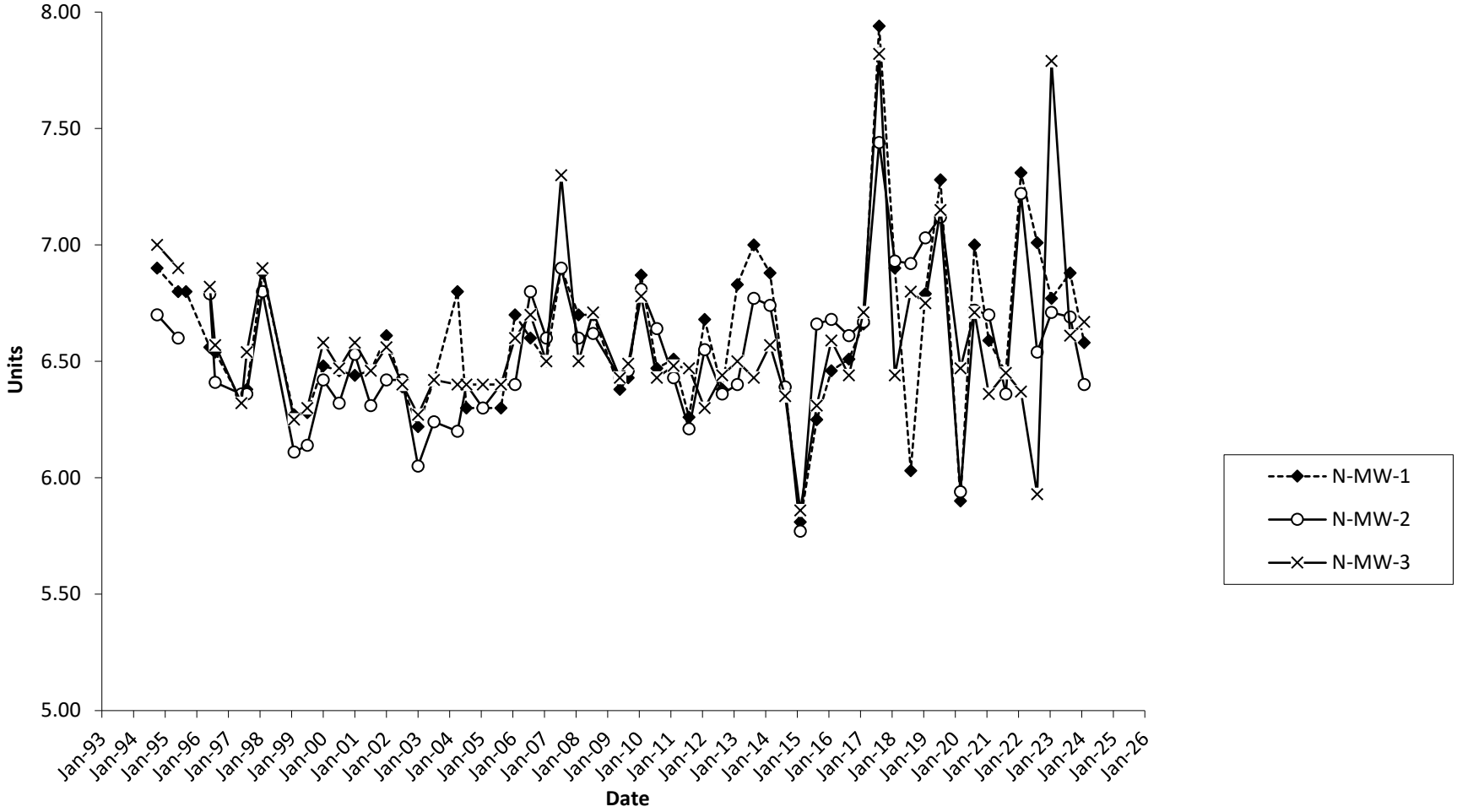
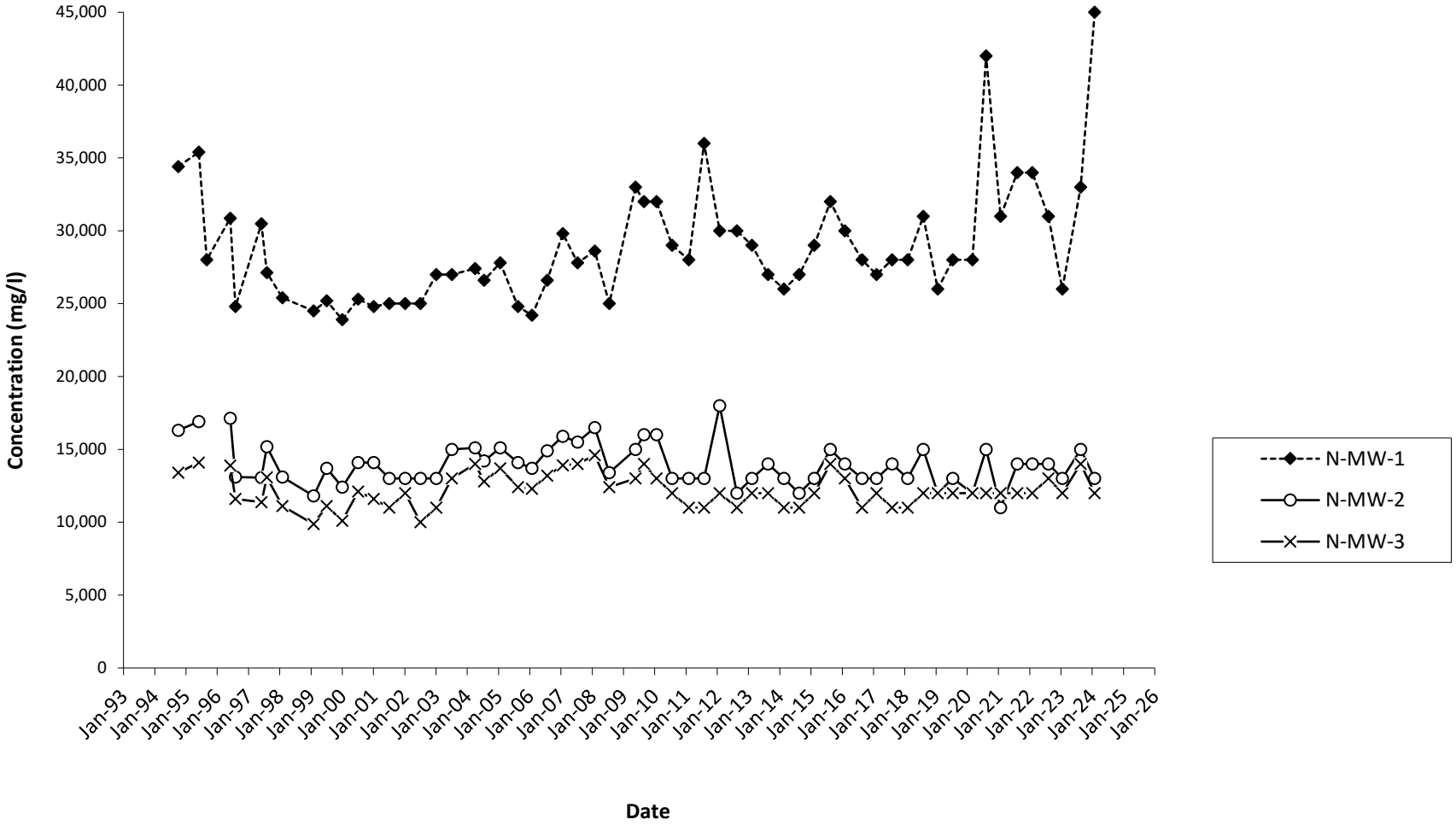


FIGURE 5-6
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL TOTAL DISSOLVED SOLIDS CONCENTRATIONS



TABLES

TABLE 2-1
ANALYTICAL METHODS
NILAND WASTE MANAGEMENT FACILITY

Parameter	EPA Test Method[1]
ROUTINE MONITORING PARAMETERS	
Chloride	300.0
Dissolved Oxygen	Field
Nitrate as Nitrogen	300.0
pH	Field
Specific Conductance	Field
Temperature	Field
Total Dissolved Solids	160.1
Turbidity	Field
Volatile Organics	8260B

Notes:
1. Test methods reported by Pace Analytical.

TABLE 3-1
BLANK ANALYSES
NILAND WASTE MANAGEMENT FACILITY

Primary Sampling Date	Blank Sampling Date	Blank Sample Collection Type	Lab Report I.D. Number	Detected VOC Constituents
2/22/24	2/22/24	Field Blank	2403423-05	None Detected
	2/22/24	Trip Blank	2403423-06	None Detected
		Method Blank	2403423	None Detected

Note: J - estimated-trace detection.

TABLE 3-2
GROUNDWATER DUPLICATE ANALYSES
NILAND WASTE MANAGEMENT FACILITY

ANALYTE	N-MW-1 2/22/24	DUPLICATE 2/22/24	RPD %
GENERAL CHEMISTRY (mg/l):			
Chloride	27,000	26,000	4
Nitrate as N	**2.9**	**2.9**	NA
Total Dissolved Solids	45,000	46,000	2
VOLATILE ORGANIC COMPOUNDS: None Detected			

Indicates analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).

TABLE 5-1
SITE MONITORING WELL INFORMATION
NILAND WASTE MANAGEMENT FACILITY

WELL INFORMATION	WELL NUMBER			
	N-MW-1	N-MW-2	N-MW-3	N-DW-4
Elevation of well* (ft MSL):				
Top of well casing	1055.34	1032.21	1031.37	1057.95
Total depth of well (ft): at installation	52.9	67.3	69.4	52.2
Depth of screened interval	40-50	54.5-64.5	53-67.5	40-50
Depth to water from top of well casing (ft):				
2/28/08	43.74	43.64	44.55	43.85
8/14/08	43.78	43.96	44.75	43.83
6/17/09	43.54	44.34	45.25	43.73
9/23/09	43.92	44.05	45.45	44.56
2/18/10	43.71	44.39	45.36	44.27
8/18/10	43.14	44.61	45.87	43.11
3/2/11	43.33	44.62	46.12	43.49
8/24/11	43.34	45.87	46.75	43.40
2/23/12	43.33	45.39	46.96	43.54
9/12/12	43.63	45.63	47.26	43.61
3/5/13	43.53	45.96	47.59	43.65
9/12/13	43.68	46.24	48.00	47.80
3/17/14	44.29	46.46	48.35	43.64
9/10/14	43.72	46.75	48.77	42.97
3/3/15	43.64	47.06	49.12	43.71
9/9/15	43.73	47.39	49.67	43.76
2/24/16	43.87	47.65	50.07	43.93
9/14/16	43.93	48.09	50.81	43.91
3/2/17	44.18	48.41	51.11	44.19
8/30/17	43.92	48.68	51.53	43.92
2/28/18	44.18	49.96	51.64	44.21
8/30/18	44.05	49.03	51.73	44.03
2/12/19	44.10	49.37	51.54	43.67
8/8/19	43.87	48.99	51.41	43.74
3/25/20	43.77	48.75	51.17	43.51
9/3/20	43.31	49.00	51.27	43.03
2/17/21	43.36	49.04	51.29	43.07
8/31/21	43.41	49.18	51.42	43.42
2/24/22	43.47	49.33	51.47	43.75
8/30/22	43.83	49.37	51.59	43.78
2/8/23	44.10	49.53	51.78	44.09
9/11/23	44.09	49.84	52.04	44.04
2/21/24	43.71	49.83	52.24	44.04
Elevation of water surface * (ft MSL):				
2/28/08	1011.60	988.57	986.82	1014.10
8/14/08	1011.56	988.25	986.62	1014.12
6/17/09	1011.80	987.87	986.12	1014.22
9/23/09	1011.42	988.16	985.92	1013.39
2/18/10	1011.63	987.82	986.01	1013.68
8/18/10	1012.20	987.60	985.50	1014.84
3/2/11	1012.01	987.59	985.25	1014.46
8/24/11	1012.00	986.34	984.62	1014.55
2/23/12	1012.01	986.82	984.41	1014.41
9/12/12	1011.71	986.58	984.11	1014.34
3/5/13	1011.81	986.25	983.78	1014.30
9/12/13	1011.66	985.97	983.37	1010.15
3/17/14	1011.05	985.75	983.02	1014.31
9/10/14	1011.62	985.46	982.60	1014.98
3/3/15	1011.70	985.15	982.25	1014.24
9/9/15	1011.61	984.82	981.70	1014.19
2/24/16	1011.47	984.56	981.30	1014.02
9/14/16	1011.41	984.12	980.56	1014.04
3/2/17	1011.16	983.80	980.26	1013.76
8/30/17	1011.42	983.53	979.84	1014.03
2/28/18	1011.16	982.25	979.73	1013.74
8/30/18	1011.29	983.18	979.64	1013.92
2/12/19	1011.24	982.84	979.83	1014.28
8/8/19	1011.47	983.22	979.96	1014.21
3/25/20	1011.57	983.46	980.20	1014.44
9/3/20	1012.03	983.21	980.10	1014.92
2/17/21	1011.98	983.17	980.08	1014.88
8/31/21	1011.93	983.03	979.95	1014.53
2/24/22	1011.87	982.88	979.90	1014.20
8/30/22	1011.51	982.84	979.78	1014.17
2/8/23	1011.24	982.68	979.59	1013.86
9/11/23	1011.25	982.37	979.33	1013.91
2/21/24	1011.63	982.38	979.13	1013.91

NOTES:
*Elevation datum is Mean Sea Level plus 1000 feet.
- No measurement.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1

ANALYTE	UNIT	Nov 1994	Nov 1994	Nov 1994	Jul 1995	Jul 1995	Oct 1995	Jul 1996	Jul 1996	Sept 1996
GENERAL CHEMISTRY										
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	14,600	14,200	NA	14,300	13,700	13,500	15,100	15,250	14,371
Cyanide	mg/l	0.02	NA	NA	0.02	NA	0.02	0.03	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.05	0.09	NA	0.15	0.15	0.04	1.94	1.94	**0.075**
pH	units	6.9	7.0	NA	6.8	6.9	6.8	6.56	6.75	6.54
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	24,385	24,909	NA
Sulfate	mg/l	760	730	NA	780	830	700	863	846	750
Sulfide	mg/l	1	NA	NA	1	NA	1	0.04	NA	NA
Total Dissolved Solids	mg/l	34,400	33,100	NA	35,400	34,900	28,000	30,866	28,686	24,800
METALS										
Antimony	mg/l	NA	NA	NA	NA	NA	NA	0.005	NA	NA
Arsenic	mg/l	0.023	NA	NA	0.034	NA	0.021	0.002	NA	NA
Barium	mg/l	0.47	NA	NA	0.15	NA	0.15	0.1	NA	NA
Beryllium	mg/l	0.02	NA	NA	0.02	NA	0.02	0.0005	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	0.02	NA	NA	0.02	NA	0.02	**0.00022**	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	0.02	NA	NA	0.02	NA	0.02	0.006	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	0.05	NA	NA	0.05	NA	0.05	0.0084	NA	NA
Copper	mg/l	0.06	NA	NA	0.04	NA	0.04	0.096	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	0.005	NA	NA	0.002	NA	0.002	**0.0014**	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	0.0005	NA	NA	0.0002	NA	0.0002	0.0002	NA	NA
Nickel	mg/l	0.05	NA	NA	0.05	NA	0.05	0.042	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.005	NA	NA	0.025	NA	0.005	0.004	NA	NA
Silver	mg/l	0.02	NA	NA	0.02	NA	0.02	0.003	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	0.2	NA	NA	0.2	NA	0.2	0.367	NA	NA
Tin	mg/l	0.1	NA	NA	0.1	NA	0.1	0.58	NA	NA
Vanadium	mg/l	0.05	NA	NA	0.05	NA	0.05	0.182	NA	NA
Zinc	mg/l	0.08	NA	NA	0.05	NA	0.05	0.056	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS										
Chloromethane	µg/l	ND	NA	NA	ND	NA	ND	ND	NA	ND
Methylene Chloride	µg/l	1	NA	NA	1	NA	1	0.2	NA	0.2
Naphthalene	µg/l	ND	NA	NA	ND	NA	ND	ND	NA	ND
Toluene	µg/l	1	NA	NA	1	NA	1	0.7(a)	NA	0.3
SEMI-VOLATILE ORGANICS										
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	130(a)	10	NA	10	0.8	NA	NA
HERBICIDES, PESTICIDES, & PCBs										
Endosulfan I	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL). Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.
(a) Suspected laboratory/field contaminant.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Sept 1996	Jul 1997	Jul 1997	Sept 1997	Sept 1997	Mar 1998	Aug 1998	Mar 1999	Aug 1999
GENERAL CHEMISTRY										
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	14,371	14,995	14,995	15,170	14,895	14,300	15,400	14,800	14,100
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	**0.093**	0.42	0.64	0.17	**0.09**	0.25	0.28	0.153	0.142
pH	units	6.81	6.33	6.31	6.38	6.44	6.88	6.62	6.27	6.28
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	19,990	46,880
Sulfate	mg/l	738	504	471	751	744	619	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	25,000	30,482	24,380	27,136	27,614	25,400	27,400	24,500	25,200
METALS										
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS										
Chloromethane	µg/l	NA	ND	NA	ND	NA	ND	ND	**0.111(a)**	0.14
Methylene Chloride	µg/l	NA	0.2	NA	0.2	NA	**0.30***	0.08	0.35	0.06
Naphthalene	µg/l	NA	ND	NA	ND	NA	ND	ND	ND	0.10
Toluene	µg/l	NA	0.3	NA	0.3	NA	0.07	0.07	0.05	0.07
SEMI-VOLATILE ORGANICS										
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs										
Endosulfan I	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.
* Analyte also found in blank(s).
(a) Suspected laboratory/field contaminant.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Feb 2000	Aug 2000	Feb 2001	Aug 2001	Feb 2002	Aug 2002	Feb 2003	Aug 2003	Apr 2004
GENERAL CHEMISTRY										
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	650	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	20.0	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	14,100	16,500	15,600	15,000	18,000	20,000	22,000	15,000	15,400
Cyanide	mg/l	NA	NA	0.0100	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	20.0	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.129	0.128	0.194	0.12	0.20	0.20	0.43	0.20	**0.160**
pH	units	6.48	6.46	6.44	6.46	6.61	6.39	6.22	6.42	6.8
Specific Conductance	mmhos/cm	49,480	44,520	41,960	39,080	42,200	37,020	33,440	35,580	35,000
Sulfate	mg/l	NA	NA	838	NA	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	0.500	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	23,900	25,300	24,800	25,000	25,000	25,000	27,000	27,000	27,400
METALS										
Antimony	mg/l	NA	NA	0.060	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	0.100	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	0.114	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	0.001	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	0.010	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	0.010	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	0.007	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	0.0434	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	0.075	NA	NA	NA	NA	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	0.0002	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	0.030	NA	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	0.100	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	0.007	NA	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	0.100	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	0.250	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	0.010	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	0.020	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS										
Chloromethane	µg/l	0.14	0.14	0.14	**0.24**	0.50	0.50	0.14	0.36	0.14
Methylene Chloride	µg/l	**0.109(a)**	0.06	0.06	0.06	0.50	**0.30(a)**	0.16	0.14	0.05
Naphthalene	µg/l	0.10	0.10	0.10	0.10	ND	**0.49**	0.078	0.049	NA
Toluene	µg/l	0.07	0.07	0.07	0.07	0.30	0.30	0.11	0.13	0.07
SEMI-VOLATILE ORGANICS										
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	0.010	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs										
Endosulfan I	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.
(a) Suspected laboratory/field contaminant.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Aug 2004	Feb 2005	Sep 2005	Feb 2006	Aug 2006	Nov [R] 2006	Nov [R] 2006	Feb 2007	Aug 2007	Feb 2008
GENERAL CHEMISTRY											
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	1.0	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	15,100	15,500	15,500	16,400	15,100	NA	NA	16,900	15,200	15,100
Cyanide	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	**0.100**	**0.120**	0.10	0.10	0.10	NA	NA	**0.300**	0.10	0.10
pH	units	6.3	6.3	6.3	6.7	6.6	6.6	NA	6.5	6.9	6.7
Specific Conductance	mmhos/cm	44,000	40,000	19,000	39,000	36,000	22,000	NA	26,000	23,000	46,000
Sulfate	mg/l	NA	NA	NA	NA	780	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	26,600	27,800	24,800	24,200	26,600	NA	NA	29,800	27,800	28,600
METALS											
Antimony	mg/l	NA	NA	NA	NA	0.05	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	0.05	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	0.068	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	**0.030**	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	0.05	NA	NA	NA	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	0.001	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	0.05	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	0.01	NA	NA	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	0.05	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	0.30	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	0.03	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	0.073	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Chloromethane	µg/l	0.14	0.14	0.14	0.14	0.14	NA	NA	0.14	0.14	0.14
Methylene Chloride	µg/l	0.05	0.05	0.05	0.05	0.05	NA	NA	0.05	0.05	0.05
Naphthalene	µg/l	0.05	0.05	0.05	0.05	0.05	NA	NA	0.05	0.05	0.05
Toluene	µg/l	0.07	0.07	0.07	0.07	0.07	NA	NA	0.07	0.07	0.07
SEMI-VOLATILE ORGANICS											
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	NA	NA	5	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs											
Endosulfan I	µg/l	NA	NA	NA	NA	0.256	0.05	0.05	NA	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
[R] Retest.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Aug 2008	Jun 2009	Sep 2009	Feb 2010	Aug 2010	Mar 2011	Aug 2011	Feb 2012	Sep 2012	Mar 2013
GENERAL CHEMISTRY											
Alkalinity, Total	mg/l	660	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	660	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	2.0	NA	NA	NA	NA	5.0	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	635	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	15,800	16,000	15,000	15,000	16,000	16,000	19,000	18,000	20,000	17,000
Cyanide	mg/l	0.01	NA	NA	NA	NA	0.0016	NA	NA	NA	NA
Fluoride	mg/l	1.40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	9800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	16.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	**0.100**	0.026	0.52	**1.4**	0.70	0.70	1.0	1.0	1.0	1.0
pH	units	6.7	6.38	6.43	6.87	6.47	6.51	6.26	6.68	6.38	6.83
Specific Conductance	mmhos/cm	41,300	40,200	39,200	41,700	38,000	45,800	46,000	50,200	50,200	39,200
Sulfate	mg/l	NA	NA	NA	NA	NA	750	NA	NA	980	NA
Sulfide	mg/l	0.01	NA	NA	NA	NA	0.17	NA	NA	NA	NA
Total Dissolved Solids	mg/l	25,000	33,000	32,000	32,000	29,000	28,000	36,000	30,000	30,000	29,000
METALS											
Antimony	mg/l	0.05	NA	NA	NA	NA	0.065	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	0.049	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	0.340	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	0.0050	NA	NA	NA	NA
Boron	mg/l	4.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	0.0050	NA	NA	NA	NA
Calcium	mg/l	930	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	**0.020**	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	0.025	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	0.100	NA	NA	NA	NA
Iron	mg/l	14.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	**0.062**	NA	NA	NA	NA
Magnesium	mg/l	1720	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	0.433	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	**0.000092**	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	**0.0081**	NA	NA	NA	NA
Potassium	mg/l	169	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	0.075	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	**0.0092**	NA	NA	NA	NA
Sodium	mg/l	4980	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	0.085	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	0.035	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	**0.022**	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	**0.078**	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Chloromethane	µg/l	0.14	0.20	0.20	0.11	0.14	0.14	0.14	0.14	0.14	0.14
Methylene Chloride	µg/l	0.05	0.27	0.28	0.28	0.48	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.05	0.30	0.30	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Toluene	µg/l	0.07	0.12	0.12	0.093	0.093	0.093	0.093	0.093	0.093	0.093
SEMI-VOLATILE ORGANICS											
bis(2-ethylhexyl) phthalate	µg/l	5	NA	NA	NA	NA	3.0	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs											
Endosulfan I	µg/l	0.10	NA	NA	NA	NA	0.0016	NA	NA	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Sep 2013	Mar 2014	Sep 2014	Mar 2015	Sep 2015	Feb 2016	Sep 2016	Mar 2017	Aug 2017
GENERAL CHEMISTRY										
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	5.0	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	17,000	16,000	16,000	16,000	15,000	16,000	16,000	16,000	16,000
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	0.0031	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	2.5	1.2	1.2	0.90	0.90	2.2	2.2	1.1	2.1
pH	units	7.00	6.88	6.39	5.81	6.25	6.46	6.51	6.66	7.94
Specific Conductance	mmhos/cm	43,600	41,600	42,600	59,100	42,000	37,200	49,700	54,200	53,700
Sulfate	mg/l	NA	NA	NA	NA	NA	700	NA	690	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Total Dissolved Solids	mg/l	27,000	26,000	27,000	29,000	32,000	30,000	28,000	27,000	28,000
METALS										
Antimony	mg/l	NA	NA	NA	NA	NA	NA	0.085	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	0.078	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	0.230	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	0.005	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	0.011	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	0.011	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	0.013	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	**0.078(a)**	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	0.04	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	**.000095(a)**	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	0.02	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	0.15	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	0.019	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	0.24	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	0.067	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	0.022	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	**0.057**	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS										
Chloromethane	µg/l	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.36	0.36	0.36	0.36	NA	0.36	0.36	0.36	0.36
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
SEMI-VOLATILE ORGANICS										
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	NA	NA	NA	NA	0.67	NA	NA
HERBICIDES, PESTICIDES, & PCBs										
Endosulfan I	µg/l	NA	NA	NA	NA	NA	NA	0.0027	NA	NA

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

ANALYTE	UNIT	Feb 2018	Aug 2018	Feb 2019	Aug 2019	Mar 2020	Sept 2020	Feb 2021	Aug 2021	Feb 2022	Aug 2022
GENERAL CHEMISTRY											
Alkalinity, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	15,000	15,000	15,000	15,000	15,000	24,000	17,000	16,000	16,000	16,000
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	0.0017	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	2.1	1.0	**1.7**	2.1	1.2	1.2	1.2	1.2	1.2	1.2
pH	units	6.90	6.03	6.79	7.28	5.90	7.00	6.59	6.45	7.31	7.01
Specific Conductance	mmhos/cm	39,600	38,700	37,700	39,300	37,700	52,500	41,400	40,400	42,300	38,800
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	0.050	NA	NA	NA
Total Dissolved Solids	mg/l	28,000	31,000	26,000	28,000	28,000	42,000	31,000	34,000	34,000	31,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	0.085	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	**0.091**	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	**0.086**	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	0.0050	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	7.600	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	**0.013**	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	0.011	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	0.000020	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	0.013	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	2.200	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	**0.096**	NA	NA	NA
Magnesium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	0.640	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	0.000022	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	0.020	NA	NA	NA
Potassium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	0.150	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	0.019	NA	NA	NA
Sodium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	0.240	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	0.067	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	0.022	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	**0.030**	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Chloromethane	µg/l	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
SEMI-VOLATILE ORGANICS											
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	NA	NA	NA	NA	0.20	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs											
Endosulfan I	µg/l	NA	NA	NA	NA	NA	NA	0.31	NA	NA	NA

NOTES:

NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL). Value listed is MDL or estimated trace concentration (BOLDED).

NC No calculation performed. Requires a minimum of three data entries.

(a) Suspected laboratory/field contaminant.

TABLE 5-2
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-1 (CONT'D)

ANALYTE	UNIT	Feb 2023	Sept 2023	Feb 2024	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY									
Alkalinity, Total	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Carbonate Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chemical Oxygen Demand	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	16,000	16,000	27,000	15450	16049.20	2254.36	13500	27000
Cyanide	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Fluoride	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Hardness	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Hydroxide Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Phosphate	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Nitrate as N	mg/l	1.2	1.2	**2.9**	0.16	0.48	0.72	0.04	2.9
pH	units	6.77	6.88	6.58	6.58	6.61	0.33	5.81	7.94
Specific Conductance	mmhos/cm	38,600	37,200	59,100	40200	40533.09	8505.34	19000	59100
Sulfate	mg/l	NA	NA	NA	750	741.20	115.64	471	980
Sulfide	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Total Dissolved Solids	mg/l	26,000	33,000	45,000	28000	28922.18	4056.31	23900	45000
METALS									
Antimony	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	0.03	0.04	0.03	0.021	0.091
Barium	mg/l	NA	NA	NA	0.15	0.20	0.14	0.068	0.47
Beryllium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Boron	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Calcium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chromium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chromium, Hexavalent	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	0.04	0.06	0.03	0.03	0.1
Iron	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	0.03	0.04	0.05	0.0014	0.096
Magnesium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Manganese	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Potassium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Sodium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Thallium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Tin	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	0.07	0.06	0.02	0.03	0.08
VOLATILE ORGANICS/PURGEABLE ORGANICS									
Chloromethane	µg/l	0.14	0.14	0.14	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.48	0.48	0.48	NC	NC	NC	NC	NC
Naphthalene	µg/l	0.36	0.36	0.36	NC	NC	NC	NC	NC
Toluene	µg/l	0.093	0.093	0.093	NC	NC	NC	NC	NC
SEMI-VOLATILE ORGANICS									
bis(2-ethylhexyl) phthalate	µg/l	NA	NA	NA	NC	NC	NC	NC	NC
HERBICIDES, PESTICIDES, & PCBs									
Endosulfan I	µg/l	NA	NA	NA	NC	NC	NC	NC	NC

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
(a) Suspected laboratory/field contaminant.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2

ANALYTE	UNIT	Nov 1994	Nov 1994	Nov 1994	Nov 1994	Jul 1995	Jul 1995	Jul 1995	Jul 1995	Jul 1996	Jul 1996
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	7300	7200	7100	7300	6800	7400	6500	6800	7750	7900
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.03	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.07	0.07	1.3	0.06	0.15	0.23	0.15	0.15	2.03	2.03
pH	units	6.7	6.8	6.6	6.8	6.6	6.7	6.7	6.8	6.79	6.63
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	16,083	16,083
Sulfate	mg/l	200	190	220	180	200	190	200	190	230	204
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.04	NA
Total Dissolved Solids	mg/l	16,300	16,200	13,400	16,000	16,900	16,900	17,900	17,500	17,128	16,692
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.005	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.028	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.1	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0005	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.00019**	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.005	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.0018**	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.018	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.0013**	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0002	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.031	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.004	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.003	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.309	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.83	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.114	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.036	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.2	NA
Acetone	µg/l	1	NA	NA	NA	2.0*	NA	NA	NA	1.2	NA
Methylene Chloride	µg/l	1	NA	NA	NA	1	NA	NA	NA	0.2	NA
Naphthalene	µg/l	10	NA	NA	NA	2	NA	NA	NA	0.4	NA
Toluene	µg/l	1	NA	NA	NA	1	NA	NA	NA	0.3	NA
Total Xylenes	µg/l	1	NA	NA	NA	1	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS:											
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
* Analyte also found in blank(s).

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Jul 1996	Jul 1996	Sept 1996	Sept 1996	Sept 1996	Sept 1996	Jul 1997	Jul 1997	Jul 1997	Jul 1997
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	8000	7800	7448	7448	7448	7448	7748	7748	7748	7748
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	2.03	2.03	0.06	0.06	0.06	1.14	1.9	1.9	1.8	1.7
pH	units	6.68	6.70	6.41	6.44	6.19	6.46	6.36	6.38	6.31	6.29
Specific Conductance	mmhos/cm	16,213	16,083	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	210	217	168	173	179	179	126	127	127	127
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	17,212	17,456	13,100	13,000	12,800	13,000	13,068	13,434	13,094	13,040
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	NA	NA	0.2	NA	NA	NA	0.2	NA	NA	NA
Acetone	µg/l	NA	NA	1.2	NA	NA	NA	1.2	NA	NA	NA
Methylene Chloride	µg/l	NA	NA	0.2	NA	NA	NA	0.2	NA	NA	NA
Naphthalene	µg/l	NA	NA	0.4	NA	NA	NA	0.4	NA	NA	NA
Toluene	µg/l	NA	NA	0.3	NA	NA	NA	**0.42(a)**	NA	NA	NA
Total Xylenes	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
(a) Suspected laboratory/field contaminant.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Sept 1997	Sept 1997	Sept 1997	Sept 1997	Mar 1998	Jun** 1998	Jun** 1998	Aug 1998	Mar 1999	Aug 1999
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	7898	7898	7898	7898	7290	NA	NA	7930	6970	7510
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	**0.06**	0.29	0.48	0.31	0.10	NA	NA	**0.075**	0.105	0.111
pH	units	6.36	6.6	6.54	6.54	6.80	NA	NA	6.49	6.11	6.14
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	19,990	22,700
Sulfate	mg/l	176	174	168	171	133	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	15,174	15,360	15,418	15,346	13,100	NA	NA	12,800	11,800	13,700
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	0.2	NA	NA	NA	**0.47**	0.06	0.06	0.06	0.06	0.11
Acetone	µg/l	1.2	NA	NA	NA	5.75	5.75	5.75	5.75	**1.00(a)**	1.79
Methylene Chloride	µg/l	0.2	NA	NA	NA	**0.30***	0.08	0.08	0.08	0.35	0.03
Naphthalene	µg/l	0.4	NA	NA	NA	**0.17**	0.11	0.11	0.11	0.32	0.10
Toluene	µg/l	0.3	NA	NA	NA	**0.20**	0.07	0.07	0.07	0.05	0.07
Total Xylenes	µg/l	NA	NA	NA	NA	**0.71**	0.13	0.13	0.13	0.09	0.21
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
* Analyte also found in blank(s).
** Retest.
(a) Suspected laboratory/field contaminant.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Aug 1999	Feb 2000	Aug 2000	Aug 2000	Feb 2001	Aug 2001	Aug 2001	Feb 2002	Aug 2002	Aug 2002
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	990	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA
Chloride	mg/l	7330	7490	7960	7910	7670	6700	7100	7300	10,000	10,000
Cyanide	mg/l	NA	NA	NA	NA	0.0100	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.0559	0.050	0.050	0.050	0.050	0.050	0.050	0.31	0.20	0.20
pH	units	NA	6.42	6.32	NA	6.53	6.31	NA	6.42	6.42	NA
Specific Conductance	mmhos/cm	NA	22,760	22,360	NA	19,050	17,570	NA	19,560	18,410	NA
Sulfate	mg/l	NA	NA	NA	NA	200	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	0.500	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	13,100	12,400	14,100	13,800	14,100	13,000	13,000	13,000	13,000	12,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	0.060	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	0.111	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	0.304	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	0.001	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	0.007	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	0.075	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	0.0002	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	0.030	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	0.100	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	0.007	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	0.100	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	0.250	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	0.020	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	NA	0.11	0.11	NA	0.11	0.11	NA	0.50	0.50	NA
Acetone	µg/l	NA	1.79	1.79	NA	1.79	1.8	NA	5.0	5.0	NA
Methylene Chloride	µg/l	NA	**0.147(a)**	0.06	NA	0.06	0.06	NA	0.50	0.50	NA
Naphthalene	µg/l	NA	0.10	0.10	NA	0.10	0.10	NA	0.50	0.50	NA
Toluene	µg/l	NA	0.07	0.07	NA	0.07	0.07	NA	0.30	0.30	NA
Total Xylenes	µg/l	NA	0.21	0.21	NA	0.21	0.21	NA	0.50	0.50	NA
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
(a) Suspected laboratory/field contaminant.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Feb 2003	Aug 2003	Apr 2004	Aug 2004	Feb 2005	Sep 2005	Feb 2006	Aug 2006	Feb 2007	Aug 2007
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	1.0	NA	NA
Chloride	mg/l	6200	7800	7900	7800	8000	7000	7880	7150	8180	8430
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.50	0.20	1.26	**0.250**	0.750	0.10	0.10	0.10	0.10	**0.300**
pH	units	6.05	6.24	6.2	6.4	6.3	6.4	6.4	6.8	6.6	6.9
Specific Conductance	mmhos/cm	16,530	16,590	25,000	25,000	23,000	23,000	24,000	24,000	15,000	13,000
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	187	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Total Dissolved Solids	mg/l	13,000	15,000	15,100	14,200	15,100	14,100	13,700	14,900	15,900	15,500
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.186	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	**0.023**	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	0.001	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	0.30	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.03	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	0.064	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	0.099	0.12	NA	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acetone	µg/l	1.4	2.0	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Methylene Chloride	µg/l	0.16	0.14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Naphthalene	µg/l	0.078	0.049	NA	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Toluene	µg/l	0.11	0.13	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total Xylenes	µg/l	0.24	0.24	0.10	0.10	0.10	0.10	NA	NA	NA	0.10
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Feb 2008	Aug 2008	Jun 2009	Sep 2009	Feb 2010	Aug 2010	Mar 2011	Aug 2011	Feb 2012	Sep 2012
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	5.0	NA	NA	NA
Chloride	mg/l	7930	7930	8200	7400	7400	7700	7400	7600	7900	8100
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	0.0016	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.10	**0.200**	0.026	0.52	0.52	0.28	0.28	0.42	0.42	0.42
pH	units	6.6	6.62	6.43	6.46	6.81	6.64	6.43	6.21	6.55	6.36
Specific Conductance	mmhos/cm	23,000	29,700	25,000	22,500	23,800	23,300	22,500	23,700	23,000	22,600
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	150	NA	NA	160
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	0.050	NA	NA	NA
Total Dissolved Solids	mg/l	16,500	13,400	15,000	16,000	16,000	13,000	13,000	13,000	18,000	12,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	0.065	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	**0.075**	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	0.400	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	0.0050	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	0.0050	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	**0.0055**	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	0.025	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	0.012	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	**0.033**	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	**0.000065**	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	0.0060	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	0.075	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	0.0050	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	0.085	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	0.035	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	0.0080	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	**0.033**	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	0.05	0.05	0.15	0.15	0.11	0.12	0.12	0.12	0.12	0.12
Acetone	µg/l	1.75	1.75	7.4	7.4	4.6	4.6	4.6	4.6	4.6	4.6
Methylene Chloride	µg/l	0.05	0.05	0.27	0.28	0.28	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.05	0.05	0.30	0.30	0.36	0.36	0.36	0.36	0.36	0.36
Toluene	µg/l	0.07	0.07	0.12	0.12	0.093	0.093	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	0.10	0.10	0.53	0.53	0.26	0.36	0.36	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	**0.92**	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Mar 2013	Sep 2013	Mar 2014	Sep 2014	Mar 2015	Sep 2015	Feb 2016	Sep 2016	Mar 2017	Aug 2017
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	5.0	NA
Chloride	mg/l	7800	7900	7700	8000	7800	7400	7700	8000	7600	7800
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0031	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.42	1.2	1.2	1.2	0.90	0.36	1.1	1.1	0.44	1.0
pH	units	6.40	6.77	6.74	6.39	5.77	6.66	6.68	6.61	6.67	7.94
Specific Conductance	mmhos/cm	20,700	22,900	22,200	22,400	30,900	22,200	20,700	21,900	29,800	32,800
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	150	NA	160	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Total Dissolved Solids	mg/l	13,000	14,000	13,000	12,000	13,000	15,000	14,000	13,000	13,000	14,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	0.042	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	0.039	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.370	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0025	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0055	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0055	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0065	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	**0.011(a)**	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	0.02	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.075	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0095	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.12	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	0.034	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.011	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	**0.035**	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	0.12	0.12	0.12	0.12	0.12	NA	0.12	NA	0.12	0.12
Acetone	µg/l	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.36	0.36	0.36	0.36	0.36	NA	0.36	0.36	0.36	0.36
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	NA	0.33	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Feb 2018	Aug 2018	Feb 2019	Aug 2019	Mar 2020	Sept 2020	Feb 2021	Aug 2021	Feb 2022	Aug 2022
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	7500	7700	7600	7600	7500	7900	7700	7500	7600	7500
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	0.0034	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	2.0	**2.4**	0.42	0.84	0.50	1.2	0.48	0.48	0.48	0.48
pH	units	6.93	6.92	7.03	7.12	5.94	6.72	6.70	6.36	7.22	6.54
Specific Conductance	mmhos/cm	22,400	22,400	21,400	22,100	21,500	22,100	19,400	21,100	22,200	21,000
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	0.050	NA	NA	NA
Total Dissolved Solids	mg/l	13,000	15,000	12,000	13,000	12,000	15,000	11,000	14,000	14,000	14,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	0.085	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	**0.160**	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	0.380	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	0.0050	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	6.500	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	0.011	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	0.011	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	0.000020	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	0.013	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	2.200	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	0.040	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	0.410	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	0.000022	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	0.020	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	0.150	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	0.019	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	0.240	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	0.067	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	0.022	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	0.023	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
1,2,4-Trimethylbenzene	µg/l	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Acetone	µg/l	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Naphthalene	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS:	µg/l										
Di-n-butyl phthalate	µg/l	NA	NA	NA	NA	NA	NA	**0.62**	NA	NA	NA
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
(a) Suspected laboratory/field contaminant.

TABLE 5-3
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-2 (CONT'D)

ANALYTE	UNIT	Feb 2023	Sept 2023	Feb 2024	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY									
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Carbonate Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	7700	7600	6900	7700	7645.51	543.59	6200	10000
Cyanide	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Hydroxide Alkalinity	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Nitrate as N	mg/l	0.48	1.2	0.48	0.31	0.83	0.82	0.0559	2.4
pH	units	6.71	6.69	6.40	6.54	6.55	0.30	5.77	7.94
Specific Conductance	mmhos/cm	21,000	20,300	20,600	22200	21760.96	3778.04	13000	32800
Sulfate	mg/l	NA	NA	NA	179	176.32	28.92	126	230
Sulfide	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Total Dissolved Solids	mg/l	13,000	15,000	13,000	13800	14181.75	1628.14	11000	18000
METALS									
Antimony	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	0.09	0.09	0.06	0.028	0.16
Barium	mg/l	NA	NA	NA	0.37	0.33	0.09	0.186	0.4
Beryllium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Boron	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chromium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Chromium, Hexavalent	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Manganese	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Thallium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Tin	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	0.04	0.04	0.01	0.033	0.064
VOLATILE ORGANICS/PURGEABLE ORGANICS									
1,2,4-Trimethylbenzene	µg/l	0.12	0.12	0.12	NC	NC	NC	NC	NC
Acetone	µg/l	4.6	4.6	4.6	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.48	0.48	0.48	NC	NC	NC	NC	NC
Naphthalene	µg/l	0.36	0.36	0.36	NC	NC	NC	NC	NC
Toluene	µg/l	0.093	0.093	0.093	NC	NC	NC	NC	NC
Total Xylenes	µg/l	0.36	0.36	0.36	NC	NC	NC	NC	NC
SEMI-VOLATILE ORGANICS:	µg/l								
Di-n-butyl phthalate	µg/l	NA	NA	NA	NC	NC	NC	NC	NC
HERBICIDES, PESTICIDES, & PCBs: None Detected									

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
(a) Suspected laboratory/field contaminant.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3

ANALYTE	UNIT	Nov 1994	Nov 1994	Nov 1994	Nov 1994	Jul 1995	Jul 1995	Jul 1995	Jul 1995	Jul 1996	Jul 1996
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6200	6300	11,800	6300	6400	5900	6400	6200	7400	7000
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.03	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.10	0.09	0.07	0.07	0.15	0.15	0.15	0.07	0.88	0.87
pH	units	7.0	6.8	6.9	7.0	6.9	6.9	6.9	7.0	6.82	6.72
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	14,683	15,077
Sulfate	mg/l	180	160	130	150	170	160	160	180	190	167
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.04	NA
Total Dissolved Solids	mg/l	13,400	15,000	13,600	13,200	14,100	14,500	15,500	15,000	13,890	14,562
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.005	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.002	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.1	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0005	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.00031**	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.009	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.0048**	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.056	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.0013**	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0002	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.039	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.004	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.003	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.286	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.29	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.094	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.058	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	1	NA	NA	NA	1	NA	NA	NA	1.2	NA
Chloroform	µg/l	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA
Methylene Chloride	µg/l	1	NA	NA	NA	1	NA	NA	NA	0.2	NA
Toluene	µg/l	1	NA	NA	NA	1	NA	NA	NA	0.3	NA
Total Xylenes	µg/l	1	NA	NA	NA	1	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Jul 1996	Jul 1996	Sept 1996	Sept 1996	Sept 1996	Sept 1996	Jul 1997	Jul 1997	Jul 1997	Jul 1997
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6750	7000	6523	6523	6448	6448	6748	6748	6498	6748
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.87	0.88	0.06	0.06	0.06	0.85	0.32	0.3	0.31	0.29
pH	units	6.68	6.69	6.57	6.72	6.23	6.39	6.32	6.25	6.36	6.36
Specific Conductance	mmhos/cm	14,819	16,213	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	169	184	140	144	153	158	94	96	94	94
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	13,810	13,720	11,600	11,900	11,800	11,500	11,380	11,940	11,800	11,600
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	NA	NA	1.2	NA	NA	NA	1.2	NA	NA	NA
Chloroform	µg/l	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA
Methylene Chloride	µg/l	NA	NA	0.2	NA	NA	NA	0.2	NA	NA	NA
Toluene	µg/l	NA	NA	0.3	NA	NA	NA	0.3	NA	NA	NA
Total Xylenes	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Sept 1997	Sept 1997	Sept 1997	Sept 1997	Mar 1998	Jun** 1998	Jun** 1998	Aug 1998	Mar 1999	Mar 1999
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6749	6624	6624	6749	6150	NA	NA	6560	6160	6360
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	**0.06**	**0.06**	0.06	0.06	0.10	NA	NA	0.10	0.100	0.100
pH	units	6.54	6.46	6.4	6.41	6.90	NA	NA	6.60	6.25	NA
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	18,200	NA
Sulfate	mg/l	121	128	124	133	106	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	13,076	13,382	13,034	13,576	11,100	NA	NA	11,800	9870	11,700
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	1.2	NA	NA	NA	5.75	5.75	5.75	5.75	0.82	NA
Chloroform	µg/l	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA
Methylene Chloride	µg/l	0.2	NA	NA	NA	**0.50***	0.08	0.08	0.08	0.35	NA
Toluene	µg/l	0.3	NA	NA	NA	**0.26**	0.07	0.07	0.07	0.05	NA
Total Xylenes	µg/l	NA	NA	NA	NA	**0.21**	0.13	0.13	0.13	0.09	NA
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
ND Constituent not detected; MDL not provided.
* Analyte also found in blank(s).
** Retest.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Aug 1999	Feb 2000	Feb 2000	Aug 2000	Feb 2001	Feb 2001	Aug 2001	Feb 2002	Feb 2002	Aug 2002
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	1160	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA
Chloride	mg/l	6350	6380	6310	6690	6770	6610	6500	6300	7600	10,000
Cyanide	mg/l	NA	NA	NA	NA	0.0100	NA	NA	NA	NA	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.113	0.050	0.050	0.050	0.050	0.0621	0.050	0.20	0.23	0.20
pH	units	6.30	6.58	NA	6.47	6.58	NA	6.46	6.56	NA	6.40
Specific Conductance	mmhos/cm	20,480	20,880	NA	17,630	16,790	NA	16,310	17,270	NA	16,300
Sulfate	mg/l	NA	NA	NA	NA	154	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	0.500	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	11,100	10,100	11,000	12,100	11,600	11,500	11,000	12,000	11,000	10,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	0.060	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	0.100	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	0.318	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	0.001	NA	NA	NA	NA	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	0.007	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	0.075	NA	NA	NA	NA	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	0.0002	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	0.030	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	0.100	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	0.007	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	0.100	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	0.250	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	0.020	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	1.79	1.79	NA	1.79	1.79	**2.32**	1.79	5.0	NA	5.0
Chloroform	µg/l	0.07	0.07	NA	0.07	0.07	**0.0787**	0.07	0.50	NA	0.50
Methylene Chloride	µg/l	0.03	**0.0949(a)**	NA	0.06	0.06	0.06	0.06	0.50	NA	**0.38(a)**
Toluene	µg/l	0.07	0.07	NA	0.07	0.07	0.07	0.07	0.30	NA	0.30
Total Xylenes	µg/l	0.21	0.21	NA	0.21	0.21	0.21	0.21	0.50	NA	0.50
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
(a) Suspected laboratory/field contaminant.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Feb 2003	Feb 2003	Aug 2003	Aug 2003	Apr 2004	Aug 2004	Feb 2005	Sep 2005	Feb 2006	Aug 2006
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0
Chloride	mg/l	7000	6800	6800	7000	6700	6700	6800	6060	6400	6150
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.24	0.27	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10
pH	units	6.27	NA	6.42	NA	6.4	6.4	6.4	6.4	6.6	6.7
Specific Conductance	mmhos/cm	14,780	NA	14,810	NA	21,000	22,000	21,000	20,000	21,000	18,000
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	149
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Total Dissolved Solids	mg/l	11,000	12,000	13,000	13,000	14,000	12,800	13,700	12,400	12,300	13,200
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.212
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.021**
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.060
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	1.4	NA	2.0	NA	1.75	1.75	1.75	1.75	1.75	1.75
Chloroform	µg/l	0.08	NA	0.19	NA	0.07	0.07	0.07	0.07	0.07	0.07
Methylene Chloride	µg/l	0.16	NA	0.14	NA	0.05	0.05	0.05	0.05	0.05	0.05
Toluene	µg/l	0.11	NA	0.13	NA	0.07	0.07	0.07	0.07	0.07	0.07
Total Xylenes	µg/l	0.24	NA	0.24	NA	0.10	0.10	0.10	0.10	0.10	NA
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Feb 2007	Aug 2007	Feb 2008	Aug 2008	Jun 2009	Sep 2009	Feb 2010	Aug 2010	Mar 2011	Aug 2011
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA
Chloride	mg/l	6800	6960	6660	6740	6900	6500	6400	6900	6500	6600
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0016	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.10	0.10	0.10	0.10	0.026	0.52	0.52	0.28	0.28	0.42
pH	units	6.5	7.3	6.5	6.71	6.43	6.49	6.78	6.43	6.48	6.47
Specific Conductance	mmhos/cm	12,000	12,000	18,000	20,400	20,600	21,400	21,300	19,100	20,200	19,200
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	120	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.050	NA
Total Dissolved Solids	mg/l	13,900	14,000	14,600	12,400	13,000	14,000	13,000	12,000	11,000	11,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.065	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.049	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.390	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0050	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0050	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0050	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.025	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.012	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.025	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.000045**	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0060	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.075	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.013**	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.085	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.035	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0080	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.021**	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	1.75	1.75	1.75	1.75	7.4	7.4	4.6	4.6	4.6	4.6
Chloroform	µg/l	0.07	0.07	0.07	0.07	0.23	0.23	0.072	0.12	0.12	0.12
Methylene Chloride	µg/l	0.05	0.05	0.05	0.05	0.27	0.28	0.28	0.48	0.48	0.48
Toluene	µg/l	0.07	0.07	0.07	0.07	0.12	0.12	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	NA	0.10	0.10	0.10	0.53	0.53	0.26	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Feb 2012	Sep 2012	Mar 2013	Sep 2013	Mar 2014	Sep 2014	Mar 2015	Sep 2015	Feb 2016	Sep 2016
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6900	7100	6800	6900	6700	6900	6700	6500	6600	7000
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0031
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.42	0.42	0.42	1.2	1.2	1.2	0.90	0.36	1.1	1.1
pH	units	6.30	6.44	6.50	6.43	6.57	6.35	5.86	6.31	6.59	6.44
Specific Conductance	mmhos/cm	19,500	19,900	18,400	20,600	18,800	20,500	30,200	20,400	18,300	19,400
Sulfate	mg/l	NA	130	NA	NA	NA	NA	NA	NA	130	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
Total Dissolved Solids	mg/l	12,000	11,000	12,000	12,000	11,000	11,000	12,000	14,000	13,000	11,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.042
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.039
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.390
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0025
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0055
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0055
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0065
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0066(a)**
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.075
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0095
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.034
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.033**
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Chloroform	µg/l	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Mar 2017	Aug 2017	Feb 2018	Aug 2018	Feb 2019	Aug 2019	Mar 2020	Sept 2020	Feb 2021	Aug 2021
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6600	6800	6500	6600	6600	6600	6500	6800	6700	6600
Cyanide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0017	NA
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.44	1.0	1.0	1.0	0.42	0.84	0.50	1.2	0.48	0.48
pH	units	6.71	7.82	6.44	6.80	6.75	7.15	6.47	6.71	6.36	6.45
Specific Conductance	mmhos/cm	27,200	26,700	19,500	19,800	18,900	19,500	20,200	18,500	16,900	18,700
Sulfate	mg/l	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.050	NA
Total Dissolved Solids	mg/l	12,000	11,000	11,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.085	NA
Arsenic	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.078	NA
Barium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.410	NA
Beryllium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.0050	NA
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	7.000	NA
Cadmium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.011	NA
Chromium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.011	NA
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.000020	NA
Cobalt	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.013	NA
Copper	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.380**	NA
Lead	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.400	NA
Manganese	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.340	NA
Mercury	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.000022	NA
Nickel	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.020	NA
Selenium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.150	NA
Silver	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.019	NA
Thallium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.240	NA
Tin	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.067	NA
Vanadium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.022	NA
Zinc	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.023	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Chloroform	µg/l	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total Xylenes	µg/l	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
(a) Suspected laboratory/field contaminant.

TABLE 5-4
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-MW-3 (CONT'D)

ANALYTE	UNIT	Feb 2022	Aug 2022	Feb 2023	Sept 2023	Feb 2024	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY											
Bicarbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Carbonate Alkalinity	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chloride	mg/l	6700	6500	6600	6700	6500	6624	6730	728.71	5900	11800
Cyanide	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Hydroxide Alkalinity	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nitrate as N	mg/l	0.48	0.48	0.48	0.48	0.48	0.23	0.31	0.31	0.06	0.88
pH	units	6.37	5.93	7.79	6.61	6.67	6.50	6.58	0.32	5.86	7.82
Specific Conductance	mmhos/cm	18,600	18,500	18,900	20,200	21,300	19200	19106.22	3159.53	12000	30200
Sulfate	mg/l	NA	NA	NA	NA	NA	144	141.87	27.77	94	190
Sulfide	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Total Dissolved Solids	mg/l	12,000	13,000	12,000	14,000	12,000	12000	12398.07	1238.72	9870	15500
METALS											
Antimony	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NA	0.39	0.34	0.08	0.212	0.41
Beryllium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Boron	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium, Hexavalent	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Iron	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Manganese	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Thallium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Tin	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	NA	0.05	0.04	0.02	0.021	0.06
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Acetone	µg/l	4.6	4.6	4.6	4.6	4.6	NC	NC	NC	NC	NC
Chloroform	µg/l	0.12	0.12	0.12	0.12	0.12	NC	NC	NC	NC	NC
Methylene Chloride	µg/l	0.48	0.48	0.48	0.48	0.48	NC	NC	NC	NC	NC
Toluene	µg/l	0.093	0.093	0.093	0.093	0.093	NC	NC	NC	NC	NC
Total Xylenes	µg/l	0.36	0.36	0.36	0.36	0.36	NC	NC	NC	NC	NC
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES, & PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
(a) Suspected laboratory/field contaminant.

TABLE 5-5
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-DW-4

ANALYTE	UNIT	Nov 1994	Nov 1994	Jul 1995	Jul 1995	Jul 1996	Jul 1996	Sept 1996	Sept 1996	Jul 1997	Jul 1997
GENERAL CHEMISTRY											
Chloride	mg/l	15,500	15,400	16,400	16,300	17,100	16,500	16,345	16,345	16,995	16,370
Cyanide	mg/l	NA	NA	NA	NA	0.03	NA	NA	NA	NA	NA
Nitrate as N	mg/l	0.04	0.03	0.15	0.15	1.15	1.15	0.107	**0.093**	0.46	0.72
pH	units	6.9	6.8	6.8	6.9	6.68	6.67	6.42	6.53	6.32	6.33
Specific Conductance	mmhos/cm	NA	NA	NA	NA	25,302	25,958	NA	NA	NA	NA
Sulfate	mg/l	660	640	1,000	1100	1045	912	769	756	636	609
Sulfide	mg/l	NA	NA	NA	NA	0.04	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	36,700	33,000	39,000	39,700	34,688	33,688	27,500	27,700	32,116	28,696
METALS											
Antimony	mg/l	NA	NA	NA	NA	0.005	NA	NA	NA	NA	NA
Arsenic	mg/l	NA	NA	NA	NA	0.002	NA	NA	NA	NA	NA
Barium	mg/l	NA	NA	NA	NA	0.1	NA	NA	NA	NA	NA
Beryllium	mg/l	NA	NA	NA	NA	0.0005	NA	NA	NA	NA	NA
Cadmium	mg/l	NA	NA	NA	NA	**0.0023**	NA	NA	NA	NA	NA
Chromium	mg/l	NA	NA	NA	NA	0.005	NA	NA	NA	NA	NA
Cobalt	mg/l	NA	NA	NA	NA	0.0102	NA	NA	NA	NA	NA
Copper	mg/l	NA	NA	NA	NA	0.174	NA	NA	NA	NA	NA
Lead	mg/l	NA	NA	NA	NA	0.0058	NA	NA	NA	NA	NA
Mercury	mg/l	NA	NA	NA	NA	0.0002	NA	NA	NA	NA	NA
Nickel	mg/l	NA	NA	NA	NA	0.036	NA	NA	NA	NA	NA
Selenium	mg/l	NA	NA	NA	NA	0.004	NA	NA	NA	NA	NA
Silver	mg/l	NA	NA	NA	NA	0.003	NA	NA	NA	NA	NA
Thallium	mg/l	NA	NA	NA	NA	0.322	NA	NA	NA	NA	NA
Tin	mg/l	NA	NA	NA	NA	0.55	NA	NA	NA	NA	NA
Vanadium	mg/l	NA	NA	NA	NA	0.172	NA	NA	NA	NA	NA
Zinc	mg/l	NA	NA	NA	NA	0.041	NA	NA	NA	NA	NA
VOLATILE ORGANICS/PURGEABLE ORGANICS											
Methylene Chloride	µg/l	1	NA	1	NA	0.2	NA	0.2	NA	0.2	NA
Toluene	µg/l	1	NA	1	NA	1.3(a)	NA	0.3	NA	0.3	NA
SEMI-VOLATILE ORGANICS: None Detected											
HERBICIDES, PESTICIDES AND PCBs: None Detected											

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
(a) Suspected laboratory/field contaminant.

TABLE 5-5
NILAND WASTE MANAGEMENT FACILITY
HISTORICAL SUMMARY
MONITORING WELL N-DW-4 (CONT'D) - PIEZOMETER AFTER AUGUST 1998

ANALYTE	UNIT	Sept 1997	Sept 1997	Mar 1998	Aug 1998	MED.	AVG.	STD. DEV.	MIN.	MAX.
GENERAL CHEMISTRY										
Chloride	mg/l	16,997	34,239	16,000	17,200	16,385	17,692	4,793	15,400	34,239
Cyanide	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nitrate as N	mg/l	**0.08**	0.11	**0.08**	**0.05**	0.107	0.37	0.44	0.04	1.15
pH	units	6.62	6.52	6.71	6.61	6.65	6.63	0.2	6.32	6.9
Specific Conductance	mmhos/cm	NA	NA	NA	NA	NC	NC	NC	NC	NC
Sulfate	mg/l	1074	1080	716	NA	769	846	193	609	1100
Sulfide	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Total Dissolved Solids	mg/l	30,788	31,088	27,800	30,900	31,602	32,383	4,021	27,500	39,700
METALS										
Antimony	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Arsenic	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Barium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Beryllium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cadmium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Chromium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Cobalt	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Copper	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Lead	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Mercury	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Nickel	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Selenium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Silver	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Thallium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Tin	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Vanadium	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
Zinc	mg/l	NA	NA	NA	NA	NC	NC	NC	NC	NC
VOLATILE ORGANICS/PURGEABLE ORGANICS										
Methylene Chloride	µg/l	0.2	NA	**0.20***	0.08	NC	NC	NC	NC	NC
Toluene	µg/l	0.3	NA	0.07	0.07	NC	NC	NC	NC	NC
SEMI-VOLATILE ORGANICS: None Detected										
HERBICIDES, PESTICIDES AND PCBs: None Detected										

NOTES:
NA Sample was not analyzed for this parameter during the specified sampling round.

Indicates that the analyte was not detected above laboratory practical quantitation limit (PQL).
Value listed is MDL or estimated trace concentration (BOLDED).
NC No calculation performed. Requires a minimum of three data entries.
* Analyte also found in blank(s).

TABLE 5-6
NILAND WASTE MANAGEMENT FACILITY
COMPARISON DATA
SEMIANNUAL (OCTOBER 2023 THROUGH MARCH 2024)

ANALYTE	DOWNGRADIENT LOCATIONS		UPGRADIENT LOCATION	MCL
	N-MW-2 2/22/24	N-MW-3 2/22/24	N-MW-1 2/22/24	
GENERAL CHEMISTRY (mg/l):				
Chloride	6,900	6,500	27,000	NV
Nitrate as N	0.48	0.48	**2.9**	10 (1,2)
pH	6.40	6.67	6.58	NV
Specific Conductance	20,600	21,300	59,100	NV
Total Dissolved Solids	13,000	12,000	45,000	NV
VOLATILE ORGANIC COMPOUNDS (µg/l): None Detected				

NOTES:
NV - No value available (in ARAR column)
NA = Not Analyzed (in data columns)
(a) = Confirmed Laboratory Contaminant.
MCL = Maximum Contaminant Level.
** Value shown is the upper maximum contaminant limit.
Indicates that the analyte was not detected above laboratory quantitation limits. Value listed is laboratory detection limit or estimated trace (BOLDED) concentration.

(1) California Primary Drinking Water Standards.
(2) Federal Maximum Contaminant Limits (MCLs).

TABLE 5-7
NILAND WASTE MANAGEMENT FACILITY
STATISTICAL COMPARISON
CURRENT RESULTS VS. CALCULATED INTERWELL TOLERANCE LIMITS
SEMIANNUAL (OCTOBER 2023 THROUGH MARCH 2024)

ANALYTE	N-MW-2 2/22/24	N-MW-3 2/22/24	*N-MW-1 2/22/24	TOLERANCE LIMIT
GENERAL CHEMISTRY (mg/L):				
Chloride	6,900	6,500	**27,000**	18,641
Nitrate as N	ND	ND	**2.9**	1.1
pH	6.40	6.67	6.58	6.17 - 6.98
Total Dissolved Solids	13,000	12,000	**45,000**	33,752

NOTES:
- Value exceeds Tolerance Limit.
Tolerance Limits calculated from historical data from backgrounds N-MW-1.
Tolerance Limits calculated for routine laboratory-analyzed constituents and pH .
* - Background well.
ND - Not Detected.
(a) Suspected laboratory/field contaminant.

APPENDIX A
Field Sample Collection Logs
Laboratory Analytical Reports

Geo-Logic ASSOCIATES

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

SITE NAME: N. Island
DATE: 2-21-2024
PROJECT NUMBER 5020.1070
WATER LEVEL MAKE/MODEL: Solinst model 101
FIELD PERSONNEL: M. Iwata, M. Campbell

WELL ID	CONSTRUCTION TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
N-MW-1			43.71	
N-MW-2			49.83	
N-MW-3			52.24	
N-DW-4			44.04	

REMARKS:

SIGNATURE: M. Campbell

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: N. land
Well I.D.: N-MW-1
Collected By: MC, MA
Casing Diameter (inches): 2
Starting Water Level: 43.71
Total Depth (feet): 52.90
Water column (feet): 9.19
Screen Length (feet):
Purge Volume (gallons): 4.49
Horiba Model S/N: U-52/W541WBDD

Project No.: 5020.1070
Sampling Date: 2.21.24
Purge start Time: 15.37
Purge Stop time: 15.57
Sampling Time: 7:17, 2.22.24
Ending Water Level (feet): Dry / 43.94
Total Purged (gallons): 4.25
PID/FID Reading:
Duplicate Sample: (YES) NO

N-MW-Dup taken at the wet

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
2	–	6.62	60.1	266	3.10	25.71	86
3	–	6.56	60.1	264	2.65	25.14	84
4	–	6.58	59.1	OR	2.97	25.75	85
Dry @	4.25 gal						

Purge Sampling Rates: Purged and Sampled with a dedicated 1/2 bailer
Dry @ 4.25 gal.
Well condition: OK

Additional Info/Comments: Partly cloudy, warm, breezy

Name: M. Campbell **Signature:** M. Campbell

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	N.Island	**Project No.:**	5020.1070
Well I.D.:	N-MW-2	**Sampling Date:**	1-21.2021
Collected By:	mC	**Purge start Time:**	15.05
Casing Diameter (inches):	2	**Purge Stop time:**	15:24
Starting Water Level:	49.83	**Sampling Time:**	6:35 2.22.24
Total Depth (feet):	67.30	**Ending Water Level (feet):**	DM 51.72
Water column (feet):	17.47	**Total Purged (gallons):**	7.25
Screen Length (feet):		**PID/FID Reading:**	
Purge Volume (gallons):	8.54	**Duplicate Sample:**	YES (NO)
Horiba Model S/N:	U-52 / U-54 / U-300	Field Blank taken at this well	

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
2	–	6.52	20.3	14.9	2.45	26.95	58
4	–	6.53	20.6	19.2	2.27	26.04	60
6	–	6.44	20.6	16.3	1.73	26.25	-46
7	"	6.40	20.6	43.0	1.20	26.06	6
7.25	well is	dry	at	7.25	gallon		

Purge Sampling Rates: Purged and sampled with a dedicated 1½ bale

Well condition: OK monument lid hinge is broken well not secured

Additional Info/Comments: Mostly sunny

Name: Mike Campbell **Signature:** Mike Campbell

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Niland	**Project No.:**	SG21.1070
Well I.D.:	N-MW-3	**Sampling Date:**	02/21/24
Collected By:	MA	**Purge start Time:**	1504
Casing Diameter (inches):	2	**Purge Stop time:**	1536
Starting Water Level:	52.24	**Sampling Time:**	02/22/24/0700
Total Depth (feet):	69.90	**Ending Water Level (feet):**	DRY/52.76
Water column (feet):	17.16	**Total Purged (gallons):**	
Screen Length (feet):		**PID/FID Reading:**	
Purge Volume (gallons):	8.39	**Duplicate Sample:**	YES NO
Horiba Model S/N:	U-52		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
2		6.61	21.6	51	2.16	25.84	140
4		6.63	21.4	21.1	2.21	26.05	122
6		6.67	21.3	35.2	1.78	25.91	79
Dry @ 6½ 2½ gal							

Purge Sampling Rates: Purged well w/ dedicated bailer. Dry @ 2½ gal

Well condition: OK

Additional Info/Comments:

Name: Marcus Arguello **Signature:**

Pace
ANALYTICAL SERVICES 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.pacelabs.com

Chain of Custody Form

Page 1 of 1

Report To:
Client: Geo-Logic Associates
Attn: William Lopez
Street Address: 11415 W. Bernardo Ct Suite 200
City, State, Zip: San Diego, CA 92127
Phone: 858-451-1136 Fax:
Email: wlopez@geo-logic.com
Work Order #:

Project #: SO20.1070
Project Name: Niland Waste Management Facility
BID#
Sampler(s) Name Printed: M. Ayala, M. Campbell

Analysis Requested

Sample #	Description	Date Sampled	Time Sampled	Volatile Organic Compounds (EPA 8260B)	Chloride, Nitrate-N, TDS	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other
	N-MW-1	2/22/24	0717	✓	✓				×		
	N-MW-2		06:35	✓	✓				×		
	N-MW-3		07:00	✓	✓				×		
	N-MW-DUP		—	✓	✓				×		
	FIELD BLANK		-	✓							LAB WATER
	TRIP BLANK		-	✓							LAB WATER

Comments:
Short hold time for Nitrate(as N)

Result Request **Surcharge
× STD (10 Days) ☐ 5 Day** ☐ 4 Day**
☐ 3 Day** ☐ 2 Day** ☐ 1 Day**
Rush requests must be approved

Notes

Billing
☒ Same as above
Client:
Address:
City: State Zip
Attn:
P.O. #: IMPERIAL COUNTY

System # (Needed for CLIP)
GIS/Key ☐ Well Star ☐

EDF Required Geotracker ☒ Yes ☐ No Global ID L10004403391

	Relinquished By	Date	Time	Received By	Date	Time
1.		2/22/24	1600		2-23-24	1300
2.						
3.						

Pace Analytical Bakersfield does not accept samples containing radioactive material above background levels. Samples containing radioactive material must be disclosed prior to receipt. Any samples suspected of containing radioactive material above background levels will not be accepted and will be returned to client.

REV 12/2021

Date of Report: 03/04/2024

William Lopez

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Client Project:	SO20.1070
Pace Project:	Niland Landfill
Pace Work Order:	2403423
Invoice ID:	B493321

Enclosed are the results of analyses for samples received by the laboratory on 2/23/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

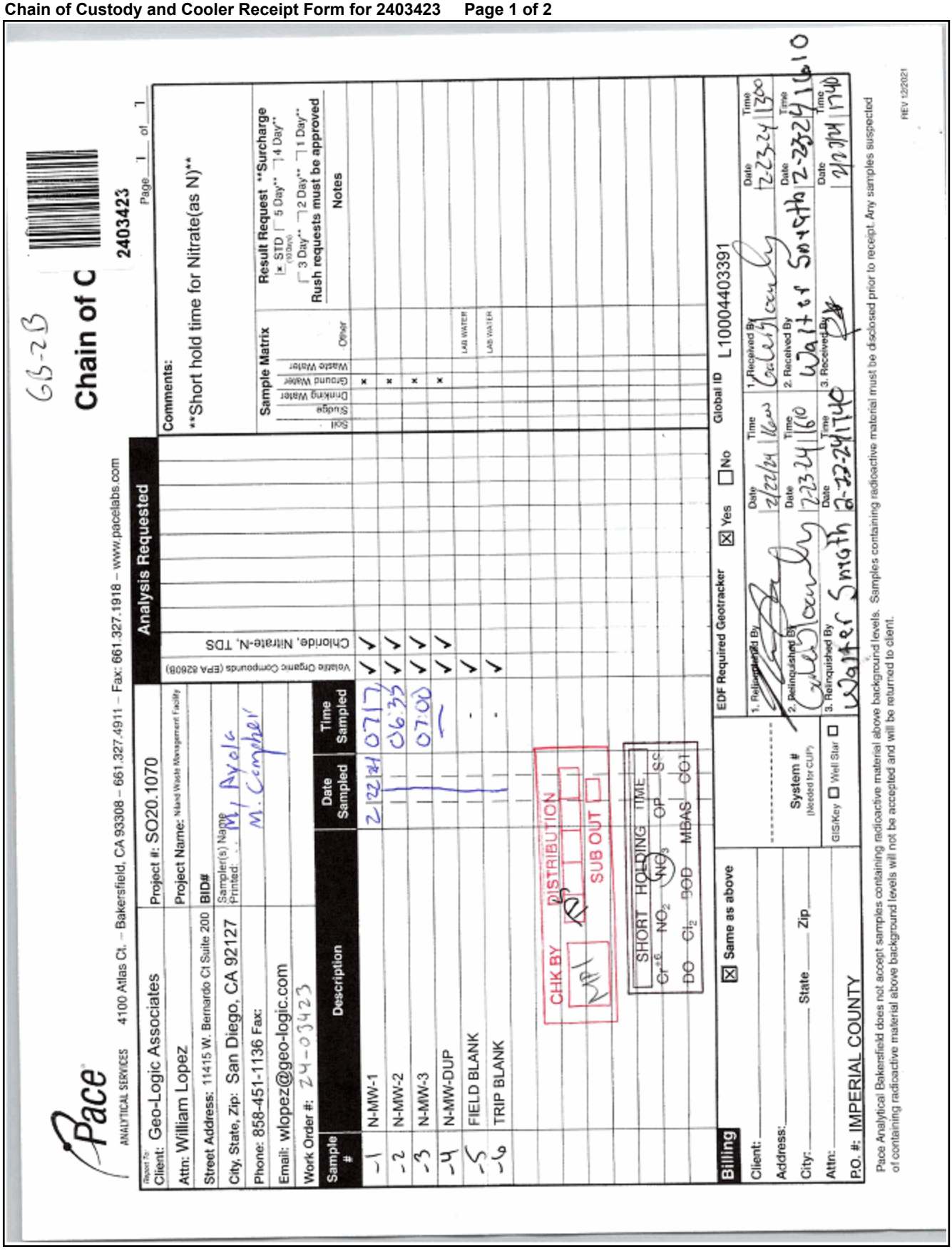
Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Table of Contents

Chain of Custody and Cooler Receipt Form for 2403423 Page 1 of 2



Chain of C

2403423

Page 1 of 1

ANALYTICAL SERVICES 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.pacelabs.com

Report To:
Client: Geo-Logic Associates
Attn: William Lopez
Street Address: 11415 W. Bernardo Ct Suite 200
City, State, Zip: San Diego, CA 92127
Phone: 858-451-1136 Fax:
Email: wlopez@geo-logic.com
Work Order #: 24-03423

Project #: SO20.1070
Project Name: Niland Waste Management Facility
BID#
Sampler(s) Name Printed: M. Ayala M. Campbell

Comments:
Short hold time for Nitrate(as N)

Sample Matrix: Soil, Sludge, Drinking Water, Ground Water, Waste Water, Other

Result Request **Surcharge
[x] STD (10 Day) [ ] 5 Day** [ ] 4 Day**
[ ] 3 Day** [ ] 2 Day** [ ] 1 Day**
Rush requests must be approved

Sample #	Description	Date Sampled	Time Sampled	Volatile Organic Compounds (EPA 8260B)	Chloride, Nitrate-N, TDS	Notes
-1	N-MW-1	2/22/24	0717	✓	✓	
-2	N-MW-2		0635	✓	✓	
-3	N-MW-3		0700	✓	✓	
-4	N-MW-DUP		—	✓	✓	
-5	FIELD BLANK	-		✓		LAB WATER
-6	TRIP BLANK	-		✓		LAB WATER

CHK BY DISTRIBUTION
SUB OUT
SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SC
DO Cl_2 BOD MBAS OG1

Billing: [x] Same as above
Client:
Address:
City: State Zip
Attn:
P.O. #: IMPERIAL COUNTY

System # (Needed for CUP)
GIS/Key [ ] Well Star [ ]

EDF Required Geotracker [x] Yes [ ] No
Global ID L10004403391

	Relinquished By	Date	Time	Received By	Date	Time
1.		2/22/24	1100		2-23-24	1300
2.		2-23-24	1610		2-23-24	1610
3.		2-23-24	1740		2/23/24	1740

Pace Analytical Bakersfield does not accept samples containing radioactive material above background levels. Samples containing radioactive material must be disclosed prior to receipt. Any samples suspected of containing radioactive material above background levels will not be accepted and will be returned to client.

REV 12/2021

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: 24-03423

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ GSO / GLS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
Pace Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: NA Thermometer ID: 274

Temperature: (A) 1.0 °C / (C) 0.8 °C

Date/Time 2/23/24 1746

Analyst Init PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	D	D	D	D						
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK						A				
40ml VOA VIAL	A-C	A-C	A-C	A-C	A,B					
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: PRE Date/Time: 2/23/24 1800

A = Actual / C = Corrected

Rev 23 05/20/22

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Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2403423-01	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 07:17
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-MW-1	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Groundwater
2403423-02	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 06:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-MW-2	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Groundwater
2403423-03	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-MW-3	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Groundwater
2403423-04	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-MW-DUP	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Groundwater
2403423-05	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	FIELD BLANK	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Field_Sample
2403423-06	**COC Number:**	---	**Receive Date:**	02/23/2024 17:40
	Project Number:	Niland LF	**Sampling Date:**	02/22/2024 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TRIP BLANK	**Lab Matrix:**	Water
	Sampled By:	M. Ayala M. Campbell of GASD	**Sample Type:**	Blank Water

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-01 | **Client Sample Name:** Niland LF, N-MW-1, 2/22/2024 7:17:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-01 | **Client Sample Name:** Niland LF, N-MW-1, 2/22/2024 7:17:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	158	%	75 - 125 (LCL - UCL)		EPA-8260B		A19,S09	1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2403423-01 | **Client Sample Name:** Niland LF, N-MW-1, 2/22/2024 7:17:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/29/24 10:00	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Water Analysis (General Chemistry)

Pace Sample ID: 2403423-01 | **Client Sample Name:** Niland LF, N-MW-1, 2/22/2024 7:17:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	**27000**	**mg/L**	**100**	**26**	**EPA-300.0**	**ND**	**A10**	**1**
Nitrate as N	**2.9**	**mg/L**	**10**	**2.4**	**EPA-300.0**	**ND**	**J,A10**	**2**
Total Dissolved Solids @ 180 C	**45000**	**mg/L**	**200**	**100**	**EPA-160.1**	**ND**	**A10**	**3**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	02/23/24 19:00	02/24/24 01:42	RC1	IC9	200	B184515	No Prep
2	EPA-300.0	02/23/24 19:00	02/23/24 20:07	EEC	IC9	100	B184515	No Prep
3	EPA-160.1	02/29/24 14:00	02/29/24 14:00	IJC	MANUAL	20	B184777	No Prep

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-02 | **Client Sample Name:** Niland LF, N-MW-2, 2/22/2024 6:35:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-02 | **Client Sample Name:** Niland LF, N-MW-2, 2/22/2024 6:35:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2403423-02 | **Client Sample Name:** Niland LF, N-MW-2, 2/22/2024 6:35:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/28/24 13:22	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Water Analysis (General Chemistry)

Pace Sample ID: 2403423-02 | **Client Sample Name:** Niland LF, N-MW-2, 2/22/2024 6:35:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	**6900**	**mg/L**	**10**	**2.6**	**EPA-300.0**	**ND**	**A10,S01**	**1**
Nitrate as N	ND	mg/L	2.0	0.48	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	**13000**	**mg/L**	**100**	**50**	**EPA-160.1**	**ND**	**A10**	**2**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	02/23/24 19:00	02/23/24 20:20	EEC	IC9	20	B184515	No Prep
2	EPA-160.1	02/29/24 14:00	02/29/24 14:00	IJC	MANUAL	10	B184777	No Prep

DCN = Data Continuation Number

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-03 | **Client Sample Name:** Niland LF, N-MW-3, 2/22/2024 7:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-03 | **Client Sample Name:** Niland LF, N-MW-3, 2/22/2024 7:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2403423-03 | **Client Sample Name:** Niland LF, N-MW-3, 2/22/2024 7:00:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/28/24 13:48	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Water Analysis (General Chemistry)

Pace Sample ID: 2403423-03 | **Client Sample Name:** Niland LF, N-MW-3, 2/22/2024 7:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	**6500**	**mg/L**	**25**	**6.5**	**EPA-300.0**	**ND**	**A10**	**1**
Nitrate as N	ND	mg/L	2.0	0.48	EPA-300.0	ND	A10	2
Total Dissolved Solids @ 180 C	**12000**	**mg/L**	**500**	**250**	**EPA-160.1**	**ND**	**A10**	**3**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	02/23/24 19:00	02/24/24 02:09	RC1	IC9	50	B184515	No Prep
2	EPA-300.0	02/23/24 19:00	02/23/24 20:34	EEC	IC9	20	B184515	No Prep
3	EPA-160.1	02/29/24 14:00	02/29/24 14:00	IJC	MANUAL	50	B184777	No Prep

DCN = Data Continuation Number

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Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-04 | **Client Sample Name:** Niland LF, N-MW-DUP, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

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Geologic Associates (Main)
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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-04 | **Client Sample Name:** Niland LF, N-MW-DUP, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	154	%	75 - 125 (LCL - UCL)		EPA-8260B		A19,S09	1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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Geologic Associates (Main)
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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2403423-04	**Client Sample Name:**	Niland LF, N-MW-DUP, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/29/24 10:26	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Water Analysis (General Chemistry)

Pace Sample ID: 2403423-04 | **Client Sample Name:** Niland LF, N-MW-DUP, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	**26000**	**mg/L**	**100**	**26**	**EPA-300.0**	**ND**	**A10**	**1**
Nitrate as N	**2.9**	**mg/L**	**10**	**2.4**	**EPA-300.0**	**ND**	**J,A10**	**2**
Total Dissolved Solids @ 180 C	**46000**	**mg/L**	**200**	**100**	**EPA-160.1**	**ND**	**A10**	**3**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	02/23/24 19:00	02/24/24 02:23	RC1	IC9	200	B184515	No Prep
2	EPA-300.0	02/23/24 19:00	02/23/24 20:47	EEC	IC9	100	B184515	No Prep
3	EPA-160.1	02/29/24 14:00	02/29/24 14:00	IJC	MANUAL	20	B184777	No Prep

DCN = Data Continuation Number

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Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-05 | **Client Sample Name:** Niland LF, FIELD BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-05 | **Client Sample Name:** Niland LF, FIELD BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2403423-05 | **Client Sample Name:** Niland LF, FIELD BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/28/24 14:38	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-06 | **Client Sample Name:** Niland LF, TRIP BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1

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Geologic Associates (Main)
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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2403423-06 | **Client Sample Name:** Niland LF, TRIP BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	50	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2403423-06 | **Client Sample Name:** Niland LF, TRIP BLANK, 2/22/2024 12:00:00AM, M. Ayala M. Campbell

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	02/27/24 15:00	02/28/24 15:03	RCC	MSV-21	1	B184650	EPA 5030 Water MS

DCN = Data Continuation Number

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Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B184650							
Benzene	B184650-BLK1	ND	ug/L	0.50	0.083		1
Bromochloromethane	B184650-BLK1	ND	ug/L	0.50	0.24		1
Bromodichloromethane	B184650-BLK1	ND	ug/L	0.50	0.14		1
Bromoform	B184650-BLK1	ND	ug/L	0.50	0.27		1
Bromomethane	B184650-BLK1	ND	ug/L	1.0	0.25		1
Carbon tetrachloride	B184650-BLK1	ND	ug/L	0.50	0.18		1
Chlorobenzene	B184650-BLK1	ND	ug/L	0.50	0.093		1
Chloroethane	B184650-BLK1	ND	ug/L	0.50	0.14		1
Chloroform	B184650-BLK1	ND	ug/L	0.50	0.12		1
Chloromethane	B184650-BLK1	ND	ug/L	0.50	0.14		1
Dibromochloromethane	B184650-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dibromo-3-chloropropane	B184650-BLK1	ND	ug/L	1.0	0.44		1
1,2-Dibromoethane	B184650-BLK1	ND	ug/L	0.50	0.16		1
Dibromomethane	B184650-BLK1	ND	ug/L	0.50	0.24		1
1,2-Dichlorobenzene	B184650-BLK1	ND	ug/L	0.50	0.072		1
1,3-Dichlorobenzene	B184650-BLK1	ND	ug/L	0.50	0.15		1
1,4-Dichlorobenzene	B184650-BLK1	ND	ug/L	0.50	0.062		1
Dichlorodifluoromethane	B184650-BLK1	ND	ug/L	0.50	0.099		1
1,1-Dichloroethane	B184650-BLK1	ND	ug/L	0.50	0.11		1
1,2-Dichloroethane	B184650-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B184650-BLK1	ND	ug/L	0.50	0.18		1
cis-1,2-Dichloroethene	B184650-BLK1	ND	ug/L	0.50	0.085		1
trans-1,2-Dichloroethene	B184650-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloropropane	B184650-BLK1	ND	ug/L	0.50	0.13		1
cis-1,3-Dichloropropene	B184650-BLK1	ND	ug/L	0.50	0.14		1
trans-1,3-Dichloropropene	B184650-BLK1	ND	ug/L	0.50	0.079		1
Ethylbenzene	B184650-BLK1	ND	ug/L	0.50	0.098		1
Hexachlorobutadiene	B184650-BLK1	ND	ug/L	0.50	0.17		1
Methylene chloride	B184650-BLK1	ND	ug/L	1.0	0.48		1
Methyl t-butyl ether	B184650-BLK1	ND	ug/L	0.50	0.11		1
Naphthalene	B184650-BLK1	ND	ug/L	0.50	0.36		1
Styrene	B184650-BLK1	ND	ug/L	0.50	0.068		1
1,1,1,2-Tetrachloroethane	B184650-BLK1	ND	ug/L	0.50	0.18		1
1,1,2,2-Tetrachloroethane	B184650-BLK1	ND	ug/L	0.50	0.17		1

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B184650							
Tetrachloroethene	B184650-BLK1	ND	ug/L	0.50	0.13		1
Toluene	B184650-BLK1	ND	ug/L	0.50	0.093		1
1,2,4-Trichlorobenzene	B184650-BLK1	ND	ug/L	0.50	0.19		1
1,1,1-Trichloroethane	B184650-BLK1	ND	ug/L	0.50	0.11		1
1,1,2-Trichloroethane	B184650-BLK1	ND	ug/L	0.50	0.16		1
Trichloroethene	B184650-BLK1	ND	ug/L	0.50	0.085		1
Trichlorofluoromethane	B184650-BLK1	ND	ug/L	0.50	0.13		1
1,2,3-Trichloropropane	B184650-BLK1	ND	ug/L	1.0	0.24		1
Vinyl chloride	B184650-BLK1	ND	ug/L	0.50	0.12		1
Total Xylenes	B184650-BLK1	ND	ug/L	1.0	0.36		1
Acetone	B184650-BLK1	ND	ug/L	10	4.6		1
Acrylonitrile	B184650-BLK1	ND	ug/L	5.0	1.2		1
t-Amyl Methyl ether	B184650-BLK1	ND	ug/L	0.50	0.25		1
t-Butyl alcohol	B184650-BLK1	ND	ug/L	10	9.4		1
Carbon disulfide	B184650-BLK1	ND	ug/L	1.0	0.38		1
trans-1,4-Dichloro-2-butene	B184650-BLK1	ND	ug/L	5.0	1.4		1
Diisopropyl ether	B184650-BLK1	ND	ug/L	0.50	0.23		1
Ethanol	B184650-BLK1	ND	ug/L	250	50		1
Ethyl t-butyl ether	B184650-BLK1	ND	ug/L	0.50	0.18		1
2-Hexanone	B184650-BLK1	ND	ug/L	10	3.4		1
Methyl ethyl ketone	B184650-BLK1	ND	ug/L	10	2.5		1
Methyl iodide	B184650-BLK1	ND	ug/L	2.0	0.47		1
Methyl isobutyl ketone	B184650-BLK1	ND	ug/L	10	2.1		1
Vinyl acetate	B184650-BLK1	ND	ug/L	10	1.8		1
p- & m-Xylenes	B184650-BLK1	ND	ug/L	0.50	0.28		1
o-Xylene	B184650-BLK1	ND	ug/L	0.50	0.082		1
1,2-Dichloroethane-d4 (Surrogate)	**B184650-BLK1**	**101**	%	**75 - 125 (LCL - UCL)**			1
Toluene-d8 (Surrogate)	**B184650-BLK1**	**104**	%	**80 - 120 (LCL - UCL)**			1
4-Bromofluorobenzene (Surrogate)	**B184650-BLK1**	**105**	%	**80 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184650-BLK1	PB	EPA-8260B	02/27/24	02/28/24 06:39	RCC	MSV-21	1

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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B184650											
Benzene	B184650-BS1	LCS	27.360	25.000	ug/L	109		70 - 130			1
	B184650-BSD1	LCSD	25.230	25.000	ug/L	101	8.1	70 - 130	20		2
Bromodichloromethane	B184650-BS1	LCS	29.600	25.000	ug/L	118		70 - 130			1
	B184650-BSD1	LCSD	27.880	25.000	ug/L	112	6.0	70 - 130	20		2
Chlorobenzene	B184650-BS1	LCS	27.750	25.000	ug/L	111		70 - 130			1
	B184650-BSD1	LCSD	26.070	25.000	ug/L	104	6.2	70 - 130	20		2
Chloroethane	B184650-BS1	LCS	32.180	25.000	ug/L	129		70 - 130			1
	B184650-BSD1	LCSD	30.490	25.000	ug/L	122	5.4	70 - 130	20		2
1,4-Dichlorobenzene	B184650-BS1	LCS	25.710	25.000	ug/L	103		70 - 130			1
	B184650-BSD1	LCSD	24.980	25.000	ug/L	99.9	2.9	70 - 130	20		2
1,1-Dichloroethane	B184650-BS1	LCS	28.150	25.000	ug/L	113		70 - 130			1
	B184650-BSD1	LCSD	25.900	25.000	ug/L	104	8.3	70 - 130	20		2
1,1-Dichloroethene	B184650-BS1	LCS	29.530	25.000	ug/L	118		70 - 130			1
	B184650-BSD1	LCSD	27.360	25.000	ug/L	109	7.6	70 - 130	20		2
Toluene	B184650-BS1	LCS	28.110	25.000	ug/L	112		70 - 130			1
	B184650-BSD1	LCSD	26.380	25.000	ug/L	106	6.3	70 - 130	20		2
Trichloroethene	B184650-BS1	LCS	28.340	25.000	ug/L	113		70 - 130			1
	B184650-BSD1	LCSD	27.240	25.000	ug/L	109	4.0	70 - 130	20		2
1,2-Dichloroethane-d4 (Surrogate)	B184650-BS1	LCS	10.710	10.000	ug/L	107		75 - 125			1
	B184650-BSD1	LCSD	10.590	10.000	ug/L	106	1.1	75 - 125			2
Toluene-d8 (Surrogate)	B184650-BS1	LCS	10.070	10.000	ug/L	101		80 - 120			1
	B184650-BSD1	LCSD	10.100	10.000	ug/L	101	0.3	80 - 120			2
4-Bromofluorobenzene (Surrogate)	B184650-BS1	LCS	10.110	10.000	ug/L	101		80 - 120			1
	B184650-BSD1	LCSD	10.350	10.000	ug/L	104	2.3	80 - 120			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184650-BS1	LCS	EPA-8260B	02/27/24	02/28/24 17:34	RCC	MS-V21	1
2	B184650-BSD1	LCSD	EPA-8260B	02/27/24	02/28/24 22:10	RCC	MS-V21	1

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San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B184650	Used client sample: N											
Benzene	MS	2403424-01	ND	26.570	25.000	ug/L		106		70 - 130		1
	MSD	2403424-01	ND	26.840	25.000	ug/L	1.0	107	20	70 - 130		2
Bromodichloromethane	MS	2403424-01	ND	28.770	25.000	ug/L		115		70 - 130		1
	MSD	2403424-01	ND	29.320	25.000	ug/L	1.9	117	20	70 - 130		2
Chlorobenzene	MS	2403424-01	ND	27.130	25.000	ug/L		109		70 - 130		1
	MSD	2403424-01	ND	27.280	25.000	ug/L	0.6	109	20	70 - 130		2
Chloroethane	MS	2403424-01	ND	30.280	25.000	ug/L		121		70 - 130		1
	MSD	2403424-01	ND	30.550	25.000	ug/L	0.9	122	20	70 - 130		2
1,4-Dichlorobenzene	MS	2403424-01	ND	25.560	25.000	ug/L		102		70 - 130		1
	MSD	2403424-01	ND	25.560	25.000	ug/L	0	102	20	70 - 130		2
1,1-Dichloroethane	MS	2403424-01	ND	27.270	25.000	ug/L		109		70 - 130		1
	MSD	2403424-01	ND	27.570	25.000	ug/L	1.1	110	20	70 - 130		2
1,1-Dichloroethene	MS	2403424-01	ND	28.070	25.000	ug/L		112		70 - 130		1
	MSD	2403424-01	ND	28.770	25.000	ug/L	2.5	115	20	70 - 130		2
Toluene	MS	2403424-01	ND	26.870	25.000	ug/L		107		70 - 130		1
	MSD	2403424-01	ND	27.010	25.000	ug/L	0.5	108	20	70 - 130		2
Trichloroethene	MS	2403424-01	ND	26.690	25.000	ug/L		107		70 - 130		1
	MSD	2403424-01	ND	26.860	25.000	ug/L	0.6	107	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2403424-01	ND	11.280	10.000	ug/L		113		75 - 125		1
	MSD	2403424-01	ND	11.730	10.000	ug/L	3.9	117		75 - 125		2
Toluene-d8 (Surrogate)	MS	2403424-01	ND	9.9800	10.000	ug/L		99.8		80 - 120		1
	MSD	2403424-01	ND	10.150	10.000	ug/L	1.7	102		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2403424-01	ND	10.390	10.000	ug/L		104		80 - 120		1
	MSD	2403424-01	ND	10.370	10.000	ug/L	0.2	104		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184650-MS1	MS	EPA-8260B	02/27/24	02/28/24 17:59	RCC	MS-V21	1
2	B184650-MSD1	MSD	EPA-8260B	02/27/24	02/28/24 18:24	RCC	MS-V21	1

Pace Analytical
ENVIRONMENTAL SCIENCES

Geologic Associates (Main)
11415 West Bernardo Court, Suite 200
San Diego, CA 92127

Reported: 03/04/2024 11:13
Project: Niland Landfill
Project Number: SO20.1070
Project Manager: William Lopez

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B184515							
Chloride	B184515-BLK1	ND	mg/L	0.50	0.13		1
Nitrate as N	B184515-BLK1	ND	mg/L	0.10	0.024		1
QC Batch ID: B184777							
Total Dissolved Solids @ 180 C	B184777-BLK1	ND	mg/L	6.7	3.3		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184515-BLK1	PB	EPA-300.0	02/23/24	02/23/24 23:01	RC1	IC9	1
1	B184515-BLK1	PB	EPA-300.0	02/23/24	02/23/24 23:01	RC1	IC9	1
2	B184777-BLK1	PB	EPA-160.1	02/29/24	02/29/24 14:00	IJC	MANUAL	0.667

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ENVIRONMENTAL SCIENCES

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San Diego, CA 92127

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Project Manager: William Lopez

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B184515											
Chloride	B184515-BS1	LCS	48.658	50.000	mg/L	97.3		90 - 110			1
Nitrate as N	B184515-BS1	LCS	4.7880	5.0000	mg/L	95.8		90 - 110			1
QC Batch ID: B184777											
Total Dissolved Solids @ 180 C	B184777-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184515-BS1	LCS	EPA-300.0	02/23/24	02/23/24 23:15	RC1	IC9	1
1	B184515-BS1	LCS	EPA-300.0	02/23/24	02/23/24 23:15	RC1	IC9	1
2	B184777-BS1	LCS	EPA-160.1	02/29/24	02/29/24 14:00	IJC	MANUAL	5

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ENVIRONMENTAL SCIENCES

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Project Manager: William Lopez

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B184515	Used client sample: Y - Description: N-MW-1, 02/22/2024 07:17											
Chloride	DUP	2403423-01	25347	26758		mg/L	5.4		10			1
	MS	2403423-01	25347	36337	10101	mg/L		109		80 - 120		2
	MSD	2403423-01	25347	36343	10101	mg/L	0.0	109	10	80 - 120		3
Nitrate as N	DUP	2403423-01	2.8700	ND		mg/L			10			1
	MS	2403423-01	2.8700	981.15	1010.1	mg/L		96.8		80 - 120		2
	MSD	2403423-01	2.8700	982.69	1010.1	mg/L	0.2	97.0	10	80 - 120		3
QC Batch ID: B184777	Used client sample: Y - Description: N-MW-1, 02/22/2024 07:17											
Total Dissolved Solids @ 180 C	DUP	2403423-01	45000	45620		mg/L	1.4		10			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B184515-DUP1	DUP	EPA-300.0	02/23/24	02/23/24 23:28	RC1	IC9	200
1	B184515-DUP1	DUP	EPA-300.0	02/23/24	02/23/24 23:28	RC1	IC9	200
2	B184515-MS1	MS	EPA-300.0	02/23/24	02/23/24 23:42	RC1	IC9	202.02
2	B184515-MS1	MS	EPA-300.0	02/23/24	02/23/24 23:42	RC1	IC9	202.02
3	B184515-MSD1	MSD	EPA-300.0	02/23/24	02/23/24 23:55	RC1	IC9	202.02
3	B184515-MSD1	MSD	EPA-300.0	02/23/24	02/23/24 23:55	RC1	IC9	202.02
4	B184777-DUP1	DUP	EPA-160.1	02/29/24	02/29/24 14:00	IJC	MANUAL	20

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
S01	Sample result is not within the quantitation range of the method.
S09	The surrogate recovery for this compound was not within the control limits.